

○ Results (water)

Location				June- July 2014 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)	37.621000°	140.521783°	7.7	1.2	4.3	8.9	16.4	0.09	2.1	14	6.0	0.025	0.068	0.0012	
	A-1(Deep layer)			7.5	1.2	4.8	9.1	17.9	0.09	2.1	13	5.7	0.024	0.059	—	
	A-2	37.567333°	140.394567°	7.5	0.6	3.2	9.6	10.9	0.06	1.2	17	4.4	0.029	0.077	—	
	B-1	37.784333°	140.492417°	7.5	0.8	4.5	9.7	16.7	0.09	2.0	12	7.0	0.024	0.061	—	
	B-2	37.812100°	140.505783°	7.5	1.2	4.3	9.3	16.2	0.08	1.8	12	6.7	0.096	0.26	—	
	B-3	37.818200°	140.467883°	7.6	0.7	3.0	9.9	8.0	0.05	1.2	4	2.3	0.0060	0.015	—	
Udagawa River	C-1	37.795333°	140.745917°	7.3	0.8	2.7	9.8	11.6	0.06	1.1	6	2.9	0.014	0.035	—	
	C-2	37.771750°	140.729033°	7.2	1.2	5.4	9.2	9.9	0.05	2.6	11	8.2	0.031	0.082	—	
	C-3	37.779183°	140.803967°	7.5	0.9	4.2	9.3	8.5	0.05	2.2	10	6.7	0.10	0.26	—	
	C-4	37.768667°	140.844283°	7.5	0.6	3.0	9.6	8.1	0.04	1.5	2	3.1	0.033	0.086	0.00089	
	C-5	37.764600°	140.860300°	7.6	0.9	3.5	9.2	8.2	0.05	1.7	6	3.7	0.024	0.060	—	
	C-6	37.776383°	140.887717°	7.7	<0.5	3.0	9.8	10.0	0.06	1.4	2	2.2	0.0095	0.028	—	
Manogawa River	D-1	37.733100°	140.925400°	7.2	<0.5	3.1	9.9	7.0	0.04	1.6	2	2.2	0.032	0.083	0.0014	
	D-2	37.709450°	140.956583°	7.2	<0.5	3.1	9.3	7.9	0.04	1.5	3	2.5	0.027	0.068	—	
	D-3	37.705100°	140.962250°	7.2	<0.5	2.7	9.1	8.5	0.05	1.4	2	2.1	0.023	0.059	—	
	D-4 a	37.730833°	140.908050°	7.3	<0.5	3.1	9.1	9.2	0.04	1.6	2	1.6	0.047	0.13	—	
	D-4 b	37.731217°	140.909633°	7.4	<0.5	3.2	9.0	7.2	0.04	1.6	3	1.7	0.044	0.11	—	
	D-5	37.721383°	140.888883°	7.4	<0.5	3.2	9.5	7.2	0.16	1.8	3	2.3	0.038	0.097	—	
Niida River	E-1	37.660933°	140.911450°	7.4	<0.5	3.6	10.0	6.0	0.03	1.7	9	5.9	0.13	0.35	0.0025	
	E-2 a	37.664000°	140.944717°	7.1	<0.5	3.6	8.3	6.5	0.04	1.6	6	4.6	0.078	0.22	—	
	E-2 b	37.663450°	140.945150°	7.4	0.6	4.2	10.0	6.6	0.04	2.0	14	9.7	0.29	0.74	—	
	E-3	37.644400°	141.001783°	7.3	0.7	3.8	9.8	7.3	0.04	1.8	8	6.0	0.091	0.25	—	
	E-4	37.648467°	140.962950°	7.4	0.5	3.8	9.5	6.7	0.04	1.8	8	6.1	0.14	0.37	—	
	E-5	37.665233°	140.916883°	7.4	0.6	3.4	10.0	6.3	0.04	1.6	8	6.1	0.15	0.40	—	
Ota River	F-1	37.597533°	140.925167°	7.2	0.9	3.8	9.1	4.3	0.03	1.4	2	1.0	0.13	0.34	—	
	F-2	37.601617°	140.942283°	7.1	0.9	3.7	9.2	4.7	0.03	1.4	3	1.2	0.13	0.35	0.0041	
	F-3	37.604517°	140.963617°	7.2	0.7	3.9	9.2	4.9	0.03	1.4	4	1.3	0.14	0.36	—	
	F-4	37.606967°	140.971983°	7.1	0.7	3.8	9.0	5.1	0.03	1.3	6	1.6	0.14	0.38	—	
	F-5	37.602183°	140.986750°	7.1	0.7	4.4	9.2	5.4	0.03	1.4	11	2.3	0.13	0.35	—	
	F-6	37.595333°	141.012300°	7.1	1.3	4.6	9.2	8.1	0.05	1.9	6	2.4	0.12	0.32	—	
Lake Hayama (Mano Dam)	G-1(Surface layer)	37.732050°	140.812717°	7.4	1.0	4.5	9.2	6.1	0.04	2.1	2	1.7	0.023	0.059	—	
	G-1(Deep layer)			7.4	0.7	4.9	9.4	6.2	0.04	1.9	4	3.0	0.041	0.11	0.0013	
	G-3(Surface layer)	37.730167°	140.830667°	7.5	0.8	4.7	9.7	6.3	0.04	2.6	2	1.8	0.018	0.044	—	
	G-3(Deep layer)			7.4	0.8	5.3	8.4	6.8	0.04	2.6	2	2.1	0.025	0.069	—	
	G-5(Surface layer)	37.734117°	140.808833°	8.2	1.1	5.1	9.1	6.7	0.04	2.8	2	1.9	0.023	0.062	—	
	G-5(Deep layer)			7.6	0.7	5.0	9.4	6.2	0.04	2.1	3	3.0	0.045	0.12	—	
Lake Akimoto	H-1(Surface layer)	37.657533°	140.126433°	7.4	<0.5	3.1	9.7	3.8	0.03	1.3	1	1.0	0.0090	0.023	—	
	H-1(Deep layer)			7.4	0.5	3.3	9.1	3.9	0.03	1.2	2	1.0	0.0053	0.013	—	
	H-3(Surface layer)	37.665333°	140.132933°	7.4	0.8	3.3	8.9	4.1	0.03	1.6	<1	1.0	0.0090	0.022	—	
	H-3(Deep layer)			7.2	0.7	3.1	9.3	3.9	0.03	1.4	2	1.3	0.0033	0.011	0.0012	
	H-5(Surface layer)	37.652333°	140.156833°	7.3	2.2	4.2	9.2	4.6	0.03	1.6	3	1.7	0.0090	0.027	—	
	H-5(Deep layer)			7.2	1.5	3.4	9.6	4.0	0.03	1.3	2	1.0	0.0067	0.017	—	
Lake Inawashiro	I-1(Surface layer)	37.504683°	140.114333°	6.6	<0.5	1.0	9.1	11.6	0.06	0.7	<1	0.4	0.0067	0.017	—	
	I-1(Deep layer)			6.1	0.7	2.0	10.6	12.0	0.06	1.2	3	1.0	0.0067	0.018	0.00098	
	I-3(Surface layer)	37.507700°	140.026250°	6.7	0.7	1.3	8.7	11.6	0.06	0.9	<1	0.4	0.0060	0.016	—	
	I-3(Deep layer)			6.8	1.8	1.8	9.4	11.8	0.06	1.2	<1	0.8	0.0069	0.017	—	
	J-1(Surface layer)	37.420333°	140.100833°	6.6	<0.5	1.1	9.5	11.6	0.06	0.8	<1	0.4	0.0072	0.016	—	
	J-1(Deep layer)			6.6	0.6	1.2	9.4	11.6	0.06	0.6	1	0.5	0.0067	0.018	—	
Off the mouth of the Abukuma River (Off Watari Town)	K-2(Surface layer)	38.045517°	140.940133°	8.1	1.0	3.1	8.8	3,570	22.04	1.7	10	5.7	0.0058	0.017	—	
	K-2(Deep layer)			8.0	<0.5	1.3	8.4	5,000	32.33	1.1	2	10.3	0.0056	0.018	0.0013	
Off Soma City (Matsukawaura)	L-2	37.815517°	140.976333°	8.1	0.5	2.8	7.3	4,050	27.94	1.6	6	1.3	0.012	0.029	0.0012	
	L-3	37.821683°	140.976500°	8.1	0.6	2.2	7.6	4,550	29.16	1.3	5	0.8	0.0073	0.021	—	
Off Iwaki City (Hisanohama)	M-2(Surface layer)	37.199600°	141.085300°	8.1	<0.5	1.4	8.9	4,250	32.96	1.0	<1	<0.2	N.D.(0.0016)	0.0049	—	
	M-2(Deep layer)			8.0	<0.5	1.4	9.0	4,320	33.61	0.9	<1	<0.2	0.0028	0.0076	0.0011	

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

○ Results (sediments)

Location		June- July 2014 Survey														Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)		
		Latitude	Longitude	pH	Redox potential E _{NHE} (mV)	Organic content (%)	IL (%)	TOC (mg/g-dry)	Soil particle density (g/cm ³)	grain size distribution									Median grain diameter (mm)	Maximum grain diameter (mm)
										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) (%)					
Abukuma River System	A-1	37.621000°	140.521783°	6.8	110	28.1	2.7	10.1	2.717	1.1	7.9	54.9	15.5	7.3	13.3	0.34	19	140	400	N.D.(0.17)
	A-2	37.567333°	140.394567°	6.6	12	17.8	1.8	6.1	2.788	32.1	34.6	26.9	3.6	1.1	1.7	1.3	19	83	220	—
	B-1	37.784333°	140.492417°	7.1	98	24.0	2.1	3.4	2.707	7.2	36.2	16.4	22.2	7.5	10.5	0.40	9.5	280	860	—
	B-2	37.812100°	140.505783°	7.0	130	27.0	2.2	2.1	2.754	1.5	7.3	63.2	24.1	1.5	2.4	0.35	19	110	280	—
	B-3	37.818200°	140.467883°	6.7	76	18.4	1.2	1.5	2.689	50.4	34.2	13.0	1.5	0.2	0.7	2.0	19	37	120	—
Udagawa River	C-1	37.795333°	140.745917°	6.7	61	21.8	2.9	5.3	2.750	63.9	21.0	8.7	3.0	1.4	2.0	2.7	19	270	770	—
	C-2	37.771750°	140.729033°	6.4	35	41.7	8.1	16.4	2.685	17.5	9.4	19.6	11.3	14.7	27.5	0.19	26.5	240	630	—
	C-4	37.768667°	140.844283°	7.4	78	24.1	1.6	1.1	2.720	38.6	37.0	22.9	0.6	0.9	—	1.5	9.5	170	520	0.45
	C-5	37.764600°	140.860300°	7.1	161	35.3	5.5	5.0	2.698	5.5	10.8	37.2	19.0	10.0	17.5	0.28	9.5	430	1,200	—
	C-6	37.776383°	140.887717°	7.4	123	23.2	1.6	1.1	2.729	16.8	17.1	45.8	9.4	3.4	7.5	0.60	26.5	180	480	—
Manogawa River	D-1	37.733100°	140.925400°	6.7	205	19.2	2.2	2.4	2.698	49.1	15.6	20.3	10.4	1.2	3.4	1.9	19	360	1,100	1.4
	D-2	37.709450°	140.956583°	6.8	231	14.8	1.1	1.6	2.710	51.6	31.5	15.2	0.8	0.2	0.7	2.1	19	130	380	—
	D-3	37.705100°	140.962250°	6.7	235	19.5	1.6	2.2	2.697	22.3	16.1	52.8	6.9	0.5	1.4	0.66	26.5	32	85	—
	D-4-a	37.730833°	140.908050°	7.1	249	19.0	1.6	1.5	2.713	36.4	44.1	16.9	2.0	0.2	0.4	1.5	19	270	890	—
	D-5	37.721383°	140.888883°	7.4	223	22.2	2.2	1.7	2.710	25.7	33.7	35.5	3.5	0.3	1.3	1.0	26.5	70	190	—
Niida River	E-1	37.660933°	140.911450°	6.8	236	17.8	0.8	1.3	2.678	43.2	40.0	15.9	0.2	0.2	0.5	1.7	19	290	840	N.D.(0.18)
	E-2-a	37.664000°	140.944717°	7.1	163	59.3	8.7	21.5	2.592	12.6	7.6	20.3	22.4	13.2	23.9	0.18	19	3,500	10,000	—
	E-3	37.644400°	141.001783°	7.2	159	13.4	1.1	1.5	2.687	40.1	14.0	41.7	2.6	0.3	1.3	1.0	19	120	390	—
	E-4	37.648467°	140.962950°	6.9	208	23.9	1.2	1.2	2.678	18.4	4.0	65.1	10.7	0.2	1.6	0.44	19	150	420	—
	E-5	37.665233°	140.916883°	6.6	222	14.6	1.5	2.1	2.701	45.9	19.0	29.4	3.8	0.8	1.1	1.7	26.5	360	1,000	—
Ota River	F-1	37.597533°	140.925167°	6.7	97	20.6	1.8	1.4	2.673	50.4	32.0	9.9	4.1	1.4	2.2	2.0	19	2,300	6,500	—
	F-2	37.601617°	140.942283°	6.8	116	17.0	0.7	0.9	2.663	50.0	34.4	12.6	1.0	0.7	1.3	2.0	9.5	1,200	3,300	0.37
	F-3	37.604517°	140.963617°	6.8	137	17.6	0.8	0.9	2.675	38.6	28.4	22.6	7.2	1.4	1.8	1.4	19	850	2,400	—
	F-4	37.606967°	140.971983°	6.8	166	18.2	0.7	0.7	2.658	39.1	35.6	20.5	3.0	0.2	1.6	1.6	19	650	1,800	—
	F-5	37.602183°	140.986750°	6.6	214	14.6	0.9	0.9	2.688	40.3	21.4	27.6	7.7	1.2	1.8	1.4	9.5	210	570	—
Lake Hayama (Mano Dam)	G-1	37.732050°	140.812717°	6.6	85	82.0	27.4	98.4	2.266	0.0	0.4	0.2	7.8	38.3	53.3	0.0035	2	4,800	13,000	7.3
	G-2	37.726733°	140.822333°	6.8	-20	76.9	16.5	47.9	2.545	0.0	0.1	0.4	0.8	37.1	61.6	0.0011	2	5,800	16,000	—
	G-3	37.730167°	140.830667°	6.9	21	50.6	7.1	20.8	2.663	10.1	12.0	18.5	14.0	19.3	26.1	0.12	19	1,400	4,000	—
	G-4	37.738200°	140.803450°	7.1	80	29.7	3.6	5.5	2.729	4.3	14.5	62.4	14.1	2.3	2.4	0.48	19	1,000	2,900	—
	G-5	37.734117°	140.808833°	6.7	42	77.7	26.1	110	2.357	0.0	0.1	0.6	4.6	47.6	47.1	0.0064	2	6,500	18,000	—
Lake Akimoto	H-1	37.657533°	140.126433°	6.5	14	65.8	8.3	24.5	2.582	0.0	0.0	0.1	0.3	54.7	44.9	0.0065	2	180	580	—
	H-2	37.661550°	140.122550°	6.6	23	77.3	12.6	39.8	2.463	0.0	0.2	0.2	0.2	44.3	55.1	0.0040	2	240	700	—
	H-3	37.665333°	140.132933°	6.3	-18	72.9	13.6	35.1	2.492	0.0	0.2	0.4	18.5	48.8	32.1	0.018	2	810	2,600	1.7
	H-4	37.655067°	140.118050°	6.4	11	69.0	9.5	32.0	2.561	1.9	0.4	0.5	1.6	40.3	55.3	0.0035	9.5	170	550	—
	H-5	37.652333°	140.156833°	6.6	-16	59.6	8.2	24.6	2.619	0.0	0.1	0.4	14.6	51.3	33.6	0.014	2	400	1,000	—
Lake Inawashiro	I-1	37.504683°	140.114333°	7.0	-24	68.8	5.8	11.4	2.604	3.3	4.4	37.9	33.5	6.3	14.6	0.23	9.5	630	1,900	N.D.(0.18)
	I-2	37.499467°	140.140883°	7.0	-50	70.0	7.7	20.1	2.585	0.2	0.7	2.3	33.5	32.6	30.7	0.031	4.75	250	680	—
	I-3	37.507700°	140.026250°	6.9	-49	66.5	8.7	21.5	2.661	0.0	0.4	3.8	28.8	38.4	28.6	0.026	2	23	77	—
	I-4	37.515967°	140.109167°	6.6	82	29.8	1.9	3.9	2.697	24.5	16.7	31.8	7.1	5.1	14.8	0.62	19	23	65	—
	J-1	37.420333°	140.100833°	7.0	85	28.0	1.7	5.5	2.666	0.7	6.6	77.3	14.5	0.3	0.6	0.34	4.75	57	210	—
Off the mouth of the Abukuma River (Off Watarai Town)	K-1	38.045683°	140.928233°	7.5	157	19.2	1.4	0.8	2.746	0.1	3.6	56.4	35.6	1.8	2.5	0.30	4.75	9.4	26	—
	K-2	38.045517°	140.940133°	7.6	146	31.2	3.2	4.4	2.729	0.0	0.0	0.8	67.4	17.4	14.4	0.11	2	62	170	N.D.(0.16)
	K-3	38.045833°	140.951800°	7.7	-134	49.5	6.3	12.1	2.706	0.0	0.3	0.1	15.1	50.0	34.5	0.019	2	130	350	—
Off Soma City (Matsukawaura)	L-1	37.820983°	140.960950°	7.7	53	42.1	4.7	9.8	2.666	0.0	0.2	5.5	42.6	20.1	31.6	0.061	2	140	420	—
	L-2	37.815517°	140.976333°	8.0	40	30.2	2.0	2.8	2.705	0.0	0.2	31.5	53.8	3.9	10.6	0.20	2	130	350	N.D.(0.17)
	L-3	37.821683°	140.976500°	8.2	47	22.1	1.0	0.8	2.744	0.4	0.4	54.4	41.0	0.6	3.2	0.27	9.5	6.9	20	—
Off Iwaki City (Hisanojima)	M-1	37.173617°	141.078800°	8.0	102	30.3	2.0	1.2	2.761	0.0	0.5	2.0	88.9	1.8	6.8	0.15	2	19	51	—
	M-2	37.199600°	141.085300°	8.0	124	26.7	2.0	1.1	2.792	0.0	0.9	2.2	92.2	0.3	4.4	0.16	2	16	45	N.D.(0.16)
	M-3	37.232417°	141.093517°	7.9	115	28.4	2.1	1.6	2.779	0.6	1.1	3.8	87.6	1.9	5.0	0.16	4.75	37	94	—

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

Results of Radionuclide Analysis of Aquatic Organisms, Radioactive Material Monitoring in the Water Environment (2014 June-July Survey)

Location	Location	Sampling Date	Division	Class	Order	Family	Species 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	2014/7/23	Abukuma River mainstream	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	5	0.20	Immature fish (1-year-old)	Contents available (details unknown)	Viscera removed	7.0	1.5	5.5	—																																																														
																			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	4	0.072	Mature fish (1-year-old)	Contents available (details unknown)	Viscera removed	10	2.8	7.3	—																																															
																																		Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	Pale chub	9	0.098	Mature fish (1-year-old)	Contents available (details unknown)	Viscera removed	11	3.1	8.0	—																																
																																																	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorffii	1	0.86	Mature fish (6-year-old)	Contents available (details unknown)	Viscera removed	16	4.4	12	—																	
																																																																Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	1	0.35	Mature fish (2-year-old)	Contents available (details unknown)	Viscera removed	22	5.9	16	—		
																																																																															Vertebrata	Osteichthyes
	Algae/plant	—	—	—	—	River bottom materials (incl. algae)	Considerable number	0.060	—	—	—	600	140	460	—																																																																	
																Arthropod	Insecta	Trichoptera	Stenopodochidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	88	0.035	Larva	—	—	—	109	29	80	—																																																	
																																Arthropod	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	albardae	102	0.081	Larva (dragonfly larva)	—	—	—	16	4.5	11	—																																	
																																																Arthropod	Malacostraca	Decapoda	Atyidae	Freshwater shrimp	—	1,582	0.17	Imago	—	—	—	36	9.2	27	—																	
																																																																Mollusca	Gastropoda	Sorbeconcha	Pleuroceridae	<i>Semilucospora libertina</i>	Semilucospora libertina	5	0.073	Imago	—	Molluscan body	—	30	7.7	22		
																																																																															Vertebrata	Osteichthyes
	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	3	0.020	Mature fish (1-year-old)	Contents available (details unknown)	Viscera removed	15	4.0	11	—																																																																	
																Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	5	0.042	Immature fish	—	—	—	20	5.1	15	—																																																	
																																Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	33	0.042	mature fish	Contents available (details unknown)	Viscera removed	15	3.9	11	—																																		
																																															Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Sema	1	0.27	Mature fish (2-year-old)	fish	Viscera removed	31	7.9	23	—																			
																																																														Vertebrata	Amphibia	Anura	Ranidae	<i>Rana rugosa</i>	Wrinkled Frog	3	0.012	Imago	—	—	—	24	5.7	18	—			
																																																																														Vertebrata	Amphibia	Anura
	Vertebrata	Amphibia	Caudata	Salamandridae	<i>Cynops pyrrhogaster</i>	Cynops pyrrhogaster	20	0.15	Imago	—	—	—	16	4.1	12																																																																	
																Coarse particulate organic matters (CPOMs)	—	—	—	—	fallen leaves	Considerable number	0.48	—	—	—	—	313	83	230	—																																																	
																																Vertebrata	Osteichthyes	Osmeriformes	Osmeridae	<i>Plecoglossus altivelis</i>	Sweetfish	59	1.9	mature fish	Contents available (details unknown)	Viscera removed	18	5.1	13	0.19																																		
																																															Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	3	0.79	Immature fish (4-year-old)	Contents available (details unknown)	Viscera removed	15	3.8	11	—																			
																																																														Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	5	7.8	Mature fish (6-year-old)	Empty stomach	Viscera removed	46	11	35	0.37				
																																																																													Vertebrata	Osteichthyes	Perciformes	Centrarchidae
	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	1	0.77	mature fish	Contents available (details unknown)	Viscera removed	38	10	28	—																																																																	
																Vertebrata	Osteichthyes	Siluriformes	Ictaluridae	<i>Ictalurus punctatus</i>	Channel catfish	2	3.0	mature fish	Insecta	Viscera removed	47	12	35	0.25																																																		
																															Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	4	0.082	Mature fish (1-year-old)	Contents available (details unknown)	Viscera removed	16	4.3	12	0.31																																			
																																														Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	Pale chub	7	0.15	Mature fish (3-year-old)	Contents available (details unknown)	Viscera removed	22	5.6	16	—																				
																																																													Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	2	1.7	Mature fish (2-year-old)	Contents available (details unknown)	Viscera removed	49	12	37	0.20					
																																																																												Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>
	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	5	1.8	Mature fish (5-year-old)	algae	Viscera removed	51	13	38	—																																																																	
																Algae/plant	—	—	—	—	River bottom materials (incl. algae)	Considerable number	0.056	—	—	—	202	52	150	—																																																		
																															Angiospermae	Monocotyledonae	Alismatales	Potamogetonaceae	<i>Potamogeton crispus</i>	Curly-leaf pondweed	Considerable number	0.70	—	—	—	—	16	4.4	12																																			
																																														Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Drunella cryptomeria</i>	Ephemerella cryptomeria	588	0.025	Larva	—	—	—	39	10	29																				
																																																													Arthropoda	Insecta	Ephemeroptera	Ephemeroptera	Heptageniidae	Heptageniidae	45	0.012	Larva	—	—	—	23	7.4	16					
																																																																												Arthropod	Insecta	Trichoptera	Stenopodochidae	<i>Stenopsyche marmorata</i>
	Arthropod	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	225	0.10	Larva (dragonfly larva)	—	—	—	14	4.1	10																																																																	
																Arthropod	Insecta	Odonata	Zygoptera	<i>Ameletus sieboldi</i>	Ameletus sieboldi	225	0.10	Larva (dragonfly larva)	—	—	—	14	4.1	10																																																		
																															Arthropod	Insecta	Odonata	Gomphidae	<i>Orychogomphus viridicostus</i>	Orychogomphus viridicostus	225	0.10	Larva (dragonfly larva)	—	—	—	14	4.1	10																																			
																																														Arthropod	Insecta	Gomphidae	Sieboldius albardae	Sieboldius albardae	—	—	—	—	—	—	—	—	—	—																				
																																																													Arthropod	Insecta	Megaloptera	Corydalidae	<i>Prothemis grandis</i>	Prothemis grandis	90	0.096	Larva	—	—	—	7.8	2.1	5.7					
																																																																												Arthropod	Malacostraca	Decapoda	Procambarus	<i>Procambarus clarkii</i>
	Vertebrata	Osteichthyes	Osmeriformes	Osmeridae	<i>Plecoglossus altivelis</i>	Sweetfish	22	0.54	mature fish	Contents available (details unknown)	Viscera removed	13	3.2	10	—																																																																	
																Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Nipponocypris temminckii</i>	Dark chub	9	0.094	Mature fish (1.2-year-old)	Insecta	Viscera removed	11	2.7	8.2	—																																																		
																															Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur Mimnow	5	0.024	Mature fish (1-year-old)	—	—	—	15	5.2	10																																			
Vertebrata																																														Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	5	0.083	Mature fish (1-year-old)	Empty stomach	Viscera removed	20	4.8	15	—																					
																																																												Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	19	0.10	mature fish	—	—	—	23	6.3	17	—					
																																																																												Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>
	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	23	0.12	Immature fish (under 1-year-old)	Stenopsyche marmorata	Viscera removed	6.5	1.9	4.6	—																																																																	
																Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	8	0.21	Immature fish (1-year-old)	Stenopsyche marmorata	Viscera removed	7.9	1.9	6.0	—																																																		
																															Vertebrata	Amphibia	Anura	Ranidae	<i>Rana catesbeiana</i>	American Bullfrog	1	0.12	Imago	—	—	—	11	2.4	8.4																																			
Vertebrata																																														Amphibia	Anura	Ranidae	<i>Rana rugosa</i>	Wrinkled Frog	12	0.043	Imago	—	—	—	23	5.9	17																					
																																																												Vertebrata	Amphibia	Anura	—	—	Frogs	23	0.037	Larva(tadpole)	—	—	—	254	64	190	—					
																																																																												Coarse particulate organic matters (CPOMs)	—	—	—	—

*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.

Results of Radionuclide Analysis of Aquatic Organisms, Radioactive Material Monitoring in the Water Environment (2014 June-July Survey)

Location	Location	Sampling Date	Division	Class	Order	Family	Species 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-5 C-6	—	Algae/plant	—	—	—	—	River bottom materials (incl. algae)	Considerable number	0.090	—	—	—	313	73	240	—			
			Arthropod	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	95	0.0071	Larva	—	—	—	147	37	110	—		
			Arthropod	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	192	0.045	Larva (dragonfly larva)	—	—	—	16	3.9	12	—		
			Arthropod	Insecta	Odonata	Gomphidae	<i>Davidius nanus</i>	<i>Davidius nanus</i>												
			Arthropod	Insecta	Odonata	Gomphidae	<i>Onychogomphus viridicostus</i>	<i>Onychogomphus viridicostus</i>	59	0.027	Larva	—	—	—	16	4.8	11	—		
			Arthropod	Insecta	Odonata	Gomphidae	<i>Stebolius albardae</i>	<i>Stebolius albardae</i>												
			Arthropod	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<i>Protohermes grandis</i>	6	0.033	Imago	—	—	—	19	5.4	14	—		
			Arthropod	Malacostraca	Decapoda	Procambarus	<i>Procambarus clarkii</i>	<i>Procambarus clarkii</i>	303	0.054	Imago	—	—	—	40	11	29	—		
			Arthropod	Malacostraca	Decapoda	Atyidae	<i>Atya</i>	<i>Atya</i>	17	0.36	Imago	—	—	—	36	9.9	26	—		
			Arthropod	Malacostraca	Decapoda	Grapsidae	<i>Eriocheir japonica</i>	<i>Eriocheir japonica</i>	26	0.044	Imago	—	—	Molluscan body	14	4.1	9.5	—		
			Mollusca	Gastropoda	Sorboconcha	Pleuroceridae	<i>Semislucospora libertina</i>	<i>Semislucospora libertina</i>	38	0.34	Mature fish (1,2,3-year-old)	Contents available (details unknown)	Viscera removed	23	5.7	17	—			
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Nipponocypris temminckii</i>	<i>Nipponocypris temminckii</i>	8	0.043	Mature fish (1,2-year-old)	Amur Mimow	—	—	54	14	40	—		
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	<i>Phoxinus lagowskii steindachneri</i>	4	0.042	Mature fish (1-year-old)	<i>Pseudogobio esocinus</i>	Contents available (details unknown)	Viscera removed	25	6.9	18	—		
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus</i>	<i>Pseudogobio esocinus</i>	6	0.038	Mature fish (1-year-old)	<i>Tribolodon hakonensis</i>	Contents available (details unknown)	Viscera removed	35	9.3	26	—		
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	<i>Tribolodon hakonensis</i>	7	0.038	Mature fish (1,2-year-old)	<i>Zacco platypus</i>	Contents available (details unknown)	Viscera removed	30	8.2	22	—		
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	<i>Zacco platypus</i>	16	0.095	Mature fish (1,3-year-old)	<i>Rhinogobius fluviatilis</i>	Ephemeroptera	Viscera removed	69	19	50	—		
			Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	<i>Rhinogobius fluviatilis</i>	30	0.074	mature fish	<i>R. sp. CB</i>	—	—	47	12	35	—		
			Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius sp.</i>	<i>Rhinogobius sp.</i>	2	0.026	mature fish	Oriental weatherfish	—	—	15	4.1	11	—		
			Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	<i>Misgurnus anguillicaudatus</i>	13	0.055	Imago	Frogs	—	—	174	44	130	—		
			Vertebrata	Amphibia	Anura	—	—	—	—	—	Fallen leaves	Considerable number	0.66	—	—	—	206	56	150	—
						Coarse particulate organic matters (CPOMs)	—	—	—	—	fallen leaves	Considerable number	0.66	—	—	—	206	56	150	—
			Location	Location	Sampling Date	Division	Class	Order	Family	Species 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	
			Mongonai River	D-4a D-4b	—	Algae/plant	—	—	—	—	River bottom materials (incl. algae)	Considerable number	0.063	—	—	—	221	51	170	—
						Angiospermae	Monocotyledoneae	Najadales	Potamogetonaceae	<i>Potamogeton bertholdii</i>	<i>Potamogeton bertholdii</i>	6	0.38	Small pondweed	—	—	—	25	6.3	19
Arthropod	Insecta	Trichoptera				Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	957	0.16	Larva	—	—	—	242	62	180	—		
Arthropod	Insecta	Megaloptera				Corydalidae	<i>Protohermes grandis</i>	<i>Protohermes grandis</i>	145	0.050	Larva	—	—	—	39	11	28	—		
Arthropod	Malacostraca	Decapoda				Procambarus	<i>Procambarus clarkii</i>	<i>Procambarus clarkii</i>	14	0.34	Imago	—	—	—	272	72	200	—		
Arthropod	Malacostraca	Decapoda				Atyidae	<i>Atya</i>	<i>Atya</i>	557	0.11	Imago	—	—	—	150	40	110	—		
Arthropod	Malacostraca	Decapoda				Grapsidae	<i>Eriocheir japonica</i>	<i>Eriocheir japonica</i>	6	0.040	Imago	—	—	—	152	42	110	—		
Mollusca	Bivalvia	Unionoidea				Unionidae	<i>Inversunio yokohamensis</i>	<i>Inversunio yokohamensis</i>	54	0.23	Imago	—	—	Molluscan body	202	52	150	—		
Mollusca	Gastropoda	Sorboconcha				Pleuroceridae	<i>Semislucospora libertina</i>	<i>Semislucospora libertina</i>	21	0.052	Imago	—	—	Molluscan body	114	31	83	—		
Vertebrata	Osteichthyes	Osmeniformes				Osmenidae	<i>Plecoglossus altivelis</i>	<i>Plecoglossus altivelis</i>	14	0.37	mature fish	Contents available (details unknown)	Viscera removed	73	20	53	—			
Vertebrata	Osteichthyes	Cypriniformes				Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorffii</i>	1	0.017	Immature fish (1-year-old)	Contents available (details unknown)	Viscera removed	293	73	220	—			
Vertebrata	Osteichthyes	Cypriniformes				Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	<i>Phoxinus lagowskii steindachneri</i>	4	0.018	Mature fish (1-year-old)	Amur Mimow	—	—	44	12	32	—		
Vertebrata	Osteichthyes	Cypriniformes				Cyprinidae	<i>Zacco platypus</i>	<i>Zacco platypus</i>	3	0.029	Mature fish (1-year-old)	<i>Zacco platypus</i>	algae	Viscera removed	159	39	120	—		
Vertebrata	Osteichthyes	Cypriniformes				Cobitidae	<i>Misgurnus anguillicaudatus</i>	<i>Misgurnus anguillicaudatus</i>	2	0.016	mature fish	Oriental weatherfish	—	—	161	41	120	—		
Vertebrata	Osteichthyes	Perciformes				Gobiidae	<i>Rhinogobius sp.</i>	<i>Rhinogobius sp.</i>	6	0.015	mature fish	<i>R. sp. CB</i>	—	—	176	46	130	—		
Vertebrata	Amphibia	Anura				Ranidae	<i>Rana rugosa</i>	<i>Rana rugosa</i>	1	0.017	Imago	Wrinkled Frog	—	—	50	13	37	—		
Vertebrata	Amphibia	Anura				—	—	—	—	—	Frogs	—	—	—	—	950	250	700	—	
						Coarse particulate organic matters (CPOMs)	—	—	—	—	Fallen leaves	Considerable number	0.42	—	—	—	390	100	290	—

*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.

Results of Radionuclide Analysis of Aquatic Organisms, Radioactive Material Monitoring in the Water Environment (2014 June-July Survey)

Location	Location	Sampling Date	Division	Class	Order	Family	Species 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						
Naha River	E-2a E-2b	2014/7/3	Algae/plant	—	—	—	—	River bottom materials (incl. algae)	Considerable number	0.026	—	—	—	245	65	180	—					
			Arthropoda	Insecta	Ephemeroptera	Potamanthidae	<i>Potamanthus formosus</i>	<i>Potamanthus formosus</i>	420	0.0093	Larva	—	—	—	900	250	650	—				
			Arthropoda	Insecta	Ephemeroptera	Isonychidae	<i>Isonychia japonica</i>	<i>Isonychia japonica</i>	—	—	—	—	—	—	—	—	—	—				
			Arthropoda	Insecta	Ephemeroptera	Ephemeridae	<i>Ephemera strigata</i>	<i>Ephemera strigata</i>	—	—	—	—	—	—	—	—	—	—				
			Arthropod	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	28	0.024	Larva	—	—	—	—	490	120	370	—			
			Arthropod	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	—	—	—	—	—	—	—	—	—	—				
			Arthropod	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>	—	—	—	—	—	—	—	—	—	—				
			Arthropod	Insecta	Odonata	Gomphidae	<i>Davidius nanus</i>	<i>Davidius nanus</i>	—	—	—	—	—	—	—	—	—	—				
			Arthropod	Insecta	Odonata	Gomphidae	<i>Onychogomphus viridicostus</i>	<i>Onychogomphus viridicostus</i>	278	0.043	Larva (dragonfly larva)	—	—	—	—	148	38	110	—			
			Arthropod	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	<i>Albardae</i>	—	—	—	—	—	—	—	—	—	—				
			Arthropod	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	<i>Boyeria maclachlani</i>	—	—	—	—	—	—	—	—	—	—				
			Arthropod	Insecta	Megaloptera	Corydalidae	<i>Prothemis grandis</i>	<i>Prothemis grandis</i>	38	0.014	Larva	—	—	—	—	72	23	49	—			
			Arthropod	Malacostraca	Decapoda	Procambarus	<i>Procambarus clarkii</i>	<i>Procambarus clarkii</i>	5	0.040	Imago	—	—	—	—	271	71	200	—			
			Arthropod	Malacostraca	Decapoda	Grapsidae	<i>Eriocheir japonica</i>	Japanese mitten crab	13	0.31	Imago	—	—	—	—	222	62	160	—			
			Arthropod	Malacostraca	Decapoda	Atyidae	—	Freshwater shrimp	207	0.034	幼体	—	—	—	—	188	48	140	—			
			Mollusca	Gastropoda	Sorboconcha	Pleuroceridae	<i>Semisulcospira libertina</i>	<i>Semisulcospira libertina</i>	34	0.095	Imago	—	—	shell	—	14	3.6	10	—			
			Mollusca	Gastropoda	Sorboconcha	Pleuroceridae	<i>Semisulcospira libertina</i>	<i>Semisulcospira libertina</i>	34	0.045	Imago	—	—	Molluscan body	—	136	36	100	—			
			Vertebrata	Osteichthyes	Osmeriformes	Osmeridae	<i>Plecoglossus altivelis</i>	Sweetfish	10	0.12	Immature fish	Contents available (details unknown)	—	Viscera removed	—	131	36	95	—			
			Vertebrata	Osteichthyes	Osmeriformes	Osmeridae	<i>Plecoglossus altivelis</i>	Sweetfish	10	0.14	Immature fish	Contents available (details unknown)	—	Viscera removed	—	356	96	260	—			
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorffii</i>	17	0.24	Immature fish	Contents available (details unknown)	—	Viscera removed	—	160	40	120	—			
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	11	0.097	Mature fish (1.2-year-old)	Contents available (details unknown)	—	Viscera removed	—	203	53	150	—			
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	Pale chub	15	0.13	mature fish	algae	—	Viscera removed	—	150	40	110	—			
			Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius sp.</i>	Rhinogobius	28	0.11	mature fish	—	—	—	—	245	65	180	—			
			Vertebrata	Amphibia	Anura	Ranidae	<i>Rana catesbeiana</i>	American Bullfrog	14	0.13	Larva(tadpole)	—	—	—	—	1,490	390	1,100	—			
							Coarse particulate organic matters (CPOMs)	—	—	—	Fallen leaves	Considerable number	1.6	—	—	—	1,080	280	800	—		
			Oki River	F-1	2014/7/1 2014/7/4	Algae/plant	—	—	—	—	River bottom materials (incl. algae)	Considerable number	0.026	—	—	—	690	180	510	—		
						Bryopsida	Sphagnopsida	Sphagnales	Sphagnaceae	<i>Sphagnum sp.</i>	<i>Sphagnum sp.</i>	—	—	—	—	—	—	1,330	360	970	—	
						Arthropod	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	—	—	—	—	—	—	—	—	—	—	
						Arthropod	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>	—	—	—	—	—	—	—	—	—	—	
						Arthropod	Insecta	Odonata	Gomphidae	<i>Asiagomphus melanocephalus</i>	<i>Asiagomphus melanocephalus</i>	104	0.030	Larva (dragonfly larva)	—	—	—	—	404	94	310	—
						Arthropod	Insecta	Odonata	Gomphidae	<i>Onychogomphus viridicostus</i>	<i>Onychogomphus viridicostus</i>	—	—	—	—	—	—	—	—	—	—	
						Arthropod	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	<i>albardae</i>	—	—	—	—	—	—	—	—	—	—	
						Arthropod	Malacostraca	Decapoda	Procambarus	<i>Procambarus clarkii</i>	Red swamp crayfish	3	0.073	Imago	—	—	—	—	770	290	570	—
Arthropod	Malacostraca	Decapoda				Palaeomonidae	<i>Palaeomon pascuensis</i>	Common river prawn	44	0.058	Imago	—	—	—	—	830	220	610	—			
Arthropod	Malacostraca	Decapoda				Atyidae	—	Freshwater shrimp	335	0.076	Imago	—	—	—	—	1,080	290	790	—			
Arthropod	Malacostraca	Decapoda				Grapsidae	<i>Eriocheir japonica</i>	Japanese mitten crab	1	0.064	Imago	—	—	—	—	1,160	300	860	—			
Mollusca	Gastropoda	Sorboconcha				Pleuroceridae	<i>Semisulcospira libertina</i>	<i>Semisulcospira libertina</i>	60	0.12	Imago	—	—	Molluscan body	—	212	52	160	—			
Vertebrata	Osteichthyes	Cypriniformes				Cyprinidae	<i>Nipponocypris temminckii</i>	Dark chub	4	0.022	Mature fish (1-year-old)	Terrestrial insect	—	Viscera removed	—	480	130	350	—			
Vertebrata	Osteichthyes	Cypriniformes				Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	5	0.037	Mature fish (1-year-old)	Contents available (details unknown)	—	Viscera removed	—	1,070	280	790	—			
Vertebrata	Osteichthyes	Cypriniformes				Cyprinidae	<i>Zacco platypus</i>	Pale chub	10	0.067	Mature fish (1.2-year-old)	Contents available (details unknown)	—	Viscera removed	—	580	160	420	—			
Vertebrata	Osteichthyes	Cypriniformes				Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	2	0.012	mature fish	—	—	—	—	730	200	530	—			
Vertebrata	Osteichthyes	Perciformes				Gobiidae	<i>Rhinogobius sp.</i>	Rhinogobius	7	0.022	mature fish	—	—	—	—	2,200	600	1,600	—			
Vertebrata	Amphibia	Anura				Ranidae	<i>Rana rugosa</i>	Wrinkled Frog	2	0.013	Imago	—	—	—	—	269	79	190	—			

*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.

Results of Radionuclide Analysis of Aquatic Organisms, Radioactive Material Monitoring in the Water Environment (2014 June-July Survey)

Location	Location	Sampling Date	Division	Class	Order	Family	Species 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 Biwama	G-1 G-2 G-3	In the lake	2014/6/30	Algae/plant	—	Algae/plant	—	Plankton(singular plankter)	Considerable number	0.011	—	—	—	104	30	74	—		
			2014/7/16	Vertebrata	Osteichthyes	Vertebrata	Osteichthyes	<i>Carassius auratus</i>	Carassius auratus langsdorffii	2	2.5	Mature fish (9-year-old)	Contents available (details unknown)	Viscera removed	350	90	260	1.0	
			2014/7/17	Vertebrata	Osteichthyes	Vertebrata	Osteichthyes	<i>Micropterus dolomieu</i>	Small mouth bass	2	1.4	Mature fish (2-year-old)	Empty stomach	Viscera removed	1,070	280	790	2.3	
	G-4	Inflowing rivers	2014/6/30	Vertebrata	Osteichthyes	Vertebrata	Osteichthyes	<i>Silurus asotus</i>	Amur catfish	1	0.72	mature fish	Empty stomach	Viscera removed	1,160	300	860	—	
				Arthropod	Insecta	Arthropod	Insecta	<i>Macronema amphigena amphigena</i>	Macronema amphigena	—	—	—	—	—	—	—	—	—	
				Arthropod	Insecta	Arthropod	Insecta	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii	42	0.017	Larva (dragonfly larva)	—	—	—	80	21	59	—
				Arthropod	Insecta	Arthropod	Insecta	<i>Sieboldius albaridus</i>	Albaridag	—	—	—	—	—	—	—	—	—	—
				Arthropod	Insecta	Arthropod	Insecta	<i>Anax varbianope julius</i>	Anax varbianope	—	—	—	—	—	—	—	—	—	—
				Mollusca	Gastropoda	Mollusca	Gastropoda	<i>Semisulcospira libertina</i>	Semisulcospira libertina	25	0.032	Imago	—	—	Molluscan body	111	29	82	—
			2014/7/1	Vertebrata	Osteichthyes	Vertebrata	Osteichthyes	<i>Micropterus dolomieu</i>	Small mouth bass	3	2.2	Mature fish (3-year-old)	aquatic insects, crustaceans, fish	Viscera removed	1,200	320	880	2.0	
				Vertebrata	Osteichthyes	Vertebrata	Osteichthyes	<i>Rhinogobius fluminus</i>	Rhinogobius fluminus	18	0.032	mature fish	—	—	221	61	160	—	
				Coarse particulate organic matters (CPOMs)	—	Coarse particulate organic matters (CPOMs)	—	—	—	—	—	—	—	—	—	640	170	470	—
				Algae/plant	—	Algae/plant	—	—	—	—	—	—	—	—	—	550	150	400	—
				Arthropod	Insecta	Arthropod	Insecta	<i>Prothohermes grandis</i>	Prothohermes grandis	26	0.018	Larva	—	—	—	63	15	48	—
				Vertebrata	Osteichthyes	Vertebrata	Osteichthyes	<i>Tribolodon hakonensis</i>	Japanese dace	4	0.052	Mature fish (1.2-year-old)	Empty stomach	Viscera removed	203	53	150	—	
Vertebrata	Osteichthyes	Vertebrata	Osteichthyes	<i>Oncorhynchus masou</i>	Yamame trout	10	0.14	Immature fish (1-year-old)	Terrestrial insect, amelid	Viscera removed	179	49	130	—					
Country site	H-1 H-2 H-3(Including the Nakatsu River area) Near the h-4	2014/6/24	In the lake	Algae/plant	—	—	—	Plankton(singular plankter)	Considerable number	0.019	—	—	—	149	39	110	—		
			In the lake	Angiospermae	Monocotyledoneae	Hydrocharitales	Hydrocharitaceae	<i>Eloдея nuttallii</i>	Western Waterweed	Considerable number	0.39	—	—	—	13	3.5	9.2	—	
			Inflowing rivers	Arthropod	Insecta	Plecoptera	Perlidae	<i>Acronuria sp.</i>	Acronuria	—	—	—	—	—	—	—	—	—	
			Inflowing rivers	Arthropod	Insecta	Plecoptera	Perlidae	<i>Calineuria sp.</i>	Calineuria	70	0.012	Larva	—	—	—	4.4	N.D.(2.9)	4.4	—
			Inflowing rivers	Arthropoda	Insecta	Plecoptera	Perlidae	<i>Kamimuria sp.</i>	Kamimuria quadrata	—	—	—	—	—	—	—	—	—	
			Inflowing rivers	Arthropod	Insecta	Odonata	Cordulegastriidae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii	39	0.022	Larva (dragonfly larva)	—	—	—	14	3.5	10	—
			In the lake	Arthropod	Malacostraca	Decapoda	Astacidae	<i>Pacifastacus leniusculus trowsbridgii</i>	Signal crayfish	49	3.2	Imago	—	—	—	50	13	37	9.5
			In the lake	Mollusca	Gastropoda	Sorboconcha	Pleuroceridae	<i>Semisulcospira libertina</i>	Semisulcospira libertina	245	0.26	Imago	—	—	Molluscan body	59	15	44	—
			Inflowing rivers	Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	22	0.029	Immature fish	aquatic insects	Viscera removed	18	4.4	14	—	
			Inflowing rivers	Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	17	0.11	Mature fish (3-year-old)	aquatic insects	Viscera removed	26	7.0	19	—	
			In the lake	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	3.5	mature fish	Contents available (details unknown)	Viscera removed	43	10	33	1.2	
			In the lake	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorffii	3	0.90	Mature fish (3.4-year-old)	Empty stomach	Viscera removed	89	22	67	—	
			In the lake	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorffii	3	3.1	mature fish	Empty stomach	Viscera removed	79	20	59	1.5	
			In the lake	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	2	1.1	Mature fish (4-year-old)	aquatic insects	Viscera removed	97	25	72	—	
			In the lake	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur Minnow	8	0.028	Immature fish (2.3-year-old)	—	—	—	14	3.1	11	—
			In the lake	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	7	1.7	Mature fish (4-year-old)	aquatic insects	Viscera removed	117	31	86	0.93	
			In the lake	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Chir	5	1.7	Mature fish (3.4-year-old)	terrestrial insect, fish, crustaceans	Viscera removed	73	18	55	0.42	
			In the lake	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Seema	3	0.66	Mature fish (2-year-old)	terrestrial insect	Viscera removed	53	15	38	—	
			In the lake	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	1	0.094	Immature fish (2-year-old)	terrestrial insect, aquatic insects	Viscera removed	30	7.4	23	—	
			In the lake	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	11	2.2	Immature fish (2-year-old)	fish, crustaceans, aquatic insects	Viscera removed	114	28	86	—	
			In the lake	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	4	4.0	Mature fish (3.4-year-old)	fish, crustaceans	Viscera removed	176	46	130	1.1	
			In the lake	Vertebrata	Amphibia	Anura	—	—	—	—	—	—	—	—	—	19	5.7	13	—
			In the lake	Vertebrata	Amphibia	Anura	—	—	—	—	—	—	—	—	—	232	62	170	—
			In the lake	Vertebrata	Amphibia	Caudata	Salamandridae	<i>Cynops pyrrhogaster</i>	Cynops pyrrhogaster	4	0.022	Imago	—	—	—	19	5.2	14	—
			Inflowing rivers	coarse particulate organic matters (CPOMs)	—	—	—	—	—	—	—	—	—	—	—	86	22	64	—

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 *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.

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Location	Location	Sampling Date	Division	Class	Order	Family	Species 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)	—	Coarse particulate organic matters (CPOMs)	—	—	—	—	fallen leaves	Considerable number	0.91	—	—	—	21	5.7	15	—				
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorffii	6	1.9	Mature fish (5.6-year-old)	Contents available (details unknown)	Viscera removed	57	15	42	0.47			
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	5	0.36	Immature fish (2-year-old)	Contents available (details unknown)	Viscera removed	52	21	31	—			
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	5	2.1	Mature fish (4-year-old)	Contents available (details unknown)	Viscera removed	50	12	38	0.42			
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus</i>	Pseudogobio esocinus	17	0.40	Mature fish (1.2,3-year-old)	Aquatic insect larva	Viscera removed	17	4.3	13	—			
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	15	0.71	Mature fish (2-year-old)	Aquatic insect larva	Viscera removed	58	15	43	—			
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	4	0.49	Mature fish (3-year-old)	Aquatic insect larva	Viscera removed	80	21	59	—			
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	4	1.1	Mature fish (2-year-old)	fish	Viscera removed	116	30	86	—			
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	2	1.2	Mature fish (3.4-year-old)	fish	Viscera removed	131	34	97	—			
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Scema	2	0.86	Mature fish (1.2-year-old)	Contents available (details unknown)	Viscera removed	148	38	110	—			
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Scema	1	1.1	Mature fish (3-year-old)	fish	Viscera removed	138	38	100	—			
				J-1 (south lakeside)	—	2014/6/26	Algae/plant	—	—	—	—	Plankton(singular plankter)	Considerable number	0.015	—	—	—	3.6	N.D.(2.3)	3.6	—
							Angiospermae	Dicotyledoneae	Nymphaeales	Nymphaeaceae	<i>Nuphar japonicum</i>	Cow lily	Considerable number	1.9	—	—	—	1.7	0.36	1.3	—
							Magnoliophyta	Magnoliopsida	Solanales	Menyanthaceae	<i>Nymphoides peltata</i>	Fringed water-lily	Considerable number	1.6	—	—	—	0.45	N.D.(0.36)	0.45	—
	Arthropod	Malacostraca	Decapoda				Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	964	0.23	Imago	—	—	—	16	4.1	12	—		
	Mollusca	Gastropoda	Architaenioglossa				Viviparidae	<i>Bellamyia japonica</i>	Japanese mysterysnail	16	0.11	Imago	—	—	Molluscan body	12	2.4	9.7	—		
	Vertebrata	Osteichthyes	Cypriniformes				Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	9	0.32	mature fish	Contents available (details unknown)	Viscera removed	84	23	61	—			
	Vertebrata	Osteichthyes	Cypriniformes				Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	22	0.16	mature fish	—	—	—	1.9	0.68	1.2	—		
	Vertebrata	Amphibia	Anura				Ranidae	<i>Rana rugosa</i>	Wrinkled Frog	21	0.17	Imago	—	—	—	3.1	0.94	2.2	—		
	Vertebrata	Amphibia	Anura				Ranidae	<i>Rana porosa porosa</i>	Daruma pond frog	12	0.12	Imago	—	—	—	2.9	0.75	2.1	—		
	Vertebrata	Amphibia	Anura				—	—	Frogs	490	0.11	Larva(tadpole)	—	—	—	47	13	34	—		
	Vertebrata	Amphibia	Caudata				Salamandridae	<i>Cynops pyrrhogaster</i>	Cynops pyrrhogaster	5	0.021	Imago	—	—	—	37	9.7	27	—		
	Vertebrata	Osteichthyes	Cypriniformes				Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorffii	64	0.47	Immature fish (1-year-old)	—	—	—	18	4.5	13	—		
	Vertebrata	Osteichthyes	Cypriniformes				Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorffii	10	1.0	mature fish	Contents available (details unknown)	Viscera removed	71	18	53	—			
	Vertebrata	Osteichthyes	Cypriniformes				Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	3	0.25	Immature fish (2-year-old)	Aquatic insect larva	Viscera removed	51	13	38	—			
	Vertebrata	Osteichthyes	Cypriniformes				Cyprinidae	<i>Pseudogobio esocinus</i>	Pseudogobio esocinus	118	2.1	Mature fish (1.2,3-year-old)	Aquatic insect larva	Viscera removed	22	5.6	16	0.47			
	Vertebrata	Osteichthyes	Cypriniformes				Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	60	1.7	mature fish	Aquatic insect larva	Viscera removed	51	13	38	—			
	Vertebrata	Osteichthyes	Cypriniformes				Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	29	2.2	mature fish	Aquatic insect larva	Viscera removed	99	25	74	0.27			
	Vertebrata	Osteichthyes	Cypriniformes				Cyprinidae	<i>Zacco platypus</i>	Pale chub	22	0.38	Mature fish (1-year-old)	algae	Viscera removed	12	3.0	8.9	—			
	Vertebrata	Osteichthyes	Perciformes				Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	1	0.16	Immature fish (1.2-year-old)	fish	Viscera removed	71	19	52	—			

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*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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Results of Radionuclide Analysis of Aquatic Organisms, Radioactive Material Monitoring in the Water Environment (2014 June-July Survey)

Location	Location	Sampling Date	Division	Class	Order	Family	Species 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						
Offshore of Abukuma River Estuary	Surrounding waters area offshore of Abukuma River Estuary	2014/7/2	Arthropod	Malacostraca	Decapoda	Portunidae	<i>Portunus trituberculatus</i>	Japanese blue crab	5	2.2	Imago	—	—	3.2	1.1	2.1	0.074					
			Mollusca	Cephalopoda	Sepiida	Sepiidae	<i>Sepia japonica</i>	Cuttlefish	7	2.3	Imago	—	—	0.30	N.D.(0.34)	0.30	0.018					
			Chordata	Actinopterygii	Scorpaeniformes	Platycephalidae	<i>Platycephalus sp.</i>	Flathead	5	2.8	Mature fish (4-year-old)	fish	Viscera removed	2.9	0.75	2.1	0.035					
			Vertebrata	Osteichthyes	Pleuronectiformes	Paralichthyidae	<i>Paralichthys olivaceus</i>	Bastard halibut	4	4.5	Mature fish (2-year-old)	Empty stomach	Viscera removed	2.3	0.56	1.7	N.D.(0.011)					
			Chordata	Actinopterygii	Perciformes	Sciaenidae	<i>Nibea misakuri</i>	Nibe croaker	5	2.4	Mature fish (3.4-year-old)	fish	Viscera removed	2.2	0.56	1.6	0.054					
			Vertebrata	Osteichthyes	Zeiformes	Zeidae	<i>Zeus faber</i>	John dory	2	2.8	mature fish	fish	Viscera removed	3.5	1.0	2.5	N.D.(0.012)					
Off the mouth of the Sena City	L-1 L-2 L-3 Matsukawaura	2014/7/16	Algae/plant	—	—	—	—	Plankton(singular plankter)	Considerable number	0.024	—	—	—	288	68	220	—					
			Angiospermae	Monocotyledonae	Najadales	Zosteraceae	<i>Zostera marina</i>	Wetland grass	2.1	—	—	—	—	1.7	0.45	1.2	—					
			Chlorophyta	Ulvoephyceae	Ulvaales	Ulvacae	<i>Ulva pertusa</i>	Ulva pertusa	Considerable number	3.3	—	—	—	5.0	1.3	3.7	—					
			Arthropoda	Malacostraca	Mysida	Mysidae	Mysidae	Mysidae	Considerable number	0.13	Imago	—	—	—	4.4	1.2	3.2	—				
			Arthropoda	Malacostraca	Decapoda	Palaemonidae	Palaemonidae	Palaemonidae	55	0.029	Imago	—	—	—	N.D.	N.D.(1.3)	N.D.(1.2)	—				
			Arthropod	Malacostraca	Decapoda	Grapsidae	Grapsidae	<i>Erocheir japonica</i>	Japanese mitten crab	3	0.15	Imago	—	—	—	15	4.2	11	—			
			Arthropoda	Malacostraca	Decapoda	Varunidae	Varunidae	<i>Hemigrapsus sp.</i>	Hemigrapsus	290	0.35	Imago	—	—	—	9.8	2.7	7.1	—			
			Amelida	Polychaeta	—	—	—	—	Polychaetes	289	0.071	Imago	—	—	—	38	8.8	29	—			
			Mollusca	Bivalvia	Pterioida	Ostreidae	<i>Crassostrea gigas</i>	Japanese oyster	12	0.45	Imago	—	—	Molluscan body	0.85	N.D.(0.34)	0.85	—				
			Mollusca	Bivalvia	Veneridae	Veneridae	<i>Ruditapes philippinarum</i>	Japanese littleneck	59	0.39	Imago (2.3,4-year-old)	—	—	Molluscan body	2.9	0.83	2.1	—				
			Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Acanthogobius flavimanus</i>	Yellowfin Goby	4	0.059	mature fish	—	—	—	4.7	1.3	3.4	—				
			Chordata	Actinopterygii	Perciformes	Pholidae	<i>Pholis crassispina</i>	Pholis crassispina	15	0.030	mature fish	—	—	—	2.1	N.D.(1.6)	2.1	—				
			Vertebrata	Osteichthyes	Mugiliformes	Mugilidae	<i>Mugil cephalus</i>	Flathead mullet	42	0.16	Immature fish (under 1-year-old)	—	—	—	73	19	54	—				
			Off the mouth of the Iwaki City	M-1 M-2 M-3 M-4	2014/7/18	Hisanohama Coastal areas	Phaeophyta	Phaeophyceae	Fucales	Sargassaceae	<i>Sargassum horneri</i>	Sargassum horneri	Considerable number	4.2	—	—	—	8.2	2.1	6.1	—	
						Hisanohama Coastal areas	Heterokontophyta	Phaeophyceae	Laminariales	Laminariaceae	<i>Laminaria sp.</i>	Laminaria sp.	Considerable number	9.8	—	—	—	0.71	0.17	0.54	—	
						Hisanohama Coastal areas	Echinoderm	Echinozoa	Echinozoa	Syringocentrotidae	<i>Syringocentrotus nudus</i>	Northern sea urchin	22	2.2	Imago	—	—	—	3.2	0.75	2.4	4.4
						Offshore of Hisanohama	Echinoderm	Echinozoa	Echinozoa	Phymosomatidae	<i>Glyptocidaris crenularis</i>	Sea urchin	15	0.92	Imago	—	—	—	10	2.7	7.4	—
Offshore of Hisanohama	Echinodermata	Holothuroidea				Aspidochirotrida	Stichopodidae	<i>Apostichopus japonicus</i>	Japanese common sea cucumber	3	0.35	Imago	—	—	—	2.5	0.86	1.6	—			
Offshore of Hisanohama	Echinodermata	Asteroida				Forcipulatida	Asteridae	<i>Distolasterias nippon</i>	Distolasterias nippon	3	1.7	Imago	—	—	—	N.D.	N.D.(0.31)	N.D.(0.28)	—			
Hisanohama Coastal areas	Mollusca	Gastropoda				Archaeogastropoda	Haliotis asimina	<i>Haliotis discus</i>	Abalone	8	1.4	Imago	—	—	Molluscan body	3.0	0.78	2.2	—			
Offshore of Hisanohama	Vertebrata	Osteichthyes				Lophiiformes	Lophiidae	<i>Lophius setigerus</i>	Monkfish	1	1.4	Mature fish (7-year-old)	Empty stomach	Viscera removed	0.92	0.28	0.64	—				
Offshore of Hisanohama	Vertebrata	Osteichthyes				Pleuronectiformes	Pleuronectiformes	<i>Pseudopleuronectes herzensteini</i>	Yellow striped flounder	7	2.5	Mature fish (2,3,4-year-old)	shellfish	Viscera removed	6.9	1.9	5.0	0.064				
Offshore of Hisanohama	Vertebrata	Osteichthyes				Pleuronectiformes	Pleuronectiformes	<i>Righteye flounder</i>	Shotted halibut	7	2.5	Mature fish (2,3,4-year-old)	crustaceans	Viscera removed	2.6	0.49	2.1	—				
Offshore of Hisanohama	Vertebrata	Osteichthyes				Pleuronectiformes	Pleuronectiformes	<i>Viscous yokohamae</i>	Marbled sole	8	5.6	Mature fish (3,4-year-old)	Polychaeta	Viscera removed	8.2	2.2	6.0	0.062				
Offshore of Hisanohama	Vertebrata	Osteichthyes				Pleuronectiformes	Paralichthyidae	<i>Paralichthys olivaceus</i>	Bastard halibut	3	6.7	Mature fish (3,4,5-year-old)	fish	Viscera removed	4.8	1.3	3.5	N.D.(0.019)				
Offshore of Hisanohama	Vertebrata	Osteichthyes				Hexagrammidae	Hexagrammidae	<i>Hexagrammos otakii</i>	Fat greenling	2	1.3	Mature fish (4,6-year-old)	crustaceans	Viscera removed	19	5.2	14	—				
Offshore of Hisanohama	Vertebrata	Osteichthyes				Scorpaeniformes	Trigidae	<i>Lepidotrigla microptera</i>	Scorabin	12	1.9	Mature fish (3-year-old)	crustaceans, Polychaeta	Viscera removed	2.2	0.40	1.8	—				
Offshore of Hisanohama	Vertebrata	Osteichthyes				Perciformes	Polyprionidae	<i>Stereolepis doederleini</i>	Striped jewfish	1	1.1	Mature fish (3-year-old)	Empty stomach	Viscera removed	2.4	0.62	1.8	—				
Offshore of Hisanohama	Vertebrata	Osteichthyes				Perciformes	Carangidae	<i>Trachurus japonicus</i>	Japanese jack mackerel	1	0.52	Mature fish (4-year-old)	fish	Viscera removed	1.7	0.53	1.2	—				
Offshore of Hisanohama	Vertebrata	Osteichthyes				Sparidae	Sparidae	<i>Eymnis japonica</i>	Crimson sea-bream	4	1.0	Mature fish (4-year-old)	crustaceans	Viscera removed	2.6	0.72	1.9	—				
Offshore of Hisanohama	Vertebrata	Osteichthyes				Tetraodontiformes	Tetraodontidae	<i>Takifugu porphyreus</i>	Purple puffer	1	0.67	mature fish	Empty stomach	Viscera removed	1.6	0.47	1.1	—				
Offshore of Hisanohama	Vertebrata	Osteichthyes				Zeiformes	Zeidae	<i>Zenopsis nebulosa</i>	Dory	5	0.23	mature fish	Contents available (details unknown)	Viscera removed	0.98	0.41	0.57	—				
Offshore of Hisanohama	Vertebrata	Chondrichthyes				Carcharhiniformes	Triakidae	<i>Mustelus manazo</i>	Star-spotted smooth-hound	3	4.7	mature fish	crustaceans	Viscera removed	19	4.8	14	0.037				
Offshore of Hisanohama	Vertebrata	Chondrichthyes	Rajiformes	Rajidae	<i>Okamejei tenuis</i>	Skate	5	4.1	mature fish	crustaceans	Viscera removed	55	14	41	0.26							

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