

○ Results (water)

Locations				2019 October - November 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°	7.6	1.2	3.0	10.5	16.1	0.08	1.3	6	4.4	N.D.(0.0014)	0.010	0.00099
	A-1(Bottom layer)	37.6210°	140.5218°	7.5	1.3	3.2	10.8	16.2	0.08	1.3	7	4.5	N.D.(0.0015)	0.0078	-
	A-2	37.5673°	140.3946°	7.4	0.7	1.8	11.3	9.0	0.05	0.6	2	1.2	N.D.(0.0014)	0.0057	-
	B-2	37.8121°	140.5058°	7.5	1.0	2.6	10.7	15.7	0.08	1.2	7	5.1	N.D.(0.0015)	0.0078	-
	B-3	37.8182°	140.4679°	7.5	0.7	3.0	11.1	9.1	0.05	1.3	6	6.3	N.D.(0.0015)	0.013	-
Uda River	C-6	37.7764°	140.8877°	7.5	<0.5	1.7	10.9	9.8	0.05	0.9	2	3.6	N.D.(0.0015)	0.019	0.0010
Mano River	D-4 a	37.7308°	140.9081°	7.4	<0.5	3.3	10.9	7.9	0.04	1.6	13	26.5	0.011	0.14	0.0013
Niida River	E-2 a	37.6640°	140.9447°	7.3	<0.5	1.7	11.1	6.6	0.04	0.8	2	2.3	0.0015	0.019	0.0021
Ota River	F-1	37.5975°	140.9252°	7.5	<0.5	3.7	11.6	3.9	0.03	1.3	17	24.0	0.034	0.48	0.0041
Lake Hayama (Mano Dam)	G-2(Surface layer)	37.7267°	140.8223°	7.2	0.5	4.8	9.3	5.8	0.03	2.5	25	42.9	0.018	0.24	-
	G-2(Bottom layer)	37.7267°	140.8223°	7.2	<0.5	4.8	8.9	5.9	0.03	2.4	28	43.6	0.013	0.18	0.0013
	G-4	37.7382°	140.8035°	7.4	<0.5	1.7	10.7	6.7	0.04	1.1	2	1.1	N.D.(0.0015)	0.010	-
Lake Akimoto	H-1(Surface layer)	37.6575°	140.1264°	7.1	1.3	5.4	8.8	4.5	0.03	2.8	6	9.4	N.D.(0.0017)	0.029	-
	H-1(Bottom layer)	37.6575°	140.1264°	6.9	0.9	6.1	8.4	4.5	0.03	2.9	11	12.4	0.0021	0.034	0.0013
Lake Inawashiro	J-1(Surface layer)	37.4203°	140.1008°	6.6	<0.5	1.5	9.7	11.5	0.06	0.9	2	1.5	N.D.(0.0014)	0.0058	-
	J-1(Bottom layer)	37.4203°	140.1008°	6.7	0.9	2.4	9.5	11.6	0.06	1.3	2	1.9	N.D.(0.0015)	0.0062	0.00084
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°	8.0	<0.5	2.0	8.7	4750	31.82	1.0	2	1.2	N.D.(0.0015)	0.0057	-
	K-3(Bottom layer)	38.0458°	140.9518°	8.0	<0.5	1.5	8.8	4960	33.31	0.9	2	0.7	N.D.(0.0015)	0.0036	0.00076
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	8.0	<0.5	2.4	8.6	4240	31.39	1.1	7	7.4	0.0015	0.023	0.0010
Off Iwaki City (Hisanohama)	M-2(Surface layer)	37.1996°	141.0853°	8.1	<0.5	2.0	8.9	4810	32.25	1.0	2	0.9	0.0022	0.021	-
	M-2(Bottom layer)	37.1996°	141.0853°	8.1	<0.5	1.6	8.4	5000	33.69	0.9	<1	0.3	N.D.(0.0016)	0.0029	0.00093

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

○ Results (sediments)

Locations			2019 October - November Survey																	
Location Name	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°	7.3	451	23.9	1.6	2.1	2.728	0.1	1.7	72.2	12.4	6.0	7.6	0.36	4.8	5.7	91	N.D.(0.14)
	A-2	37.5673°	140.3946°	7.2	468	20.6	1.8	2.6	2.712	28.6	43.3	23.5	2.5	2.1		1.3	9.5	8.0	100	-
	B-2	37.8121°	140.5058°	7.3	435	26.2	2.0	2.2	2.716	0.0	0.7	45.6	48.1	2.4	3.2	0.24	4.8	5.8	94	-
	B-3	37.8182°	140.4679°	7.4	455	27.6	2.4	2.1	2.714	2.8	19.6	55.1	13.8	4.3	4.4	0.48	4.8	8.6	110	-
Uda River	C-6	37.7764°	140.8877°	7.6	512	16.5	0.8	4.1	2.702	27.4	49.2	22.5	0.7	0.2		1.4	9.5	3.1	40	0.17
Mano River	D-4 a	37.7308°	140.9081°	7.2	530	16.4	1.7	2.2	2.725	48.8	24.7	17.7	7.4	1.4		2.0	9.5	12	160	0.94
Niida River	E-2 a	37.6640°	140.9447°	7.4	530	18.5	0.7	1.3	2.661	4.8	74.4	20.2	0.3	0.3		1.1	4.8	7.7	100	0.19
Ota River	F-1	37.5975°	140.9252°	6.9	463	21.2	1.4	3.4	2.670	7.8	22.7	43.5	19.6	2.8	3.6	0.48	9.5	15	230	0.71
Lake Hayama (Mano Dam)	G-2	37.7267°	140.8223°	7.0	430	60.2	7.4	18.8	2.589	1.9	3.6	12.2	25.1	32.2	25.0	0.051	9.5	250	3700	2.0
	G-4	37.7382°	140.8035°	7.4	514	32.8	3.5	2.0	2.717	7.9	6.5	40.0	32.3	8.2	5.1	0.27	9.5	35	490	-
Lake Akimoto	H-1	37.6575°	140.1264°	6.7	331	68.4	10.2	27.2	2.553	5.3	0.0	0.1	0.4	53.0	41.2	0.0074	9.5	45	650	1.2
Lake Inawashiro	J-1	37.4203°	140.1008°	6.4	558	24.9	1.1	2.0	2.758	0.0	1.0	65.9	29.4	1.3	2.4	0.30	2.0	2.1	35	0.15
Off the mouth of the Abukuma River (Sea Area in front of the mouth of the Abukuma River)	K-3	38.0458°	140.9518°	7.8	366	42.5	4.5	8.1	2.697	0.0	0.1	0.1	41.0	40.6	18.2	0.059	4.8	15	180	N.D.(0.13)
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	7.8	377	22.2	1.0	1.8	2.728	0.4	2.9	69.8	23.1	1.3	2.5	0.33	4.8	0.72	13	N.D.(0.14)
Off Iwaki City (Hisanohama)	M-2	37.1996°	141.0853°	7.9	420	25.9	1.8	1.5	2.762	0.0	0.6	4.4	90.6	1.8	2.6	0.16	2.0	0.92	19	N.D.(0.12)

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	2019/10/16	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbatus</i>	Hemibarbus barbatus	1	2.1	Mature fish	Obscure digesta	Viscera removed	6.48	0.58	5.9	0.32
			Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	2	1.2	Mature fish	Red swamp crawfish	Viscera removed	8.62	0.72	7.9	0.23
			Vertebrata	Osteichthyes	Siluriformes	Ictaluridae	<i>Ictalurus punctatus</i>	Channel catfish	5	2.4	Immature fish	Frog, Red swamp crawfish, Worm, Millipede, Oriental weatherfish, Hairworm, Cicada (larva), Dragon fly (larva), Terrestrial insect, Aquatic insect	Viscera removed	11.77	0.77	11	0.21
			Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	0.64	Mature fish	Fish	Viscera removed	6.47	0.37	6.1	-
	A-2 Harase River	2019/10/18	Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	92	0.044	Larva (Dragonfly larva)	-	-	3.2	N.D.(1.3)	3.2	-
			Arthropoda	Insecta	Odonata	Cordulegasteridae	<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 sp.</i>	<i>Davidius</i>									
			Arthropoda	Malacostraca	Decapoda	Potamidae	<i>Geothelphusa dehaani</i>	Japanese freshwater crab	9	0.012	Juvenile	-	-	6.4	N.D.(2.7)	6.4	-
			Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Neocaridina sp.</i>	Neocaridina	335	0.12	Juvenile	-	-	13.74	0.74	13	-
			Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	<i>Semisulcospira libertina</i>	30	0.020	Imago	-	Molluscos part	14	N.D.(2.4)	14	-
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur minnow	150	0.45	Immature fish, Mature fish	-	-	6.51	0.51	6.0	-
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	140	0.97	Immature fish	-	-	7.52	0.42	7.1	-
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus esocinus</i>	<i>Pseudogobio esocinus esocinus</i>	2	0.0069	Immature fish	-	-	7.2	N.D.(6.3)	7.2	-
			Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.25	-	-	-	38.4	2.4	36	-
	B-2 The main stream of the Abukuma River	2019/11/6	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	8	0.23	Mature fish	Obscure digesta	Viscera removed	8.47	0.57	7.9	0.25
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbatus</i>	Hemibarbus barbatus	3	4.7	Mature fish	Obscure digesta	Viscera removed	5.7	N.D.(0.33)	5.7	0.31
			Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus keta</i>	Salmon	1	2.1	Mature fish	Empty stomach	Viscera removed	N.D.	N.D.(0.30)	N.D.(0.32)	N.D.(0.017)
			Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	11	3.4	Immature fish, Mature fish	Ephoron shigae, Fish	Viscera removed	15.92	0.92	15	0.23
			Vertebrata	Osteichthyes	Siluriformes	Ictaluridae	<i>Ictalurus punctatus</i>	Channel catfish	6	2.3	Immature fish	Red swamp crawfish, Ephoron shigae	Viscera removed	8.81	0.51	8.3	0.19
			Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	2	0.59	Mature fish	Japanese mitten Crab	Viscera removed	6.57	0.47	6.1	-
	B-3 Surikami River	2019/10/18	Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	72	0.015	Larva	-	-	10	N.D.(3.3)	10	-
			Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	89	0.037	Larva (Dragonfly larva)	-	-	2.6	N.D.(1.2)	2.6	-
			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>									
Vertebrata			Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	24	0.29	Immature fish	Japanese fluvial sculpin, Plant pieces, Rhinogobius, Oriental weatherfish, Stenopsyche marmorata, Diptera, Midge, Kamimuria tibialis	Viscera removed	3.6	N.D.(0.37)	3.6	-	
Vertebrata			Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	1	0.033	Mature fish	-	-	5.3	N.D.(1.9)	5.3	-	
Vertebrata			Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	4	0.030	Immature fish	-	-	5.4	N.D.(2.0)	5.4	-	
Vertebrata			Osteichthyes	Cypriniformes	Cyprinidae	<i>Gnathopogon elongatus elongatus</i>	<i>Gnathopogon elongatus elongatus</i>	1	0.0052	Mature fish	-	-	8.8	N.D.(7.8)	8.8	-	
Vertebrata			Osteichthyes	Cypriniformes	Cobitidae	<i>Nemacheilus toni</i>	Stone loach	66	0.61	Immature fish	-	-	3.6	N.D.(0.34)	3.6	-	
Vertebrata			Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Seema	1	1.5	Mature fish	Empty stomach	Viscera removed	N.D.	N.D.(0.29)	N.D.(0.27)	-	
Vertebrata			Osteichthyes	Siluriformes	Bagridae	<i>Tachysurus tokiensis</i>	Cut-tailed bullhead	3	0.027	Immature fish, Mature fish	-	-	4.0	N.D.(2.1)	4.0	-	
Vertebrata	Amphibia	Anura	Glandirana	<i>Glandirana rugosa</i>	Wrinkled frog	3	0.023	Imago	-	-	5.7	N.D.(2.1)	5.7	-			
Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.25	-	-	-	26.9	1.9	25	-			

*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	2019/10/21	Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Protohermes grandis	68	0.041	Larva	-	-	2.6	N.D.(1.4)	2.6	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	13	0.51	Juvenile	-	-	12.81	0.81	12	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.048	Immature fish	Obscure digesta	Viscera removed	4.4	N.D.(1.4)	4.4	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus reinii</i>	Sculpin	2	0.013	Immature fish	Protohermes	Viscera removed	8.1	N.D.(2.7)	8.1	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	40	0.13	Immature fish	-	-	8.06	0.66	7.4	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	318	1.6	Immature fish, Mature fish	-	-	5.1	N.D.(0.29)	5.1	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	57	0.48	Immature fish, Mature fish	-	-	7.44	0.44	7.0	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	0.014	Immature fish	-	-	54	N.D.(3.8)	54	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus keta</i>	Salmon	2	5.4	Mature fish	Empty stomach	Viscera removed	N.D.	N.D.(0.46)	N.D.(0.23)	N.D.(0.016)
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius fluviatilis	48	0.13	Mature fish	-	-	9.49	0.79	8.7	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<u>Rhinogobius nagoyae</u>									
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius sp.</i>	Rhinogobius									
			Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.22	-	-	-	7.6	N.D.(0.45)	7.6	-	
Mano River	D-3	The main stream of the Mano River	2019/11/3	Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus reinii</i>	Sculpin	1	0.030	Immature fish	-	-	9.6	N.D.(4.9)	9.6	-
			2019/11/5	Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	109	2.7	Immature fish, Mature fish	-	-	24.8	1.8	23	0.18
	D-4 b	The main stream of the Mano River	2019/11/2	Algae/plant	Monocotyledoneae	Najadales	Potamogetonaceae	<i>Potamogeton berchtoldii</i>	Small pondweed	-	0.11	-	-	-	16.2	1.2	15	-
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Protohermes grandis	29	0.013	Larva	-	-	13	N.D.(6.9)	13	-
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	4	0.11	Imago	-	-	43.5	2.5	41	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus keta</i>	Salmon	1	2.0	Mature fish	-	-	N.D.	N.D.(0.82)	N.D.(0.90)	N.D.(0.018)
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius fluviatilis	13	0.036	Mature fish	-	-	23	N.D.(2.5)	23	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<u>Rhinogobius nagoyae</u>									
Vertebrata	Amphibia	Anura	Ranidae	<i>Rana japonica</i>	Japanese brown frog	3	0.036	Imago	-	-	6.1	N.D.(3.9)	6.1	-				
			Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.23	-	-	-	25.0	2.0	23	-	
D-5	The main stream of the Mano River	2019/11/3	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	2	0.12	Immature fish, Mature fish	Empty stomach	Viscera removed	394	24	370	-	

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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	2019/10/16	Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	67	0.022	Larva(Dragonfly larva)	-	-	17	N.D.(1.5)	17	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	Stylogomphus suzukii									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	Melligomphus viridicostus									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	Davidius									
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	Asiagomphus melaenops									
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	Boyeria maclachlani	32	0.015	Larva	-	-	20	N.D.(6.1)	20	-
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Protohermes grandis									
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	2	0.011	Immature fish	-	-	25	N.D.(8.5)	25	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	171	1.1	Immature fish,Mature fish	-	-	29.9	1.9	28	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus esocinus</i>	Pseudogobio esocinus esocinus	12	0.22	Immature fish,Mature fish	-	-	20.1	1.1	19	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Sarcocheilichthys variegatus variegatus</i>	Sarcocheilichthys variegatus variegatus	2	0.026	Immature fish,Mature fish	-	-	15	N.D.(5.2)	15	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	3	0.032	Immature fish,Mature fish	-	-	33.4	2.4	31	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Gnathopogon elongatus elongatus</i>	Gnathopogon elongatus elongatus	7	0.019	Immature fish	-	-	27	N.D.(6.6)	27	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	1	1.9	Mature fish	Empty stomach	Viscera removed	47.0	3.0	44	1.2
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus keta</i>	Salmon	1	3.6	Mature fish	Empty stomach	Viscera removed	N.D.	N.D.(0.33)	N.D.(0.34)	0.040
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius fluviatilis	20	0.062	Immature fish,Mature fish	-	-	30.5	3.5	27	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	Rhinogobius nagoyae									
				Vertebrata	Cephalaspidomorphi	Petromyzontiformes	Petromyzontidae	<i>Lethenteron reissneri</i>	Far eastern brook lamprey	15	0.048	Ammocoetes(larva)/Mature fish	-	-	8.5	N.D.(3.0)	8.5	-
			Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.23	-	-	-	160	10	150	-	
Ota River	F-1	The main stream of the Ota River	2019/11/3	Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	2	0.0079	Juvenile	-	-	385	25	360	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	4	0.074	Immature fish	-	-	392	22	370	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	1	0.020	Immature fish	-	-	423	33	390	-
				Vertebrata	Amphibia	Anura	Ranidae	<i>Rana japonica</i>	Japanese brown frog	2	0.034	Imago	-	-	30.0	2.0	28	-
							Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.23	-	-	-	169.1
	F-3	The main stream of the Ota River	2019/11/3	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorfii	1	0.066	Mature fish	Obscure digesta	Viscera removed	163	13	150	-
		The main stream of the Ota River	2019/11/3	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	0.066	Immature fish	Obscure digesta	Viscera removed	148.6	8.6	140	-
F-5	The main stream of the Ota River	2019/11/3	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus keta</i>	Salmon	1	3.2	Mature fish	Empty stomach	Viscera removed	N.D.	N.D.(0.33)	N.D.(0.28)	0.045	

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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	2019/10/20	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	1	0.072	Mature fish	Obscure digesta	Viscera removed	288	18	270	-
			2019/11/5	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	2	0.20	Immature fish	Obscure digesta	Viscera removed	42.2	3.2	39	-
		Vertebrata		Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	1	0.019	Immature fish	-	-	40	N.D.(6.7)	40	-	
		Vertebrata		Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus salmoides</i>	Largemouth bass	6	0.26	Immature fish	Japanese smelt	Viscera removed	33.0	2.0	31	-	
		Vertebrata		Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	3	1.9	Immature fish, Mature fish	Obscure digesta	Viscera removed	106.9	7.9	99	0.55	
	G-4	Inflowing rivers	2019/10/20	Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<u>Protohermes grandis</u>	33	0.028	Larva	-	-	8.2	N.D.(3.8)	8.2	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	290	2.1	Immature fish	-	-	22.6	1.6	21	0.33
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	6	0.078	Immature fish	-	-	51.5	3.5	48	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	<u>Rhinogobius fluviatilis</u>	20	0.029	Immature fish, Mature fish	-	-	24	N.D.(5.5)	24	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius flumineus</i>	<u>Rhinogobius flumineus</u>									
				Vertebrata	Amphibia	Anura	Ranidae	<i>Rana ornativentris</i>	Montane brown frog	3	0.053	Imago	-	-	75.1	4.1	71	-
				Vertebrata	Amphibia	Anura	Lithobates	<i>Lithobates catesbeianus</i>	<u>American bullfrog</u>									
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.23	-	-	-	31.5	2.5	29	-
Lake Akimoto	H-1 H-2 H-3	In the lake	2019/10/23	Arthropoda	Malacostraca	Decapoda	Astacidae	<i>Pacifastacus leniusculus trowbridgii</i>	Signal crayfish	12	0.43	Imago	-	-	14.84	0.84	14	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	10	1.6	Mature fish	Obscure digesta	Viscera removed	19.3	1.3	18	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<u>Carassius auratus langsdorfi</u>	6	1.3	Mature fish	Obscure digesta	Viscera removed	30.6	2.6	28	1.1
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Hypomesus nipponensis</i>	Japanese smelt	68	0.15	Immature fish, Mature fish	-	-	3.7	N.D.(0.50)	3.7	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	3	0.71	Mature fish	Japanese smelt	Viscera removed	22.4	1.4	21	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	11	2.5	Immature fish, Mature fish	Fish	Viscera removed	26.3	1.3	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		
Lake Inawashiro	I-1 I-2 (north lakeside)	2019/10/18	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	1	0.42	Mature fish	Obscure digesta	Viscera removed	13.98	0.98	13	-	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Acheilognathus tabira tohokuensis</i>	<i>Acheilognathus tabira tohokuensis</i>	128	0.23	Immature fish,Mature fish	-	-	3.7	N.D.(0.69)	3.7	-	
		2019/10/22	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorffii</i>	1138	0.95	Immature fish,Mature fish	-	-	5.9	N.D.(1.1)	5.9	0.25	
		2019/10/18	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	0.011	Immature fish	-	-	5.8	N.D.(4.7)	5.8	-	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Gnathopogon elongatus elongatus</i>	<i>Gnathopogon elongatus elongatus</i>	417	1.3	Immature fish,Mature fish	-	-	3.5	N.D.(0.62)	3.5	-	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudorasbora parva</i>	Stone moroko	160	0.47	Mature fish	-	-	2.8	N.D.(0.53)	2.8	-	
			Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus salmoides</i>	Largemouth bass	1	0.043	Immature fish	Fish,Common prawn	Viscera removed	16	N.D.(3.7)	16	-	
			Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Goby	42	0.15	Immature fish	-	-	5.1	N.D.(0.72)	5.1	-	
	Vertebrata		Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	1.1	Mature fish	Carassius	Viscera removed	17.2	1.2	16	-		
		Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.22	-	-	-	3.7	N.D.(0.75)	3.7	-		
	J-1 (south lakeside)	Within the lake and around the Oninuma	2019/10/17	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur minnow	15	0.082	Immature fish,Mature fish	-	-	N.D.	N.D.(0.80)	N.D.(0.98)	-
			2019/10/18	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	30	0.22	Immature fish,Mature fish	Obscure digesta	Viscera removed	24.5	1.5	23	-
			2019/10/17	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	84	1.1	Immature fish,Mature fish	-	-	1.6	N.D.(0.31)	1.6	0.16
			2019/10/18	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	17	0.12	Immature fish,Mature fish	-	-	7.5	N.D.(0.66)	7.5	-
			2019/10/17	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	205	2.1	Mature fish	-	-	6.72	0.42	6.3	0.27
			2019/10/18	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorffii</i>	2	0.29	Mature fish	Obscure digesta	Viscera removed	25.6	1.6	24	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	0.039	Immature fish	-	-	3.2	N.D.(1.5)	3.2	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Gnathopogon elongatus elongatus</i>	<i>Gnathopogon elongatus elongatus</i>	20	0.066	Immature fish	-	-	6.2	N.D.(0.85)	6.2	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	2	1.7	Mature fish	Corbicula,Common prawn,Radix,Plant pieces	Viscera removed	30.2	2.2	28	-
			2019/10/17	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudorasbora parva</i>	Stone moroko	9	0.027	Mature fish	-	-	4.1	N.D.(1.3)	4.1	-
			2019/10/17	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudorasbora parva</i>	Stone moroko	5	0.029	Mature fish	-	-	1.3	N.D.(1.6)	1.3	-
			2019/10/18	Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Hypomesus nipponensis</i>	Japanese smelt	17	0.087	Mature fish	-	-	6.1	N.D.(0.75)	6.1	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	3	4.9	Mature fish	Empty stomach	Viscera removed	61.7	3.7	58	0.088
			2019/10/17	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	5	0.16	Immature fish	Rhinogobius,Ephemeroptera,Stenopsyche marmorata,Japanese freshwater crab,Millipede,Rhinogobius,Terrestrial insect	Viscera removed	1.2	N.D.(0.42)	1.2	-
			2019/10/18	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	12	8.9	Immature fish,Mature fish	Fish,Protohermes	Viscera removed	41.5	2.5	39	0.21
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Lepomis macrochirus</i>	Bluegill	2	0.068	Immature fish	Spiders,Terrestrial insect,Dytiscidae,Dragonfly(larva)	Viscera removed	11	N.D.(0.91)	11	-
	2019/10/17	Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius flumineus</i>	Rhinogobius flumineus	25	0.012	Immature fish,Mature fish	-	-	2.3	N.D.(2.3)	2.3	-		

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												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	2019/10/19	Vertebrata	Osteichthyes	Scorpaeniformes	Scorpaenidae	<i>Sebastes cheni</i>	Rockfish	2	0.32	Immature fish	Empty stomach	Viscera removed	0.50	N.D.(0.44)	0.50	-
				Vertebrata	Osteichthyes	Perciformes	Sparidae	<i>Eynnys japonica</i>	Crimson sea-bream	2	0.67	Immature fish	Brittle star	Viscera removed	N.D.	N.D.(0.36)	N.D.(0.33)	-
				Vertebrata	Osteichthyes	Perciformes	Sciaenidae	<i>Nibe mitsukurii</i>	Nibe croaker	1	0.33	Mature fish	Gobiidae	Viscera removed	0.68	N.D.(0.36)	0.68	-
Off Soma City	L-1 L-2 L-3	Matsukawaaura Lagoon	2019/10/16	Mollusca	Bivalvia	Ostreoida	Ostreidae	<i>Crassostrea gigas</i>	Oyster	11	0.23	Imago	-	Molluscos part	0.50	N.D.(0.30)	0.50	-
			2019/10/21	Vertebrata	Osteichthyes	Scorpaeniformes	Hexagrammidae	<i>Hexagrammos otakii</i>	Fat greenling	1	0.087	Immature fish	Obscure digesta	Viscera removed	1.1	N.D.(0.61)	1.1	-
			2019/10/19	Vertebrata	Osteichthyes	Perciformes	Sparidae	<i>Acanthopagrus schlegelii</i>	Japanese black porgy	11	0.33	Immature fish	Obscure digesta	Viscera removed	1.3	N.D.(0.37)	1.3	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Acanthogobius flavimanus</i>	Yellowfin Goby	80	1.5	Immature fish, Mature fish	-	-	1.8	N.D.(0.35)	1.8	N.D.(0.016)
Off Iwaki City	M-1 M-2 M-3	Offshore of Hisanohama	2019/11/2	Mollusca	Cephalopoda	Decapodiformes	Sepiidae	<i>Sepia andreana</i>	Sepia andreana	3	0.044	Juvenile	-	-	N.D.	N.D.(1.3)	N.D.(1.1)	-
				Echinodermata	Asteroidea	Forcipulata	Asteriidae	<i>Asterias amurensis</i>	Northern pacific seastar	2	0.27	Imago	-	-	0.35	N.D.(0.42)	0.35	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Triglidae	<i>Chelidonichthys spinosus</i>	Gurnard	5	1.3	Mature fish	Fish, Mantis shrimp, Shrimp, Rag worm	Viscera removed	0.77	N.D.(0.36)	0.77	N.D.(0.017)
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Kareius bicoloratus</i>	Stone flounder	1	0.55	Immature fish	Ragworm	Viscera removed	0.51	N.D.(0.30)	0.51	-
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Pleuronichthys japonicus</i>	Finespotted flounder	3	0.54	Mature fish	Empty stomach	Viscera removed	0.79	N.D.(0.31)	0.79	-
				Vertebrata	Osteichthyes	Perciformes	Sparidae	<i>Eynnys japonica</i>	Crimson sea-bream	4	0.99	Immature fish, Mature fish	Empty stomach	Viscera removed	0.51	N.D.(0.35)	0.51	-
	M-4	Hisanohama Coastal areas	2019/10/22	Mollusca	Gastropoda	Archaeogastropoda	Haliotidae	<i>Haliotis sp.</i>	Abalone	4	0.26	Imago	-	Molluscos part	0.35	N.D.(0.37)	0.35	-
Vertebrata				Osteichthyes	Tetraodontiformes	Tetraodontidae	<i>Takifugu snyderi</i>	Obscure puffer	19	0.35	Immature fish	Ragworm	Viscera removed	1.2	N.D.(0.50)	1.2	-	

*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.