

○ Results (water)

Locations			2020 July 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°	7.1	1.2	5.5	8.2	16.0	0.06	2.6	16	7.5	0.0022	0.036	0.0011
	A-1(Bottom layer)	37.6210°	140.5218°	7.2	1.5	6.2	8.3	16.1	0.08	2.5	23	9.3	N.D.(0.0016)	0.030	-
	A-2	37.5673°	140.3946°	7.3	0.7	3.2	9.4	13.0	0.06	1.2	6	3.0	N.D.(0.0015)	0.022	-
	B-2	37.8121°	140.5058°	7.3	0.9	5.0	8.8	15.2	0.09	2.2	14	6.9	N.D.(0.0013)	0.024	-
	B-3	37.8182°	140.4679°	7.6	<0.5	2.7	10.7	9.3	0.05	1.2	2	1.4	N.D.(0.0015)	0.0062	-
Uda River	C-6	37.7764°	140.8877°	7.6	<0.5	3.0	9.2	11.3	0.06	1.3	5	2.3	N.D.(0.0013)	0.0061	0.00086
Mano River	D-4 a	37.7308°	140.9081°	7.3	<0.5	2.4	10.3	11.9	0.06	1.2	2	1.2	N.D.(0.0011)	0.0090	0.00092
Niida River	E-2 a	37.6640°	140.9447°	7.5	0.5	3.1	9.1	8.0	0.05	1.1	11	6.7	0.0054	0.087	0.0016
Ota River	F-1	37.5975°	140.9252°	7.3	<0.5	2.2	9.9	5.7	0.03	0.9	1	0.9	0.0028	0.061	0.0034
Lake Hayama (Mano Dam)	G-1(Surface layer)	37.7348°	140.8102°	7.5	0.6	3.6	8.9	7.2	0.04	1.7	3	2.9	N.D.(0.0014)	0.011	-
	G-1(Bottom layer)	37.7348°	140.8102°	7.4	0.6	3.9	8.3	7.8	0.04	1.8	4	4.4	0.0023	0.039	0.00073
	G-2(Surface layer)	37.7267°	140.8223°	7.5	<0.5	3.3	8.9	7.1	0.04	1.7	2	2.2	N.D.(0.0014)	0.0079	-
	G-2(Bottom layer)	37.7267°	140.8223°	7.0	<0.5	3.1	8.4	6.4	0.06	1.7	2	1.8	N.D.(0.0014)	0.026	-
	G-4	37.7382°	140.8035°	7.4	<0.5	3.6	8.8	8.2	0.04	1.8	2	1.8	0.0015	0.022	-
Lake Akimoto	H-1(Surface layer)	37.6575°	140.1264°	7.3	0.5	3.5	8.5	4.6	0.05	2.0	1	1.3	N.D.(0.0015)	0.0069	-
	H-1(Bottom layer)	37.6575°	140.1264°	6.9	<0.5	2.9	8.4	4.8	0.05	1.8	3	2.1	N.D.(0.0015)	0.0043	0.00093
	H-2(Surface layer)	37.6616°	140.1226°	7.1	0.7	3.4	8.5	5.0	0.03	1.4	2	2.1	N.D.(0.0015)	0.0069	-
	H-2(Bottom layer)	37.6616°	140.1226°	6.5	0.7	3.2	1.6	5.7	0.03	1.2	12	10.4	0.0022	0.059	-
Lake Inawashiro	J-1(Surface layer)	37.4203°	140.1008°	6.8	0.9	2.4	9.0	11.9	0.06	1.0	<1	0.9	N.D.(0.0014)	0.0052	-
	J-1(Bottom layer)	37.4203°	140.1008°	6.9	0.6	1.8	8.5	11.9	0.06	1.1	<1	0.7	N.D.(0.0013)	0.0050	0.00068
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°	8.3	2.1	5.0	8.4	3880	25.04	2.1	4	4.7	N.D.(0.0014)	0.0040	-
	K-3(Bottom layer)	38.0458°	140.9518°	7.9	0.6	3.2	7.5	5010	33.61	1.1	13	5.7	N.D.(0.0015)	0.018	0.00077
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	8.0	1.0	4.8	7.3	4060	26.05	1.6	20	9.8	0.0015	0.025	0.00092
Off Iwaki City (Hisanohama)	M-2(Surface layer)	37.1996°	141.0853°	8.1	0.7	2.6	8.0	4780	31.42	1.1	3	1.5	N.D.(0.0015)	0.0066	-
	M-2(Bottom layer)	37.1996°	141.0853°	8.0	<0.5	2.3	8.5	5090	33.70	1.0	2	0.8	N.D.(0.0014)	0.0039	0.00077

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

○ Results (sediments)

Locations			2020 July 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°	7.4	42	30.5	3.3	9.8	2.708	0.0	0.7	39.4	34.2	13.5	12.2	0.21	9.5	9.4	170	0.18
	A-2	37.5673°	140.3946°	7.2	411	18.3	1.5	2.5	2.707	40.5	35.6	19.1	3.1	1.7		1.6	4.8	5.9	110	-
	B-2	37.8121°	140.5058°	7.2	407	25.6	1.6	2.9	2.657	0.0	0.7	50.5	45.8	1.5	1.5	0.25	4.8	5.6	85	-
	B-3	37.8182°	140.4679°	7.3	448	21.2	1.6	2.5	2.672	19.1	37.8	37.0	4.4	1.7		0.99	9.5	3.7	55	-
Uda River	C-6	37.7764°	140.8877°	7.6	414	17.6	0.9	1.6	2.680	25.7	59.7	13.6	0.6	0.4		1.4	4.8	1.7	34	0.27
Mano River	D-4 a	37.7308°	140.9081°	7.4	380	17.2	1.7	2.3	2.724	29.5	41.3	23.1	4.3	1.8		1.4	9.5	7.5	120	0.64
Niida River	E-2 a	37.6640°	140.9447°	7.4	505	19.6	1.1	2.9	2.675	3.7	32.4	51.1	10.4	2.4		0.69	9.5	13	280	0.19
Ota River	F-1	37.5975°	140.9252°	7.4	391	14.8	0.6	1.9	2.656	22.4	43.7	30.8	2.2	0.9		1.2	9.5	9.8	200	0.26
Lake Hayama (Mano Dam)	G-1	37.7348°	140.8102°	7.5	424	28.5	2.7	3.0	2.739	0.9	3.7	68.4	19.9	2.8	4.3	0.35	4.8	28	510	1.7
	G-2	37.7267°	140.8223°	7.1	54	43.3	11.0	25.9	2.582	9.5	1.9	5.0	23.6	33.5	26.5	0.043	19	150	2700	-
	G-4	37.7382°	140.8035°	7.6	419	18.3	2.2	3.7	2.706	24.4	29.9	34.6	6.6	2.2	2.3	0.95	19	18	310	-
Lake Akimoto	H-1	37.6575°	140.1264°	7.0	78	67.5	10.7	35.0	2.543	0.0	0.1	0.3	0.1	53.9	45.6	0.0057	2.0	150	2600	1.4
	H-2	37.6616°	140.1226°	6.9	50	75.1	14.2	46.4	2.443	0.0	0.1	0.2	0.3	18.8	80.6	-	2.0	120	2200	-
Lake Inawashiro	J-1	37.4203°	140.1008°	7.3	377	24.8	1.4	4.7	2.727	2.2	1.3	54.0	40.9	1.6		0.28	9.5	7.2	110	0.18
Off the mouth of the Abukuma River (Sea Area in front of the mouth of the Abukuma River)	K-3	38.0458°	140.9518°	7.7	19	30.6	3.7	6.8	2.708	0.0	0.0	0.3	47.4	40.1	12.2	0.072	0.85	5.0	120	N.D.(0.13)
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	7.8	44	19.9	1.3	2.6	2.748	0.1	0.5	51.9	43.8	1.5	2.2	0.26	9.5	1.6	39	N.D.(0.14)
Off Iwaki City (Hisanohama)	M-2	37.1996°	141.0853°	7.7	171	22.3	2.0	3.6	2.763	0.0	0.9	3.2	93.0	2.9		0.17	2.0	1.5	32	N.D.(0.16)

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	2020/7/4	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorfii	1	0.38	Mature fish	Obscure digesta	Viscera removed	3.0	N.D.(0.36)	3.0	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	0.42	Immature fish	Obscure digesta	Viscera removed	2.2	N.D.(0.41)	2.2	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	1	0.73	Mature fish	Obscure digesta	Viscera removed	3.1	N.D.(0.47)	3.1	-	
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	1	0.14	Immature fish	Empty stomach	Viscera removed	4.1	N.D.(0.40)	4.1	-	
				Vertebrata	Osteichthyes	Siluriformes	Ictaluridae	<i>Ictalurus punctatus</i>	Channel catfish	3	1.6	Immature fish	Algae, Chironomus, Common prawn, Protohermes grandis, Terrestrial insect, Stenopsyche marmorata, Plant piece	Viscera removed	4.0	N.D.(0.38)	4.0	0.20	
	A-2	Harase River	2020/7/4	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.012	-	-	-	74.0	4.0	70	-	
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	24	0.0087	Larva	-	-	-	23	N.D.(4.3)	23	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	59	0.024	Larva(Dragonfly larva)	-	-	-	4.2	N.D.(2.0)	4.2	-
				Arthropoda	Insecta	Odonata	Cordulegastriidae	<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>Asiagomphus melaenops</i>	<i>Asiagomphus melaenops</i>										
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	<i>Boyeria maclachlani</i>	147	0.036	Juvenile, Imago	-	-	-	9.7	N.D.(1.6)	9.7	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur minnow	80	0.49	Immature fish, Mature fish	-	-	-	9.92	0.42	9.5	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	12	0.32	Immature fish, Mature fish	Obscure digesta	Viscera removed	19.98	0.98	19	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	33	0.24	Immature fish	-	-	-	9.86	0.56	9.3	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus esocinus</i>	Pseudogobio esocinus esocinus	11	0.11	Immature fish	-	-	-	4.0	N.D.(0.62)	4.0	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	80	0.39	Immature fish, Mature fish	-	-	-	5.3	N.D.(0.28)	5.3	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	10	0.039	Immature fish, Mature fish	-	-	-	6.0	N.D.(1.6)	6.0	-
Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Nemacheilus toni</i>	Stone loach	145	0.98	Immature fish	-	-	-	4.1	N.D.(0.33)	4.1	0.20				
Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Seema	1	0.27	Immature fish	Worm, Tadpole	Viscera removed	7.71	0.41	7.3	-					
Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	1	0.14	Mature fish	Tadpole	Viscera removed	14.84	0.84	14	-					
Vertebrata	Cephalaspidomorpha	Petromyzontiformes	Petromyzontidae	<i>Lethenteron reissneri</i>	Far eastern brook lamprey	3	0.012	Ammocoetes(larva)	-	-	-	N.D.	N.D.(2.3)	N.D.(2.1)	-				
Vertebrata	Amphibia	Anura	-	-	-	24	0.028	Larva(Tadpole)	-	-	-	56.2	2.2	54	-				
Coarse Particulate Organic Matter	-	-	-	-	-	-	0.20	Bottom fallen leaves	-	-	-	10.31	0.81	9.5	-				

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*4: Basically, measurement was conducted for all organism samples. Viscera (stomach and bowels) were removed for the measurement when possible so that undigested food and sediments, etc. in the digestive system would be excluded.

*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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*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	2020/7/4	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.0053	-	-	-	37	N.D.(12)	37	-		
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	190	0.021	Larva	-	-	-	18	N.D.(2.7)	18	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	95	0.034	Larva(Dragonfly larva)	-	-	-	N.D.	N.D.(1.4)	N.D.(1.3)	-
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Nihonogomphus viridis</i>	Nihonogomphus viridis										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	Davidius										
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Protohermes grandis	29	0.025	Larva	-	-	-	N.D.	N.D.(1.7)	N.D.(1.7)	-
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	7	0.12	Imago	-	-	-	4.2	N.D.(0.65)	4.2	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.25	Mature fish	Protohermes	Viscera removed	-	4.5	N.D.(0.48)	4.5	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	62	0.44	Immature fish	-	-	-	2.4	N.D.(0.30)	2.4	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur minnow	61	0.32	Immature fish,Mature fish	-	-	-	2.2	N.D.(0.26)	2.2	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	1	0.023	Immature fish	-	-	-	2.8	N.D.(1.9)	2.8	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	1.4	Mature fish	Obscure digesta	Viscera removed	-	6.3	N.D.(1.1)	6.3	0.47
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis biwae</i>	Cobitis biwae	20	0.066	Immature fish,Mature fish	-	-	-	5.4	N.D.(1.1)	5.4	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	2	0.017	Mature fish	-	-	-	3.2	N.D.(2.4)	3.2	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Nemacheilus toni</i>	Stone loach	67	0.66	Immature fish	-	-	-	2.1	N.D.(0.30)	2.1	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	57	2.3	Mature fish	-	-	-	8.3	N.D.(0.36)	8.3	0.20
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	4	0.065	Immature fish	Diptera,Baetidae(larva),Midge(larva),Ep hemerellidae(larva), Stenopsyche marmorata,Plant piece,Ecdyonurus,A quatic insect	Viscera removed	-	1.6	N.D.(0.95)	1.6	-
Vertebrata	Osteichthyes	Siluriformes	Bagridae	<i>Tachysurus tokiensis</i>	Cut-tailed bullhead	2	0.015	Immature fish	Obscure digesta	Viscera removed	-	4.3	N.D.(3.0)	4.3	-				
			Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.27	-	-	-	8.26	0.36	7.9	-		

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											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137		
Uda River	C-6	The main stream of the Uda River	2020/7/2	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.0051	-	-	-	14	N.D.(5.8)	14	-	
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	38	0.014	Larva(Dragonfly larva)	-	-	N.D.	N.D.(4.0)	N.D.(3.6)	-
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	Stylogomphus suzukii									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	Davidius									
				Arthropoda	Insecta	Odonata	Libellulidae	<i>Sympetrum sp.</i>	Sympetrum									
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	Boyeria maclachlani									
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Planaeschna milnei milnei</i>	Planaeschna milnei milnei									
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	5	0.045	Juvenile,Imago	-	-	13	N.D.(1.4)	13	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	75	0.072	Imago	-	-	2.7	N.D.(0.71)	2.7	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	91	0.028	Juvenile,Imago	-	-	7.2	N.D.(1.9)	7.2	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	18	0.26	Juvenile	-	-	4.3	N.D.(0.40)	4.3	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.18	Mature fish	Red swamp crawfish	Viscera removed	10.49	0.49	10	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.30	Mature fish	Empty stomach	Viscera removed	15.67	0.67	15	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.39	Mature fish	Empty stomach	Viscera removed	13.60	0.60	13	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus reinii</i>	Sculpin	3	0.012	Immature fish	-	-	3.8	N.D.(2.5)	3.8	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	15	0.33	Immature fish,Mature fish	Obscure digesta	Viscera removed	7.27	0.47	6.8	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	2	0.025	Immature fish	-	-	6.3	N.D.(2.0)	6.3	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	11	0.12	Immature fish,Mature fish	-	-	6.6	N.D.(0.52)	6.6	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis biwae</i>	Cobitis biwae	11	0.030	Immature fish,Mature fish	-	-	4.4	N.D.(1.7)	4.4	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	250	2.5	Immature fish	-	-	6.2	N.D.(0.58)	6.2	0.13
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Goby	16	0.079	Immature fish,Mature fish	-	-	9.88	0.98	8.9	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius fluviatilis	131	0.18	Immature fish,Mature fish	-	-	4.7	N.D.(0.59)	4.7	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	Rhinogobius nagoyae									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Tridentiger brevispinis</i>	Dusky tripletooth goby	2	0.018	Mature fish	-	-	5.7	N.D.(2.6)	5.7	-
				Vertebrata	Osteichthyes	Siluriformes	Bagridae	<i>Tachysurus tokiensis</i>	Cut-tailed bullhead	1	0.023	Mature fish	-	-	5.0	N.D.(2.3)	5.0	-
				Vertebrata	Cephalaspidomorpha	Petromyzontiformes	Petromyzontidae	<i>Lethenteron reissneri</i>	Far eastern brook lamprey	13	0.049	Ammocoetes(larva)	-	-	1.7	N.D.(0.97)	1.7	-
Vertebrata	Amphibia	Anura	Lithobates	<i>Lithobates catesbeianus</i>	American bullfrog	1	0.62	Imago	-	-	31.5	1.5	30	-				
				Coarse Particulate Organic Matter	-	-	-	Bottom fallen leaves	-	0.20	-	-	-	7.5	N.D.(0.47)	7.5	-	

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Location	Sampling point	Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)		
											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137			
Mano River	D-3	The main stream of the Mano River	2020/7/1	Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.093	Immature fish	Obscure digesta	Viscera removed	8.3	N.D.(3.0)	8.3	-	
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.26	Mature fish	Japanese mitten Crab	Viscera removed	9.8	N.D.(2.7)	9.8	-	
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.55	Mature fish	Japanese mitten Crab	Viscera removed	26.7	1.7	25	0.086	
		2020/6/4	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	7	0.89	Immature fish,Mature fish	-	-	2.8	N.D.(1.4)	2.8	-		
			Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	63	0.99	Immature fish,Mature fish	-	-	13.99	0.99	13	0.073		
	2020/7/1	Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	99	1.7	Immature fish,Mature fish	-	-	14.62	0.62	14	0.13			
	D-4 b	The main stream of the Mano River	2020/7/1	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0046	-	-	-	64	N.D.(6.5)	64	-	
				Arthropoda	Insecta	Ephemeroptera	Potamanthidae	<i>Potamanthus formosus</i>	Potamanthus formosus	752	0.018	Larva	-	-	-	33	N.D.(2.0)	33	-
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	Melligomphus viridicostus	84	0.020	Larva(Dragonfly larva)	-	-	-	6.3	N.D.(1.7)	6.3	-
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	<u>Davidius</u>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	Asiagomphus melaenops										
				Arthropoda	Insecta	Odonata	Libellulidae	<i>Sympetrum sp.</i>	Sympetrum										
				Arthropoda	Insecta	Odonata	Epiophlebiidae	<i>Epiophlebia superstes</i>	Epiophlebia superstes										
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Parachauliodes sp.</i>	Parachauliodes	67	0.037	Larva	-	-	-	3.8	N.D.(1.4)	3.8	-
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<u>Protohermes grandis</u>										
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	27	0.034	Imago	-	-	-	4.3	N.D.(1.5)	4.3	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	72	0.021	Juvenile	-	-	-	6.7	N.D.(3.0)	6.7	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	5	0.11	Juvenile	-	-	-	14	N.D.(1.7)	14	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.082	Immature fish	Obscure digesta	Viscera removed	16	N.D.(2.0)	16	-	
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.24	Mature fish	Obscure digesta	Viscera removed	32.7	1.7	31	-	
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.37	Mature fish	Obscure digesta	Viscera removed	33.9	1.9	32	-	
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	1	0.010	Immature fish	-	-	-	8.5	N.D.(4.5)	8.5	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	2	0.061	Immature fish,Mature fish	-	-	-	11	N.D.(0.86)	11	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Gnathopogon elongatus elongatus</i>	Gnathopogon elongatus elongatus	5	0.023	Immature fish,Mature fish	-	-	-	7.5	N.D.(2.1)	7.5	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis biwae</i>	Cobitis biwae	4	0.013	Mature fish	-	-	-	7.9	N.D.(2.8)	7.9	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	73	1.4	Immature fish,Mature fish	-	-	-	13.63	0.63	13	0.19
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Goby	2	0.012	Immature fish	-	-	-	7.3	N.D.(4.3)	7.3	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	<u>Rhinogobius fluviatilis</u>	44	0.066	Immature fish,Mature fish	-	-	-	11	N.D.(3.4)	11	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	Rhinogobius nagoyae										
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius kurodai</i>	Rhinogobius kurodai										
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius sp.</i>	Rhinogobius										
				Vertebrata	Cephalaspidomorphi	Petromyzontiformes	Petromyzontidae	<i>Lethenteron reissneri</i>	Far eastern brook lamprey	3	0.0086	Ammocoetes(larva)	-	-	-	N.D.	N.D.(3.8)	N.D.(3.1)	-
Vertebrata	Amphibia	Anura	Glandirana	<i>Glandirana rugosa</i>	Wrinkled frog	2	0.019	Imago	-	-	-	15	N.D.(5.7)	15	-				
Coarse Particulate Organic Matter	-	-	-	-	-	-	0.23	-	-	-	-	40.3	2.3	38	-				
D-5	The main stream of the Mano River	2020/7/1	Algae/plant	Zygnematophyceae	Zygnematales	Zygnemataceae	<i>Spirogyra sp.</i>	Spirogyra	-	0.32	-	-	-	0.88	N.D.(0.20)	0.88	-		
			Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.42	Mature fish	Obscure digesta	Viscera removed	33.5	1.5	32	-		
			Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.45	Mature fish	Residue,Pebbles	Viscera removed	41.1	2.1	39	-		
			Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	1	0.0099	Immature fish	-	-	-	13	N.D.(5.2)	13	-	
			Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	51	1.6	Immature fish,Mature fish	-	-	-	19.1	1.1	18	0.13	
Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	2	0.042	Immature fish	-	-	-	11	N.D.(1.4)	11	-				

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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	2020/7/1	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.0023	-	-	-	110	N.D.(26)	110	-		
				Arthropoda	Insecta	Ephemeroptera	Isonychiidae	<i>Isonychia valida</i>	<u>Isonychia valida</u>	480	0.011	Larva	-	-	-	109	11	98	-
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<u>Protohermes grandis</u>	21	0.012	Larva	-	-	-	16	N.D.(2.4)	16	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	<u>Common prawn</u>	265	0.22	Imago	-	-	-	15.99	0.99	15	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	<u>Japanese mitten crab</u>	12	0.18	Juvenile	-	-	-	23.8	1.8	22	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	<u>Japanese eel</u>	1	0.071	Immature fish	Empty stomach	Viscera removed	-	24	N.D.(4.0)	24	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	<u>Japanese eel</u>	1	0.15	Immature fish	Far eastern brook lamprey	Viscera removed	-	42.8	2.8	40	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	<u>Japanese eel</u>	1	0.28	Mature fish	Empty stomach	Viscera removed	-	57.0	3.0	54	0.29
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	<u>Japanese fluvial sculpin</u>	11	0.12	Immature fish	-	-	-	14.4	1.4	13	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	<u>Japanese dace</u>	1	0.0075	Immature fish	-	-	-	19	N.D.(16)	19	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	<u>Pale chub</u>	15	0.11	Immature fish, Mature fish	-	-	-	14.73	0.73	14	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus esocinus</i>	<u>Pseudogobio esocinus esocinus</u>	2	0.048	Mature fish	-	-	-	15	N.D.(2.1)	15	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Sarcocheilichthys variegatus variegatus</i>	<u>Sarcocheilichthys variegatus variegatus</u>	1	0.015	Mature fish	-	-	-	12	N.D.(2.3)	12	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	<u>Sweetfish</u>	7	0.097	Immature fish	-	-	-	46.4	2.4	44	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	<u>Rhinogobius fluviatilis</u>	17	0.077	Mature fish	-	-	-	27.5	1.5	26	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<u>Rhinogobius nagoyae</u>										
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	<u>Amur catfish</u>	1	0.38	Mature fish	Empty stomach	Viscera removed	-	49.2	2.2	47	-
				Vertebrata	Cephalaspidomorpha	Petromyzontiformes	Petromyzontidae	<i>Lethenteron reissneri</i>	<u>Far eastern brook lamprey</u>	5	0.012	Ammocoetes(larva)	-	-	-	12	N.D.(8.4)	12	-
			Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.20	-	-	-	168.1	8.1	160	-		

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											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137				
Ota River	F-1	The main stream of the Ota River	2020/7/1	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.0020	-	-	-	140	N.D.(33)	140	-			
				Algae/plant	Zygnematophyceae	Zygnematales	Zygnemataceae	<i>Spirogyra sp.</i>	Spirogyra	-	0.20	-	-	-	26.4	1.4	25	-		
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	71	0.015	Larva(Dragonfly larva)	-	-	-	58	N.D.(3.1)	58	-	
				Arthropoda	Insecta	Odonata	Cordulegastriidae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii											
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	Stylogomphus suzukii											
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae											
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	Asiagomphus melaenops											
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	Boyeria maclachlani											
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Parachauliodes sp.</i>	Parachauliodes	8	0.0041	Larva	-	-	-	37	N.D.(24)	37	-	
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Protohermes grandis											
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	69	0.096	Imago	-	-	-	70.4	3.4	67	-	
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	61	0.011	Juvenile,Imago	-	-	-	59	N.D.(14)	59	-	
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	3	0.086	Juvenile	-	-	-	159.0	9.0	150	-	
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.053	Immature fish	Obscure digesta	Viscera removed	245	15	230	-		
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.15	Mature fish	Obscure digesta	Viscera removed	380	20	360	-		
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.28	Mature fish	Freshwater shrimp	Viscera removed	778	38	740	0.95		
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	2	0.010	Immature fish	-	-	-	116.0	6.0	110	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	17	0.095	Immature fish	-	-	-	116.1	6.1	110	-	
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius fluviatilis	7	0.037	Mature fish	-	-	-	127.2	7.2	120	-	
				Vertebrata	Cephalaspidomorpha	Petromyzontiformes	Petromyzontidae	<i>Lethenteron reissneri</i>	Far eastern brook lamprey	2	0.0059	Ammocoetes(larva)	-	-	-	84	N.D.(5.6)	84	-	
	Vertebrata	Amphibia	Anura	Lithobates	<i>Lithobates catesbeianus</i>	American bullfrog	22	0.13	Larva(Tadpole)	-	-	-	497	27	470	-				
	Vertebrata	Amphibia	Anura	Lithobates	<i>Lithobates catesbeianus</i>	American bullfrog	2	0.58	Imago	-	-	-	95.3	4.3	91	-				
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.23	-	-	-	31.5	1.5	30	-		
	F-3	The main stream of the Ota River	2020/7/1	Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.19	Mature fish	Obscure digesta	Viscera removed	210	10	200	-		
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.35	Mature fish	Obscure digesta	Viscera removed	273	13	260	-		
	F-5	The main stream of the Ota River	2020/7/1	Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.070	Immature fish	Dragonfly(larva)	Viscera removed	33.9	1.9	32	-		
Vertebrata				Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.31	Mature fish	Common prawn	Viscera removed	94.5	4.5	90	-			
Vertebrata				Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.55	Mature fish	Obscure digesta	Viscera removed	87.7	3.7	84	0.40			
Vertebrata				Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus reinii</i>	Sculpin	13	0.23	Immature fish	Protohermes grandis,Oyamia	Viscera removed	73.0	4.0	69	-			
Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	3.6	Mature fish	Obscure digesta	Viscera removed	78.9	3.9	75	1.7			
Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	190	1.3	Immature fish	-	-	-	78.9	3.9	75	0.48					

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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	2020/7/2	Algae/plant	-	-	-	Plankton (Planktonic algae)	-	0.012	-	-	-	16	N.D.(3.1)	16	-										
			2020/6/7	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	1	0.60	Mature fish	Obscure digesta	Viscera removed	127.4	7.4	120	-									
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorfii</i>	1	1.6	Mature fish	Obscure digesta	Viscera removed	28.6	1.6	27	0.84									
			2020/7/2	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus salmoides</i>	Largemouth bass	1	0.086	Immature fish	Fish	Viscera removed	36.2	3.2	33	-									
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	4	2.6	Mature fish	Fish	Viscera removed	116.0	6.0	110	0.81									
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Lepomis macrochirus</i>	Bluegill	5	0.21	Immature fish, Mature fish	Plant piece, Common prawn, Water strider, Ant	Viscera removed	23.3	1.3	22	-									
			2020/6/7	Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	1.3	Mature fish	Bluegill	Viscera removed	146.4	6.4	140	0.68									
	2020/7/2	Vertebrata	Amphibia	Anura	Lithobates	<i>Lithobates catesbeianus</i>	American bullfrog	1	0.0064	Imago	-	-	85.6	5.6	80	-											
	G-4	Inflowing rivers	2020/7/1	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.0024	-	-	-	348	18	330	-										
				Arthropoda	Insecta	Ephemeroptera	Isonychiidae	<i>Isonychia valida</i>	<i>Isonychia valida</i>	275	0.0092	Larva	-	-	68	N.D.(4.2)	68	-									
				Arthropoda	Insecta	Ephemeroptera	Heptageniidae	<i>Ecdyonurus viridis</i>	<i>Ecdyonurus viridis</i>																		
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>	51	0.0046	Larva(Dragonfly larva)	-	-	9.1	N.D.(6.6)	9.1	-									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	<i>Melligomphus viridicostus</i>																		
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	<i>Davidius</i>																		
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	<i>Boyeria maclachlani</i>	9	0.038	Immature fish, Mature fish	-	-	6.6	N.D.(4.8)	6.6	-									
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur minnow																		
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace										56	0.33	Immature fish	-	-	16.77	0.77	16	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub										2	0.020	Immature fish	-	-	45.8	2.8	43	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout										4	0.043	Immature fish	-	-	18	N.D.(1.5)	18	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Lepomis macrochirus</i>	Bluegill										13	0.061	Immature fish	-	-	11	N.D.(3.2)	11	-
Vertebrata				Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius flumineus</i>	Rhinogobius flumineus	11										0.014	Immature fish, Mature fish	-	-	11	N.D.(8.6)	11	-	
Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	2	1.4	Immature fish, Mature fish	Worm										Viscera removed	201	11	190	0.50				
Vertebrata	Amphibia	Anura	-	-	Frog	12	0.0047	Larva(Tadpole)	-										-	110	N.D.(23)	110	-				
Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.19	-	-										-	49.1	2.1	47	-				

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											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137			
Lake Akimoto	H-1 H-2 H-3	In the lake	2020/7/3	Algae/plant	-	-	-	Plankton (Planktonic algae)	-	0.014	-	-	-	2.2	N.D.(2.0)	2.2	-		
			2020/6/17	Arthropoda	Malacostraca	Decapoda	Astacidae	<i>Pacifastacus leniusculus trowbridgii</i>	Signal crayfish	18	0.42	Imago	-	-	20.0	1.0	19	5.9	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	17	3.5	Mature fish	-	-	32.5	1.5	31	0.60	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<u>Carassius auratus langsdorfii</u>	Common carp	5	2.7	Mature fish	Obscure digesta	Viscera removed	33.4	1.4	32	1.2
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	4.1	Mature fish	Obscure digesta	Viscera removed	11.74	0.74	11	0.55	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	3	1.2	Immature fish, Mature fish	Obscure digesta	Viscera removed	32.0	2.0	30	0.99	
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	3	0.43	Mature fish	Japanese smelt, Plant piece, Diptera(imago)	Viscera removed	18.96	0.96	18	-	
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Seema	7	0.80	Immature fish	Fish, Diptera(imago), Terrestrial insect, Ephemera, Plant piece	Viscera removed	13.69	0.69	13	-	
			Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	7	2.1	Immature fish, Mature fish	Plant piece, Common prawn, Ephemeroptera(imago)	Viscera removed	45.3	2.3	43	1.0		
			2020/7/3	Algae/plant	Monocotyledoneae	Alismatales	Hydrocharitaceae	<i>Elodea nuttallii</i>	Western waterweed	-	0.28	-	-	-	6.24	0.44	5.8	-	
	H-3	Inflowing rivers	2020/7/3	Arthropoda	Insecta	Ephemeroptera	Ameletidae	<i>Ameletus sp.</i>	<u>Ameletus</u>	220	0.0096	Larva	-	-	N.D.	N.D.(3.8)	N.D.(3.2)	-	
				Arthropoda	Insecta	Ephemeroptera	Heptageniidae	<i>Epeorus latifolium</i>	<u>Epeorus latifolium</u>										
				Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Drunella trispina</i>	<u>Drunella trispina</u>										
				Arthropoda	Insecta	Plecoptera	Perlidae	<i>Acroneturia sp.</i>	<u>Acroneturia</u>	102	0.025	Larva	-	-	N.D.	N.D.(1.9)	N.D.(1.9)	-	
				Arthropoda	Insecta	Plecoptera	Perlidae	<i>Kamimuria quadrata</i>	<u>Kamimuria quadrata</u>										
				Arthropoda	Insecta	Plecoptera	Perlidae	<i>Calineuria sp.</i>	<u>Calineuria</u>	12	0.0043	Larva	-	-	N.D.	N.D.(7.7)	N.D.(6.9)	-	
			2020/7/1	Arthropoda	Insecta	Odonata	Corduliidae	<i>Somatochlora uchidai</i>	<u>Somatochlora uchidai</u>	15	0.0081	Larva(Dragonfly larva)	-	-	4.9	N.D.(4.8)	4.9	-	
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<u>Anotogaster sieboldii</u>										
				Arthropoda	Insecta	Odonata	Libellulidae	<i>Orthetrum albistylum speciosum</i>	<u>Common skimmer</u>										
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Aeshna juncea</i>	<u>Common hawker</u>										
2020/7/3	Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	27	0.010	Juvenile, Imago	-	-	5.4	N.D.(4.5)	5.4	-				
	Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	29	0.15	Immature fish	-	-	8.1	N.D.(0.39)	8.1	-				
	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	1	0.018	Immature fish	-	-	7.1	N.D.(6.9)	7.1	-				
2020/7/1	Vertebrata	Amphibia	Anura	-	-	Frog	240	0.13	Larva(Tadpole)	-	-	137.3	7.3	130	-				
2020/7/3	Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.22	-	-	-	8.0	N.D.(0.36)	8.0	-				

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											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137			
Lake Inawashiro	I-1 I-2 (north lakeside)	2020/6/12	Within the lake and Nagase River	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	10	1.8	Mature fish	Obscure digesta	Viscera removed	19.91	0.91	19	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<u>Carassius auratus langsdorfii</u>	4	2.0	Mature fish	Obscure digesta	Viscera removed	12	N.D.(1.5)	12	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	1.0	Mature fish	Obscure digesta	Viscera removed	1.8	N.D.(0.66)	1.8	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	3	1.1	Immature fish, Mature fish	Obscure digesta	Viscera removed	36.5	2.5	34	-	
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	2	2.2	Mature fish	Obscure digesta	Viscera removed	41.3	2.3	39	0.12	
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus mykiss</i>	Rainbow trout	1	0.88	Mature fish	Midge	Viscera removed	20.1	1.1	19	-	
				Vertebrata	Osteichthyes	Perciformes	Actinopterygii	<i>Channa argus</i>	Snakehead	1	1.1	Immature fish	Carassius, Fish residue	Viscera removed	14.2	1.2	13	0.40	
			2020/7/1		Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.12	-	-	-	N.D.	N.D.(1.3)	N.D.(1.2)	-
			2020/7/3		Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.0085	-	-	-	N.D.	N.D.(3.9)	N.D.(3.4)	-
		J-1 (south lakeside)	2020/7/1	Within the lake and around the Oninuma	Algae/plant	Dicotyledoneae	Nymphaeales	Nymphaeaceae	<i>Nuphar japonicum</i>	Cow lily	-	0.28	-	-	-	0.57	N.D.(0.23)	0.57	-
	Arthropoda				Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	1820	1.2	Juvenile, Imago	-	-	-	6.3	N.D.(0.56)	6.3	0.80
	Mollusca				Gastropoda	Architaenioglossa	Viviparidae	<i>Cipangopaludina japonica</i>	Japanese mysterysnail	30	0.095	Juvenile, Imago	-	-	Molluscos part	6.3	N.D.(0.65)	6.3	-
	Mollusca				Gastropoda	Architaenioglossa	Viviparidae	<i>Cipangopaludina chinensis laeta</i>	Mud-snail	20	0.028	Juvenile, Imago	-	-	Molluscos part	1.8	N.D.(1.7)	1.8	-
	Mollusca				Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	Semisulcospira libertina	21	0.019	Imago	-	-	Molluscos part	1.8	N.D.(2.0)	1.8	-
	Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	7	0.087	Immature fish, Mature fish	-	-	-	8.6	N.D.(1.1)	8.6	-
	Vertebrata				Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	22	0.031	Immature fish, Mature fish	-	-	-	2.1	N.D.(2.0)	2.1	-
	Vertebrata				Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Goby	48	0.11	Immature fish	-	-	-	14	N.D.(2.2)	14	-
	Vertebrata				Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius kurodai</i>	Rhinogobius kurodai	17	0.0082	Immature fish, Mature fish	-	-	-	8.4	N.D.(3.6)	8.4	-
	Vertebrata				Amphibia	Anura	-	-	-	158	0.075	Larva(Tadpole)	-	-	-	20	N.D.(0.81)	20	-
Vertebrata	Amphibia				Anura	Glandirana	<i>Glandirana rugosa</i>	Wrinkled frog	5	0.059	Imago	-	-	-	N.D.	N.D.(1.1)	N.D.(1.2)	-	
Vertebrata	Amphibia				Caudata	Salamandridae	<i>Cynops pyrrhogaster</i>	Cynops pyrrhogaster	23	0.12	Imago	-	-	-	1.1	N.D.(0.51)	1.1	-	

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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	2020/7/4	Arthropoda	Malacostraca	Decapoda	Portunidae	<i>Portunus trituberculatus</i>	Japanese blue crab	2	0.54	Imago	-	-	0.33	N.D.(0.33)	0.33	-
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Pleuronectes yokohamae</i>	Marbled sole	1	0.11	Immature fish	Obscure digesta	Viscera removed	N.D.	N.D.(0.52)	N.D.(0.51)	-
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Eopsetta grigorjewi</i>	Shotted halibut	3	0.41	Immature fish	Obscure digesta	Viscera removed	N.D.	N.D.(0.31)	N.D.(0.31)	-
				Vertebrata	Osteichthyes	Perciformes	Sparidae	<i>Pagrus major</i>	Red seabream	1	1.4	Mature fish	Empty stomach	Viscera removed	1.3	N.D.(0.33)	1.3	0.030
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Acanthogobius flavimanus</i>	Yellowfin Goby	8	0.13	Immature fish, Mature fish	-	-	1.2	N.D.(0.50)	1.2	-
Off Soma City	L-1 L-2 L-3	Matsukawaura Lagoon	2020/7/4	Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Hemigrapsus sp.</i>	Hemigrapsus	32	0.037	Juvenile, Imago	-	-	1.3	N.D.(1.3)	1.3	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Acanthogobius flavimanus</i>	Yellowfin Goby	6	0.13	Mature fish	-	-	0.95	N.D.(0.56)	0.95	-
				Vertebrata	Osteichthyes	Perciformes	Mugilidae	<i>Mugil cephalus cephalus</i>	Flathead mullet	106	0.31	Immature fish	-	-	11.53	0.53	11	-
				Vertebrata	Osteichthyes	Tetraodontiformes	Tetraodontidae	<i>Takifugu niphobles</i>	Takifugu niphobles	1	0.052	Mature fish	Crab	Viscera removed	N.D.	N.D.(1.3)	N.D.(1.2)	-
Off Iwaki City	M-1 M-2 M-3	Offshore of Hisanohama	2020/7/14	Echinodermata	Asteroidea	Forcipulatida	Asteriidae	<i>Asterias amurensis</i>	Northern pacific seastar	2	0.98	Imago	-	-	N.D.	N.D.(0.42)	N.D.(0.38)	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Triglidae	<i>Lepidotrigla microptera</i>	Searobin	6	1.1	Immature fish, Mature fish	Amphipod, Shrimp	Viscera removed	0.61	N.D.(0.32)	0.61	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Triglidae	<i>Chelidonichthys spinosus</i>	Gurnard	1	0.19	Mature fish	Amphipod, Fish	Viscera removed	0.64	N.D.(0.88)	0.64	-
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Pleuronichthys japonicus</i>	Finespotted flounder	9	1.1	Immature fish, Mature fish	Ragworm	Viscera removed	0.63	N.D.(0.45)	0.63	-
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Pleuronectes herzensteini</i>	Yellow striped flounder	1	0.43	Mature fish	Shrimp	Viscera removed	0.86	N.D.(0.35)	0.86	-
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Pleuronectes yokohamae</i>	Marbled sole	1	0.51	Mature fish	Empty stomach	Viscera removed	0.87	N.D.(0.41)	0.87	-
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Eopsetta grigorjewi</i>	Shotted halibut	4	1.1	Immature fish	Shrimp, Crab	Viscera removed	1.3	N.D.(0.50)	1.3	N.D.(0.019)
				Vertebrata	Osteichthyes	Pleuronectiformes	Paralichthyidae	<i>Paralichthys olivaceus</i>	Bastard halibut	1	2.6	Mature fish	Fish	Viscera removed	1.1	N.D.(0.32)	1.1	-
				Vertebrata	Osteichthyes	Perciformes	Sparidae	<i>Pagrus major</i>	Red seabream	1	1.2	Mature fish	Shellfish	Viscera removed	0.58	N.D.(0.57)	0.58	N.D.(0.020)
				Vertebrata	Osteichthyes	Tetraodontiformes	Tetraodontidae	<i>Takifugu snyderi</i>	Obscure puffer	2	0.71	Immature fish	Shellfish, Sea urchin	Viscera removed	0.72	N.D.(0.42)	0.72	-
				Vertebrata	Osteichthyes	Zeiformes	Zeidae	<i>Zeus faber</i>	John dory	3	1.1	Immature fish, Mature fish	Fish, Squid	Viscera removed	N.D.	N.D.(0.47)	N.D.(0.41)	N.D.(0.025)
Vertebrata	Chondrichthyes	Rajiformes	Rajidae	<i>Okamejei kenojei</i>	Common skate	2	1.8	Immature fish	Crab, Shrimp, Squid	Viscera removed	1.3	N.D.(0.31)	1.3	0.045				

*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.