

○ Results (water)

Locations				2023 June Survey											
		Latitude	Longitude	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)
Abukuma River System	A-1(Surface layer)	37.6210°	140.5218°	7.4	1.6	6.3	8.4	17.7	0.09	2.6	18	5.7	N.D.(0.0014)	0.036	0.00098
	A-1(Bottom layer)	37.6210°	140.5218°	7.4	1.7	6.5	8.6	17.6	0.09	2.7	22	7.0	0.0020	0.061	-
	A-2	37.5673°	140.3946°	7.2	3.5	17.3	9.4	10.7	0.06	4.1	77	38.0	0.0018	0.083	-
	B-2	37.8121°	140.5058°	7.4	1.4	6.3	9.1	17.4	0.09	2.3	29	12.0	N.D.(0.0014)	0.048	-
	B-3	37.8182°	140.4679°	7.4	0.8	3.2	10.3	8.5	0.05	1.4	4	1.6	N.D.(0.0014)	0.0057	-
Uda River	C-6	37.7764°	140.8877°	7.7	0.6	4.0	9.7	11.7	0.06	1.9	3	1.8	N.D.(0.0015)	0.018	0.00098
Mano River	D-4 a	37.7308°	140.9081°	7.2	0.5	3.4	9.4	11.8	0.06	1.6	3	2.1	N.D.(0.0013)	0.0066	0.0013
Niida River	E-2 a	37.6640°	140.9447°	7.3	1.4	5.4	9.4	9.2	0.05	2.3	9	8.1	N.D.(0.0016)	0.041	0.0014
Ota River	F-1	37.5975°	140.9252°	7.3	1.3	5.4	9.6	6.7	0.04	2.1	9	5.8	0.0024	0.12	0.0028
Ukedo River	N-1	37.4998°	140.9835°	6.8	0.7	2.8	8.3	9.1	0.05	1.2	2	1.4	0.0017	0.071	0.0024
	N-2	37.5070°	140.9456°	7.3	<0.5	2.6	9.6	7.4	0.04	1.1	1	0.8	N.D.(0.0018)	0.090	-
	N-3	37.4754°	140.9598°	7.4	0.6	2.9	9.4	8.0	0.04	1.1	4	1.9	N.D.(0.0015)	0.033	-
Tomioka River	O-1	37.3547°	140.9780°	7.3	0.6	3.0	9.1	9.8	0.05	1.0	7	2.2	N.D.(0.0014)	0.017	0.0013
	O-2	37.3624°	140.9612°	7.4	0.7	2.9	9.1	8.9	0.05	1.1	5	3.4	N.D.(0.0015)	0.015	-
Lake Hayama (Mano Dam)	G-1(Surface layer)	37.7313°	140.8132°	7.4	1.7	4.4	9.9	9.4	0.06	2.0	6	6.2	N.D.(0.0015)	0.043	-
	G-1(Bottom layer)	37.7313°	140.8132°	6.9	1.5	5.8	6.6	12.5	0.06	2.0	40	18.0	0.0019	0.099	0.0010
	G-2(Surface layer)	37.7267°	140.8223°	7.6	1.3	3.7	9.4	9.2	0.05	1.9	4	3.9	N.D.(0.0013)	0.026	-
	G-2(Bottom layer)	37.7267°	140.8223°	7.2	1.0	3.0	7.0	8.7	0.05	1.6	4	3.3	0.0031	0.15	-
	G-4	37.7382°	140.8035°	7.6	1.4	3.3	8.8	10.1	0.06	1.7	2	1.7	N.D.(0.0015)	0.0070	-
Lake Akimoto	H-1(Surface layer)	37.6575°	140.1264°	7.1	1.3	4.0	9.1	4.5	0.03	1.6	3	1.8	N.D.(0.0014)	0.0095	-
	H-1(Bottom layer)	37.6575°	140.1264°	6.9	<0.5	4.0	8.7	4.2	0.03	1.5	2	1.5	N.D.(0.0023)	0.0037	0.00090
	H-2(Surface layer)	37.6616°	140.1226°	7.1	0.8	3.3	9.1	4.5	0.03	1.6	2	1.6	N.D.(0.0013)	0.0022	-
	H-2(Bottom layer)	37.6616°	140.1226°	6.7	1.0	3.7	5.1	5.0	0.03	1.6	7	5.3	N.D.(0.0014)	0.013	-
Lake Inawashiro	J-1(Surface layer)	37.4203°	140.1008°	6.6	1.3	2.5	9.8	11.8	0.06	0.9	2	0.9	N.D.(0.0016)	0.0041	-
	J-1(Bottom layer)	37.4203°	140.1008°	6.8	2.0	3.7	9.4	12.0	0.06	1.2	5	2.8	N.D.(0.0014)	0.0038	0.00067
Off the mouth of the Abukuma River (Sea Area in front of the mouth of the Abukuma River)	K-3(Surface layer)	38.0458°	140.9518°	8.2	1.8	4.0	8.9	4210	26.47	1.8	3	2.7	N.D.(0.0014)	0.0035	-
	K-3(Bottom layer)	38.0458°	140.9518°	7.8	0.7	2.0	3.9	4870	34.07	1.1	6	4.2	N.D.(0.0026)	0.0089	0.00083
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	8.1	1.6	3.3	8.5	4430	30.59	1.6	7	4.3	N.D.(0.0014)	0.0070	0.00068
Off Iwaki City (Hisanohama)	M-2(Surface layer)	37.1996°	141.0853°	8.2	<0.5	1.7	8.2	4850	33.73	1.0	<1	0.5	N.D.(0.0013)	0.0022	-
	M-2(Bottom layer)	37.1996°	141.0853°	7.9	<0.5	1.8	6.0	4910	34.37	0.9	<1	0.9	N.D.(0.0012)	0.0049	0.00083

Note1) N.D. means to be below the detection limit and figures in parentheses show the detection limit.

Note2) The survey site at Lake Hayama (Mano Dam) G-1 was moved 500 m downstream due to drought.

○ Results (sediments)

Locations				2023 June Survey																
				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)			
Abukuma River System	A-1	37.6210°	140.5218°	7.4	71	49.0	10.3	30.0	2.560	0.0	0.0	1.1	13.5	55.8	29.6	0.018	2.0	13	650	0.37
	A-2	37.5673°	140.3946°	7.2	462	17.7	1.6	4.4	2.740	38.8	28.9	18.4	5.6	5.8	2.5	1.5	9.5	1.3	54	-
	B-2	37.8121°	140.5058°	7.3	513	20.5	1.6	1.3	2.730	11.8	12.9	45.8	23.6	2.4	3.5	0.41	9.5	1.4	67	-
	B-3	37.8182°	140.4679°	7.6	521	20.4	1.5	1.1	2.620	22.9	48.9	20.6	2.5	2.1	3.0	1.2	9.5	0.63	33	-
Uda River	C-6	37.7764°	140.8877°	7.8	501	16.8	1.2	0.4	2.670	38.9	32.0	20.7	3.2	3.0	2.2	1.5	9.5	1.0	61	0.24
Mano River	D-4 a	37.7308°	140.9081°	7.6	496	16.8	2.5	3.8	2.700	34.3	34.3	15.2	6.8	5.7	3.7	1.4	9.5	3.0	130	0.62
Niida River	E-2 a	37.6640°	140.9447°	7.1	517	19.1	1.6	2.1	2.670	10.0	16.5	59.3	7.5	3.5	3.2	0.59	4.8	5.8	330	0.19
Ota River	F-1	37.5975°	140.9252°	7.1	478	31.3	5.4	4.9	2.660	1.1	2.1	14.9	35.2	31.9	14.8	0.088	4.8	11	490	1.4
Ukedo River	N-1	37.4998°	140.9835°	7.2	489	20.3	1.3	1.8	2.640	4.5	21.8	59.5	10.2	0.7	3.3	0.54	9.5	48	2200	0.17
	N-2	37.5070°	140.9456°	7.4	503	18.9	1.0	0.8	2.640	16.4	24.7	40.0	14.3	1.8	2.8	0.62	9.5	68	2900	-
	N-3	37.4754°	140.9598°	7.4	540	22.4	1.0	1.4	2.640	5.2	30.1	51.3	7.6	2.1	3.7	0.64	4.8	21	950	-
Tomioka River	O-1	37.3547°	140.9780°	7.7	526	19.1	1.2	0.8	2.660	20.5	46.7	23.7	2.9	2.1	4.1	1.1	19	4.4	170	0.12
	O-2	37.3624°	140.9612°	7.7	518	20.1	1.2	1.1	2.680	36.8	32.7	19.1	4.3	4.9	2.2	1.4	19	2.7	140	-
Lake Hayama (Mano Dam)	G-1	37.7313°	140.8132°	7.4	130	49.5	10.3	21.0	2.560	0.0	0.0	0.1	3.1	38.0	58.8	0.0022	2.0	41	1800	2.4
	G-2	37.7267°	140.8223°	7.2	222	48.0	11.5	24.0	2.520	0.6	1.7	2.7	32.1	48.8	14.1	0.059	9.5	29	1200	-
	G-4	37.7382°	140.8035°	7.6	447	21.2	2.2	1.8	2.650	40.0	30.0	18.8	4.8	3.8	2.6	1.5	38	2.3	150	-
Lake Akimoto	H-1	37.6575°	140.1264°	7.1	104	53.5	11.4	47.0	2.490	0.0	0.0	0.1	0.5	53.2	46.2	0.0058	2.0	18	990	1.1
	H-2	37.6616°	140.1226°	6.8	100	54.9	14.7	73.0	2.420	0.0	0.0	0.0	0.1	41.9	58.0	0.0035	0.85	5.1	260	-
Lake Inawashiro	J-1	37.4203°	140.1008°	7.0	459	24.3	1.2	2.0	2.730	0.6	0.9	54.4	40.8	0.4	2.9	0.27	9.5	0.56	26	0.18
Off the mouth of the Abukuma River (Sea Area in front of the mouth of the Abukuma River)	K-3	38.0458°	140.9518°	7.7	54	33.0	5.7	7.5	2.650	0.0	0.1	0.4	39.6	48.8	11.1	0.058	2.0	3.5	130	N.D.(0.13)
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	7.8	176	26.1	3.1	4.3	2.680	0.0	0.2	14.3	63.3	12.9	9.3	0.14	2.0	2.7	120	N.D.(0.12)
Off Iwaki City (Hisanohama)	M-2	37.1996°	141.0853°	7.7	344	25.1	2.1	1.0	2.750	0.0	0.6	2.5	91.2	2.1	3.6	0.15	4.8	0.35	14	N.D.(0.14)

Note1) N.D. means to be below the detection limit and figures in parentheses show the detection limit.
Note2) The survey site at Lake Hayama (Mano Dam) G-1 was moved 500 m downstream due to drought.

○ Results (aquatic organisms)

Location		Sampling point	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)
												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Abukuma River System	A-1	The main stream of the Abukuma River	2023/6/6	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.0069	-	-	-	82	N.D.(15)	82	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Neocaridina</i> sp.	Neocaridina	188	0.054	Juvenile,Imago	-	-	1.6	N.D.(0.94)	1.6	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudaspius hakonensis</i>	Japanese dace	2	0.019	Immature fish	-	-	N.D.	N.D.(2.3)	N.D.(1.9)	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale break	7	0.083	Immature fish, Mature fish	-	-	4.6	N.D.(0.60)	4.6	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus</i>	Pseudogobio	3	0.023	Immature fish	-	-	N.D.	N.D.(1.8)	N.D.(1.6)	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius</i> sp.	Silver crucian carp	1	1.9	Mature fish	Obscure digesta	Viscera removed	2.0	N.D.(0.25)	2.0	0.28
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Barbatula oreas</i>	Stone loach	102	0.40	Immature fish	-	-	1.5	N.D.(0.20)	1.5	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Lepomis macrochirus macrochirus</i>	Bluegill	1	0.16	Mature fish	Chironomidae(larva), Dragonfly(larva),Beetles, Neocaridina	Viscera removed	3.6	N.D.(0.38)	3.6	-
				Vertebrata	Osteichthyes	Siluriformes	Ictaluridae	<i>Ictalurus punctatus</i>	American catfish	4	1.9	Immature fish	Plant pieces	Viscera removed	7.5	N.D.(0.40)	7.5	0.23
				Vertebrata	Osteichthyes	Siluriformes	Ictaluridae	<i>Ictalurus punctatus</i>	American catfish	1	1.3	Immature fish	Plant pieces	Viscera removed	9.7	N.D.(1.9)	9.7	0.23
				Vertebrata	Amphibia	Anura	-	Amphibia	Frog	37	0.016	Larva(Tadpole)	-	-	84	N.D.(16)	84	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.24	-	-	-	46	N.D.(1.6)	46	-
	A-2	Harase River	2023/6/6	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.011	-	-	-	73	N.D.(14)	73	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Dragonfly	68	0.024	Larva (Dragonfly larva)	-	-	11	N.D.(1.9)	11	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	Jumbo dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Meligomphus viridicostus</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius</i> sp.	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Shaogomphus postocularis</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	Jumbo dragonfly									
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Dobsonfly	28	0.018	Larva	-	-	3.5	N.D.(2.2)	3.5	-
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	1	0.012	Imago	-	-	14	N.D.(3.3)	14	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Neocaridina</i> sp.	Neocaridina	301	0.076	Juvenile,Imago	-	-	3.8	N.D.(0.66)	3.8	-
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	Freshwater snail	30	0.021	Juvenile,Imago	-	Molluscous part	8.5	N.D.(1.7)	8.5	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.15	Immature fish	Empty stomach	Viscera removed	4.7	N.D.(0.59)	4.7	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	2	0.024	Immature fish	-	-	7.1	N.D.(1.7)	7.1	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Rhynchocypris lagowskii steindachneri</i>	Amur minnow	121	0.86	Immature fish, Mature fish	-	-	4.0	N.D.(1.3)	4.0	0.23
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale break	17	0.10	Immature fish	-	-	10	N.D.(1.5)	10	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus</i>	Pseudogobio	8	0.13	Immature fish, Mature fish	-	-	3.9	N.D.(0.51)	3.9	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	34	0.28	Immature fish, Mature fish	-	-	3.6	N.D.(0.63)	3.6	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	22	0.14	Immature fish, Mature fish	-	-	5.2	N.D.(0.61)	5.2	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Barbatula oreas</i>	Stone loach	145	1.0	Immature fish	-	-	2.8	N.D.(0.32)	2.8	0.16
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Masu salmon	42	1.1	Immature fish	-	-	3.8	N.D.(0.57)	3.8	0.089
				Vertebrata	Amphibia	Anura	-	Amphibia	Frog	64	0.039	Larva(Tadpole)	-	-	46	N.D.(5.3)	46	-
				Vertebrata	Amphibia	Anura	Ranidae	<i>Rana japonica</i>	Japanese brown frog	8	0.057	Imago	-	-	7.8	N.D.(1.1)	7.8	-
				Vertebrata	Amphibia	Anura	Glandirana	<i>Glandirana rugosa</i>	Wrinkled frog									
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.21	-	-	-	41	N.D.(1.5)	41	-

*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.

Location		Sampling point	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)
												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Abukuma River System	B-3	Surikami River	2023/6/6	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.010	-	-	-	13	N.D.(2.9)	13	-
				Algae/plant	Zygnematophyceae	Zygnematales	Zygnemataceae	<i>Spirogyra</i> sp.	Spirogyra	-	0.34	-	-	-	9.8	N.D.(0.54)	9.8	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Caddisfly	192	0.087	Larva	-	-	7.1	N.D.(0.73)	7.1	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Dragonfly	53	0.029	Larva (Dragonfly larva)	-	-	N.D.	N.D.(1.3)	N.D.(1.1)	-
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Dragonfly									
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Dobsonfly	20	0.023	Larva	-	-	N.D.	N.D.(2.0)	N.D.(1.8)	-
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	17	0.14	Juvenile,Imago	-	-	4.8	N.D.(0.51)	4.8	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	5	0.043	Immature fish	-	-	2.1	N.D.(0.96)	2.1	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Rhynchocypris lagowskii steindachneri</i>	Amur minnow	51	0.27	Immature fish, Mature fish	-	-	2.5	N.D.(0.31)	2.5	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudaspius hakonensis</i>	Japanese dace	4	0.075	Immature fish, Mature fish	-	-	4.0	N.D.(0.63)	4.0	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	5.5	Mature fish	Obscure digesta	Viscera removed	6.0	N.D.(1.2)	6.0	0.39
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Barbatula oreas</i>	Stone loach	21	0.29	Immature fish	-	-	1.8	N.D.(0.25)	1.8	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Ayu sweetfish	228	2.3	Immature fish	-	-	5.2	N.D.(0.66)	5.2	0.15
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Masu salmon	12	0.12	Immature fish	-	-	1.4	N.D.(0.43)	1.4	-
				Vertebrata	Amphibia	Anura	Lithobates	<i>Lithobates catesbeianus</i>	American bullfrog	1	0.014	Larva(Tadpole)	-	-	27	N.D.(3.2)	27	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.22	-	-	-	10	N.D.(1.3)	10	-

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Location		Sampling point	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)
												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Uda River	C-6	The main stream of the Uda River	2023/6/10	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.0037	-	-	-	24	N.D.(7.5)	24	-
				Arthropoda	Insecta	Plecoptera	Perlidae	<i>Kamimuria uenoi</i>	Stonefly	94	0.018	Larva	-	-	N.D.	N.D.(2.3)	N.D.(1.8)	-
				Arthropoda	Insecta	Plecoptera	Perlidae	<i>Oyamia lugubris</i>	Stonefly									
				Arthropoda	Insecta	Plecoptera	Perlidae	<i>Paragnetina suzukii</i>	Stonefly									
				Arthropoda	Insecta	Plecoptera	Perlidae	<i>Neoperla</i> sp.	Stonefly									
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Caddisfly	154	0.016	Larva	-	-	22	N.D.(3.1)	22	-
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Dobsonfly	40	0.034	Larva	-	-	6.2	N.D.(1.2)	6.2	-
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	5	0.11	Imago	-	-	2.5	N.D.(0.59)	2.5	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Lake prawn	12	0.012	Imago	-	-	1.8	N.D.(2.4)	1.8	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	137	0.081	Juvenile, Imago	-	-	3.8	N.D.(0.51)	3.8	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	30	0.36	Juvenile	-	-	3.5	N.D.(0.30)	3.5	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.095	Immature fish	<i>Lethenteron</i> sp., <i>Procambarus clarkii</i> , Pillbug	Viscera removed	2.5	N.D.(0.56)	2.5	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale break	98	0.22	Immature fish, Mature fish	-	-	2.3	N.D.(0.27)	2.3	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus</i>	Pseudogobio	3	0.049	Immature fish, Mature fish	-	-	1.7	N.D.(1.1)	1.7	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	37	0.078	Immature fish	-	-	2.2	N.D.(0.63)	2.2	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Gnathopogon elongatus elongatus</i>	Field gudgeon	9	0.054	Immature fish, Mature fish	-	-	4.7	N.D.(0.99)	4.7	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis</i> sp.	Japanese striped loach	5	0.014	Mature fish	-	-	2.8	N.D.(2.6)	2.8	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Ayu sweetfish	114	1.6	Immature fish, Mature fish	-	-	7.0	N.D.(0.86)	7.0	0.095
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Floating goby	2	0.020	Immature fish	-	-	4.2	N.D.(2.5)	4.2	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius	28	0.11	Immature fish, Mature fish	-	-	3.9	N.D.(0.76)	3.9	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	Rhinogobius									
				Vertebrata	Cephalaspidomorphi	Petromyzontiformes	Petromyzontidae	<i>Lethenteron</i> sp.	Lethenteron	2	0.0080	Ammocoetes(larva)	-	-	N.D.	N.D.(4.6)	N.D.(3.9)	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.27	-	-	-	29	N.D.(1.3)	29	-

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Location		Sampling point	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)
												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Mano River	D-3	The main stream of the Mano River	2023/6/16	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudaspius hakonensis</i>	Japanese dace	10	0.18	Immature fish	-	-	4.1	N.D.(0.34)	4.1	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale break	66	1.0	Immature fish, Mature fish	-	-	3.4	N.D.(0.44)	3.4	0.18
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Ayu sweetfish	106	1.8	Immature fish	-	-	5.7	N.D.(0.59)	5.7	0.066
	D-4 b	The main stream of the Mano River	2023/6/9	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.0032	-	-	-	110	N.D.(21)	110	-
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	13	0.15	Juvenile,Imago	-	-	11	N.D.(2.0)	11	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Lake prawn	52	0.073	Imago	-	-	2.9	N.D.(0.50)	2.9	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	289	0.087	Juvenile,Imago	-	-	4.8	N.D.(0.60)	4.8	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	11	0.16	Juvenile	-	-	5.1	N.D.(0.47)	5.1	-
				Mollusca	Bivalvia	Unionoida	Unionidae	<i>Inversiunio jokohamensis</i>	Inversiunio	8	0.037	Juvenile	-	Molluscous part	5.0	N.D.(1.1)	5.0	-
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	Freshwater snail	25	0.027	Juvenile,Imago	-	Molluscous part	11	N.D.(2.3)	11	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.062	Immature fish	Obscure digesta	Viscera removed	5.6	N.D.(0.69)	5.6	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Ayu sweetfish	17	0.23	Immature fish	-	-	7.0	N.D.(1.2)	7.0	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius	13	0.038	Immature fish, Mature fish	-	-	4.7	N.D.(1.1)	4.7	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagovae</i>	<u>Rhinogobius</u>									
				Vertebrata	Amphibia	Anura	Ranidae	<i>Rana japonica</i>	Japanese brown frog	1	0.024	Imago	-	-	6.8	N.D.(1.6)	6.8	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.28	-	-	-	50	N.D.(1.3)	50	-
	D-5	The main stream of the Mano River	2023/6/16	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Masu salmon	6	0.49	Immature fish, Mature fish	Aquatic insect,Frog	Viscera removed	101.0	2.0	99	-

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												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Niida River	E-2 b	The main stream of the Niida River	2023/6/13	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.014	-	-	-	110	N.D.(11)	110	-
				Algae/plant	Zygnematomyceae	Zygnematales	Zygnemataceae	<i>Spirogyra</i> sp.	Spirogyra	-	0.22	-	-	-	5.4	N.D.(0.28)	5.4	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Caddisfly	323	0.067	Larva	-	-	60	N.D.(3.5)	60	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Dragonfly	89	0.022	Larva (Dragonfly larva)	-	-	22	N.D.(2.8)	22	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	Jumbo dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Meligomphus viridicostus</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius</i> sp.	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Anisogomphus maacki</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Libellulidae	<i>Sympetrum</i> sp.	Dragonfly									
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Dobsonfly	74	0.046	Larva	-	-	7.4	N.D.(0.98)	7.4	-
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	9	0.072	Juvenile, Imago	-	-	17	N.D.(3.2)	17	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Lake prawn	185	0.17	Imago	-	-	11	N.D.(1.1)	11	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	254	0.061	Juvenile, Imago	-	-	16	N.D.(4.2)	16	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	13	0.090	Juvenile	-	-	18	N.D.(2.5)	18	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	4	0.041	Immature fish	-	-	5.6	N.D.(0.93)	5.6	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudaspius hakonensis</i>	Japanese dace	1	0.019	Immature fish	-	-	8.7	N.D.(1.9)	8.7	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale break	44	0.15	Immature fish, Mature fish	-	-	6.6	N.D.(0.70)	6.6	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Sarcocheilichthys variegatus variegatus</i>	Sarcocheilichthys	2	0.017	Immature fish, Mature fish	-	-	4.8	N.D.(2.0)	4.8	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	3	0.011	Immature fish	-	-	3.9	N.D.(2.9)	3.9	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis</i> sp.	Japanese striped loach	6	0.015	Immature fish, Mature fish	-	-	N.D.	N.D.(2.6)	N.D.(2.2)	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	3	0.015	Immature fish	-	-	3.1	N.D.(2.9)	3.1	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Ayu sweetfish	2	0.023	Immature fish	-	-	26	N.D.(4.6)	26	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Floating goby	2	0.023	Immature fish	-	-	21	N.D.(4.1)	21	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius	28	0.087	Immature fish, Mature fish	-	-	8.5	N.D.(0.90)	8.5	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	Rhinogobius									
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	0.15	Immature fish	<i>Rhinogobius nagoyae</i> , <i>Palaemon paucidens</i>	Viscera removed	18	N.D.(2.1)	18	-
				Vertebrata	Amphibia	Anura	-	Amphibia	Frog	12	0.0044	Larva(Tadpole)	-	-	31	N.D.(6.9)	31	-
				Vertebrata	Amphibia	Anura	Glandirana	<i>Glandirana rugosa</i>	Wrinkled frog	7	0.044	Imago	-	-	12	N.D.(1.3)	12	-
				Vertebrata	Amphibia	Anura	Pelophylax	<i>Pelophylax porosus porosus</i>	Tokyo daruma pond frog									
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.27	-	-	-	96.3	2.3	94	-
	E-3	The main stream of the Niida River	2023/6/10	Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Lake prawn	73	0.046	Juvenile, Imago	-	-	7.3	N.D.(0.93)	7.3	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	6	0.036	Immature fish	Obscure digesta	Viscera removed	9.0	N.D.(1.3)	9.0	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Barbel steed	1	1.5	Mature fish	Obscure digesta	Viscera removed	11	N.D.(1.2)	11	1.2
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Ayu sweetfish	23	0.16	Immature fish	-	-	25	N.D.(1.7)	25	-
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	1.2	Mature fish	<i>Plecoglossus altivelis altivelis</i> , <i>Palaemon paucidens</i>	Viscera removed	28	N.D.(1.5)	28	0.52
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	1.7	Mature fish	<i>Plecoglossus altivelis altivelis</i> , <i>Palaemon paucidens</i>	Viscera removed	73	N.D.(1.4)	73	0.59
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	1.9	Mature fish	<i>Palaemon paucidens</i>	Viscera removed	39	N.D.(1.4)	39	0.63

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												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Ota River	F-1	The main stream of the Ota River	2023/6/7	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.059	-	-	-	100	N.D.(3.9)	100	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Caddisfly	88	0.0071	Larva	-	-	69	N.D.(11)	69	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Dragonfly	30	0.013	Larva (Dragonfly larva)	-	-	39	N.D.(8.5)	39	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	Jumbo dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius</i> sp.	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Libellulidae	<i>Sympetrum</i> sp.	Dragonfly									
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	Jumbo dragonfly									
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Dobsonfly	32	0.011	Larva	-	-	15	N.D.(3.0)	15	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Lake prawn	141	0.40	Imago	-	-	59.2	1.2	58	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	242	0.094	Juvenile, Imago	-	-	49	N.D.(2.4)	49	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	1	0.010	Juvenile	-	-	91	N.D.(17)	91	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	3	1.3	Mature fish	Empty stomach	Viscera removed	72	N.D.(1.5)	72	0.45
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudaspius hakonensis</i>	Japanese dace	7	0.31	Immature fish, Mature fish	-	-	142.8	2.8	140	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale break	18	0.22	Immature fish, Mature fish	-	-	80	N.D.(1.8)	80	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	44	0.17	Immature fish, Mature fish	-	-	51	N.D.(2.0)	51	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	3.6	Mature fish	Obscure digesta	Viscera removed	193.3	3.3	190	2.4
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis</i> sp.	Japanese striped loach	16	0.034	Immature fish, Mature fish	-	-	59	N.D.(7.0)	59	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Ayu sweetfish	1	0.013	Immature fish	-	-	79	N.D.(20)	79	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius	7	0.035	Mature fish	-	-	130	N.D.(5.7)	130	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	Rhinogobius									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Tridentiger brevispinis</i>	Dusky tripletooth goby	1	0.032	Mature fish	-	-	54	N.D.(6.1)	54	-
				Vertebrata	Cephalaspidomorphi	Petromyzontiformes	Petromyzontidae	<i>Lethenteron</i> sp.	Lethenteron	6	0.012	Ammocoetes(larva)	-	-	22	N.D.(3.4)	22	-
				Vertebrata	Amphibia	Anura	-	Amphibia	Frog	53	0.046	Larva(Tadpole)	-	-	69	N.D.(6.0)	69	-
				Vertebrata	Amphibia	Anura	Lithobates	<i>Lithobates catesbeianus</i>	American bullfrog	12	0.20	Larva(Tadpole)	-	-	102.4	2.4	100	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.25	-	-	-	152.7	2.7	150	-
	F-5	The main stream of the Ota River	2023/6/7	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	3.1	Mature fish	Obscure digesta	Viscera removed	30	N.D.(1.2)	30	1.9
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	3.5	Mature fish	Obscure digesta	Viscera removed	30	N.D.(1.2)	30	1.9
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	3.6	Mature fish	Obscure digesta	Viscera removed	36	N.D.(1.4)	36	1.3
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Ayu sweetfish	295	1.8	Immature fish	-	-	42.3	1.3	41	0.27

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Location		Sampling point	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)
												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Ukedo River	N-1	The main stream of the Ukedo River	2023/6/14	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.0058	-	-	-	200	N.D.(29)	200	-
				Algae/plant	Monocotyledoneae	Najadales	Potamogetonaceae	<i>Potamogeton crispus</i>	Curly-leaf pondweed	-	0.26	-	-	-	81.7	1.7	80	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Caddisfly	146	0.020	Larva	-	-	290	N.D.(9.9)	290	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Dragonfly	48	0.0083	Larva (Dragonfly larva)	-	-	65	N.D.(14)	65	-
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius</i> sp.	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Shaogomphus postocularis</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Anisogomphus maacki</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	Jumbo dragonfly	9	0.0043	Larva	-	-	37	N.D.(9.2)	37	-
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Dobsonfly									
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Lake prawn									
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp									
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab									
				Mollusca	Bivalvia	Veneroida	Corbicula	<i>Corbicula</i> sp.	Corbicula	39	0.0044	Juvenile,Imago	-	Molluscous part	69	N.D.(18)	69	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	5	0.90	Immature fish, Mature fish	Fish,Aquatic insect	Viscera removed	285.4	5.4	280	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus reinii</i>	Sculpin	36	0.13	Immature fish	-	-	78	N.D.(1.9)	78	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudaspius hakonensis</i>	Japanese dace	1	0.022	Immature fish	-	-	88	N.D.(6.7)	88	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	2	3.0	Mature fish	Obscure digesta	Viscera removed	96.4	1.4	95	1.6
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Acheilognathus melanogaster</i>	Acheilognathus	5	0.012	Immature fish, Mature fish	-	-	130	N.D.(16)	130	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Ayu sweetfish	282	1.7	Immature fish	-	-	225.2	5.2	220	0.31
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<u>Rhinogobius</u>	41	0.046	Immature fish, Mature fish	-	-	96.8	4.8	92	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius</i> sp.OR	Amur goby									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius</i> sp.	Freshwater goby									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Tridentiger brevispinis</i>	Dusky tripletooth goby	9	0.072	Immature fish, Mature fish	-	-	114.4	4.4	110	-
				Vertebrata	Amphibia	Anura	Lithobates	<i>Lithobates catesbeianus</i>	American bullfrog	13	0.20	Larva(Tadpole)	-	-	226.1	6.1	220	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.24	-	-	-	225.2	5.2	220	-

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*8: Activity concentrations include counting errors, but the details are omitted here.

Location		Sampling point	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)
												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
	N-2	The main stream of the Ukedo River	2023/6/13	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.0062	-	-	-	370	N.D.(24)	370	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Caddisfly	276	0.034	Larva	-	-	170	N.D.(5.9)	170	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Dragonfly	73	0.022	Larva (Dragonfly larva)	-	-	170	N.D.(7.0)	170	-
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Meligomphus viridicostus</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius</i> sp.	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Anisogomphus maacki</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	Jumbo dragonfly									
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Dobsonfly	34	0.016	Larva	-	-	30	N.D.(4.8)	30	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Lake prawn	142	0.23	Imago	-	-	82	N.D.(1.6)	82	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	231	0.047	Juvenile,Imago	-	-	144.0	4.0	140	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	3	0.017	Juvenile	-	-	110	N.D.(8.9)	110	-
				Mollusca	Bivalvia	Veneroida	Corbicula	<i>Corbicula</i> sp.	Corbicula	48	0.0089	Imago	-	Molluscous part	77	N.D.(11)	77	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus reinii</i>	Sculpin	3	0.032	Immature fish	-	-	110	N.D.(5.2)	110	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Rhynchocypris lagowskii steindachneri</i>	Amur minnow	3	0.010	Immature fish, Mature fish	-	-	92	N.D.(12)	92	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudaspius hakonensis</i>	Japanese dace	3	0.066	Immature fish, Mature fish	-	-	240	N.D.(3.8)	240	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsarichthys platypus</i>	Pale break	5	0.14	Mature fish	-	-	133.3	3.3	130	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	2.4	Mature fish	Obscure digesta	Viscera removed	192.9	2.9	190	1.7
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	6.0	Mature fish	Obscure digesta	Viscera removed	234.4	4.4	230	3.9
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Ayu sweetfish	183	1.5	Immature fish	-	-	183.2	3.2	180	0.34
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Masu salmon	8	0.094	Immature fish	-	-	122.9	2.9	120	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	Rhinogobius	24	0.021	Immature fish, Mature fish	-	-	81	N.D.(6.7)	81	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Tridentiger brevispinis</i>	Dusky tripletooth goby	1	0.024	Mature fish	-	-	110	N.D.(7.1)	110	-
				Vertebrata	Osteichthyes	Siluriformes	Amblycipitidae	<i>Liobagrus reinii</i>	Torrent catfish	5	0.019	Immature fish, Mature fish	-	-	100	N.D.(9.6)	100	-
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	1.1	Mature fish	Empty stomach	Viscera removed	5210	110	5100	1.1
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.24	-	-	-	143.0	3.0	140	-
	N-3	The main stream of the Takase River	2023/6/11	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.014	-	-	-	62	N.D.(11)	62	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Caddisfly	238	0.033	Larva	-	-	37	N.D.(6.5)	37	-
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Dobsonfly	10	0.0038	Larva	-	-	5.7	N.D.(6.2)	5.7	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Lake prawn	67	0.081	Imago	-	-	18	N.D.(2.7)	18	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	50	0.014	Juvenile,Imago	-	-	23	N.D.(2.7)	23	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	20	0.17	Juvenile	-	-	29	N.D.(1.5)	29	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus reinii</i>	Sculpin	39	0.32	Immature fish	-	-	15	N.D.(1.1)	15	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsarichthys platypus</i>	Pale break	1	0.016	Immature fish	-	-	110	N.D.(12)	110	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	64	0.069	Immature fish	-	-	25	N.D.(2.6)	25	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Barbatula oreas</i>	Stone loach	121	1.2	Immature fish	-	-	13	N.D.(1.3)	13	0.25
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Ayu sweetfish	317	2.0	Immature fish	-	-	66.3	1.3	65	0.16
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<u>Rhinogobius</u>	51	0.092	Immature fish, Mature fish	-	-	22	N.D.(2.4)	22	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius</i> sp.	Freshwater goby									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Tridentiger brevispinis</i>	Dusky tripletooth goby	1	0.014	Mature fish	-	-	27	N.D.(5.7)	27	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Sicyopterus japonicus</i>	Monk goby	9	0.084	Immature fish, Mature fish	-	-	53.4	2.4	51	-
				Vertebrata	Cephalaspidomorphi	Petromyzontiformes	Petromyzontidae	<i>Lethenteron</i> sp.	Lethenteron	12	0.010	Ammocoetes(larva)	-	-	4.8	N.D.(3.6)	4.8	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.24	-	-	-	72.8	1.8	71	-

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Location		Sampling point	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)
												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Tomioka River	O-1	The main stream of the Tomioka River	2023/6/11	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.0029	-	-	-	43	N.D.(9.1)	43	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Caddisfly	93	0.0064	Larva	-	-	96	N.D.(16)	96	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Dragonfly	42	0.011	Larva (Dragonfly larva)	-	-	8.7	N.D.(2.9)	8.7	-
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius</i> sp.	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	Jumbo dragonfly									
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Dobsonfly	52	0.017	Larva	-	-	10	N.D.(1.8)	10	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Lake prawn	119	0.13	Imago	-	-	8.8	N.D.(1.9)	8.8	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	51	0.018	Juvenile,Imago	-	-	18	N.D.(3.1)	18	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	12	0.039	Juvenile	-	-	15	N.D.(2.4)	15	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudaspius hakonensis</i>	Japanese dace	2	0.036	Immature fish	-	-	17	N.D.(4.1)	17	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale break	1	0.016	Mature fish	-	-	19	N.D.(3.0)	19	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	7	0.060	Immature fish, Mature fish	-	-	13	N.D.(2.9)	13	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Ayu sweetfish	96	1.5	Immature fish, Mature fish	-	-	11	N.D.(1.2)	11	0.037
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius	2	0.018	Mature fish	-	-	15	N.D.(3.3)	15	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.25	-	-	-	58	N.D.(1.6)	58	-
	O-2	The main stream of the Tomioka River	2023/6/11	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.0027	-	-	-	46	N.D.(12)	46	-
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Dobsonfly	32	0.023	Larva	-	-	2.4	N.D.(2.0)	2.4	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Lake prawn	47	0.049	Juvenile,Imago	-	-	7.3	N.D.(1.1)	7.3	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	8	0.13	Juvenile	-	-	15	N.D.(1.6)	15	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudaspius hakonensis</i>	Japanese dace	94	1.5	Immature fish, Mature fish	-	-	21	N.D.(0.99)	21	0.26
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale break	3	0.061	Mature fish	-	-	20	N.D.(4.5)	20	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	13	0.29	Immature fish, Mature fish	-	-	32	N.D.(1.2)	32	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis</i> sp.	Japanese striped loach	5	0.019	Mature fish	-	-	7.0	N.D.(2.1)	7.0	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Ayu sweetfish	101	2.0	Immature fish, Mature fish	-	-	22	N.D.(1.2)	22	0.051
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Masu salmon	78	1.5	Immature fish, Mature fish	Beetles,Caterpillar,Ant, Aquatic insect,Bee, Caddisfly(larva),Fish	Viscera removed	12	N.D.(0.94)	12	0.19
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius	5	0.050	Mature fish	-	-	12	N.D.(1.1)	12	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Tridentiger brevispinis</i>	Dusky tripletooth goby	1	0.019	Mature fish	-	-	8.3	N.D.(2.1)	8.3	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Sicyopterus japonicus</i>	Monk goby	1	0.022	Mature fish	-	-	25	N.D.(5.9)	25	-
				Vertebrata	Amphibia	Anura	Lithobates	<i>Lithobates catesbeianus</i>	American bullfrog	1	0.34	Imago	-	-	50	N.D.(1.1)	50	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.24	-	-	-	59.6	1.6	58	-

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Location		Sampling point	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)
												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Lake Hayama	G-1 G-2 G-3	In the lake	2023/6/8	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.028	-	-	-	2.6	N.D.(1.5)	2.6	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius</i> sp.	Silver crucian carp	1	0.63	Mature fish	Obscure digesta	Viscera removed	27	N.D.(1.5)	27	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	2	1.8	Mature fish	Obscure digesta	Viscera removed	16	N.D.(1.5)	16	0.41
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	1.7	Mature fish	Obscure digesta	Viscera removed	13	N.D.(1.2)	13	0.39
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Lepomis macrochirus macrochirus</i>	Bluegill	1	0.015	Immature fish	Terrestrial insect	Viscera removed	22	N.D.(3.1)	22	-
	G-4	Inflowing rivers	2023/6/8	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.0037	-	-	-	78	N.D.(16)	78	-
				Arthropoda	Insecta	Ephemeroptera	Isonychiidae	<i>Isonychia valida</i>	<u>Mayfly</u>	107	0.0082	Larva	-	-	19	N.D.(3.6)	19	-
				Arthropoda	Insecta	Ephemeroptera	Ephemeridae	<i>Ephemera japonica</i>	Mont mayfly									
				Arthropoda	Insecta	Plecoptera	Perlidae	<i>Paragnetina tinctipennis</i>	Stonefly	62	0.011	Larva	-	-	2.7	N.D.(2.2)	2.7	-
				Arthropoda	Insecta	Plecoptera	Perlidae	<i>Kamimuria quadrata</i>	Stonefly									
				Arthropoda	Insecta	Plecoptera	Perlidae	<i>Paragnetina suzukii</i>	<u>Stonefly</u>									
				Arthropoda	Insecta	Plecoptera	Perlidae	<i>Neoperla</i> sp.	Stonefly									
				Arthropoda	Insecta	Plecoptera	Perlidae	<i>Niponiella limbatella</i>	Stonefly									
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Caddisfly	51	0.015	Larva	-	-	24	N.D.(4.5)	24	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Dragonfly	23	0.0066	Larva (Dragonfly larva)	-	-	15	N.D.(5.8)	15	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	Jumbo dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Nihonogomphus viridis</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	<u>Dragonfly</u>									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Dragonfly									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius</i> sp.	Dragonfly									
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Dobsonfly	50	0.046	Larva	-	-	2.2	N.D.(0.88)	2.2	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudaspius hakonensis</i>	Japanese dace	72	0.94	Immature fish, Mature fish	-	-	30	N.D.(2.2)	30	0.21
			2023/6/16	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudaspius hakonensis</i>	Japanese dace	1	0.025	Immature fish	-	-	11	N.D.(1.6)	11	-
			2023/6/8	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsartichthys platypus</i>	Pale break	33	0.59	Immature fish, Mature fish	-	-	90.6	1.6	89	-
			2023/6/16	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Masu salmon	214	1.3	Immature fish, Mature fish	Glossosomatidae, <i>Oncorhynchus masou masou</i> ,Ladybug,Ground beetle, <i>Stenopsyche marmorata</i>	Viscera removed	13	N.D.(1.3)	13	0.12
			2023/6/8	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Masu salmon	7	0.47	Immature fish, Mature fish	-	-	21	N.D.(1.2)	21	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu dolomieu</i>	Smallmouth bass	3	0.040	Immature fish	<i>Rhinogobius flumineus</i> , <i>Stenopsyche marmorata</i>	Viscera removed	12	N.D.(1.3)	12	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Lepomis macrochirus macrochirus</i>	Bluegill	2	0.011	Immature fish	-	-	15	N.D.(3.3)	15	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius flumineus</i>	Rhinogobius	28	0.028	Immature fish	-	-	9.1	N.D.(1.4)	9.1	-
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	0.54	Mature fish	Fish	Viscera removed	36	N.D.(1.4)	36	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.24	-	-	-	74.7	1.7	73	-

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Location		Sampling point	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)
												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Lake Akimoto	H-1 H-2 H-3	In the lake	2023/6/18	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.026	-	-	-	2.0	N.D.(1.9)	2.0	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Lake prawn	84	0.028	Juvenile,Imago	-	-	N.D.	N.D.(1.7)	N.D.(1.7)	-
			2023/6/20	Arthropoda	Malacostraca	Decapoda	Astacidae	<i>Pacifastacus leniusculus</i>	Signal crayfish	63	2.5	Imago	-	-	14	N.D.(1.5)	14	6.3
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudaspius hakonensis</i>	Japanese dace	23	3.9	Mature fish	Obscure digesta	Viscera removed	19	N.D.(1.3)	19	0.74
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius</i> sp.	Silver crucian carp	18	4.0	Mature fish	Obscure digesta	Viscera removed	14	N.D.(1.5)	14	1.2
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Barbel steed	4	2.8	Mature fish	Obscure digesta	Viscera removed	17	N.D.(1.2)	17	1.1
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Japanese char	6	2.2	Mature fish	Empty stomach	Viscera removed	19	N.D.(1.3)	19	0.33
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Cherry salmon	3	0.91	Immature fish	Empty stomach	Viscera removed	16	N.D.(1.5)	16	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu dolomieu</i>	Smallmouth bass	7	1.6	Immature fish	<i>Palaemon paucidens</i> , Plant pieces	Viscera removed	20	N.D.(1.3)	20	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Lepomis macrochirus macrochirus</i>	Bluegill	3	0.44	Mature fish	Terrestrial insect, <i>Palaemon paucidens</i> ,Ant	Viscera removed	13	N.D.(1.7)	13	-
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	0.81	Mature fish	Empty stomach	Viscera removed	37	N.D.(1.3)	37	-
	H-3	Inflowing rivers	2023/6/18	Algae/plant	-	-	-	-	Sediment deposited on riverbed(Including algae)	-	0.0046	-	-	-	14	N.D.(6.8)	14	-
			2023/6/19	Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	11	0.089	Immature fish	-	-	3.7	N.D.(0.51)	3.7	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudaspius hakonensis</i>	Japanese dace	2	0.036	Immature fish	-	-	13	N.D.(2.9)	13	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Japanese char	12	0.36	Immature fish	Phryganeidae,Spiders, Chironomidae	Viscera removed	4.1	N.D.(0.35)	4.1	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Masu salmon	7	0.024	Immature fish	-	-	3.7	N.D.(2.5)	3.7	-
				Vertebrata	Amphibia	Anura	Rhacophoridae	<i>Buergeria buergeri</i>	Kajika frog	2	0.0073	Imago	-	-	34	N.D.(12)	34	-
			2023/6/18	Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.22	-	-	-	4.1	N.D.(0.62)	4.1	-
	H-4	Within the lake and rivers in the vicinity	2023/6/18	Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	Jumbo dragonfly	24	0.022	Larva (Dragonfly larva)	-	-	4.0	N.D.(1.5)	4.0	-
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	Freshwater snail	30	0.032	Juvenile,Imago	-	Molluscous part	3.3	N.D.(1.3)	3.3	-
				Vertebrata	Amphibia	Anura	-	Amphibia	Frog	149	0.047	Larva(Tadpole)	-	-	5.9	N.D.(1.3)	5.9	-
				Vertebrata	Amphibia	Anura	Ranidae	<i>Rana ornativentris</i>	Montane brown frog	2	0.037	Imago	-	-	20	N.D.(2.7)	20	-
				Vertebrata	Amphibia	Anura	Pelophylax	<i>Pelophylax porosus porosus</i>	Tokyo daruma pond frog									

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												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Lake Inawashiro	I-1 I-2 (north lakeside)	Within the lake and Nagase River	2023/6/18	Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Dragonfly	26	0.012	Larva (Dragonfly larva)	-	-	N.D.	N.D.(3.5)	N.D.(2.7)	-
				Arthropoda	Insecta	Odonata	Libellulidae	<i>Orthetrum albistylum speciosum</i>	Common skimmer				-	-	N.D.	N.D.(0.34)	2.5	-
				Arthropoda	Malacostraca	Decapoda	Astacidae	<i>Pacifastacus leniusculus</i>	Signal crayfish	30	0.34	Juvenile,Imago	-	-	2.5	N.D.(0.32)	1.6	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Lake prawn	452	0.22	Juvenile,Imago	-	-	1.6	N.D.(0.32)	1.6	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudaspius hakonensis</i>	Japanese dace	1	0.070	Mature fish	Obscure digesta	Viscera removed	9.3	N.D.(1.2)	9.3	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudaspius hakonensis</i>	Japanese dace	6	1.3	Mature fish	Obscure digesta	Viscera removed	17	N.D.(1.1)	17	0.20
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius</i> sp.	Silver crucian carp	20	0.089	Immature fish	-	-	5.9	N.D.(0.92)	5.9	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius</i> sp.	Silver crucian carp	6	2.2	Mature fish	Obscure digesta	Viscera removed	14	N.D.(1.1)	14	0.34
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius</i> sp.	Silver crucian carp	3	3.0	Mature fish	Obscure digesta	Viscera removed	5.8	N.D.(0.68)	5.8	0.38
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Barbel steed	3	1.4	Immature fish, Mature fish	Obscure digesta	Viscera removed	7.5	N.D.(0.97)	7.5	0.53
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Barbel steed	1	1.1	Mature fish	Obscure digesta	Viscera removed	12	N.D.(1.2)	12	0.45
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Barbel steed	1	1.6	Mature fish	Obscure digesta	Viscera removed	11	N.D.(1.2)	11	0.49
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Barbel steed	1	1.9	Mature fish	Obscure digesta	Viscera removed	9.8	N.D.(1.2)	9.8	0.38
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Japanese char	2	2.3	Mature fish	<i>Hypomesus nipponensis</i>	Viscera removed	21	N.D.(1.3)	21	0.073
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Cherry salmon	1	1.0	Mature fish	Empty stomach	Viscera removed	19	N.D.(1.2)	19	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus mykiss</i>	Rainbow trout	1	0.95	Mature fish	<i>Hypomesus nipponensis</i>	Viscera removed	13	N.D.(1.3)	13	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu dolomieu</i>	Smallmouth bass	5	3.4	Mature fish	Obscure digesta	Viscera removed	12	N.D.(1.2)	12	0.22
				Vertebrata	Osteichthyes	Perciformes	Actinopterygii	<i>Channa argus</i>	Snakehead	2	3.6	Immature fish, Mature fish	Fish	Viscera removed	52	N.D.(1.2)	52	0.48
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Floating goby	5	0.033	Immature fish	-	-	6.7	N.D.(1.4)	6.7	-
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	2	0.24	Immature fish	Tadpole	Viscera removed	5.9	N.D.(0.49)	5.9	-
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	0.94	Mature fish	Empty stomach	Viscera removed	13	N.D.(1.1)	13	-
				Vertebrata	Amphibia	Anura	Ranidae	<i>Rana japonica</i>	Japanese brown frog	2	0.0082	Imago	-	-	N.D.	N.D.(4.1)	N.D.(3.7)	-
				Coarse Particulate Organic Matter	-	-	-	-	Water-bottom leaf litter	-	0.21	-	-	-	9.0	N.D.(1.4)	9.0	-
	J-1 (south lakeside)	Within the lake and around the Oninuma	2023/6/16	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.026	-	-	-	N.D.	N.D.(1.3)	N.D.(1.3)	-
			2023/6/18	Algae/plant	Dicotyledoneae	Nymphaeales	Nymphaeaceae	<i>Nuphar japonica</i>	Yellow water lili	-	0.31	-	-	-	0.55	N.D.(0.21)	0.55	-
				Algae/plant	Dicotyledoneae	Solanales	Menyanthaceae	<i>Nymphoides peltata</i>	Yellow floating-heart	-	0.30	-	-	-	0.31	N.D.(0.21)	0.31	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Lake prawn	1856	1.3	Juvenile,Imago	-	-	5.5	N.D.(0.60)	5.5	0.58
				Mollusca	Gastropoda	Architaenioglossa	Viviparidae	<i>Heterogen japonica</i>	Japanese mysterysnail	13	0.025	Juvenile	-	Molluscous part	N.D.	N.D.(1.8)	N.D.(1.9)	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudaspius hakonensis</i>	Japanese dace	3	0.078	Immature fish, Mature fish	-	-	12	N.D.(1.3)	12	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale break	23	0.24	Immature fish, Mature fish	-	-	4.9	N.D.(0.38)	4.9	-
			2023/6/20	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius</i> sp.	Silver crucian carp	4	2.9	Mature fish	Obscure digesta	Viscera removed	16	N.D.(1.1)	16	0.45
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Barbel steed	2	2.4	Mature fish	Obscure digesta	Viscera removed	31	N.D.(1.3)	31	0.38
			2023/6/18	Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	8	0.018	Immature fish	-	-	N.D.	N.D.(2.1)	N.D.(2.0)	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu dolomieu</i>	Smallmouth bass	1	0.22	Immature fish	<i>Palaemon paucidens</i> ,Fish	Viscera removed	13	N.D.(1.7)	13	-
			2023/6/20	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu dolomieu</i>	Smallmouth bass	1	1.4	Mature fish	Empty stomach	Viscera removed	38	N.D.(1.9)	38	0.33
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu dolomieu</i>	Smallmouth bass	1	1.7	Mature fish	Empty stomach	Viscera removed	31	N.D.(1.2)	31	0.19
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu dolomieu</i>	Smallmouth bass	1	1.8	Mature fish	Empty stomach	Viscera removed	39.2	1.2	38	0.25
				Vertebrata	Osteichthyes	Perciformes	Actinopterygii	<i>Channa argus</i>	Snakehead	1	1.2	Immature fish	<i>Palaemon paucidens</i>	Viscera removed	22	N.D.(1.4)	22	0.94
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	2	1.5	Mature fish	<i>Palaemon paucidens</i>	Viscera removed	19	N.D.(0.94)	19	0.26
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	2.0	Mature fish	Empty stomach	Viscera removed	33	N.D.(1.3)	33	0.24
			2023/6/18	Vertebrata	Amphibia	Caudata	Salamandridae	<i>Cynops pyrrhogaster</i>	Japanese newt	4	0.023	Imago	-	-	N.D.	N.D.(1.9)	N.D.(1.8)	-

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*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.

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*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.

Location		Sampling point	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)
												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Off the mouth of the Abukuma River	Surrounding water area off the mouth of the Abukuma River	Sea area in front of the Abukuma River Estuary	2023/6/21	Mollusca	Cephalopoda	Decapodiformes	Loliginidae	<i>Uroteuthis edulis</i>	Swordtip squid	1	0.28	Imago	-	-	N.D.	N.D.(0.24)	N.D.(0.26)	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Hexagrammidae	<i>Hexagrammos otakii</i>	Fat greenling	1	0.40	Mature fish	Polychaeta	Viscera removed	0.32	N.D.(0.21)	0.32	-

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												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Off Soma City	L-1 L-2 L-3	Matsukawaura Lagoon	2023/6/14	Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Acanthogobius flavimanus</i>	Yellowfin Goby	4	0.046	Immature fish, Mature fish	-	-	1.4	N.D.(1.0)	1.4	-

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Location		Sampling point	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)
												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Off Iwaki City	M-4	Hisanohama Coastal areas	2023/6/16	Arthropoda	Malacostraca	Stomatopoda	Squillaidae	<i>Oratosquilla oratoria</i>	Mantis shrimp	1	0.055	Imago	-	-	N.D.	N.D.(0.75)	N.D.(0.78)	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Scorpaenidae	<i>Sebastes cheni</i>	Japanese black rockfish	6	0.33	Immature fish	-	-	0.86	N.D.(0.22)	0.86	-
				Vertebrata	Osteichthyes	Perciformes	Sebastidae	<i>Sebastes schlegelii</i>	Schlegel's black rockfish	1	0.038	Immature fish	-	-	1.5	N.D.(1.2)	1.5	-
				Vertebrata	Osteichthyes	Tetraodontiformes	Tetraodontidae	<i>Takifugu snyderi</i>	Vermiculated puffer	27	0.27	Immature fish	-	-	0.37	N.D.(0.24)	0.37	-

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