

○ Results (water)

Location				FY2014 October-November Survey											
		Latitude	Longitude	pH	BOD (mg/L)	COD (mg/L)	DO (mg/L)	Electrical 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)	37.6209°	140.5220°	7.6	0.7	2.9	10.4	15.5	0.08	1.2	5	3.5	0.0050	0.014	0.0012
	A-1 (Deep layer)			7.7	0.8	2.5	10.1	15.9	0.08	1.3	6	3.5	0.0050	0.017	-
	A-2	37.5655°	140.3943°	7.5	<0.5	1.9	10.2	10.6	0.05	1.0	1	1.6	0.0090	0.026	-
	B-1	37.7847°	140.4921°	7.7	0.7	2.4	10.0	15.8	0.08	1.2	6	3.7	0.0072	0.020	-
	B-2	37.8120°	140.5058°	7.6	0.6	2.1	10.1	13.5	0.07	1.1	3	3.2	0.0040	0.016	-
	B-3	37.8164°	140.4719°	7.5	<0.5	2.1	11.0	9.0	0.05	1.1	2	1.6	0.0063	0.017	-
Uda River	C-1	37.7956°	140.7457°	7.4	0.5	3.7	10.2	8.2	0.05	1.4	3	1.4	0.020	0.056	-
	C-2	37.7710°	140.7277°	7.1	1.0	7.2	8.8	9.2	0.05	3.3	12	7.5	0.071	0.21	-
	C-3	37.7791°	140.8041°	7.5	0.7	4.1	10.6	8.0	0.05	1.6	10	7.8	0.066	0.19	-
	C-4	37.7693°	140.8442°	7.6	<0.5	3.2	10.6	7.7	0.04	1.2	3	1.9	0.029	0.091	0.0010
	C-5	37.7645°	140.8604°	7.7	<0.5	3.3	10.4	7.9	0.04	1.3	4	3.3	0.022	0.064	-
	C-6	37.7764°	140.8876°	7.7	<0.5	2.9	9.9	8.7	0.05	1.3	3	2.3	0.014	0.045	-
Mano River	D-1	37.7332°	140.9253°	7.4	<0.5	2.6	10.8	9.9	0.06	1.2	2	1.2	0.017	0.045	0.0012
	D-2	37.7095°	140.9566°	7.3	<0.5	3.3	10.4	11.3	0.06	1.6	3	1.9	0.014	0.044	-
	D-3	37.7051°	140.9622°	7.2	<0.5	2.8	10.0	11.3	0.06	1.4	2	1.7	0.013	0.038	-
	D-4 a	37.7309°	140.9081°	7.5	<0.5	2.6	10.0	9.8	0.05	1.2	1	1.0	0.017	0.052	-
	D-4 b	37.7312°	140.9095°	7.5	<0.5	2.6	9.9	9.6	0.05	1.1	2	0.9	0.022	0.061	-
	D-5	37.7217°	140.8898°	7.6	<0.5	2.5	10.3	8.8	0.05	1.2	<1	0.6	0.016	0.047	-
Niida River	E-1	37.6615°	140.9114°	7.5	<0.5	2.9	10.8	6.4	0.04	1.2	3	1.9	0.037	0.10	0.0021
	E-2 a	37.6643°	140.9454°	7.4	<0.5	3.3	10.9	6.8	0.04	1.3	5	2.8	0.084	0.25	-
	E-2 b	37.6640°	140.9458°	7.4	<0.5	3.0	11.0	6.7	0.04	1.3	4	2.4	0.037	0.11	-
	E-3	37.6446°	141.0017°	7.3	<0.5	2.7	10.1	8.7	0.05	1.1	2	1.6	0.030	0.091	-
	E-4	37.6463°	140.9657°	7.4	<0.5	2.8	10.4	7.5	0.04	1.2	3	1.8	0.054	0.15	-
	E-5	37.6652°	140.9175°	7.5	<0.5	2.8	11.1	6.7	0.04	1.1	3	1.8	0.036	0.11	-
Ota River	F-1	37.5974°	140.9249°	7.3	<0.5	2.5	10.6	4.9	0.03	1.1	1	0.7	0.11	0.33	-
	F-2	37.6015°	140.9436°	7.2	<0.5	2.7	9.7	5.5	0.03	1.1	1	0.7	0.11	0.32	0.0038
	F-3	37.6046°	140.9641°	7.3	<0.5	2.4	10.0	5.8	0.03	1.0	1	0.7	0.086	0.25	-
	F-4	37.6071°	140.9721°	7.1	<0.5	2.1	9.6	6.2	0.04	0.9	<1	0.6	0.068	0.21	-
	F-5	37.6023°	140.9874°	7.2	<0.5	2.2	9.9	6.7	0.04	1.0	1	0.7	0.063	0.18	-
	F-6	37.5955°	141.0126°	7.1	0.5	2.9	10.1	11.6	0.06	1.4	6	1.7	0.056	0.17	-

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Lake Hayama (Mano Dam)	G-1 (Surface layer)	37.7342°	140.8098°	7.8	1.8	5.0	11.3	6.4	0.04	2.1	4	2.1	0.023	0.070	-
	G-1 (Deep layer)			7.5	0.8	4.5	9.4	6.6	0.04	2.0	3	1.6	0.025	0.073	0.0012
	G-3 (Surface layer)	37.7290°	140.8316°	7.6	1.9	5.7	10.3	6.6	0.04	2.2	4	1.6	0.021	0.060	-
	G-3 (Deep layer)			7.4	0.9	4.1	8.8	6.7	0.04	2.2	2	1.4	0.020	0.060	-
	G-5 (Surface layer)	37.7345°	140.8088°	7.6	1.7	4.9	10.2	6.6	0.04	2.0	4	1.9	0.021	0.057	-
	G-5 (Deep layer)			7.4	0.7	3.7	9.2	6.6	0.04	1.9	2	1.5	0.017	0.052	-
Lake Akimoto	H-1 (Surface layer)	37.6579°	140.1277°	7.5	0.8	3.8	9.8	5.0	0.03	1.8	1	1.6	0.0041	0.014	-
	H-1 (Deep layer)			7.2	0.7	3.2	8.5	5.1	0.03	1.7	1	1.8	0.0092	0.029	-
	H-3 (Surface layer)	37.6644°	140.1308°	7.4	1.5	4.3	9.7	5.8	0.03	2.1	4	2.2	0.016	0.050	-
	H-3 (Deep layer)			7.3	0.8	3.8	9.1	5.0	0.03	1.8	2	1.7	0.0092	0.027	0.0014
	H-5 (Surface layer)	37.6532°	140.1537°	7.3	1.6	4.8	8.7	5.3	0.03	2.9	2	1.8	0.011	0.034	-
	H-5 (Deep layer)			7.1	1.1	4.1	8.4	5.2	0.04	2.3	2	2.0	0.0049	0.019	-
Lake Inawashiro	I-1 (Surface layer)	37.5053°	140.1140°	7.5	<0.5	1.8	9.5	11.1	0.06	0.7	2	1.2	0.0056	0.017	-
	I-1 (Deep layer)			7.2	0.6	1.7	10.0	11.1	0.06	0.7	1	0.8	0.0056	0.015	0.00096
	I-3 (Surface layer)	37.5090°	140.0268°	7.2	<0.5	1.6	10.1	11.0	0.06	0.7	1	0.6	0.0054	0.015	-
	I-3 (Deep layer)			7.1	<0.5	1.5	10.2	11.1	0.06	0.7	<1	0.5	0.0047	0.017	-
	J-1 (Surface layer)	37.4203°	140.1007°	7.2	0.7	2.2	10.0	11.1	0.06	0.9	1	0.8	0.0046	0.014	-
	J-1 (Deep layer)			7.2	0.6	2.2	8.9	11.0	0.06	1.6	1	0.6	0.0068	0.014	-
Off the mouth of the Abukuma River (Off Watari Town)	K-2 (Surface layer)	38.0455°	140.9401°	8.2	<0.5	1.3	8.6	4,230	28.58	1.0	3	1.1	0.0025	0.0083	-
	K-2 (Deep layer)			8.1	<0.5	1.2	6.5	5,180	33.48	0.9	5	1.0	0.0026	0.011	0.00077
Off Soma City (Matsukawaura)	L-2	37.8157°	140.9764°	8.1	0.5	1.5	8.2	5,040	32.09	1.1	4	1.6	0.0068	0.021	0.0012
	L-3	37.8217°	140.9765°	8.1	1.0	1.7	8.4	5,060	32.09	1.3	6	2.5	0.012	0.036	-
Off Iwaki City (Hisanohama)	M-2 (Surface layer)	37.1992°	141.0863°	8.1	<0.5	1.4	8.2	5,080	33.02	0.9	5	1.0	0.0037	0.012	-
	M-2 (Deep layer)			8.0	<0.5	1.2	7.7	5,240	33.60	0.8	6	0.9	0.0041	0.014	0.00088

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

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Location	Sampling Date	Division	Class	Order	Family	Species name	English name	Population	sample weight (g-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	2014/10/23	Harase River	Algae/plant	-	-	-	-	River bottom materials (incl. algae)	Considerable number	0.076	-	-	-	172	42	130	-		
			Arthropod	Insecta	Odonata	Cordulegastriidae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii	54	0.062	Larva (dragonfly larva)	-	-	-	75	19	56	-	
			Arthropoda	Malacostraca	Decapoda	Potamidae	<i>Geothelphusa dehaani</i>	Japanese Freshwater Crab	20	0.013	Imago	-	-	-	27.8	6.8	21	-	
			Arthropod	Malacostraca	Decapoda	Atyidae	<i>Neocaridina sp.</i>	Neocaridina sp.	1,527	0.17	Imago	-	-	-	30.0	8.0	22	-	
			Mollusca	Gastropoda	Sorbococoncha	Pleuroceridae	<i>Semisulcospira libertina</i>	Semisulcospira libertina	52	0.055	Imago	-	Molluscan body	-	23.1	7.1	16	-	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagoskii steindachneri</i>	Amur Minnow	28	0.078	Mature fish	-	-	-	17.0	4.0	13	-	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	Pale chub	53	0.35	Mature fish	-	-	-	23.4	5.4	18	-	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Nipponocypris temminckii</i>	Dark chub	7	0.065	Mature fish	-	-	-	21.2	5.2	16	-	
			coarse particulate organic matters (CPOMs)	-	-	-	-	-	fallen leaves	Considerable number	0.28	-	-	-	237	57	180	-	
			2014/11/1	Surikami River	Algae/plant	-	-	-	-	River bottom materials (incl. algae)	Considerable number	0.076	-	-	-	119	27	92	-
	Arthropoda	Insecta			Ephemeroptera	Ephemeridae	<i>Ephemeria strigata</i>	Mont mayfly	1,080	0.035	Larva	-	-	-	108	29	79	-	
	Arthropod	Insecta			Plecoptera	Perlidae	<i>Paragnetina tinctipennis</i>	<i>Paragnetina tinctipennis</i>	376	0.018	Larva	-	-	-	N.D.	N.D.(4.1)	N.D.(3.5)	-	
	Arthropoda	Insecta			Plecoptera	Ephemeroptero	<i>Kamimura tibialis</i>	<i>Kamimura tibialis</i>	952	0.13	Larva	-	-	-	59	14	45	-	
	Arthropod	Insecta			Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	271	0.066	Larva (dragonfly larva)	-	-	-	13.2	3.3	9.9	-	
	Arthropod	Insecta			Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena											
	Arthropod	Insecta			Odonata	Cordulegastriidae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii											
	Arthropod	Insecta			Odonata	Gomphidae	<i>Onychogomphus viridicostus</i>	Onychogomphus viridicostus											
	Arthropod	Insecta			Odonata	Gomphidae	<i>Sieboldius albardae</i>	albardae											
	Arthropod	Insecta			Odonata	Gomphidae	<i>Davidius nanus</i>	Davidius nanus											
	Arthropod	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	<i>Davidius</i>													
Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	38	0.039	Immature fish/mature fish	-	-	-	16.6	4.6	12	-				
Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	11	0.31	Mature fish (1-year-old)	-	-	-	14.1	3.1	11	-				
Vertebrata	Amphibia	Anura	-	-	-	Frogs	22	0.015	Larva (tadpoles)	-	-	-	163	43	120	-			
coarse particulate organic matters	-	-	-	-	-	fallen leaves	Considerable number	0.57	-	-	-	78	18	60	-				

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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: A statement in red in the "Growth stage" column shows the age assessed based on squama or otolith

*6: Plankton (suspended algae) is the residue remaining after the filtration of lake water or seawater with a plankton net (40µm-mesh).

*7: 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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										Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137								
Uda River	C-6	-	-	-	-	-	River bottom materials (incl. algae)	Considerable number	0.061	-	-	-	199	49	150	-							
							Parastenopsyche sauteri	177	0.013	Larva	-	-	114	27	87	-							
							Stenopsyche marmorata	111	0.024	Larva (dragonfly larva)	-	-	18.6	4.6	14	-							
							Macromia amphigena																
							Anotogaster sieboldii																
							Onychogomphus viridicostus																
							Sieboldius albardae																
							Davidius nanus																
							Davidius sp.																
							Sinogomphus flavolimbatu																
							Boyeria maclachlani																
							Protohermes grandis																
							Paraya improvisa																
							Eriocheir japonica																
							Tribolodon hakonensis																
							Zacco platypus																
							Nipponocypris temminckii																
							Rhinogobius sp.																
							Rana rugosa																
							fallen leaves	Considerable number	0.20	-	-	-	32.6	8.6	24	-							
							Muro River	D-4a D-4b	-	-	-	-	-	River bottom materials (incl. algae)	Considerable number	0.063	-	-	-	103	26	77	-
														Sieboldius albardae	41	0.029	Larva (dragonfly larva)	-	-	26.0	6.0	20	-
														Protohermes grandis	44	0.030	Larva	-	-	31.5	9.5	22	-
Procambarus clarkii	3	0.036	Imago	-	-	89								21	68	-							
Paraya improvisa	350	0.063	Imago	-	-	83								22	61	-							
Semisulcospira libertina	58	0.097	Imago	-	-	104								28	76	-							
Tribolodon hakonensis	5	0.051	Mature fish (2-year-old)	Many unknown content	Viscera removed	66								17	49	-							
Oncorhynchus masou	1	0.060	Mature fish (1-year-old)	Insects (many)	Viscera removed	61								15	46	-							
Micropterus dolomieu	2	0.032	Immature fish	Some (details unknown)	Viscera removed	91								21	70	-							
Rhinogobius sp.	19	0.060	Mature fish	-	-	126								32	94	-							
fallen leaves	Considerable number	0.26	-	aquatic insects	-	116								27	89	-							

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										Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137															
Nishi River	E-2a E-2b	-	-	-	-	-	River bottom materials (incl. algae)	Considerable number	0.025	-	-	-	172	42	130	-														
							Algae/plant	-	-	-	-	-	-	-	-	-	-	-	-											
							Arthropoda	Insecta	Ephemeroptera	Ephemeroptera	Heptageniidae	<i>Epeorus curvatulus</i>	Epeorus curvatulus	437	0.011	Larva	-	-	-	550	130	420	-							
							Arthropod	Insecta	Ephemeroptera	Schistonota	Heptageniidae	Heptageniidae	-	-	-	-	-	-	-	-	-	-	-							
							Arthropod	Insecta	Plecoptera	Perlidae	Oyamia gibba	Oyamia lugubris	-	-	-	-	-	-	-	-	-	-	-							
							Arthropod	Insecta	Plecoptera	Ephemeroptera	Kamimura tibialis	Kamimura tibialis	1,410	0.049	Larva	-	-	-	25.0	6.0	19	-								
							Arthropod	Insecta	Plecoptera	Perlidae	Neoperla sp.	Neoperla geniculata	-	-	-	-	-	-	-	-	-	-	-							
							Arthropod	Insecta	Trichoptera	Stenopsychidae	Stenopsyche marmorata	Stenopsyche marmorata	177	0.028	Larva	-	-	-	540	120	420	-								
							Arthropod	Insecta	Odonata	Gomphidae	Onychogomphus viridicostus	Onychogomphus viridicostus	82	0.027	Larva (dragonfly larva)	-	-	-	103	25	78	-								
							Arthropod	Insecta	Megaloptera	Corydalidae	Protohermes grandis	Protohermes grandis	17	0.011	Larva	-	-	-	63	16	47	-								
							Arthropod	Malacostraca	Decapoda	Procambarus	Procambarus	Red swamp crawfish	23	0.16	Imago	-	-	-	162	42	120	-								
							Arthropod	Malacostraca	Decapoda	Atyidae	Atyidae	Freshwater shrimp	131	0.023	Imago	-	-	-	187	47	140	-								
							Arthropod	Malacostraca	Decapoda	Grapsidae	Eriocheir japonica	Japanese mitten crab	14	0.20	Imago	-	-	-	169	39	130	-								
							Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	Anguilla japonica	Japanese eel	3	1.1	Mature fish (6-year-old)	Some (details unknown)	Viscera removed	-	280	70	210	-								
							Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Zacco platypus	Pale chub	10	0.041	Mature fish	-	-	-	228	58	170	-								
							Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Carassius auratus	Carassius auratus langsdorffii	8	0.24	Mature fish	Detritus	Viscera removed	-	229	59	170	-								
							Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Cyprinus carpio	Common carp	4	0.13	Immature fish	-	-	-	163	43	120	-								
							Vertebrata	Osteichthyes	Perciformes	Gobiidae	Rhinogobius sp.	R. sp. CB	13	0.057	Mature fish	-	-	-	256	66	190	-								
							Vertebrata	Osteichthyes	Siluriformes	Siluridae	Silurus asotus	Amur catfish	1	0.18	Mature fish (2-year-old)	Some (details unknown)	Viscera removed	-	119	29	90	-								
							Vertebrata	Amphibia	Anura	Ranidae	Rana rugosa	Wrinkled Frog	5	0.012	Imago	-	-	-	43	10	33	-								
										coarse particulate organic matters	-	-	-	fallen leaves	Considerable number	0.24	-	-	-	1,180	290	890	-							
							Omi River	F-1	-	-	-	-	-	River bottom materials (incl. algae)	Considerable number	0.066	-	-	-	1,860	460	1,400	-							
														Algae/plant	-	-	-	-	-	-	-	-	-	-	-	-	-			
														Arthropod	Insecta	Odonata	Corduliidae	Macromia amphigena	Macromia amphigena	-	-	-	-	-	-	-	-	-	-	
														Arthropod	Insecta	Odonata	Cordulegastriidae	Anotogaster sieboldii	Anotogaster sieboldii	-	-	-	-	-	-	-	-	-	-	-
														Arthropod	Insecta	Odonata	Gomphidae	Onychogomphus viridicostus	Onychogomphus viridicostus	103	0.031	Larva (dragonfly larva)	-	-	-	480	110	370	-	
Arthropod	Insecta	Odonata	Gomphidae	Sieboldius albardae	albardae	-								-	-	-	-	-	-	-	-	-	-							
Arthropod	Insecta	Odonata	Gomphidae	Davidius sp.	Davidius	-								-	-	-	-	-	-	-	-	-	-							
Arthropod	Insecta	Odonata	Gomphidae	Asiagomphus melaenops	Asiagomphus melaenops	-								-	-	-	-	-	-	-	-	-	-							
Arthropod	Insecta	Odonata	Aeshnidae	Boyeria maclachlani	Boyeria maclachlani	-								-	-	-	-	-	-	-	-	-	-							
Arthropod	Insecta	Megaloptera	Corydalidae	Protohermes grandis	Protohermes grandis	33								0.015	Larva	-	-	-	288	68	220	-								
Arthropod	Insecta	Neuroptera	Corydalidae	Parachauliodes japonicus	Parachauliodes japonicus	-								-	-	-	-	-	-	-	-	-	-							
Arthropoda	Malacostraca	Decapoda	Atyidae	Paratya improvisa	Freshwater shrimp	295								0.080	Imago	-	-	-	890	210	680	-								
Arthropod	Malacostraca	Decapoda	Grapsidae	Eriocheir japonica	Japanese mitten crab	4								0.040	Imago	-	-	-	1,010	250	760	-								
Mollusca	Gastropoda	Sorbeoconcha	Pleuroceridae	Semisulcospira libertina	Semisulcospira libertina	61								0.054	Imago	-	-	-	404	94	310	-								
Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	Anguilla japonica	Japanese eel	4								1.5	Mature fish (9-year-old)	Some (details unknown)	Viscera removed	-	201	51	150	0.36								
Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Tribolodon hakonensis	Japanese dace	6								0.010	Immature fish	-	-	-	1,030	280	750	-								
Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Zacco platypus	Pale chub	18								0.15	Mature fish	-	-	-	650	170	480	-								
Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Nipponocypris temminckii	Dark chub	6								0.060	Mature fish	-	-	-	470	110	360	-								
Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	Cobitis biwae	Cobitis biwae	5								0.012	Mature fish	-	-	-	900	240	660	-								
Vertebrata	Osteichthyes	Perciformes	Gobiidae	Rhinogobius sp.	R. sp. CB	5								0.024	Mature fish	-	-	-	1,830	430	1,400	-								
Vertebrata	Osteichthyes	Siluriformes	Siluridae	Silurus asotus	Amur catfish	1								0.29	Mature fish (4-year-old)	Some (details unknown)	Viscera removed	-	118	29	89	-								
			coarse particulate organic matters	-	-	-								fallen leaves	Considerable number	0.29	-	-	-	1,040	250	790	-							

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Location	Sampling Date	Division	Class	Order	Family	Species name	English name	Population	sample weight (g, wet wt)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)			
										Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137				
Lake Huzuma	2014/10/28	G-4	Algae/plant	-	-	-	-	River bottom materials (incl. algae)	Considerable number	0.038	-	-	-	367	87	280	-		
			Arthropoda	Insecta	Ephemeroptera	Ephemeraidae	<i>Ephemera strigata</i>	Mont mayfly	607	0.015	Larva	-	-	-	600	150	450	-	
			Arthropoda	Insecta	Plecoptera	Ephemeroptera	<i>Kamimurai sp.</i>	Kamimura stonefly genus	366	0.014	Larva	-	-	-	13	N.D.(4.0)	13	-	
			Arthropod	Insecta	Odonata	Cordulegasteridae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii											
			Arthropod	Insecta	Odonata	Gomphidae	<i>Stylogomphus sukuzii</i>	Stylogomphus sukuzii											
			Arthropod	Insecta	Odonata	Gomphidae	<i>Onychogomphus viridicostus</i>	Onychogomphus viridicostus											
			Arthropod	Insecta	Odonata	Gomphidae	<i>Davidius fujiana</i>	Davidius fujiana											
			Arthropod	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	albardae	342	0.062	Larva (dragonfly larva)	-	-	-	62	16	46	-	
			Arthropod	Insecta	Odonata	Gomphidae	<i>Davidius nanus</i>	Davidius nanus											
			Arthropod	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	Davidius											
			Arthropod	Insecta	Odonata	Gomphidae	<i>Sinogomphus flavolimbanus</i>	Sinogomphus flavolimbanus											
			Arthropod	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	Boyeria maclachlani											
			Arthropod	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Protohermes grandis	41	0.025	Larva	-	-	-	57	15	42	-	
			Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paraya improvisa</i>	Freshwater shrimp	157	0.029	Larva	-	-	-	141	41	100	-	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	20	0.017	Immature fish (under 1-year-old)	-	-	-	105	29	76	-	
			Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Seema	1	1.3	Mature fish (3-year-old)	Empty stomach	Viscera removed	590	140	450	0.33		
			Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	2	0.042	Mature fish (1-year-old)	Many unknown content	Viscera removed	61	14	47	-		
			Vertebrata	Osteichthyes	Perciformes	Gobioidae	<i>Rhinogobius flumineus</i>	Rhinogobius flumineus	12	0.025	Mature fish	-	-	-	55	12	43	-	
	Inflowing rivers			coarse particulate organic matters	-	-	-	-	fallen leaves	Considerable number	0.11	-	-	-	120	29	91	-	
	G-1	In the lake	2014/10/27	Algae/plant	-	-	-	-	Plankton	Considerable number	0.036	-	-	-	22.6	5.6	17	-	
G-2	In the lake	2014/10/28	Vertebrata	Osteichthyes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	2	0.64	Mature fish (3-year-old)	Many unknown content	Viscera removed	348	88	260	-			
G-3	In the lake	2014/10/28	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	1	0.44	Mature fish (3-year-old)	Many unknown content	Viscera removed	266	66	200	-		

Location	Sampling Date	Division	Class	Order	Family	Species name	English name	Population	sample weight (g, wet wt)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)			
										Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137				
Lake Aburatsubo	2014/10/21	H-1 H-2 H-3(Including the Nakatsu River area) Near the h-4	Algae/plant	-	-	-	-	Plankton	Considerable number	0.010	-	-	-	32.7	7.7	25	-		
			Angiospermae	Monocotyledonae	Hydrocharitales	Hydrocharitaceae	<i>Elodea nuttallii</i>	Western Waterweed	Considerable number	0.19	-	-	-	7.7	1.8	5.9	-		
			Arthropoda	Insecta	Ephemeroptera	Ephemeraidae	<i>Ephemera japonica</i>	Ephemera japonica McLachlan	489	0.026	Larva	-	-	-	122	29	93	-	
			Arthropoda	Insecta	Ephemeroptera	Ephemeraidae	<i>Ephemera strigata</i>	Mont mayfly											
			Arthropod	Insecta	Odonata	Cordulegasteridae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii	96	0.12	Larva (dragonfly larva)	-	-	-	28.0	7.0	21	-	
			Arthropod	Malacostraca	Decapoda	Astacidae	<i>Pacifastacus leniusculus trowbridgii</i>	Signal crayfish	43	2.1	Imago	-	-	-	36.9	8.9	28	7.8	
			Mollusca	Gastropoda	Sorbeoconcha	Pleuroceridae	<i>Semisulcospira libertina</i>	Semisulcospira libertina	210	0.15	Imago	-	Molluscan body	28.9	6.9	22	-		
			Vertebrata	Osteichthyes	Osmeriformes	Osmeridae	<i>Hypomesus nipponensis</i>	Japanese smelt	101	0.34	Mature fish	-	-	-	20.8	4.8	16	-	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur Minnow	42	0.058	Mature fish	-	-	-	12.9	3.2	9.7	-	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	20	4.8	Mature fish	Green algae	Viscera removed	74	17	57	0.73		
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorffii	12	1.7	Mature fish (5-year-old)	-	Viscera removed	56	14	42	1.3		
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	4	2.7	Mature fish (4-year-old)	-	Viscera removed	29.5	6.5	23	1.2		
			Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	5	1.7	Mature fish (4-year-old)	Fish	Viscera removed	44	10	34	-		
			Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	8	3.2	Mature fish (3-year-old)	Cordulegasteridae	Viscera removed	58	13	45	1.0		
			Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Lepomis macrochirus</i>	Bluegill	6	0.46	Mature fish (3-year-old)	Ephemeroptera	Viscera removed	32.6	7.6	25	-		
			Vertebrata	Amphibia	Anura	Ranidae	<i>Rana rugosa</i>	Wrinkled Frog	5	0.026	Imago	-	-	-	15.2	3.2	12	-	
			Vertebrata	Amphibia	Caudata	Salamandridae	<i>Cynops pyrrhogaster</i>	Cynops pyrrhogaster	3	0.015	Imago	-	-	-	8.5	2.8	5.7	-	
			Inflowing rivers			coarse particulate organic matters	-	-	-	-	fallen leaves	Considerable number	0.14	-	-	-	72	17	55

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Location	Sampling Date	Division	Class	Order	Family	Species name	English name	Population	sample weight (g-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 SWET	I-1 I-2 (north lakeside)	2014/10/22	course particulate organic matters	-	-	-	fallen leaves	Considerable number	0.25	-	-	-	21.6	5.6	16	-			
		2014/11/15	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	5	0.35	Mature fish (3-year-old)	Many unknown content	Viscera removed	40.2	9.2	31	-		
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorffii	3	1.0	Mature fish (5-year-old)	Many unknown content	Viscera removed	27.8	6.8	21	0.49		
	Vertebrata		Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	2	1.0	Mature fish (4-year-old)	Many unknown content	Viscera removed	31.2	7.2	24	0.40			
	J-1 (south lakeside)	-	2014/10/22	Algae/plant	-	-	-	Plankton	Considerable number	0.014	-	-	-	N.D.	N.D.(3.0)	N.D.(3.5)	-		
			Angiospermae	Dicotyledoneae	Nymphaeales	Nymphaeaceae	<i>Nuphar japonicum</i>	Cow lily	Considerable number	1.9	-	-	-	3.47	0.87	2.6	-		
			Magnoliophyta	Magnoliopsida	Solanales	Menyanthaceae	<i>Nymphoides peltata</i>	Fringed water-lily	Considerable number	1.5	-	-	-	2.79	0.69	2.1	-		
			Arthropod	Insecta	Odonata	Cordulegastriidae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii	20	0.022	Larva (dragonfly larva)	-	-	-	2.4	N.D.(2.4)	2.4	-	
			Arthropod	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	104	0.056	Imago	-	-	-	5.1	1.4	3.7	-	
			Mollusca	Gastropoda	Sorbeoconcha	Pleuroceridae	<i>Semisulcospira libertina</i>	Semisulcospira libertina	55	0.035	Imago	-	-	Molluscan body	3.4	N.D.(1.9)	3.4	-	
			Mollusca	Gastropoda	Architaeniogloss	Viviparidae	<i>Bellamyia chinensis laeta</i>	Mud-snail	70	0.38	Imago	-	-	Molluscan body	2.88	0.88	2.0	-	
			Vertebrata	Amphibia	Anura	-	-	-	Frogs	24	0.027	Larva (tadpoles)	-	-	-	9.5	2.7	6.8	-
			Vertebrata	Amphibia	Anura	Ranidae	<i>Rana rugosa</i>	Wrinkled Frog	27	0.10	Imago	-	-	-	1.2	N.D.(0.64)	1.2	-	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorffii	2	0.97	Mature fish (6-year-old)	Many unknown content	Viscera removed	24.9	5.9	19	-		
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	3	1.4	Mature fish	Many unknown content	Viscera removed	31.3	7.3	24	0.40		
			Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	5	2.2	Mature fish (2-year-old)	Empty stomach, lake smelt	Viscera removed	48	12	36	0.29		
			2014/10/30	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	9	1.4	Mature fish (3-year-old)	Many unknown content	Viscera removed	52	13	39	0.23	
			2014/11/4	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	Pale chub	10	0.15	Mature fish	Many unknown content	Viscera removed	16.2	4.2	12	-	
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	1	1.1	Mature fish	Empty stomach	Viscera removed	159	39	120	0.099	

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										Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137				
Of the mouth of the Abukuma River	Surrounding water area off the mouth of the Abukuma River	2014/10/30	Arthropod	Malacostraca	Decapoda	Portunidae	<i>Portunus trituberculatus</i>	Japanese blue crab	5	1.3	Imago	-	-	0.28	N.D.(0.29)	0.28	0.050		
			Vertebrata	Osteichthyes	Pleuronectiform	Pleuronectiform	<i>Pleuronectes yokohamae</i>	Marbled sole	7	2.8	Mature fish (5-year-old)	Shrimps	Viscera removed	1.46	0.36	1.1	N.D.(0.012)		
			Vertebrata	Osteichthyes	Pleuronectiform	Paralichthyidae	<i>Paralichthys olivaceus</i>	Bastard halibut	4	3.2	Mature fish (3-year-old)	Shrimps, fish	Viscera removed	0.43	N.D.(0.61)	0.43	N.D.(0.012)		
			Vertebrata	Osteichthyes	Perciformes	Sparidae	<i>Eymnis japonica</i>	Crimson sea-bream	7	3.0	Mature fish (5-year-old)	Crabs	Viscera removed	0.73	N.D.(0.37)	0.73	0.015		
			Vertebrata	Osteichthyes	Zeiformes	Zeidae	<i>Zeus faber</i>	John dory	3	2.8	Mature fish (4-year-old)	Flatfish, fish	Viscera removed	1.10	0.29	0.81	N.D.(0.018)		
Off Sakuma City	L-1 L-2 L-3	2014/10/29	Algae/plant	-	-	-	-	Plankton	Considerable number	0.014	-	-	-	690	170	520	-		
			Angiospermae	Monocotyledonae	Najadales	Zosteraceae	<i>Zostera marina</i>	eel grass	Considerable number	1.1	-	-	-	0.46	N.D.(0.36)	0.46	-		
			Chlorophyta	Ulvophyceae	Ulvales	Ulvaaceae	<i>Ulva pertusa</i>	Ulva pertusa	Considerable number	0.29	-	-	-	3.29	0.79	2.5	-		
			Arthropod	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Palaemon	146	0.051	Imago	-	-	-	8.6	2.3	6.3	-	
			Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Hemigrapsus sp.</i>	Hemigrapsus	170	0.21	Imago	-	-	-	7.3	1.8	5.5	-	
			Mollusca	Bivalvia	Pterioida	Ostreidae	<i>Crassostrea gigas</i>	Japanese oyster	49	6.0	Imago	-	-	Molluscan body	3.67	0.87	2.8	-	
			Mollusca	Bivalvia	Veneridae	Veneridae	<i>Ruditapes philippinarum</i>	Japanese littleneck	67	1.8	Imago	-	-	Molluscan body	3.91	0.91	3.0	-	
			Vertebrata	Osteichthyes	Scorpaeniform	Hexagrammida	<i>Hexagrammos otakii</i>	Fat greenling	6	0.64	Mature fish	Crabs	Viscera removed	2.55	0.55	2.0	-		
			Vertebrata	Osteichthyes	Scorpaeniform	Scorpaenidae	<i>Sebastes cheni</i>	Japanese rockfish	2	0.050	Mature fish (1-year-old)	Mysid shrimps	Viscera removed	2.3	N.D.(1.1)	2.3	-		
			Vertebrata	Osteichthyes	Perciformes	Pholidae	<i>Pholis crassispina</i>	Tidepool gunnel	21	0.046	Mature fish	-	-	-	2.3	N.D.(1.5)	2.3	-	
			Vertebrata	Osteichthyes	Perciformes	Gobiidae	Gobiidae	Gobiidae	37	0.040	Mature fish	-	-	-	3.6	1.1	2.5	-	
			Off Hisanohama City	M-1 M-2 M-3 M-4	2014/10/29	Phaeophyta	Phaeophyceae	Laminariales	Alariaceae	<i>Undaria undarioides</i>	Undaria undarioides (Yendo)	Considerable number	1.1	-	-	-	2.17	0.47	1.7
Echinoderm	Echinozoa	Echinozoa				Strongylocentrotidae	<i>Strongylocentrotus nudus</i>	Northern sea urchin	35	3.1	Imago	-	-	-	3.42	0.92	2.5	4.4	
Offshore of Hisanohama	Echinodermata	Asteroida				Forcipulatida	Asteriidae	<i>Disolasterias nipon</i>	Japan starfish	4	1.6	Imago	-	-	-	N.D.	N.D.(0.29)	N.D.(0.27)	-
Offshore of Hisanohama	Arthropod	Malacostraca				Decapoda	Portunidae	<i>Portunus trituberculatus</i>	Japanese blue crab	3	1.1	Imago	-	-	-	1.66	0.56	1.1	-
Hisanohama Coastal areas	Mollusca	Gastropoda				Archaeogastropoda	Haliotiidae	<i>Haliotis asinina</i>	Abalone	6	1.5	Imago	-	-	Molluscan body	0.53	N.D.(0.40)	0.53	-
Offshore of Hisanohama	Vertebrata	Osteichthyes				Scorpaeniform	Triglidae	<i>Lepidotrigla microptera</i>	Gumard	12	1.5	Mature fish (3-year-old)	Shrimps, crabs, immature octopus	Viscera removed	1.69	0.49	1.2	-	
Offshore of Hisanohama	Vertebrata	Osteichthyes				Scorpaeniform	Triglidae	<i>Chelodichthys spinosus</i>	Gumard(Small)	3	0.44	Mature fish (2-year-old)	Shrimps, amphipod	Viscera removed	1.84	0.44	1.4	-	
Offshore of Hisanohama	Vertebrata	Osteichthyes				Scorpaeniform	Triglidae	<i>Chelodichthys spinosus</i>	Gumard(Large)	5	2.0	Mature fish (4-year-old)	Shrimps	Viscera removed	2.53	0.73	1.8	N.D.(0.018)	
Offshore of Hisanohama	Vertebrata	Osteichthyes				Pleuronectiform	Pleuronectiform	<i>Kareius bicoloratus</i>	Stone flounder	2	0.82	Mature fish (5-year-old)	Isopoda	Viscera removed	2.84	0.64	2.2	-	
Offshore of Hisanohama	Vertebrata	Osteichthyes				Pleuronectiform	Pleuronectidae	<i>Pleuronichthys sp.</i>	Finespotted flounder	5	0.47	Mature fish	Sandworms, crustaceans	Viscera removed	2.42	0.62	1.8	-	
Offshore of Hisanohama	Vertebrata	Osteichthyes				Pleuronectiform	Pleuronectiform	<i>Pleuronectes yokohamae</i>	Marbled sole	5	3.2	Mature fish (4-year-old)	Sandworms, amphipod	Viscera removed	7.4	1.7	5.7	0.049	
Offshore of Hisanohama	Vertebrata	Osteichthyes				Pleuronectiform	Paralichthyidae	<i>Paralichthys olivaceus</i>	Bastard halibut	3	3.8	Mature fish (5-year-old)	Many unknown content	Viscera removed	2.25	0.55	1.7	N.D.(0.019)	
Offshore of Hisanohama	Vertebrata	Osteichthyes				Perciformes	Sparidae	<i>Eymnis japonica</i>	Crimson sea-bream	8	0.48	Mature fish (4-year-old)	Gammaridea	Viscera removed	4.8	1.1	3.7	-	
Offshore of Hisanohama	Vertebrata	Osteichthyes				Perciformes	Sparidae	<i>Eymnis japonica</i>	Crimson sea-bream	3	1.1	Mature fish (4-year-old)	Clams, crabs	Viscera removed	2.22	0.52	1.7	-	
Offshore of Hisanohama	Vertebrata	Osteichthyes				Perciformes	Sparidae	<i>Pagrus major</i>	Red seabream	1	1.3	Mature fish (4-year-old)	Clams, snails	Viscera removed	2.85	0.65	2.2	-	
Offshore of Hisanohama	Vertebrata	Osteichthyes				Sciaenidae	Sciaenidae	<i>Pennahia argentata</i>	White croaker	11	1.6	Mature fish (3-year-old)	Fish	Viscera removed	1.1	N.D.(0.30)	1.1	-	
Offshore of Hisanohama	Vertebrata	Osteichthyes				Zeiformes	Zeidae	<i>Zeus faber</i>	John dory	5	3.0	Mature fish (4-year-old)	Fish, shrimps	Viscera removed	0.65	N.D.(0.39)	0.65	N.D.(0.018)	
Offshore of Hisanohama	Vertebrata	Chondrichthyes	Squatiformes	Squatidae	<i>Squatina japonica</i>	Japanese angelshark	1	2.3	Mature fish	Some (details unknown)	Viscera removed	8.9	2.2	6.7	0.027				
Offshore of Hisanohama	Vertebrata	Chondrichthyes	Rajiformes	Rajidae	<i>Okamejei kenojei</i>	Skate	6	3.5	Mature fish	Shrimps, fish	Viscera removed	12.4	3.1	9.3	0.16				
Offshore of Hisanohama	Vertebrata	Chondrichthyes	Carcharhiniform	Triakidae	<i>Mustelus manazo</i>	Starspotted smooth-hound	3	2.9	Mature fish	Crabs, echinoid, squillas	Viscera removed	2.63	0.83	1.8	N.D.(0.017)				

*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 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: A statement in red in the "Growth stage" column shows the age assessed based on squama or otolith

*6: Plankton (suspended algae) is the residue remaining after the filtration of lake water or seawater with a plankton net (40µm-mesh).

*7: 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.

*8: N.D. means to be below the detection limit and figures in parentheses show the detection limit.

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