

○ Results (water)

Locations				2024 December 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°	7.9	1.4	3.2	11.6	20.6	0.10	1.6	3	3.7	N.D.(0.0014)	0.0039	0.00086
	A-1(Bottom layer)	37.6210°	140.5218°	7.6	1.5	3.5	11.9	20.5	0.10	1.6	4	3.5	N.D.(0.0015)	0.0027	-
	A-2	37.5673°	140.3946°	7.5	0.8	1.7	12.3	12.2	0.06	0.8	<1	0.9	N.D.(0.0013)	0.0034	-
	B-2	37.8121°	140.5058°	7.9	1.1	2.8	13.5	20.0	0.10	1.3	4	2.8	N.D.(0.0015)	0.0024	-
	B-3	37.8182°	140.4679°	7.7	0.8	2.8	12.5	10.2	0.05	1.4	2	1.2	N.D.(0.0015)	0.0025	-
Uda River	C-6	37.7764°	140.8877°	7.7	0.9	2.3	13.0	10.6	0.06	1.2	<1	0.7	N.D.(0.0015)	0.0030	0.0019
Mano River	D-4 a	37.7308°	140.9081°	7.3	0.6	1.7	11.3	13.5	0.07	0.9	<1	0.8	N.D.(0.0016)	0.0014	0.00083
Niida River	E-2 a	37.6640°	140.9447°	7.6	0.9	7.9	13.2	8.0	0.04	2.3	71	25.4	N.D.(0.0018)	0.091	0.0025
Ota River	F-1	37.5975°	140.9252°	7.4	<0.5	2.2	12.4	6.9	0.04	1.0	<1	0.6	N.D.(0.0016)	0.053	0.0031
Ukedo River	N-1	37.4998°	140.9835°	7.1	<0.5	1.1	11.7	9.2	0.05	0.7	<1	0.5	N.D.(0.0015)	0.043	0.0024
	N-2	37.5070°	140.9456°	7.4	<0.5	1.3	12.3	7.7	0.04	0.7	<1	0.6	N.D.(0.0016)	0.049	-
	N-3	37.4754°	140.9598°	7.8	0.5	1.2	13.1	7.7	0.04	0.6	2	0.8	N.D.(0.0014)	0.0098	-
Tomioka River	O-1	37.3547°	140.9780°	7.5	0.6	1.6	12.2	9.5	0.05	0.8	1	0.7	N.D.(0.0017)	0.0080	0.0011
	O-2	37.3624°	140.9612°	7.6	0.8	1.6	12.2	8.9	0.05	0.7	3	0.7	N.D.(0.0014)	0.013	-
Lake Hayama (Mano Dam)	G-1(Surface layer)	37.7348°	140.8102°	7.5	1.0	4.0	9.7	8.0	0.04	2.0	2	2.0	N.D.(0.0015)	0.011	-
	G-1(Bottom layer)	37.7348°	140.8102°	7.3	1.4	4.2	9.7	8.1	0.04	2.1	3	1.9	N.D.(0.0015)	0.0096	0.0013
	G-2(Surface layer)	37.7267°	140.8223°	7.3	1.0	4.0	9.1	8.3	0.04	2.0	3	2.3	N.D.(0.0015)	0.014	-
	G-2(Bottom layer)	37.7267°	140.8223°	7.3	0.7	4.1	9.1	8.1	0.04	2.0	3	2.3	N.D.(0.0020)	0.042	-
	G-4	37.7382°	140.8035°	7.7	<0.5	1.7	12.5	7.9	0.04	0.8	1	0.9	N.D.(0.0016)	0.0075	-
Lake Akimoto	H-1(Surface layer)	37.6575°	140.1264°	7.1	0.5	3.2	9.4	5.7	0.04	1.3	6	3.3	N.D.(0.0014)	0.0032	-
	H-1(Bottom layer)	37.6575°	140.1264°	7.2	0.6	3.1	10.4	6.0	0.04	1.3	4	3.4	N.D.(0.0015)	0.0059	0.00099
	H-2(Surface layer)	37.6616°	140.1226°	7.2	0.7	3.1	10.9	5.6	0.03	1.2	5	3.7	N.D.(0.0017)	0.0055	-
	H-2(Bottom layer)	37.6616°	140.1226°	7.1	1.0	3.0	10.8	5.7	0.03	1.2	5	3.6	N.D.(0.0015)	0.0053	-
Lake Inawashiro	J-1(Surface layer)	37.4203°	140.1008°	6.9	<0.5	1.8	11.1	11.8	0.06	0.8	<1	0.5	N.D.(0.0014)	0.0042	-
	J-1(Bottom layer)	37.4203°	140.1008°	7.0	<0.5	1.8	10.9	11.8	0.06	0.7	<1	0.5	N.D.(0.0016)	0.0038	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°	8.1	<0.5	1.3	8.4	4730	33.56	1.0	<1	0.6	N.D.(0.0016)	0.0030	-
	K-3(Bottom layer)	38.0458°	140.9518°	8.1	<0.5	1.2	8.4	4810	34.29	1.0	2	0.8	N.D.(0.0014)	0.0025	0.0010
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	8.0	0.7	1.8	8.9	4690	33.43	1.0	2	0.9	N.D.(0.0016)	0.0033	0.00076
Off Iwaki City (Hisanohama)	M-2(Surface layer)	37.1996°	141.0853°	8.1	<0.5	0.9	7.5	4840	34.56	0.9	<1	0.5	N.D.(0.0015)	0.0016	-
	M-2(Bottom layer)	37.1996°	141.0853°	8.0	<0.5	1.0	6.9	4860	34.54	0.9	<1	0.5	N.D.(0.0015)	0.0017	0.00084

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

○ Results (sediments)

Locations				2024 December Survey																
	Latitude	Longitude	pH	Redox potential E <sub>N,H,E</sub> (mV)	Water content (%)	IL (%)	TOC (mg/g-dry)	Soil particle density (g/cm <sup>3</sup> )	Grain size distribution								Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)	
									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°	7.0	212	27.3	2.6	4.8	2.720	0.1	3.7	57.4	23.3	5.8	9.7	0.30	4.8	2.0	150	0.21
	A-2	37.5673°	140.3946°	7.2	500	25.3	2.0	2.4	2.700	9.6	53.2	33.9	1.5	1.8		1.0	4.8	1.8	140	-
	B-2	37.8121°	140.5058°	7.0	476	21.8	1.5	1.4	2.760	0.0	3.7	72.6	19.1	1.3	3.3	0.39	4.8	0.97	83	-
	B-3	37.8182°	140.4679°	7.3	507	16.0	0.9	0.6	2.650	37.0	43.2	18.1	0.4	1.3		1.6	9.5	0.44	25	-
Uda River	C-6	37.7764°	140.8877°	7.4	478	24.8	1.3	0.7	2.690	2.8	37.5	57.9	1.3	0.5		0.76	4.8	0.87	61	0.58
Mano River	D-4 a	37.7308°	140.9081°	7.6	466	20.3	2.3	2.2	2.710	42.6	16.9	11.8	23.9	0.8	4.0	1.5	19	1.6	160	1.2
Niida River	E-2 a	37.6640°	140.9447°	6.8	489	19.4	1.3	2.5	2.680	13.7	37.7	40.1	5.0	1.1	2.4	0.87	4.8	4.4	280	0.38
Ota River	F-1	37.5975°	140.9252°	6.8	479	22.1	1.4	2.2	2.680	17.3	27.6	42.9	7.7	0.5	4.0	0.77	4.8	6.4	420	0.68
Ukedo River	N-1	37.4998°	140.9835°	6.7	458	25.5	1.4	3.0	2.670	9.5	20.1	47.2	18.1	1.8	3.3	0.52	9.5	36	2600	0.45
	N-2	37.5070°	140.9456°	7.4	499	20.3	0.8	0.3	2.620	1.2	54.8	42.6	0.2	1.2		0.93	4.8	26	1800	-
	N-3	37.4754°	140.9598°	7.0	558	27.3	1.6	1.6	2.640	2.9	11.4	65.3	16.9	0.2	3.3	0.40	9.5	23	1600	-
Tomioka River	O-1	37.3547°	140.9780°	7.3	450	59.7	10.5	48.0	2.480	11.4	28.9	12.6	7.1	26.1	13.9	0.36	4.8	20	1300	0.42
	O-2	37.3624°	140.9612°	7.6	472	22.3	2.3	3.2	2.710	17.9	15.2	41.3	17.1	3.7	4.8	0.49	9.5	6.4	510	-
Lake Hayama (Mano Dam)	G-1	37.7348°	140.8102°	6.9	231	63.7	16.0	43.0	2.520	0.0	0.0	0.1	13.1	65.0	21.8	0.026	0.85	21	1600	2.5
	G-2	37.7267°	140.8223°	7.0	482	26.9	2.6	2.9	2.670	18.1	19.8	26.2	20.9	10.6	4.4	0.49	9.5	7.5	540	-
	G-4	37.7382°	140.8035°	7.2	502	28.9	2.9	3.1	2.700	10.3	19.9	43.4	19.5	2.8	4.1	0.52	19	4.4	340	-
Lake Akimoto	H-1	37.6575°	140.1264°	6.6	137	66.2	10.1	34.0	2.530	0.0	0.0	0.1	0.9	73.2	25.8	0.012	0.85	13	930	1.5
	H-2	37.6616°	140.1226°	6.5	147	70.0	15.0	58.0	2.440	0.0	0.0	0.0	0.0	69.6	30.4	0.0084	0.25	6.6	380	-
Lake Inawashiro	J-1	37.4203°	140.1008°	6.3	488	21.7	1.0	1.8	2.790	4.0	9.5	47.9	28.5	6.5	3.6	0.30	4.8	0.31	23	N.D.(0.20)
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	253	38.6	4.1	5.1	2.750	0.1	0.2	0.5	27.3	60.0	11.9	0.042	4.8	1.5	96	N.D.(0.18)
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	7.4	343	29.3	2.5	2.1	2.750	0.2	0.4	24.4	63.7	3.6	7.7	0.18	4.8	0.53	55	0.25
Off Iwaki City (Hisanohama)	M-2	37.1996°	141.0853°	7.7	356	22.3	1.8	1.3	2.820	0.7	0.7	2.2	90.2	2.9	3.3	0.16	9.5	0.65	23	N.D.(0.18)

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	2024/12/6	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.015	-	-	-	62	N.D.(7.3)	62	-	
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<i>Protohermes grandis</i>	21	0.017	Larva	-	-	N.D.	N.D.(3.0)	N.D.(2.4)	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	7	0.039	Immature fish	-	-	2.3	N.D.(0.73)	2.3	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.22	-	-	-	4.7	N.D.(0.93)	4.7	-
	A-2	Harase River	2024/12/6	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.029	-	-	-	68	N.D.(6.4)	68	-	
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	47	0.020	Larva (Dragonfly larva)	-	-	4.7	N.D.(2.1)	4.7	-
				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 sp.</i>	<i>Davidius</i>									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Shaogomphus postocularis</i>	<i>Shaogomphus postocularis</i>									
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	1	0.013	Immature fish	-	-	4.7	N.D.(2.8)	4.7	-
	Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.25	-	-	-	28	N.D.(1.4)	28	-			
	B-2	The main stream of the Abukuma River	2024/12/1	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	5	1.5	Mature fish	Obscure digesta	Viscera removed	5.4	N.D.(0.89)	5.4	0.19
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorfi</i>	3	0.46	Mature fish	Obscure digesta	Viscera removed	5.3	N.D.(0.59)	5.3	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	<i>Hemibarbus barbus</i>	3	3.6	Mature fish	Obscure digesta	Viscera removed	4.3	N.D.(0.56)	4.3	0.32
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus salmoides</i>	Largemouth bass	1	0.12	Immature fish	Fish	Viscera removed	7.3	N.D.(0.65)	7.3	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	3	0.69	Immature fish	Fish	Viscera removed	4.9	N.D.(0.39)	4.9	-
				Vertebrata	Osteichthyes	Siluriformes	Ictaluridae	<i>Ictalurus punctatus</i>	Channel catfish	3	2.6	Immature fish	Bryophyte, Fruit of the plant	Viscera removed	6.9	N.D.(0.87)	6.9	0.14
	B-3	Surikami River	2024/12/6	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.037	-	-	-	20	N.D.(3.4)	20	-	
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	724	0.18	Larva	-	-	6.2	N.D.(0.48)	6.2	-
Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	7	0.028	Immature fish	-	-	2.3	N.D.(1.8)	2.3	-	
Coarse Particulate Organic Matter				-	-	-	-	Bottom fallen leaves	-	0.24	-	-	-	8.0	N.D.(1.5)	8.0	-	

\*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		
Uda River	C-6	The main stream of the Uda River	2024/12/7	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.024	-	-	-	23	N.D.(5.4)	23	-	
				Arthropoda	Insecta	Ephemeroptera	Ephemeridae	<i>Ephemera orientalis</i>	<u><i>Ephemera orientalis</i></u>	360	0.021	Larva	-	-	-	10	N.D.(2.8)	10	-
				Arthropoda	Insecta	Ephemeroptera	Ephemeridae	<i>Ephemera strigata</i>	Mont mayfly	246	0.024	Larva	-	-	-	1.2	N.D.(1.2)	1.2	-
				Arthropoda	Insecta	Plecoptera	Perlidae	<i>Kamimuria tibialis</i>	<u><i>Kamimuria tibialis</i></u>										
				Arthropoda	Insecta	Plecoptera	Perlidae	<i>Paragnetina suzukii</i>	<i>Paragnetina suzukii</i> Okamoto	2	0.027	Immature fish	-	-	-	3.4	N.D.(1.3)	3.4	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace										
Coarse Particulate Organic Matter	-	-	-	-	-	Bottom fallen leaves	-	0.23	-	-	-	-	4.4	N.D.(0.51)	4.4	-			

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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		
Mano River	D-4 b	The main stream of the Mano River	2024/12/7	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.017	-	-	-	34	N.D.(4.9)	34	-	
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	106	0.013	Larva	-	-	17	N.D.(3.3)	17	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	11	0.40	Immature fish, Mature fish	Obscure digesta	Viscera removed	5.3	N.D.(0.35)	5.3	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorfii</i>	2	0.64	Mature fish	Obscure digesta	Viscera removed	3.6	N.D.(0.34)	3.6	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	1	0.047	Immature fish	Obscure digesta	Viscera removed	5.4	N.D.(1.1)	5.4	-
	Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.25	-	-	-	36	N.D.(1.4)	36	-			
D-5	The main stream of the Mano River	2024/12/1	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	14	0.73	Immature fish, Mature fish	Empty stomach	Viscera removed	68	N.D.(1.4)	68	-	

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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		
Niida River	E-2 b	The main stream of the Niida River	2024/12/7	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.032	-	-	-	310	N.D.(6.7)	310	-	
				Arthropoda	Insecta	Plecoptera	Perlidae	<u>Kamimuria tibialis</u>	<u>Kamimuria tibialis</u>	413	0.028	Larva	-	-	3.5	N.D.(1.9)	3.5	-
				Arthropoda	Insecta	Plecoptera	Perlidae	<u>Paragnetina suzukii</u>	<u>Paragnetina suzukii</u> Okamoto									
				Arthropoda	Insecta	Plecoptera	Perlidae	<u>Neoperla geniculata</u>	<u>Neoperla geniculata</u>									
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<u>Tribolodon hakonensis</u>	Japanese dace	5	0.042	Immature fish	-	-	11	N.D.(2.4)	11	-
	Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.25	-	-	-	74.7	1.7	73	-			
	E-3	The main stream of the Niida River	2024/12/1	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<u>Tribolodon hakonensis</u>	Japanese dace	8	0.54	Mature fish	Obscure digesta	Viscera removed	8.8	N.D.(1.2)	8.8	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<u>Opsariichthys platypus</u>	Pale chub	30	0.21	Immature fish	-	-	8.1	N.D.(1.5)	8.1	-
Vertebrata				Osteichthyes	Siluriformes	Siluridae	<u>Silurus asotus</u>	Amur catfish	2	2.5	Mature fish	Empty stomach	Viscera removed	29	N.D.(1.4)	29	0.46	

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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	2024/12/8	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.027	-	-	-	160	N.D.(6.6)	160	-	
				Arthropoda	Insecta	Plecoptera	Perlidae	<u>Oyamia lugubris</u>	<u>Oyamia lugubris</u>	83	0.012	Larva	-	-	17	N.D.(3.4)	17	-
				Arthropoda	Insecta	Plecoptera	Perlidae	<u>Kamimuria tibialis</u>	<u>Kamimuria tibialis</u>									
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<u>Candidia temminckii</u>	Dark chub	30	0.35	Immature fish, Mature fish	-	-	48	N.D.(1.5)	48	-
	Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.24	-	-	-	50	N.D.(1.3)	50	-			
	F-5	The main stream of the Ota River	2024/12/11	Vertebrata	Osteichthyes	Siluriformes	Siluridae	<u>Silurus asotus</u>	Amur catfish	1	0.40	Mature fish	Empty stomach	Viscera removed	19	N.D.(1.8)	19	-
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<u>Silurus asotus</u>	Amur catfish	1	0.53	Mature fish	Empty stomach	Viscera removed	26	N.D.(1.4)	26	-

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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	2024/12/11	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.030	-	-	-	892	12	880	-	
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	227	0.014	Larva	-	-	520	N.D.(7.0)	520	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	7	0.35	Immature fish, Mature fish	Obscure digesta	Viscera removed	120	N.D.(1.6)	120	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	3	1.4	Immature fish, Mature fish	Obscure digesta	Viscera removed	0.87	N.D.(0.26)	0.87	0.27
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.24	-	-	-	121.7	1.7	120	-
	N-2	The main stream of the Ukedo River	2024/12/11	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.011	-	-	-	120	N.D.(14)	120	-	
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	15	0.020	Imago	-	-	110	N.D.(11)	110	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	11	0.18	Immature fish, Mature fish	Obscure digesta	Viscera removed	302.9	2.9	300	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	7	1.5	Immature fish	Obscure digesta	Viscera removed	120	N.D.(1.5)	120	2.1
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	<u><i>Rhinogobius fluviatilis</i></u>	13	0.042	Mature fish	-	-	130	N.D.(9.3)	130	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<u><i>Rhinogobius nagoyae</i></u>									
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	1.2	Mature fish	Empty stomach	Viscera removed	395.5	5.5	390	-
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	1.9	Mature fish	Empty stomach	Viscera removed	2633	33	2600	1.6
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.22	-	-	-	110	N.D.(1.7)	110	-
	N-3	The main stream of the Takase River	2024/12/11	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.015	-	-	-	72	N.D.(11)	72	-	
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	45	0.011	Larva (Dragonfly larva)	-	-	7.4	N.D.(3.2)	7.4	-
				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>									
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus reinii</i>	Sculpin	6	0.045	Immature fish	-	-	19	N.D.(3.2)	19	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<i>Rhinogobius nagoyae</i>	18	0.030	Immature fish, Mature fish	-	-	18	N.D.(3.5)	18	-
Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.21	-	-	-	67	N.D.(1.4)	67	-				

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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	2024/12/8	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.015	-	-	-	530	N.D.(14)	530	-		
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	260	0.063	Larva	-	-	-	140	N.D.(4.5)	140	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Macrobrachium japonicum</i>	Freshwater Prawn	1	0.0093	Juvenile	-	-	-	10	N.D.(3.1)	10	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	11	0.083	Immature fish	-	-	-	26	N.D.(3.1)	26	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	1	0.029	Immature fish	-	-	-	6.8	N.D.(1.6)	6.8	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.23	-	-	-	-	81	N.D.(2.5)	81	-
	O-2	The main stream of the Tomioka River	2024/12/8	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.022	-	-	-	-	618.9	8.9	610	-	
				Arthropoda	Insecta	Plecoptera	Perlidae	<i>Kamimuria uenoi</i>	<i>Kamimuria uenoi</i> Kohno	276	0.026	Larva	-	-	-	7.0	N.D.(1.4)	7.0	-
				Arthropoda	Insecta	Plecoptera	Perlidae	<i>Oyamia lugubris</i>	<i>Oyamia lugubris</i>										
				Arthropoda	Insecta	Plecoptera	Perlidae	<i>Kamimuria tibialis</i>	<i>Kamimuria tibialis</i>										
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	49	0.27	Immature fish	-	-	-	20	N.D.(1.2)	20	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	11	0.15	Immature fish	-	-	-	29	N.D.(1.5)	29	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.23	-	-	-	-	45	N.D.(1.5)	45	-

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											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137			
Lake Hayama	G-1 G-2 G-3	In the lake	2024/12/10	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.026	-	-	-	2.4	N.D.(1.5)	2.4	-	
	G-4	Inflowing rivers	2024/12/1	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus salmoides</i>	Largemouth bass	2	1.2	Mature fish	Japanese smelt	Viscera removed	40	N.D.(1.3)	40	0.30	
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	1.3	Mature fish	Empty stomach	Viscera removed	90	N.D.(1.6)	90	0.66	
	G-4	Inflowing rivers	2024/12/10	Algae/plant	-	-	-	-	-	Riverbed Deposits (Include algae)	-	0.026	-	-	-	68	N.D.(5.5)	68	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<u>Macromia amphigena</u>	44	0.029	Larva (Dragonfly larva)	-	-	5.1	N.D.(2.0)	5.1	-	
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<u>Anotogaster sieboldii</u>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	<u>Melligomphus viridicostus</u>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	<u>Sieboldius albardae</u>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius</i> sp.	<u>Davidius</u>										
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Planaeschna milnei milnei</i>	<u>Planaeschna milnei milnei</u>										
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	1	0.12	Mature fish	Diptera(imago)	Viscera removed	51	N.D.(2.5)	51	-	
	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Lepomis macrochirus</i>	Bluegill	2	0.046	Immature fish	Empty stomach	Viscera removed	23	N.D.(8.0)	23	-				
	Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius</i> sp.	Rhinogobius	27	0.037	Immature fish, Mature fish	-	-	4.6	N.D.(1.8)	4.6	-				
			Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.20	-	-	-	13	N.D.(1.3)	13	-		

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												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Lake Akimoto	H-1	In the lake	2024/12/3	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.013	-	-	-	N.D.	N.D.(2.3)	N.D.(2.0)	-
	H-2		2024/12/5	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	5	1.1	Mature fish	Obscure digesta	Viscera removed	20	N.D.(1.4)	20	-
	H-3	Vertebrata		Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Seema	1	0.92	Immature fish	Japanese smelt	Viscera removed	15	N.D.(1.2)	15	-	
	H-3	Inflowing rivers	2024/12/3	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.020	-	-	-	13	N.D.(2.0)	13	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	11	0.0063	Juvenile, Imago	-	-	N.D.	N.D.(6.9)	N.D.(5.7)	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	5	0.35	Immature fish, Mature fish	Empty stomach	Viscera removed	4.5	N.D.(0.48)	4.5	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.22	-	-	-	4.1	N.D.(0.62)	4.1	-

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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	2024/12/1	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorffi</i>	3	2.4	Mature fish	Obscure digesta	Viscera removed	11	N.D.(1.3)	11	0.39
			Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	3	3.3	Mature fish	Empty stomach	Viscera removed	18	N.D.(1.1)	18	0.085	
			Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	3	1.1	Mature fish	Empty stomach	Viscera removed	6.0	N.D.(1.2)	6.0	-	
	2024/12/4	Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.25	-	-	-	1.8	N.D.(0.27)	1.8	-		
	J-1 (south lakeside)	Within the lake and around the Oninuma	2024/12/5	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.013	-	-	-	N.D.	N.D.(2.6)	N.D.(2.3)	-
			Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	15	0.074	Immature fish, Mature fish	-	-	4.4	N.D.(1.1)	4.4	-	

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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 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	2024/12/10	Vertebrata	Osteichthyes	Perciformes	Sparidae	<i>Evynnis japonica</i>	Crimson sea-bream	1	0.40	Immature fish	Brittle star	Viscera removed	N.D.	N.D.(0.29)	N.D.(0.22)	-
				Vertebrata	Osteichthyes	Zeiformes	Zeidae	<i>Zeus faber</i>	John dory	1	0.46	Mature fish	Anchovy	Viscera removed	N.D.	N.D.(0.33)	N.D.(0.33)	-

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\*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.

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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	2024/12/7	Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Hemigrapsus</i> sp.	Hemigrapsus	96	0.062	Juvenile, Imago	-	-	N.D.	N.D.(0.88)	N.D.(0.85)	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Scorpaenidae	<i>Sebastes cheni</i>	Rockfish	10	0.38	Immature fish	Empty stomach	Viscera removed	0.43	N.D.(0.36)	0.43	-

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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-1 M-2 M-3	Offshore of Hisanohama	2024/12/10	Vertebrata	Osteichthyes	Scorpaeniformes	Triglidae	<i>Chelidonichthys spinosus</i>	Gurnard	2	0.91	Mature fish	Empty stomach	Viscera removed	0.87	N.D.(0.27)	0.87	-
				Vertebrata	Osteichthyes	Pleuronectiformes	Paralichthyidae	<i>Pseudorhombus cinnamomeus</i>	Cinnamon flounder	4	0.76	Mature fish	Shrimp,Crab	Viscera removed	N.D.	N.D.(0.28)	N.D.(0.26)	-

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