

○ Results (water)

Locations				2024 August - September 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°	7.3	1.8	7.4	8.0	14.0	0.07	3.0	27	11.0	N.D.(0.0015)	0.029	0.0012
	A-1(Bottom layer)	37.6210°	140.5218°	7.3	1.7	7.7	8.3	14.2	0.08	3.0	30	11.2	N.D.(0.0014)	0.039	-
	A-2	37.5673°	140.3946°	7.5	0.8	3.5	9.7	12.1	0.06	1.3	4	1.3	N.D.(0.0013)	0.013	-
	B-2	37.8121°	140.5058°	7.5	1.1	6.1	9.2	14.9	0.08	2.6	18	9.5	N.D.(0.0015)	0.028	-
	B-3	37.8182°	140.4679°	7.8	1.0	3.4	10.3	9.0	0.05	1.5	2	1.1	N.D.(0.0014)	0.0091	-
Uda River	C-6	37.7764°	140.8877°	7.8	1.2	3.2	9.1	11.0	0.06	1.7	1	1.1	N.D.(0.0014)	0.0072	0.00090
Mano River	D-4 a	37.7308°	140.9081°	7.4	1.2	3.2	9.2	11.9	0.06	1.4	5	2.7	N.D.(0.0012)	0.0065	0.0012
Niida River	E-2 a	37.6640°	140.9447°	7.2	1.7	7.9	8.1	8.2	0.05	3.7	22	10.4	N.D.(0.0018)	0.14	0.0021
Ota River	F-1	37.5975°	140.9252°	7.2	1.6	3.7	8.6	7.1	0.04	2.1	4	1.4	N.D.(0.0017)	0.13	0.0045
Ukedo River	N-1	37.4998°	140.9835°	6.7	1.1	3.7	7.4	7.5	0.04	1.9	1	1.6	N.D.(0.0017)	0.11	0.0026
	N-2	37.5070°	140.9456°	7.1	1.3	4.1	8.5	6.1	0.04	2.2	2	1.9	0.0021	0.18	-
	N-3	37.4754°	140.9598°	7.4	1.0	2.0	8.2	8.3	0.05	0.9	3	1.1	N.D.(0.0015)	0.023	-
Tomioka River	O-1	37.3547°	140.9780°	7.3	1.3	2.0	8.2	10.0	0.05	1.0	2	1.3	N.D.(0.0016)	0.017	0.0016
	O-2	37.3624°	140.9612°	7.4	1.1	2.2	9.0	9.3	0.05	0.9	4	1.8	N.D.(0.0013)	0.016	-
Lake Hayama (Mano Dam)	G-1(Surface layer)	37.7348°	140.8102°	8.2	2.4	5.6	10.4	8.2	0.04	2.6	3	2.6	N.D.(0.0014)	0.014	-
	G-1(Bottom layer)	37.7348°	140.8102°	7.6	1.6	4.9	8.3	8.4	0.05	2.4	3	2.3	N.D.(0.0014)	0.013	0.0010
	G-2(Surface layer)	37.7267°	140.8223°	8.3	1.5	5.5	10.0	8.0	0.04	2.7	2	2.6	N.D.(0.0015)	0.026	-
	G-2(Bottom layer)	37.7267°	140.8223°	6.8	1.0	3.9	1.0	8.2	0.05	1.9	6	5.9	N.D.(0.0015)	0.041	-
	G-4	37.7382°	140.8035°	7.6	<0.5	2.9	8.3	8.5	0.05	1.4	1	0.8	N.D.(0.0014)	0.014	-
Lake Akimoto	H-1(Surface layer)	37.6575°	140.1264°	7.2	1.0	3.5	8.2	5.8	0.04	1.8	1	1.5	N.D.(0.0012)	0.0081	-
	H-1(Bottom layer)	37.6575°	140.1264°	6.6	0.8	3.6	3.9	4.9	0.03	1.7	5	3.3	N.D.(0.0015)	0.0034	0.0010
	H-2(Surface layer)	37.6616°	140.1226°	7.1	0.8	3.5	7.6	5.8	0.04	1.7	2	1.7	N.D.(0.0014)	0.0068	-
	H-2(Bottom layer)	37.6616°	140.1226°	7.0	1.0	3.8	7.2	5.6	0.04	1.7	5	2.9	N.D.(0.0014)	0.0066	-
Lake Inawashiro	J-1(Surface layer)	37.4203°	140.1008°	6.8	<0.5	1.9	8.6	11.3	0.06	0.9	<1	0.8	N.D.(0.0016)	0.0055	-
	J-1(Bottom layer)	37.4203°	140.1008°	7.0	0.8	1.9	8.2	11.4	0.06	1.0	<1	0.6	N.D.(0.0012)	0.0044	0.0012
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	1.1	2.6	8.2	3890	26.78	1.6	4	0.8	N.D.(0.0015)	0.012	-
	K-3(Bottom layer)	38.0458°	140.9518°	7.8	0.7	1.7	4.5	4910	33.74	1.1	2	3.5	N.D.(0.0015)	0.0062	0.0014
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	8.1	1.0	2.2	6.9	4710	31.96	1.4	3	1.7	N.D.(0.0015)	0.0061	0.00098
Off Iwaki City (Hisanohama)	M-2(Surface layer)	37.1996°	141.0853°	8.1	0.8	1.6	7.1	4990	33.72	1.1	2	0.5	N.D.(0.0015)	0.0017	-
	M-2(Bottom layer)	37.1996°	141.0853°	8.0	0.6	1.4	7.6	5000	34.06	1.0	2	0.7	N.D.(0.0015)	0.0022	0.00087

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

○ Results (sediments)

Locations				2024 August - September Survey																
	Latitude	Longitude	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°	7.1	97	48.1	6.2	14.0	2.660	0.0	0.1	35.1	30.7	17.6	16.5	0.18	2.0	3.6	360	0.22
	A-2	37.5673°	140.3946°	7.2	450	25.8	2.7	3.0	2.650	17.5	63.2	15.5	0.9	2.9		1.3	4.8	2.3	150	-
	B-2	37.8121°	140.5058°	7.1	416	23.3	2.3	1.3	2.720	0.0	4.3	62.4	27.3	3.0	3.0	0.35	2.0	0.97	81	-
	B-3	37.8182°	140.4679°	7.4	466	19.4	1.4	1.1	2.620	39.5	46.8	10.4	2.3	1.0		1.7	4.8	0.61	37	-
Uda River	C-6	37.7764°	140.8877°	7.7	495	22.5	1.3	0.4	2.640	12.2	65.2	21.6	0.3	0.7		1.2	4.8	0.50	40	0.28
Mano River	D-4 a	37.7308°	140.9081°	7.3	483	22.0	2.7	2.5	2.620	23.3	31.4	24.2	17.9	3.2		0.98	4.8	2.7	150	1.2
Niida River	E-2 a	37.6640°	140.9447°	6.9	280	59.1	9.4	41.0	2.560	1.8	3.5	16.7	26.4	27.2	24.4	0.058	4.8	31	2200	0.88
Ota River	F-1	37.5975°	140.9252°	7.3	439	23.2	1.4	2.2	2.640	25.3	30.2	36.0	5.4	3.1		0.99	4.8	6.0	400	0.78
Ukedo River	N-1	37.4998°	140.9835°	6.9	432	18.6	0.8	0.7	2.650	24.3	28.6	35.5	10.5	1.1		0.92	19	30	2100	0.18
	N-2	37.5070°	140.9456°	7.3	472	18.6	0.7	0.4	2.640	46.2	39.3	11.7	0.3	2.5		1.9	19	26	1800	-
	N-3	37.4754°	140.9598°	7.2	471	23.0	1.2	1.0	2.650	5.5	10.9	75.1	7.4	1.1		0.49	9.5	26	1600	-
Tomioka River	O-1	37.3547°	140.9780°	7.4	391	23.6	1.6	1.7	2.680	9.4	50.8	38.5	1.0	0.3		1.0	9.5	2.4	180	0.18
	O-2	37.3624°	140.9612°	7.0	360	29.4	3.7	4.9	2.680	8.6	13.8	62.9	12.3	2.4		0.50	9.5	4.3	350	-
Lake Hayama (Mano Dam)	G-1	37.7348°	140.8102°	6.9	235	62.5	15.5	57.0	2.480	0.0	0.0	0.2	7.9	70.1	21.8	0.026	2.0	18	1600	2.2
	G-2	37.7267°	140.8223°	6.9	253	37.4	6.0	13.0	2.570	1.1	1.2	5.0	36.0	45.0	11.7	0.062	9.5	9.9	670	-
	G-4	37.7382°	140.8035°	7.5	338	22.7	2.6	1.6	2.650	35.0	27.7	28.0	7.4	1.9		1.3	9.5	2.7	190	-
Lake Akimoto	H-1	37.6575°	140.1264°	6.6	146	69.2	10.8	37.0	2.520	0.0	0.0	0.1	0.9	72.3	26.7	0.011	2.0	17	1300	1.2
	H-2	37.6616°	140.1226°	6.5	132	69.0	15.6	66.0	2.450	0.0	0.0	0.0	0.2	75.9	23.9	0.0086	2.0	4.3	310	-
Lake Inawashiro	J-1	37.4203°	140.1008°	6.9	432	27.6	2.0	2.5	2.650	0.1	1.3	41.1	54.2	3.3		0.23	4.8	1.6	99	0.16
Off the mouth of the Abukuma River (Sea Area in front of the mouth of the Abukuma River)	K-3	38.0458°	140.9518°	7.5	268	33.6	3.9	4.1	2.740	0.2	0.3	1.1	57.1	32.6	8.7	0.094	4.8	1.2	99	N.D.(0.12)
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	7.8	278	30.7	3.0	3.3	2.700	0.2	0.2	15.6	68.1	6.2	9.7	0.16	9.5	0.88	80	N.D.(0.11)
Off Iwaki City (Hisanohama)	M-2	37.1996°	141.0853°	7.8	362	24.9	2.2	1.3	2.810	1.3	0.7	2.0	87.9	4.0	4.1	0.15	9.5	0.43	26	N.D.(0.11)

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

○ 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	2024/8/20	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.0032	-	-	-	51	N.D.(9.7)	51	-		
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	54	0.024	Larva (Dragonfly larva)	-	-	-	3.1	N.D.(1.8)	3.1	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Nihonogomphus viridis</i>	<i>Nihonogomphus viridis</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	<i>Melligomphus viridicostus</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	<i>Sieboldius albardae</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius</i> sp.	<i>Davidius</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Shaogomphus postocularis</i>	<i>Shaogomphus postocularis</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	<i>Asiagomphus melaenops</i>										
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	<i>Boyeria maclachlani</i>										
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Neocaridina</i> sp.	<i>Neocaridina</i>	270	0.034	Juvenile, Imago	-	-	-	2.1	N.D.(1.5)	2.1	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	19	0.39	Immature fish, Mature fish	-	-	-	6.0	N.D.(1.4)	6.0	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	83	0.44	Immature fish, Mature fish	-	-	-	2.6	N.D.(0.29)	2.6	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus esocinus</i>	<i>Pseudogobio esocinus esocinus</i>	1	0.018	Mature fish	-	-	-	N.D.	N.D.(2.1)	N.D.(1.8)	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorfii</i>	2	0.73	Mature fish	Obscure digesta	Viscera removed	-	2.6	N.D.(0.49)	2.6	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius cuvieri</i>	Japanese crucian carp	2	0.43	Immature fish	Obscure digesta	Viscera removed	-	2.1	N.D.(0.30)	2.1	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Gnathopogon elongatus elongatus</i>	<i>Gnathopogon elongatus elongatus</i>	4	0.027	Immature fish, Mature fish	-	-	-	2.3	N.D.(1.6)	2.3	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	3	0.022	Mature fish	-	-	-	1.6	N.D.(1.5)	1.6	-
	Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Nemacheilus toni</i>	Stone loach	10	0.063	Immature fish	-	-	-	N.D.	N.D.(0.88)	N.D.(0.84)	-			
	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus salmoides</i>	Largemouth bass	8	0.14	Immature fish	Empty stomach	Viscera removed	-	5.6	N.D.(0.68)	5.6	-			
	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	5	0.059	Immature fish	Neocaridina	Viscera removed	-	1.9	N.D.(1.1)	1.9	-			
	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Lepomis macrochirus</i>	Bluegill	1	0.042	Immature fish	Obscure digesta	Viscera removed	-	16	N.D.(3.7)	16	-			
	Vertebrata	Osteichthyes	Siluriformes	Ictaluridae	<i>Ictalurus punctatus</i>	Channel catfish	3	4.0	Immature fish, Mature fish	Empty stomach	Viscera removed	-	22	N.D.(1.1)	22	0.21			
	Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	2	0.059	Immature fish	Stone loach	Viscera removed	-	1.5	N.D.(1.2)	1.5	-			
					Coarse Particulate Organic Matter	-	-	-	Bottom fallen leaves	-	0.23	-	-	-	16	N.D.(1.5)	16	-	
	A-2	Harase River	2024/8/20	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.017	-	-	-	79	N.D.(11)	79	-		
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	47	0.018	Larva (Dragonfly larva)	-	-	-	3.3	N.D.(2.1)	3.3	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>										
Arthropoda				Insecta	Odonata	Gomphidae	<i>Nihonogomphus viridis</i>	<i>Nihonogomphus viridis</i>											
Arthropoda				Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	<i>Sieboldius albardae</i>											
Arthropoda				Insecta	Odonata	Gomphidae	<i>Davidius</i> sp.	<i>Davidius</i>											
Arthropoda				Insecta	Odonata	Gomphidae	<i>Shaogomphus postocularis</i>	<i>Shaogomphus postocularis</i>											
Arthropoda				Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	<i>Asiagomphus melaenops</i>											
Arthropoda				Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	3	0.068	Imago	-	-	-	8.2	N.D.(1.2)	8.2	-	
Arthropoda				Malacostraca	Decapoda	Atyidae	<i>Neocaridina</i> sp.	<i>Neocaridina</i>	276	0.060	Juvenile, Imago	-	-	-	5.8	N.D.(0.76)	5.8	-	
Mollusca				Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	<i>Semisulcospira libertina</i>	30	0.020	Imago	-	Molluscos part	-	7.0	N.D.(2.0)	7.0	-	
Vertebrata				Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	1	0.026	Immature fish	-	-	-	8.3	N.D.(1.6)	8.3	-	
Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur minnow	13	0.018	Immature fish	-	-	-	5.5	N.D.(1.8)	5.5	-	
Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	341	1.5	Immature fish, Mature fish	-	-	-	10	N.D.(1.3)	10	0.26	
Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus esocinus</i>	<i>Pseudogobio esocinus esocinus</i>	7	0.054	Immature fish, Mature fish	-	-	-	3.9	N.D.(0.87)	3.9	-	
Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	76	0.64	Immature fish, Mature fish	-	-	-	7.2	N.D.(1.1)	7.2	-	
Vertebrata				Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	10	0.022	Immature fish, Mature fish	-	-	-	5.6	N.D.(1.6)	5.6	-	
Vertebrata				Osteichthyes	Cypriniformes	Cobitidae	<i>Nemacheilus toni</i>	Stone loach	277	0.58	Immature fish	-	-	-	2.3	N.D.(0.33)	2.3	-	
Vertebrata				Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus salmoides</i>	Largemouth bass	2	0.058	Immature fish	-	-	-	8.3	N.D.(1.3)	8.3	-	
Vertebrata				Amphibia	Anura	-	-	-	91	0.049	Larva (Tadpole)	-	-	-	88	N.D.(3.9)	88	-	
				Coarse Particulate Organic Matter	-	-	-	Bottom fallen leaves	-	0.22	-	-	-	44	N.D.(1.5)	44	-		

*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	2024/8/20	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.019	-	-	-	12	N.D.(2.8)	12	-	
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	212	0.051	Larva	-	-	6.6	N.D.(1.2)	6.6	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	37	0.028	Larva (Dragonfly larva)	-	-	N.D.	N.D.(1.6)	N.D.(1.4)	-
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	<i>Sieboldius albardae</i>									
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<i>Protohermes grandis</i>	27	0.020	Larva	-	-	N.D.	N.D.(2.0)	N.D.(1.6)	-
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	2	0.054	Imago	-	-	2.9	N.D.(0.89)	2.9	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	60	0.55	Immature fish	-	-	2.0	N.D.(0.22)	2.0	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur minnow	32	0.18	Immature fish, Mature fish	-	-	1.5	N.D.(0.28)	1.5	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	1	0.012	Immature fish	-	-	N.D.	N.D.(3.1)	N.D.(2.6)	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	140	0.82	Immature fish	-	-	4.1	N.D.(0.56)	4.1	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Nemacheilus toni</i>	Stone loach	36	0.47	Immature fish	-	-	1.7	N.D.(0.21)	1.7	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	74	1.4	Immature fish, Mature fish	-	-	8.7	N.D.(0.83)	8.7	0.28
Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	2	0.029	Immature fish	-	-	2.6	N.D.(1.3)	2.6	-				
		Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.21	-	-	-	9.4	N.D.(0.50)	9.4	-		

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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			
Uda River	C-6	The main stream of the Uda River	2024/8/21	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.011	-	-	-	18	N.D.(3.1)	18	-	
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	84	0.029	Larva	-	-	-	5.2	N.D.(1.6)	5.2	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	61	0.019	Larva (Dragonfly larva)	-	-	-	3.7	N.D.(1.8)	3.7	-
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	<i>Melligomphus viridicostus</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	<i>Sieboldius albardae</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius</i> sp.	<i>Davidius</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	<i>Asiagomphus melaenops</i>										
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<i>Protohermes grandis</i>	28	0.017	Larva	-	-	-	3.1	N.D.(2.4)	3.1	-
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	3	0.028	Juvenile, Imago	-	-	-	2.8	N.D.(1.7)	2.8	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	182	0.057	Juvenile	-	-	-	2.6	N.D.(0.96)	2.6	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	19	0.16	Juvenile	-	-	-	6.9	N.D.(1.1)	6.9	-
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	<i>Semisulcospira libertina</i>	30	0.022	Imago	-	Molluscos part	-	4.2	N.D.(2.0)	4.2	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	35	0.13	Immature fish	-	-	-	2.4	N.D.(0.49)	2.4	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	56	0.30	Immature fish	-	-	-	1.9	N.D.(0.32)	1.9	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis biwae</i>	<i>Cobitis biwae</i>	15	0.045	Mature fish	-	-	-	1.8	N.D.(1.1)	1.8	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	113	0.89	Immature fish	-	-	-	15	N.D.(3.4)	15	0.19
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	<i>Rhinogobius fluviatilis</i>	36	0.10	Mature fish	-	-	-	4.5	N.D.(0.91)	4.5	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<i>Rhinogobius nagoyae</i>										
Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius kurodai</i>	<i>Rhinogobius kurodai</i>														
Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius</i> sp.	<i>Rhinogobius</i>														
			Coarse Particulate Organic Matter	-	-	-	-	-	Bottom fallen leaves	-	0.24	-	-	-	11	N.D.(1.2)	11	-	

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											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137			
Mano River	D-3	The main stream of the Mano River	2024/8/22	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	69	1.2	Immature fish, Mature fish	-	-	4.7	N.D.(0.34)	4.7	0.12	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	107	1.6	Immature fish, Mature fish	-	-	3.0	N.D.(0.28)	3.0	0.22	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus esocinus</i>	<i>Pseudogobio esocinus esocinus</i>	7	0.11	Immature fish, Mature fish	-	-	2.6	N.D.(0.53)	2.6	-	
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	102	2.0	Immature fish, Mature fish	-	-	9.2	N.D.(1.1)	9.2	0.095	
	D-4 b	The main stream of the Mano River	2024/8/21	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0071	-	-	-	56	N.D.(5.4)	56	-	
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	86	0.025	Larva	-	-	-	20	N.D.(4.2)	20	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	130	0.035	Larva (Dragonfly larva)	-	-	-	2.8	N.D.(1.3)	2.8	-
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Nihonogomphus viridis</i>	<i>Nihonogomphus viridis</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	<i>Stylogomphus suzukii</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	<i>Melligomphus viridicostus</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	<i>Sieboldius albardae</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius</i> sp.	<i>Davidius</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Shaogomphus postocularis</i>	<i>Shaogomphus postocularis</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	<i>Asiagomphus melaenops</i>										
				Arthropoda	Insecta	Odonata	Libellulidae	<i>Orthetrum albistylum speciosum</i>	Common skimmer										
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Anax parthenope julius</i>	<i>Anax parthenope julius</i>										
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Anax nigrofasciatus nigrofasciatus</i>	<i>Anax nigrofasciatus nigrofasciatus</i>										
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<i>Protohermes grandis</i>										
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	6	0.030	Juvenile, Imago	-	-	-	3.1	N.D.(1.4)	3.1	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	17	0.026	Imago	-	-	-	3.6	N.D.(1.4)	3.6	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	304	0.061	Juvenile	-	-	-	4.0	N.D.(0.71)	4.0	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	6	0.024	Juvenile	-	-	-	6.1	N.D.(1.7)	6.1	-
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	<i>Semisulcospira libertina</i>	29	0.016	Juvenile, Imago	-	Molluscos part	-	4.7	N.D.(2.7)	4.7	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	135	0.67	Immature fish	-	-	-	3.0	N.D.(0.73)	3.0	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Gnathopogon elongatus elongatus</i>	<i>Gnathopogon elongatus elongatus</i>	30	0.13	Immature fish, Mature fish	-	-	-	4.3	N.D.(0.73)	4.3	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis biwae</i>	<i>Cobitis biwae</i>	11	0.029	Immature fish, Mature fish	-	-	-	3.4	N.D.(1.1)	3.4	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	10	0.23	Immature fish, Mature fish	-	-	-	23	N.D.(1.3)	23	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	1	0.017	Immature fish	-	-	-	5.3	N.D.(2.3)	5.3	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	<i>Rhinogobius fluviatilis</i>	28	0.094	Immature fish, Mature fish	-	-	-	3.7	N.D.(0.60)	3.7	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<i>Rhinogobius nagoyae</i>										
Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius castaneus</i>	Chestnut goby	12	0.016	Immature fish, Mature fish	-	-	-	2.9	N.D.(2.7)	2.9	-				
Vertebrata	Osteichthyes	Siluriformes	Bagridae	<i>Tachysurus tokiensis</i>	Cut-tailed bullhead	3	0.036	Immature fish, Mature fish	-	-	-	2.1	N.D.(1.2)	2.1	-				
Vertebrata	Amphibia	Anura	-	-	Frog	5	0.0086	Larva(Tadpole)	-	-	-	6.0	N.D.(5.0)	6.0	-				
Vertebrata	Amphibia	Anura	Lithobates	<i>Lithobates catesbeianus</i>	American bullfrog	1	0.18	Imago	-	-	-	2.1	N.D.(0.40)	2.1	-				
			Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.23	-	-	-	28	N.D.(1.1)	28	-		

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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	2024/8/23	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.0077	-	-	-	110	N.D.(21)	110	-		
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	180	0.058	Larva	-	-	-	47	N.D.(4.7)	47	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	48	0.013	Larva (Dragonfly larva)	-	-	-	8.5	N.D.(3.6)	8.5	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	<i>Melligomphus 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>Shaogomphus postocularis</i>	<i>Shaogomphus postocularis</i>										
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<i>Protohermes grandis</i>	35	0.023	Larva	-	-	-	6.1	N.D.(1.8)	6.1	-
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	3	0.083	Imago	-	-	-	20	N.D.(3.0)	20	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	14	0.015	Imago	-	-	-	13	N.D.(2.6)	13	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	Atyidae	Freshwater shrimp	353	0.074	Juvenile	-	-	-	14	N.D.(2.1)	14	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	30	0.12	Juvenile	-	-	-	20	N.D.(2.1)	20	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.088	Immature fish	Empty stomach	Viscera removed	-	8.3	N.D.(1.7)	8.3	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus reinii</i>	Sculpin	1	0.024	Immature fish	-	-	-	17	N.D.(2.7)	17	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	237	0.70	Immature fish	-	-	-	12	N.D.(1.2)	12	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	9	0.043	Immature fish, Mature fish	-	-	-	6.6	N.D.(1.1)	6.6	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Gnathopogon elongatus elongatus</i>	<i>Gnathopogon elongatus elongatus</i>	8	0.045	Immature fish, Mature fish	-	-	-	14	N.D.(2.3)	14	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	9	0.083	Immature fish	-	-	-	44	N.D.(2.7)	44	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	<i>Rhinogobius fluviatilis</i>	31	0.082	Immature fish, Mature fish	-	-	-	12	N.D.(1.4)	12	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<i>Rhinogobius nagoyae</i>										
Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius sp.</i>	<i>Rhinogobius</i>														
Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Sicyopterus japonicus</i>	Monk goby	11	0.030	Immature fish	-	-	-	26	N.D.(6.6)	26	-				
Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	2	1.3	Mature fish	Fish	Viscera removed	-	15	N.D.(2.1)	15	0.42				
Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	2.9	Mature fish	Empty stomach	Viscera removed	-	34	N.D.(1.3)	34	1.4				
Vertebrata	Amphibia	Anura	Lithobates	<i>Lithobates catesbeianus</i>	American bullfrog	43	0.18	Larva(Tadpole)	-	-	-	274.7	4.7	270	-				
				Coarse Particulate Organic Matter	-	-	-	Bottom fallen leaves	-	0.25	-	-	-	89.6	1.6	88	-		
E-3	The main stream of the Niida River	2024/8/22	Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	5	1.0	Immature fish, Mature fish	Empty stomach	Viscera removed	16	N.D.(0.99)	16	-		
		2024/8/24	Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	0.69	Mature fish	Empty stomach	Viscera removed	24.95	0.95	24	-		

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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			
Ota River	F-1	The main stream of the Ota River	2024/8/23	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.0038	-	-	-	130	N.D.(31)	130	-		
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	59	0.014	Larva	-	-	-	110	N.D.(14)	110	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	41	0.010	Larva (Dragonfly larva)	-	-	-	25	N.D.(4.7)	25	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	<i>Stylogomphus suzukii</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	<i>Melligomphus viridicostus</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	<i>Sieboldius albardae</i>										
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<i>Protohermes grandis</i>	20	0.011	Larva	-	-	-	27	N.D.(3.2)	27	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	82	0.11	Imago	-	-	-	90	N.D.(2.4)	90	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	270	0.062	Juvenile	-	-	-	71	N.D.(4.8)	71	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	13	0.098	Juvenile	-	-	-	88	N.D.(2.7)	88	-
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	<i>Semisulcospira libertina</i>	30	0.028	Imago	-	Molluscos part	-	76	N.D.(6.8)	76	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	4	0.38	Immature fish	Empty stomach	Viscera removed	-	64	N.D.(1.6)	64	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	100	0.23	Immature fish	-	-	-	57	N.D.(1.8)	57	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	275	1.1	Immature fish, Mature fish	-	-	-	41	N.D.(1.7)	41	1.6
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorfii</i>	3	0.14	Mature fish	Obscure digesta	Viscera removed	-	54	N.D.(2.2)	54	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	15	0.74	Mature fish	-	-	-	142.6	2.6	140	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	<i>Rhinogobius fluviatilis</i>	32	0.10	Immature fish, Mature fish	-	-	-	130	N.D.(2.5)	130	-
Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<i>Rhinogobius nagoyae</i>														
Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius sp.</i>	Rhinogobius														
		Coarse Particulate Organic Matter	-	-	-	-	-	Bottom fallen leaves	-	0.22	-	-	-	88.5	1.5	87	-		

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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	2024/8/24	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0037	-	-	-	510	N.D.(38)	510	-	
				Algae/plant	Monocotyledoneae	Najadales	Potamogetonaceae	<i>Potamogeton crispus</i>	Curly-leaf pondweed	-	0.22	-	-	-	-	26	N.D.(1.2)	26	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	80	0.020	-	-	-	-	210	N.D.(9.5)	210	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	20	0.035	Imago	-	-	-	72	N.D.(6.3)	72	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	27	0.089	Juvenile	-	-	-	120	N.D.(3.0)	120	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.45	Mature fish	Empty stomach	Viscera removed	294.5	4.5	290	-	
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus reinii</i>	Sculpin	5	0.030	Immature fish	-	-	-	59	N.D.(5.3)	59	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	22	0.17	Immature fish, Mature fish	Obscure digesta	Viscera removed	110	N.D.(2.6)	110	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	102	0.32	Immature fish	-	-	-	57	N.D.(1.2)	57	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	3.7	Mature fish	Obscure digesta	Viscera removed	131.6	1.6	130	1.1	
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	47	0.22	Immature fish, Mature fish	-	-	-	283.4	3.4	280	-
	Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<u><i>Rhinogobius nagoyae</i></u>	46	0.067	Immature fish, Mature fish	-	-	-	73	N.D.(4.4)	73	-			
	Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius</i> sp.	Rhinogobius													
					Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.20	-	-	-	142.0	2.0	140	-
	N-2	The main stream of the Ukedo River	2024/8/24	Algae/plant	-	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0036	-	-	-	17	N.D.(9.4)	17	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<u><i>Macromia amphigena</i></u>	58	0.016	Larva (Dragonfly larva)	-	-	-	57	N.D.(13)	57	-
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	<u><i>Melligomphus viridicostus</i></u>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	<u><i>Sieboldius albardae</i></u>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius</i> sp.	Davidius										
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	151	0.010	Juvenile	-	-	-	48	N.D.(4.6)	48	-
Vertebrata				Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	4	0.032	Immature fish	-	-	-	75	N.D.(7.4)	75	-	
Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	13	0.016	Immature fish	-	-	-	50	N.D.(8.9)	50	-	
Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	135	0.30	Immature fish	-	-	-	59	N.D.(1.3)	59	-	
Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudorasbora parva</i>	Stone moroko	14	0.011	Immature fish, Mature fish	-	-	-	32	N.D.(6.4)	32	-	
Vertebrata				Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis biwae</i>	<i>Cobitis biwae</i>	7	0.011	Immature fish, Mature fish	-	-	-	50	N.D.(13)	50	-	
Vertebrata				Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	101	0.47	Immature fish, Mature fish	-	-	-	356.5	6.5	350	-	
Vertebrata				Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	1.0	Mature fish	Empty stomach	Viscera removed	356.3	6.3	350	-		
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.25	-	-	-	780	10	770	-	

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											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137			
Ukeda River	N-3	The main stream of the Takase River	2024/8/24	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.0023	-	-	-	280	N.D.(46)	280	-		
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	55	0.010	Larva	-	-	-	46	N.D.(11)	46	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	54	0.012	Larva (Dragonfly larva)	-	-	-	23	N.D.(5.1)	23	-
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Nihonogomphus viridis</i>	<i>Nihonogomphus viridis</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	<i>Melligomphus viridicostus</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	<i>Sieboldius albardae</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius</i> sp.	<i>Davidius</i>										
				Arthropoda	Insecta	Odonata	Libellulidae	<i>Orthetrum albistylum speciosum</i>	Common skimmer										
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	<i>Boyeria maclachlani</i>										
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<i>Protohermes grandis</i>	36	0.020	Larva	-	-	-	5.8	N.D.(1.9)	5.8	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	288	0.030	Juvenile	-	-	-	18	N.D.(2.9)	18	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	36	0.31	Juvenile	-	-	-	47	N.D.(1.5)	47	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus reinii</i>	Sculpin	19	0.14	Immature fish	-	-	-	20	N.D.(1.8)	20	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	6	0.025	Immature fish	-	-	-	31	N.D.(4.4)	31	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	10	0.040	Immature fish, Mature fish	-	-	-	33	N.D.(4.7)	33	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Nemacheilus toni</i>	Stone loach	86	0.18	Immature fish	-	-	-	12	N.D.(1.3)	12	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	136	1.5	Immature fish, Mature fish	-	-	-	35	N.D.(1.3)	35	0.27
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<i>Rhinogobius nagoyae</i>	24	0.037	Immature fish, Mature fish	-	-	-	22	N.D.(4.8)	22	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Sicyopterus japonicus</i>	Monk goby	36	0.10	Immature fish	-	-	-	30	N.D.(3.0)	30	-
Vertebrata	Osteichthyes	Siluriformes	Bagridae	<i>Tachysurus tokiensis</i>	Cut-tailed bullhead	1	0.067	Mature fish	Freshwater shrimp	Viscera removed	-	38	N.D.(1.6)	38	-				
		Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.17	-	-	-	40	N.D.(1.5)	40	-			

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											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137			
Tomioka River	O-1	The main stream of the Tomioka River	2024/8/23	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.0052	-	-	-	89	N.D.(22)	89	-		
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	81	0.022	Larva	-	-	-	92	N.D.(6.7)	92	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	182	0.035	Larva (Dragonfly larva)	-	-	-	9.7	N.D.(1.3)	9.7	-
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	<i>Stylogomphus suzukii</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	<i>Melligomphus 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>Sinogomphus flavolimbatus</i>	<i>Sinogomphus flavolimbatus</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Shaogomphus postocularis</i>	<i>Shaogomphus postocularis</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	<i>Asiagomphus melaenops</i>										
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	<i>Boyeria maclachlani</i>										
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<i>Protohermes grandis</i>	21	0.012	Larva	-	-	-	8.2	N.D.(3.9)	8.2	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	81	0.12	Imago	-	-	-	12	N.D.(1.7)	12	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	462	0.068	Juvenile	-	-	-	20	N.D.(4.4)	20	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	8	0.080	Juvenile	-	-	-	11	N.D.(2.0)	11	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.084	Immature fish	-	-	-	8.5	N.D.(1.4)	8.5	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	16	0.17	Immature fish	-	-	-	13	N.D.(1.3)	13	-
	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	9	0.036	Immature fish	-	-	-	12	N.D.(1.6)	12	-			
	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	38	0.36	Immature fish, Mature fish	-	-	-	19	N.D.(1.4)	19	-			
	Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	39	1.3	Immature fish, Mature fish	-	-	-	52	N.D.(1.4)	52	0.18			
	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	4	0.51	Immature fish, Mature fish	Isonychia japonica, Goera japonica, Terrestrial insect	Viscera removed	-	15	N.D.(1.3)	15	-			
	Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	<i>Rhinogobius fluviatilis</i>	10	0.033	Immature fish, Mature fish	-	-	-	11	N.D.(1.5)	11	-			
	Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<i>Rhinogobius nagoyae</i>													
	Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Sicyopterus japonicus</i>	Monk goby	28	0.16	Immature fish, Mature fish	-	-	-	21	N.D.(1.6)	21	-			
	Coarse Particulate Organic Matter	-	-	-	-	-	-	Bottom fallen leaves	-	0.23	-	-	-	54	N.D.(1.3)	54	-		
	O-2	The main stream of the Tomioka River	2024/8/23	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0088	-	-	-	74	N.D.(12)	74	-	
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	60	0.021	Larva (Dragonfly larva)	-	-	-	27	N.D.(2.4)	27	-
				Arthropoda	Insecta	Odonata	Cordulegastriidae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>										
Arthropoda				Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	<i>Stylogomphus suzukii</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>Sinogomphus flavolimbatus</i>	<i>Sinogomphus flavolimbatus</i>											
Arthropoda				Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	<i>Boyeria maclachlani</i>											
Arthropoda				Insecta	Odonata	Aeshnidae	<i>Planaeschna milnei milnei</i>	<i>Planaeschna milnei milnei</i>	34	0.021	Larva	-	-	-	6.9	N.D.(2.1)	6.9	-	
Arthropoda				Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	237	0.37	Imago	-	-	-	11	N.D.(1.4)	11	-	
Vertebrata				Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	1.0	Mature fish	Empty stomach	Viscera removed	-	41	N.D.(2.1)	41	0.085	
Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	60	0.42	Immature fish, Mature fish	-	-	-	12	N.D.(1.2)	12	-	
Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	77	0.46	Immature fish, Mature fish	-	-	-	14	N.D.(1.3)	14	-	
Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius cuvieri</i>	Japanese crucian carp	1	0.49	Mature fish	Obscure digesta	Viscera removed	-	12	N.D.(1.6)	12	-	
Vertebrata				Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	37	1.1	Immature fish, Mature fish	-	-	-	40	N.D.(1.5)	40	0.21	
Vertebrata				Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	18	0.26	Immature fish, Mature fish	Empty stomach	Viscera removed	-	10	N.D.(1.2)	10	-	
Vertebrata				Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	<i>Rhinogobius fluviatilis</i>	22	0.067	Immature fish, Mature fish	-	-	-	11	N.D.(2.8)	11	-	
Vertebrata				Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<i>Rhinogobius nagoyae</i>											
Vertebrata				Osteichthyes	Perciformes	Gobiidae	<i>Sicyopterus japonicus</i>	Monk goby	19	0.056	Immature fish	-	-	-	17	N.D.(3.8)	17	-	
Coarse Particulate Organic Matter	-	-	-	-	-	-	Bottom fallen leaves	-	0.24	-	-	-	34	N.D.(1.3)	34	-			

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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	2024/8/22	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.032	-	-	-	N.D.	N.D.(1.4)	N.D.(1.2)	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorfi</i>	2	1.9	Mature fish	Obscure digesta	Viscera removed	33	N.D.(1.4)	33	0.93	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	2.1	Mature fish	Obscure digesta	Viscera removed	27	N.D.(1.3)	27	0.49	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	2.9	Mature fish	Obscure digesta	Viscera removed	40	N.D.(1.3)	40	0.42	
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Lepomis macrochirus</i>	Bluegill	93	1.2	Immature fish, Mature fish	-	-	-	11	N.D.(1.4)	11	0.42
	G-4	Inflowing rivers	2024/8/22	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0031	-	-	-	570	N.D.(54)	570	-	
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	243	0.17	Larva (Dragonfly larva)	-	-	3.4	N.D.(0.44)	3.4	-	
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	<i>Stylogomphus suzukii</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	<i>Melligomphus viridicostus</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	<i>Sieboldius albardae</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius</i> sp.	<i>Davidius</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sinogomphus flavolimbatus</i>	<i>Sinogomphus flavolimbatus</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	<i>Asiagomphus melaenops</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>	45	0.029	Larva	-	-	-	2.8	N.D.(1.7)	2.8	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	507	0.056	Juvenile, Imago	-	-	-	11	N.D.(2.3)	11	-
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	<i>Semisulcospira libertina</i>	30	0.018	Juvenile, Imago	-	Molluscos part	6.8	N.D.(2.0)	6.8	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur minnow	18	0.029	Immature fish	-	-	-	7.7	N.D.(2.3)	7.7	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	44	0.17	Immature fish	-	-	-	7.1	N.D.(1.4)	7.1	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	33	0.30	Immature fish, Mature fish	-	-	-	13	N.D.(1.6)	13	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	4.3	Mature fish	Obscure digesta	Viscera removed	33	N.D.(1.3)	33	1.2	
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Seema	1	0.68	Immature fish	Empty stomach	Viscera removed	39	N.D.(1.2)	39	-	
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	1	0.36	Immature fish	Empty stomach	Viscera removed	20	N.D.(1.5)	20	-	
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	<i>Rhinogobius fluviatilis</i>	87	0.13	Immature fish, Mature fish	-	-	3.7	N.D.(0.55)	3.7	-	
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius flumineus</i>	<i>Rhinogobius flumineus</i>										
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius</i> sp.	<i>Rhinogobius</i>										
Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	0.98	Mature fish	Amur minnow, Pale chub, Large brown cicada	Viscera removed	62	N.D.(2.7)	62	0.54					
Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	2	2.1	Mature fish	Empty stomach	Viscera removed	59.7	1.7	58	0.43					
Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	1.3	Mature fish	Empty stomach	Viscera removed	120	N.D.(1.9)	120	0.67					
Coarse Particulate Organic Matter	-	-	-	-	-	-	-	Bottom fallen leaves	-	0.21	-	-	-	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			
Lake Akimoto	H-1 H-2 H-3	In the lake	2024/8/27	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.035	-	-	-	N.D.	N.D.(1.1)	N.D.(0.91)	-	
			2024/8/29	Arthropoda	Malacostraca	Decapoda	Astacidae	<i>Pacifastacus leniusculus trowbridgii</i>	Signal crayfish	26	1.0	Imago	-	-	-	15	N.D.(1.4)	15	6.3
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	7	2.0	Mature fish	Obscure digesta	Viscera removed	-	21	N.D.(1.3)	21	0.65
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorfii</i>	5	2.7	Mature fish	Obscure digesta	Viscera removed	-	13	N.D.(1.3)	13	0.94
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	<i>Hemibarbus barbus</i>	3	2.8	Mature fish	Obscure digesta	Viscera removed	-	38.2	1.2	37	1.2
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Hypomesus nipponensis</i>	Japanese smelt	19	0.12	Mature fish	-	-	-	7.0	N.D.(0.85)	7.0	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	2	0.79	Mature fish	Japanese smelt	Viscera removed	-	17	N.D.(1.4)	17	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Seema	3	0.77	Immature fish	Japanese smelt	Viscera removed	-	9.5	N.D.(1.1)	9.5	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus salmoides</i>	Largemouth bass	4	0.55	Immature fish	Common prawn	Viscera removed	-	36	N.D.(2.4)	36	-
	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	10	2.4	Immature fish, Mature fish	Common prawn, Rhinogobius, Fish	Viscera removed	-	20	N.D.(1.2)	20	0.88			
	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Lepomis macrochirus</i>	Bluegill	8	0.63	Immature fish, Mature fish	Algae, Stink bug, Common prawn	Viscera removed	-	15	N.D.(1.4)	15	-			
	H-3	Inflowing rivers	2024/8/27	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0069	-	-	-	20	N.D.(5.4)	20	-	
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	74	0.011	Larva	-	-	-	4.9	N.D.(4.2)	4.9	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	17	0.10	Immature fish	-	-	-	3.9	N.D.(0.59)	3.9	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	112	0.85	Immature fish	-	-	-	5.2	N.D.(0.87)	5.2	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	5	0.17	Immature fish	Lepidoptera(larva), Aquatic insect	Viscera removed	-	5.5	N.D.(1.6)	5.5	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	7	0.14	Immature fish	Grasshopper	Viscera removed	-	6.7	N.D.(1.3)	6.7	-
				Coarse Particulate Organic Matter	-	-	-	-	-	Bottom fallen leaves	-	0.21	-	-	-	5.1	N.D.(0.33)	5.1	-
	H-4	Within the lake and rivers in the vicinity	2024/8/27	Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>	10	0.015	Larva (Dragonfly larva)	-	-	-	2.5	N.D.(3.1)	2.5	-
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	<i>Semisulcospira libertina</i>	21	0.023	Imago	-	Molluscos part	-	5.8	N.D.(1.6)	5.8	-
Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur minnow	4	0.032	Immature fish, Mature fish	-	-	-	2.8	N.D.(1.8)	2.8	-	
Vertebrata				Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	1	0.041	Immature fish	Planaeschna milnei (Dragonfly larva), Ant, Bee	Viscera removed	-	1.9	N.D.(1.1)	1.9	-	

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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 Inawashiro	I-1 I-2 (north lakeside)	Within the lake and Nagase River	2024/8/29	Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	80	0.041	Larva (Dragonfly larva)	-	-	N.D.	N.D.(1.2)	N.D.(1.1)	-	
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Shaogomphus postocularis</i>	<i>Shaogomphus postocularis</i>										
				Arthropoda	Insecta	Odonata	Libellulidae	<i>Orthetrum albistylum speciosum</i>	Common skimmer										
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	9	0.12	Juvenile,Imago	-	-	3.0	N.D.(0.38)	3.0	-	
				Arthropoda	Malacostraca	Decapoda	Astacidae	<i>Pacifastacus leniusculus trowbridgii</i>	Signal crayfish	15	0.24	Juvenile,Imago	-	-	2.2	N.D.(0.29)	2.2	-	
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	526	0.29	Juvenile,Imago	-	-	3.5	N.D.(0.35)	3.5	-	
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	<i>Semisulcospira libertina</i>	30	0.018	Imago	-	Molluscos part	2.4	N.D.(2.1)	2.4	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	9	0.087	Immature fish, Mature fish	-	-	2.9	N.D.(0.52)	2.9	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorfti</i>	4	3.4	Mature fish	Obscure digesta	Viscera removed	4.2	N.D.(0.45)	4.2	0.33	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Gnathopogon elongatus elongatus</i>	<i>Gnathopogon elongatus elongatus</i>	10	0.022	Immature fish, Mature fish	-	-	2.0	N.D.(1.6)	2.0	-	
				Vertebrata	Osteichthyes	Perciformes	Actinopterygii	<i>Channa argus</i>	Snakehead	1	4.8	Mature fish	Empty stomach	Viscera removed	150	N.D.(1.7)	150	0.81	
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Goby	61	0.21	Immature fish	-	-	2.7	N.D.(0.35)	2.7	-	
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	0.28	Mature fish	Empty stomach	Viscera removed	2.2	N.D.(0.41)	2.2	-	
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.19	-	-	-	4.2	N.D.(0.45)	4.2	-	
		J-1 (south lakeside)	Within the lake and around the Oninuma	2024/8/28	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.027	-	-	-	N.D.	N.D.(1.2)	N.D.(1.0)	-
	2024/8/29			Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	1175	0.55	Juvenile,Imago	-	-	7.9	N.D.(0.65)	7.9	0.70	
				Mollusca	Gastropoda	Architaenioglossa	Viviparidae	<i>Sinotaia quadrata histrica</i>	Mud-snail	30	0.044	Juvenile	-	Molluscos part	1.4	N.D.(1.3)	1.4	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorfti</i>	13	4.0	Mature fish	Obscure digesta	Viscera removed	17	N.D.(1.1)	17	0.43	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Rhodeus ocellatus ocellatus</i>	Rosy bitterling	43	0.048	Immature fish, Mature fish	-	-	7.6	N.D.(1.8)	7.6	-	
Vertebrata				Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	44	0.049	Immature fish	-	-	4.8	N.D.(0.83)	4.8	-		
Vertebrata				Osteichthyes	Perciformes	Centrarchidae	<i>Lepomis macrochirus</i>	Bluegill	1	0.17	Mature fish	Empty stomach	Viscera removed	7.2	N.D.(0.81)	7.2	-		
Vertebrata				Osteichthyes	Perciformes	Actinopterygii	<i>Channa argus</i>	Snakehead	2	1.9	Immature fish	Empty stomach	Viscera removed	12	N.D.(1.2)	12	0.47		
Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Goby	34	0.15	Immature fish	-	-	11	N.D.(1.0)	11	-					
Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	2	1.7	Mature fish	Insect(larva),Common prawn	Viscera removed	9.7	N.D.(1.4)	9.7	0.25					

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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	
Of 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	2024/8/22	Arthropoda	Malacostraca	Decapoda	Portunidae	<i>Portunus trituberculatus</i>	Japanese blue crab	3	0.56	Imago	-	-	0.35	N.D.(0.22)	0.35	-

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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 Soma City	L-1 L-2 L-3	Matsukawaura Lagoon	2024/8/24	Algae/plant	-	-	-	Plankton (Planktonic algae)	-	0.022	-	-	-	1.6	N.D.(1.1)	1.6	-		
			2024/9/11	Algae/plant	Monocotyledoneae	Najadales	Zosteraceae	<i>Zostera marina</i>	Eel grass	-	0.22	-	-	-	0.89	N.D.(0.33)	0.89	-	
			2024/8/21	Algae/plant	Chlorophyceae	Ulvales	Ulvaceae	<i>Ulva pertusa</i>	<i>Ulva pertusa</i>	-	0.24	-	-	-	-	3.1	N.D.(0.35)	3.1	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon</i> sp.	Palaemon	49	0.020	Juvenile,Imago	-	-	-	N.D.	N.D.(1.3)	N.D.(0.97)	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Hemigrapsus</i> sp.	Hemigrapsus	239	0.34	Juvenile,Imago	-	-	-	1.7	N.D.(0.32)	1.7	-
				Arthropoda	Malacostraca	Decapoda	Portunidae	<i>Charybdis japonica</i>	Shore swimming crab	1	0.063	Imago	-	-	-	N.D.	N.D.(0.85)	N.D.(0.60)	-
				Mollusca	Bivalvia	Ostreoida	Ostreidae	<i>Crassostrea gigas</i>	Oyster	30	0.20	-	-	-	Molluscos part	0.80	N.D.(0.27)	0.80	-
				Mollusca	Bivalvia	Veneroida	Veneridae	<i>Ruditapes philippinarum</i>	Japanese littleneck	48	0.12	Juvenile,Imago	-	-	Molluscos part	0.42	N.D.(0.51)	0.42	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Scorpaenidae	<i>Sebastes cheni</i>	Rockfish	8	0.26	Immature fish	-	-	-	0.37	N.D.(0.30)	0.37	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Acanthogobius lactipes</i>	Whitelimbed goby	14	0.013	Immature fish, Mature fish	-	-	N.D.	N.D.(2.6)	N.D.(2.0)	-	
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Acentrogobius virgatus</i>	<i>Acentrogobius virgatus</i>										
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Tridentiger obscurus</i>	Dusky tripletooth goby										
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Favonigobius gymnauchen</i>	<i>Favonigobius gymnauchen</i>										
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Acanthogobius flavimanus</i>	Yellowfin Goby	110	0.74	Immature fish, Mature fish	-	-	-	1.6	N.D.(0.35)	1.6	-
				Vertebrata	Osteichthyes	Perciformes	Mugilidae	<i>Mugil cephalus cephalus</i>	Flathead mullet	71	0.76	Immature fish	-	-	-	10	N.D.(1.2)	10	-
Vertebrata	Osteichthyes	Tetraodontiformes	Tetraodontidae	<i>Takifugu niphobles</i>	<i>Takifugu niphobles</i>	5	0.23	Mature fish	Empty stomach	Viscera removed	-	1.1	N.D.(0.59)	1.1	-				

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												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Off Iwaki City	M-1 M-2 M-3	Offshore of Hisanohama	2024/9/10	Mollusca	Cephalopoda	Decapodiformes	Ommastrephidae	<i>Japanese flying squid</i>	<i>Japanese flying squid</i>	5	0.36	Juvenile	-	-	N.D.	N.D.(0.29)	N.D.(0.23)	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Triglidae	<i>Lepidotrigla microptera</i>	Searobin	4	0.93	Immature fish, Mature fish	Empty stomach	Viscera removed	0.83	N.D.(0.24)	0.83	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Triglidae	<i>Chelidonichthys spinosus</i>	Gurnard	4	1.3	Mature fish	Fish	Viscera removed	0.57	N.D.(0.25)	0.57	-
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Pleuronichthys japonicus</i>	Finespotted flounder	4	0.43	Immature fish	Empty stomach	Viscera removed	0.43	N.D.(0.26)	0.43	-
				Vertebrata	Osteichthyes	Perciformes	Sparidae	<i>Evygnis japonica</i>	Crimson sea-bream	4	1.4	Immature fish	Empty stomach	Viscera removed	0.46	N.D.(0.23)	0.46	-
				Vertebrata	Osteichthyes	Tetraodontiformes	Tetraodontidae	<i>Takifugu snyderi</i>	Obscure puffer	4	0.73	Immature fish	Sea urchin,Shellfish	Viscera removed	0.84	N.D.(0.33)	0.84	-
				Vertebrata	Osteichthyes	Zeiformes	Zeidae	<i>Zeus faber</i>	John dory	2	0.76	Immature fish, Mature fish	Empty stomach	Viscera removed	0.31	N.D.(0.25)	0.31	-
				Vertebrata	Chondrichthyes	Squatinaformes	Squatinaidae	<i>Squatina japonica</i>	Japanese angelshark	2	9.8	Immature fish, Mature fish	Fish	Viscera removed	1.7	N.D.(0.28)	1.7	N.D.(0.020)
	Vertebrata	Chondrichthyes	Carcharhiniformes	Triakidae	<i>Mustelus manazo</i>	Starspotted smooth-hound	1	0.82	Immature fish	Crab	Viscera removed	0.39	N.D.(0.22)	0.39	-			
	M-4	Hisanohama Coastal areas	2024/9/10	Algae/plant	Phaeophyceae	Laminariales	Laminariaceae	<i>Eisenia bicyclis</i>	<i>Eisenia bicyclis</i>	-	0.30	-	-	-	0.28	N.D.(0.28)	0.28	-
			Mollusca	Gastropoda	Archaeogastropoda	Haliotidae	<i>Haliotis</i> sp.	Abalone	4	0.41	Imago	-	Molluscous part	N.D.	N.D.(0.27)	N.D.(0.24)	-	
			Echinodermata	Echinoidea	Echinoida	Strongylocentrotidae	<i>Strongylocentrotus nudus</i>	Northern sea urchin	7	0.87	Imago	-	-	0.23	N.D.(0.21)	0.23	-	

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