

○ Results (water)

Locations				2016 May - June Survey											
		Latitude	Longitude	pH	BOD (mg/L)	COD (mg/L)	DO (mg/L)	Electric conductivity (mS/m)	Salinity	TOC (mg/L)	SS (mg/L)	Turbidity (FNU)	Cs-134 (Bq/L)	Cs-137 (Bq/L)	Sr-90 (Bq/L)
Abukuma River System	A-1(Surface layer)	37.6210°	140.5218°	7.4	1.7	4.9	8.8	20.6	0.10	1.9	7	4.2	0.0062	0.030	0.0017
	A-1(Bottom layer)	37.6210°	140.5218°	7.4	1.8	5.3	8.9	20.8	0.10	2.0	10	4.8	0.0054	0.028	-
	A-2	37.5673°	140.3946°	7.5	<0.5	3.1	9.5	12.7	0.07	1.0	4	2.4	0.0037	0.020	-
	B-1	37.7843°	140.4924°	7.5	1.1	4.9	9.5	21.0	0.10	1.8	7	4.2	0.0051	0.025	-
	B-2	37.8121°	140.5058°	7.5	1.1	4.3	9.4	19.5	0.10	1.7	5	3.6	0.0066	0.026	-
	B-3	37.8182°	140.4679°	7.7	0.7	3.4	10.0	8.9	0.05	1.1	3	2.7	0.017	0.082	-
Uda River	C-1	37.7953°	140.7459°	7.3	<0.5	1.9	10.4	10.1	0.05	0.6	1	0.8	0.0032	0.017	-
	C-2	37.7718°	140.7290°	7.2	0.5	5.1	9.0	10.0	0.05	2.2	4	3.1	0.010	0.049	-
	C-3	37.7792°	140.8040°	7.5	<0.5	2.8	9.4	8.5	0.05	1.1	2	1.1	0.0038	0.021	-
	C-4	37.7687°	140.8443°	7.6	<0.5	2.2	9.8	8.6	0.05	0.8	1	0.7	0.0026	0.015	0.00098
	C-5	37.7646°	140.8603°	7.7	<0.5	1.9	9.8	8.8	0.05	0.8	<1	0.8	0.0039	0.020	-
	C-6	37.7764°	140.8877°	7.7	<0.5	2.8	9.9	10.6	0.06	1.2	6	7.3	0.0079	0.037	-
Mano River	D-1	37.7331°	140.9254°	7.4	0.9	2.9	10.1	8.6	0.05	1.1	1	1.7	0.0047	0.021	0.0015
	D-2	37.7095°	140.9566°	7.4	1.0	2.9	9.8	10.3	0.06	1.1	2	2.0	0.0041	0.021	-
	D-3	37.7051°	140.9623°	7.2	0.9	3.0	10.4	11.1	0.06	1.2	2	2.4	0.0035	0.016	-
	D-4 a	37.7308°	140.9081°	7.4	0.8	3.0	9.8	8.7	0.05	1.1	1	1.5	0.0037	0.022	-
	D-4 b	37.7312°	140.9096°	7.5	0.9	3.2	9.9	8.6	0.05	1.2	2	1.6	0.0055	0.024	-
	D-5	37.7214°	140.8889°	7.6	0.9	3.0	10.2	8.0	0.04	1.2	1	1.4	0.0057	0.026	-
Niida River	E-1	37.6609°	140.9115°	7.3	0.7	2.8	9.4	6.7	0.04	0.9	2	1.5	0.0092	0.045	0.0020
	E-2 a	37.6640°	140.9447°	7.2	0.6	2.5	9.4	8.1	0.05	0.8	<1	1.4	0.0071	0.034	-
	E-2 b	37.6635°	140.9452°	7.2	0.7	2.4	9.4	8.2	0.05	0.8	1	1.3	0.0070	0.036	-
	E-3	37.6444°	141.0018°	7.3	2.0	4.2	9.4	10.6	0.06	1.4	4	2.9	0.012	0.055	-
	E-4	37.6485°	140.9630°	7.2	0.8	3.2	9.7	8.9	0.05	1.1	2	2.5	0.0082	0.042	-
	E-5	37.6652°	140.9169°	7.4	0.7	2.5	9.8	7.3	0.04	0.9	2	1.3	0.0097	0.047	-
Ota River	F-1	37.5975°	140.9252°	6.9	0.8	2.6	9.9	5.4	0.03	0.9	1	0.9	0.038	0.18	-
	F-2	37.6016°	140.9423°	7.0	0.9	2.6	9.8	6.4	0.04	0.8	1	1.0	0.035	0.17	0.0042
	F-3	37.6045°	140.9636°	7.0	0.7	2.4	9.5	6.6	0.04	0.7	2	0.6	0.028	0.13	-
	F-4	37.6070°	140.9720°	6.9	0.6	1.6	9.5	7.0	0.04	0.4	<1	0.9	0.020	0.092	-
	F-5	37.6022°	140.9868°	6.9	0.7	2.7	10.0	8.4	0.05	0.9	3	1.6	0.019	0.092	-
	F-6	37.5953°	141.0123°	6.9	1.1	5.0	9.0	14.0	0.07	1.7	8	3.9	0.020	0.098	-
Lake Hayama (Mano Dam)	G-1(Surface layer)	37.7321°	140.8127°	7.6	3.1	6.7	9.7	7.2	0.04	1.8	6	3.4	0.0096	0.053	-
	G-1(Bottom layer)	37.7321°	140.8127°	7.4	1.7	4.5	8.3	7.3	0.04	1.9	5	5.5	0.013	0.068	0.0012
	G-3(Surface layer)	37.7302°	140.8307°	7.6	1.0	3.7	9.7	6.9	0.04	1.7	<1	1.1	0.0042	0.022	-
	G-3(Bottom layer)	37.7302°	140.8307°	7.4	0.9	3.7	9.5	7.0	0.04	1.5	2	2.2	0.011	0.059	-
	G-5(Surface layer)	37.7341°	140.8088°	7.6	1.7	5.0	9.6	7.0	0.04	1.8	4	3.1	0.0068	0.036	-
	G-5(Bottom layer)	37.7341°	140.8088°	7.2	1.1	4.5	8.5	7.4	0.04	1.6	7	5.8	0.028	0.15	-
Lake Akimoto	H-1(Surface layer)	37.6575°	140.1264°	7.2	0.7	3.1	9.4	4.2	0.03	1.1	2	1.1	0.0024	0.011	-
	H-1(Bottom layer)	37.6575°	140.1264°	7.0	0.5	3.2	9.7	4.1	0.03	1.1	2	1.4	0.0020	0.010	-
	H-3(Surface layer)	37.6653°	140.1329°	7.2	0.6	3.3	9.7	4.3	0.03	1.2	1	1.3	0.0019	0.0092	-
	H-3(Bottom layer)	37.6653°	140.1329°	7.2	0.7	3.3	9.8	4.3	0.03	1.1	2	1.5	0.0032	0.012	0.0012
	H-5(Surface layer)	37.6523°	140.1568°	7.2	0.6	3.2	9.7	4.3	0.03	1.7	1	1.2	0.0031	0.012	-
	H-5(Bottom layer)	37.6523°	140.1568°	7.2	1.0	3.4	9.6	4.5	0.03	1.2	2	1.4	0.0028	0.011	-
Lake Inawashiro	I-1(Surface layer)	37.5047°	140.1143°	6.6	<0.5	1.7	10.0	11.9	0.06	0.6	2	0.7	0.0016	0.0097	-
	I-1(Bottom layer)	37.5047°	140.1143°	6.6	<0.5	1.4	10.9	11.6	0.06	0.6	1	0.5	0.0019	0.0096	0.00088
	I-3(Surface layer)	37.5077°	140.0263°	6.7	<0.5	1.4	10.9	11.5	0.06	0.5	<1	0.5	N.D.(0.0018)	0.011	-
	I-3(Bottom layer)	37.5077°	140.0263°	6.7	<0.5	1.4	11.1	11.7	0.06	0.6	<1	0.5	0.0026	0.011	-
	J-1(Surface layer)	37.4203°	140.1008°	6.7	0.9	2.6	10.3	11.9	0.06	1.3	2	0.7	0.0017	0.010	-
	J-1(Bottom layer)	37.4203°	140.1008°	6.7	1.0	2.6	10.3	11.8	0.06	0.9	<1	0.6	0.0018	0.010	-
Off the mouth of the Abukuma River (Sea Area in front of the mouth of the Abukuma River)	K-2(Surface layer)	38.0455°	140.9401°	8.1	0.9	2.8	8.9	4590	28.02	1.1	2	1.5	N.D.(0.0016)	0.0069	-
	K-2(Bottom layer)	38.0455°	140.9401°	8.0	0.6	1.9	9.0	5120	33.43	0.9	2	1.1	0.0017	0.0081	0.00098
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	8.0	1.3	4.0	7.6	4580	30.08	1.7	10	6.1	0.012	0.057	0.0013
	L-3	37.8217°	140.9765°	8.0	1.0	3.4	8.2	4710	30.25	1.7	6	3.7	0.0090	0.049	-
Off Iwaki City (Hisanohama)	M-2(Surface layer)	37.1996°	141.0853°	8.1	0.8	1.3	8.9	5130	33.25	0.9	<1	0.2	N.D.(0.0014)	0.0035	-
	M-2(Bottom layer)	37.1996°	141.0853°	8.0	0.6	1.6	8.8	5180	33.70	1.0	3	0.5	N.D.(0.0013)	0.0044	0.0011

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

○ Results (sediments)

Locations	2016 May - June Survey																			
	Latitude	Longitude	pH	Redox potential E <sub>N.H.E</sub> (mV)	Water content (%)	IL (%)	TOC (mg/g-dry)	Soil particle density (g/cm <sup>3</sup> )	Grain size distribution								Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)	
									Gravel (2-75mm) (%)	Coarse sand (0.85-2mm) (%)	Medium sand (0.25-0.85mm) (%)	Fine sand (0.075-0.25mm) (%)	Silt (0.005-0.075mm) (%)	Clay (Less than 0.005mm) (%)	Median grain diameter (mm)	Maximum grain diameter (mm)				
Abukuma River System	A-1	37.6210°	140.5218°	6.9	61	52.9	9.8	19.1	2.658	0.2	0.1	2.4	12.4	45.3	39.6	0.0099	4.8	120	590	0.83
	A-2	37.5673°	140.3946°	7.1	276	24.1	2.6	3.5	2.743	15.4	33.8	39.2	6.2	2.5	2.9	0.84	4.8	53	290	-
	B-1	37.7843°	140.4924°	7.1	264	32.8	3.4	5.4	2.717	15.1	10.1	27.9	35.4	7.1	4.4	0.26	4.8	92	590	-
	B-2	37.8121°	140.5058°	7.1	273	24.0	1.6	2.1	2.835	6.1	8.4	60.7	19.5	2.3	3.0	0.38	9.5	40	190	-
	B-3	37.8182°	140.4679°	7.2	298	20.2	1.9	2.3	2.672	24.7	35.2	30.0	7.0	1.4	1.7	1.1	4.8	41	200	-
Uda River	C-1	37.7953°	140.7459°	6.9	342	26.9	3.6	2.5	2.782	33.2	48.8	10.8	2.9	1.4	2.9	1.6	9.5	48	270	-
	C-2	37.7718°	140.7290°	7.0	146	46.7	10.2	20.1	2.673	17.8	18.2	21.7	8.4	13.0	20.9	0.44	9.5	110	580	-
	C-4	37.7687°	140.8443°	7.3	337	18.0	1.3	1.8	2.696	27.7	37.6	27.7	5.0	0.5	1.5	1.3	9.5	58	300	0.41
	C-5	37.7646°	140.8603°	7.4	352	14.9	1.3	1.1	2.678	16.0	52.8	28.1	1.7	0.5	0.9	1.1	4.8	36	170	-
	C-6	37.7764°	140.8877°	7.4	362	18.0	1.4	1.2	2.766	21.6	26.0	43.8	6.6	0.6	1.4	0.80	19	33	210	-
	D-1	37.7331°	140.9254°	7.3	385	16.6	1.6	1.1	2.719	23.6	31.1	36.3	8.0	0.4	0.6	0.97	4.8	49	240	0.65
Mano River	D-2	37.7095°	140.9566°	7.3	388	19.0	1.9	2.0	2.705	14.5	27.0	48.2	8.1	0.7	1.5	0.70	4.8	66	340	-
	D-3	37.7051°	140.9623°	7.3	392	17.6	1.8	1.7	2.696	25.4	35.7	29.2	7.3	1.0	1.4	1.1	4.8	36	190	-
	D-4 a	37.7308°	140.9081°	7.4	391	17.0	1.8	1.5	2.719	31.0	43.4	21.4	3.2	0.4	0.6	1.4	4.8	72	380	-
	D-5	37.7214°	140.8889°	7.4	390	22.7	2.6	2.6	2.705	9.7	23.7	48.9	12.6	2.4	2.7	0.56	4.8	95	440	-
	E-1	37.6609°	140.9115°	7.2	366	17.2	0.7	1.4	2.671	27.7	61.0	10.1	0.7	0.2	0.3	1.5	9.5	120	610	0.19
Niida River	E-2 a	37.6640°	140.9447°	7.0	277	18.5	1.5	2.5	2.706	20.4	34.6	26.7	14.0	1.9	2.4	0.98	4.8	160	840	-
	E-3	37.6444°	141.0018°	7.0	310	17.7	0.9	1.7	2.702	15.8	34.7	42.4	5.5	0.7	0.9	0.86	9.5	53	280	-
	E-4	37.6485°	140.9630°	7.2	327	20.5	0.8	1.4	2.665	1.3	51.9	45.5	0.4	0.3	0.6	0.88	4.8	54	310	-
	E-5	37.6652°	140.9169°	7.3	345	17.8	0.9	1.4	2.679	0.0	65.4	32.3	1.4	0.3	0.6	1.1	2.0	120	590	-
	F-1	37.5975°	140.9252°	7.0	358	19.4	1.0	1.4	2.661	11.8	23.6	55.3	7.3	0.3	1.7	0.64	4.8	400	2200	-
Ota River	F-2	37.6016°	140.9423°	6.8	380	18.4	0.7	0.8	2.654	9.0	38.5	44.6	7.0	0.1	0.8	0.81	4.8	170	900	0.27
	F-3	37.6045°	140.9636°	7.0	371	19.6	0.8	1.1	2.653	4.7	34.0	52.2	7.6	0.2	1.3	0.70	9.5	340	1700	-
	F-4	37.6070°	140.9720°	7.0	368	16.3	0.8	1.1	2.655	21.6	39.0	30.9	7.2	0.2	1.1	1.1	9.5	200	1100	-
	F-5	37.6022°	140.9868°	7.0	381	16.1	0.7	1.2	2.661	30.8	39.2	26.1	2.6	0.4	0.9	1.4	9.5	110	520	-
	G-1	37.7321°	140.8127°	7.1	378	61.1	11.9	21.9	2.589	4.7	2.6	5.2	24.2	40.1	23.2	0.037	19	990	5300	3.4
Lake Hayama (Mano Dam)	G-2	37.7267°	140.8223°	7.2	219	72.3	15.6	39.8	2.552	0.0	1.1	2.3	5.4	37.1	54.1	0.0037	2.0	1600	8100	-
	G-3	37.7302°	140.8307°	7.0	272	60.2	8.9	26.4	2.614	7.0	8.8	16.2	12.0	28.9	27.1	0.043	9.5	750	3800	-
	G-4	37.7382°	140.8035°	7.4	272	29.4	4.1	5.9	2.703	20.0	12.2	23.4	25.4	8.6	10.4	0.31	19	370	2000	-
	G-5	37.7341°	140.8088°	6.9	275	73.7	27.8	80.8	2.434	0.2	0.7	0.5	11.5	51.6	35.5	0.016	4.8	2100	11000	-
	H-1	37.6575°	140.1264°	7.3	123	62.8	9.1	20.4	2.618	0.0	0.0	0.2	0.7	55.9	43.2	0.0070	2.0	9.5	55	-
Lake Akimoto	H-2	37.6616°	140.1226°	7.1	178	76.7	14.9	42.1	2.512	0.0	0.0	0.1	0.4	48.0	51.5	0.0046	2.0	390	2100	-
	H-3	37.6653°	140.1329°	6.8	109	73.6	16.7	43.9	2.374	0.0	0.0	1.2	26.6	47.0	25.2	0.032	2.0	360	1700	1.7
	H-4	37.6551°	140.1181°	6.9	138	79.2	10.1	32.7	2.488	0.0	0.6	1.2	4.1	47.0	47.1	0.0059	2.0	370	2000	-
	H-5	37.6523°	140.1568°	6.9	210	51.9	6.2	13.3	2.598	0.0	0.0	6.9	53.2	24.8	15.1	0.11	2.0	130	680	-
	I-1	37.5047°	140.1143°	6.5	204	86.2	10.5	32.0	2.611	0.0	0.5	3.2	28.4	22.6	45.3	0.0085	2.0	190	870	0.32
Lake Inawashiro	I-2	37.4995°	140.1409°	6.8	226	70.5	7.6	25.1	2.610	0.0	0.5	2.4	39.7	36.2	21.2	0.048	2.0	86	480	-
	I-3	37.5077°	140.0263°	6.6	265	63.1	7.5	17.9	2.709	0.0	0.3	14.6	37.5	30.2	17.4	0.092	2.0	17	120	-
	I-4	37.5160°	140.1092°	6.4	322	19.9	1.4	1.7	2.806	17.6	18.9	53.1	9.9	0.3	0.2	0.63	19	13	69	-
	J-1	37.4203°	140.1008°	6.4	276	24.4	1.4	2.4	2.697	4.0	9.0	71.6	14.5	0.4	0.5	0.32	9.5	22	130	-
Off the mouth of the Abukuma River (Sea Area in front of the mouth of the Abukuma River)	K-1	38.0457°	140.9282°	7.9	283	25.2	1.7	1.2	2.717	0.0	1.3	60.4	36.8	0.7	0.8	0.28	4.8	9.1	48	-
	K-2	38.0455°	140.9401°	7.8	257	30.6	2.5	2.0	2.746	0.0	0.0	3.1	70.6	17.3	9.0	0.12	2.0	12	57	N.D.(0.12)
	K-3	38.0458°	140.9518°	7.8	238	48.0	6.7	11.3	2.723	0.0	0.1	0.3	21.8	61.3	16.5	0.050	2.0	42	290	-
Off Soma City (Matsukawaura)	L-1	37.8210°	140.9610°	7.8	204	35.7	3.3	6.6	2.714	3.4	11.0	33.0	23.9	14.6	14.1	0.23	9.5	23	170	-
	L-2	37.8155°	140.9763°	7.9	226	24.7	1.3	0.9	2.737	1.4	5.9	86.0	5.4	0.6	0.7	0.45	9.5	N.D.(0.63)	3.1	N.D.(0.12)
	L-3	37.8217°	140.9765°	7.8	212	27.3	2.0	2.2	2.701	0.0	0.2	14.5	76.6	4.6	4.1	0.18	2.0	9.9	49	-
Off Iwaki City (Hisanohama)	M-1	37.1736°	141.0788°	7.7	266	29.1	1.9	2.2	2.767	0.6	1.0	5.9	86.1	4.5	1.9	0.15	4.8	6.8	37	-
	M-2	37.1996°	141.0853°	7.8	272	29.4	2.2	2.0	2.750	0.7	0.8	7.7	85.3	2.9	2.6	0.15	4.8	7.2	34	N.D.(0.14)
	M-3	37.2324°	141.0935°	7.6	280	29.8	2.0	2.0	2.762	0.0	0.2	2.8	88.4	4.7	3.9	0.14	2.0	13	71	-

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

O Results (aquatic organisms)

Location	Sampling point	Sampling Date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)		
											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137			
Abukuma River System	A-1	The main stream of the Abukuma River	2016/6/29	Vertebrata	Osteichthyes	Siluriformes	Ictaluridae	<i>Ictalurus punctatus</i>	Channel catfish	6	3.4	Immature fish	Ephoron shigae, Polyzoan	Viscera removed	10.0	1.5	8.5	0.19	
	A-2	Harase River	2016/6/4	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.020	-	-	-	278	38	240	-	
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	36	0.011	Larva	-	-	-	30.5	6.5	24	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	37	0.026	Larva (Dragonfly larva)	-	-	-	11.9	1.9	10	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Onychogomphus viridicostus</i>	<i>Meligomphus viridicostus</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	<i>Sieboldius albardae</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melanocephalus</i>	<i>Asiagomphus melanocephalus</i>										
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	4	0.033	Imago	-	-	-	26.9	3.9	23	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Neocaridina sp.</i>	Neocaridina	215	0.043	Imago	-	-	-	26.1	5.1	21	-
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	<i>Semisulcospira libertina</i>	30	0.022	Imago	-	-	Molluscous part	11	N.D.(1.8)	11	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur Minnow	10	0.11	Mature fish	-	-	-	8.7	1.6	7.1	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	13	0.033	Immature fish	-	-	-	11.5	1.9	9.6	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus</i>	<i>Pseudogobio esocinus</i>	5	0.11	Immature fish, Mature fish	Obscure digesta	Viscera removed	11.1	1.6	9.5	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Nipponocypris temminckii</i>	Dark chub	8	0.024	Immature fish	-	-	-	8.2	1.9	6.3	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis biwae</i>	<i>Cobitis biwae</i>	3	0.014	Mature fish	-	-	-	13.9	2.9	11	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	21	0.048	Immature fish, Mature fish	-	-	-	11.6	1.7	9.9	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Noemacheilus barbatulus</i>	Stone loach	21	0.20	Immature fish	-	-	-	6.7	1.0	5.7	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	1	0.076	Immature fish	Terrestrial insect	Viscera removed	21.1	3.1	18	-	
				Vertebrata	Amphibia	Anura	-	-	-	24	0.020	Larva (Tadpole)	-	-	-	177	27	150	-
Vertebrata	Amphibia	Anura	Ranidae	<i>Rana rugosa</i>	Wrinkled Frog	7	0.061	Imago	-	-	-	15.4	2.4	13	-				
Vertebrata	Amphibia	Anura	Ranidae	<i>Rana porosa porosa</i>	Tokyo Daruma pond frog														
Vertebrata	Amphibia	Anura	Ranidae	<i>Rana japonica</i>	Japanese Brown Frog														
Vertebrata	Amphibia	Caudata	Salamandridae	<i>Cynops pyrrhogaster</i>	<i>Cynops pyrrhogaster</i>	6	0.050	Imago	-	-	-	10.6	2.1	8.5	-				
Particulate Organic Matter	-	-	-	-	-	-	0.19	-	-	-	-	-	80	12	68	-			
B-2	The main stream of the Abukuma River	2016/6/7	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	8	2.5	Mature fish	Obscure digesta	Viscera removed	14.4	2.4	12	0.23		
		2016/7/31	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	Pale chub	19	0.32	Immature fish, Mature fish	-	-	-	16.3	2.3	14	-	
		2016/6/7	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorffii</i>	1	0.96	Mature fish	Obscure digesta	Viscera removed	17.9	2.9	15	0.43		
		2016/6/1	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	<i>Hemibarbus barbus</i>	3	5.5	Mature fish	Amorphous Residue	Viscera removed	15.8	2.8	13	0.34		
		2016/6/26	Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis</i>	Sweetfish	65	2.0	Immature fish, Mature fish	-	-	-	17.0	3.0	14	0.096	
		2016/6/14	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	1	1.4	Mature fish	Empty stomach	Viscera removed	32.3	5.3	27	0.41		
		2016/6/14	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	1	1.3	Mature fish	Fish	Viscera removed	89	14	75	0.41		
		2016/7/10	Vertebrata	Osteichthyes	Siluriformes	Ictaluridae	<i>Ictalurus punctatus</i>	Channel catfish	3	4.1	Immature fish, Mature fish	Ephoron shigae	Viscera removed	16.0	3.0	13	0.21		
		2016/6/7	Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	3	5.5	Mature fish	Fish	Viscera removed	63.2	9.2	54	0.23		
		2016/6/20	Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	2	2.6	Mature fish	Empty stomach	Viscera removed	46.2	7.2	39	0.35		
B-3	Surikami River	2016/6/4	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.028	-	-	-	193	33	160	-		
			Algae/plant	Monocotyledoneae	Najadales	Potamogetonaceae	<i>Potamogeton crispus</i>	Curly-leaf pondweed	-	0.16	-	-	-	-	46.5	7.5	39	-	
			Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>	305	0.094	Larva	-	-	-	41.6	6.6	35	-	
			Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena</i>	50	0.030	Larva (Dragonfly larva)	-	-	-	13.7	2.7	11	-	
			Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>											
			Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	<i>Sieboldius albardae</i>											
			Arthropoda	Insecta	Odonata	Gomphidae	<i>Gomphidae</i>	<i>Gomphidae</i>											
			Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<i>Protohermes grandis</i>											
			Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	11	0.12	Imago	-	-	-	15.2	2.2	13	-	
			Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	1	0.031	Imago	-	-	-	5.4	N.D.(1.8)	5.4	-	
			Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	25	0.30	Immature fish	-	-	-	6.50	0.90	5.6	-	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur Minnow	50	0.42	Immature fish, Mature fish	-	-	-	7.9	1.3	6.6	-	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	12	0.048	Immature fish	-	-	-	6.7	N.D.(1.2)	6.7	-	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Nipponocypris temminckii</i>	Dark chub	7	0.097	Immature fish, Mature fish	Obscure digesta	Viscera removed	6.74	0.94	5.8	-		
			Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis biwae</i>	<i>Cobitis biwae</i>	1	0.0073	Mature fish	-	-	-	14	N.D.(8.2)	14	-	
			Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	17	0.11	Immature fish, Mature fish	-	-	-	16.9	2.9	14	-	
			Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Noemacheilus barbatulus</i>	Stone loach	38	0.36	Immature fish	-	-	-	6.7	1.3	5.4	-	
			Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis</i>	Sweetfish	1	0.018	Immature fish	-	-	-	2.5	N.D.(2.4)	2.5	-	
			Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	14	0.14	Immature fish	-	-	-	5.46	0.86	4.6	-	
			Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	1	0.046	Immature fish	Empty stomach	Viscera removed	16.6	2.6	14	-		
Vertebrata	Osteichthyes	Siluriformes	Bagridae	<i>Pseudobagrus tokiensis</i>	Cut-tailed bullhead	1	0.074	Mature fish	Obscure digesta	Viscera removed	16.7	2.7	14	-					
Vertebrata	Amphibia	Anura	-	-	-	10	0.030	Larva (Tadpole)	-	-	-	50.1	9.1	41	-				
Vertebrata	Amphibia	Anura	Ranidae	<i>Rana catesbeiana</i>	American Bullfrog	2	0.54	Imago	-	-	-	7.8	1.2	6.6	-				
Particulate Organic Matter	-	-	-	-	-	-	0.21	-	-	-	-	-	29.8	4.8	25	-			

\*1: Organisms were collected in or around the targeted water areas.

\*2: When multiple types of aquatic organisms were collected, a sample was prepared by mixing them.

\*3: For a sample made of multiple types of aquatic organisms, the English name of the dominant one largest in number is underlined.

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

\*5: Plankton (suspended algae) is the residue remaining after the filtration of lake water or seawater with a plankton net (40µm-mesh).

\*6: River bottom materials (incl. algae) are algae, etc. that were scratched off stones with a brush, etc. and may include very fine particles such as inorganic silt and clay.

\*7: N.D. means to be below the detection limit and figures in parentheses show the detection limit.

\*8: Activity concentrations include counting errors, but the details are omitted here.

Location	Sampling point	Sampling Date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)		
											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137			
Uda River	C-6	-	2016/6/2	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.018	-	-	-	147	27	120	-		
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	135	0.0045	Larva	-	-	-	68	14	54	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	51	0.016	Larva (Dragonfly larva)	-	-	-	7.2	N.D.(4.4)	7.2	-
				Arthropoda	Insecta	Odonata	Cordulegastriidae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	Stylogomphus suzukii										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Onychogomphus viridicostus</i>	Melligomphus viridicostus										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	Davidius										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sinogomphus flavolimbatus</i>	Sinogomphus flavolimbatus										
				Arthropoda	Insecta	Odonata	Libellulidae	<i>Sympetrum sp.</i>	Sympetrum										
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	Boyeria maclachlani										
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Protohermes grandis	30	0.014	Larva	-	-	-	10	N.D.(4.4)	10	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	98	0.029	Imago	-	-	-	9.3	1.7	7.6	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	7	0.041	Imago	-	-	-	15.3	2.3	13	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	9	2.0	Immature fish,Mature fish	Fish,Common prawn	Viscera removed	64.5	9.5	55	0.082	
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus reinii</i>	Cottus	1	0.0069	Immature fish	-	-	-	12	N.D.(4.9)	12	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	Pale chub	4	0.011	Immature fish	-	-	-	4.5	N.D.(4.3)	4.5	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis biwae</i>	Cobitis biwae	7	0.022	Mature fish	-	-	-	8.9	N.D.(2.1)	8.9	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	1	0.013	Mature fish	-	-	-	5.5	N.D.(3.5)	5.5	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis</i>	Sweetfish	221	1.7	Immature fish,Mature fish	-	-	-	60	10	50	0.67
Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Seema	1	0.32	Immature fish	Empty stomach	Viscera removed	25.3	3.3	22	-					
Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Goby	3	0.020	Immature fish	-	-	-	21.0	3.0	18	-				
Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluvialtilis</i>	Rhinogobius fluvialtilis	22	0.060	Immature fish,Mature fish	-	-	-	17.0	3.0	14	-				
Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius sp. CB</i>	Rhinogobius nagoyae														
Vertebrata	Cephalaspidomorphi	Petromyzontiformes	Petromyzontidae	<i>Lampetra reissneri</i>	Far eastern brook lamprey	3	0.0064	Ammocoetes larva	-	-	-	N.D.	N.D.(5.3)	N.D.(4.8)	-				
				Particulate Organic Matter	-	-	-	Bottom fallen leaves	-	0.18	-	-	-	52.1	7.1	45	-		
Mano River	D-3	-	2016/6/1	Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	10	1.4	Immature fish,Mature fish	Fish	Viscera removed	43.0	7.0	36	1.2	
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis</i>	Sweetfish	9	0.19	Immature fish,Mature fish	-	-	-	26.7	5.7	21	-
	D-4b	-	2016/6/1	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.014	-	-	-	170	30	140	-		
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	180	0.025	Larva	-	-	-	47.8	8.8	39	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	50	0.0084	Larva (Dragonfly larva)	-	-	-	22	N.D.(4.3)	22	-
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	Stylogomphus suzukii										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Onychogomphus viridicostus</i>	Melligomphus viridicostus										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	Davidius										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sinogomphus flavolimbatus</i>	Sinogomphus flavolimbatus										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	Asiagomphus melaenops										
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	Boyeria maclachlani										
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Protohermes grandis										
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	1	0.015	Imago	-	-	-	144	24	120	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	150	0.11	Imago	-	-	-	31.5	5.5	26	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	5	0.093	Imago	-	-	-	32.4	5.4	27	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	2	0.022	Immature fish	-	-	-	34.9	5.9	29	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	Pale chub	38	0.088	Immature fish	-	-	-	14.8	2.8	12	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Gnathopogon elongatus elongatus</i>	Gnathopogon elongatus elongatus	2	0.0060	Immature fish	-	-	-	20	N.D.(6.5)	20	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis biwae</i>	Cobitis biwae	9	0.016	Mature fish	-	-	-	25.5	3.5	22	-
Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluvialtilis</i>	Rhinogobius fluvialtilis	19	0.051	Immature fish,Mature fish	-	-	-	54.6	8.6	46	-				
Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius sp. CB</i>	Rhinogobius nagoyae														
Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	2	0.062	Immature fish	Fish	Viscera removed	74	12	62	-					
Vertebrata	Amphibia	Anura	Rhacophoridae	<i>Buergeria buergeri</i>	Kajika frog	2	0.016	Imago	-	-	-	444	74	370	-				
				Particulate Organic Matter	-	-	-	Bottom fallen leaves	-	0.13	-	-	-	38.4	5.4	33	-		

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\*3: For a sample made of multiple types of aquatic organisms, the English name of the dominant one largest in number is underlined.

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

\*5: Plankton (suspended algae) is the residue remaining after the filtration of lake water or seawater with a plankton net (40µm-mesh).

\*6: River bottom materials (incl. algae) are algae, etc. that were scratched off stones with a brush, etc. and may include very fine particles such as inorganic silt and clay.

\*7: N.D. means to be below the detection limit and figures in parentheses show the detection limit.

\*8: Activity concentrations include counting errors, but the details are omitted here.

Location	Sampling point	Sampling Date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)						
											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137							
Nida River	E-2b	-	2016/6/1	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.012	-	-	-	291	51	240	-						
				Arthropoda	Insecta	Ephemeroptera	Ephemereidae	<i>Drunella cryptomeria</i>	Ephemereida cryptomeria	92	0.0035	Larva	-	-	-	27	N.D.(12)	27	-				
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	128	0.025	Larva	-	-	-	205	35	170	-				
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	27	0.0069	Larva (Dragonfly larva)	-	-	-	75	11	64	-				
				Arthropoda	Insecta	Odonata	Cordulegastriidae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii														
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	Stylogomphus suzukii														
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Onychogomphus viridicostus</i>	Melligomphus viridicostus														
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	Davidius														
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	Asiagomphus melaenops														
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Protohermes grandis	7	0.0046	Larva	-	-	-	72	12	60	-				
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	6	0.052	Imago	-	-	-	83	18	65	-				
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	17	0.029	Imago	-	-	-	32.1	5.1	27	-				
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	34	0.014	Imago	-	-	-	73	13	60	-				
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	8	0.15	Imago	-	-	-	77	13	64	-				
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.61	Mature fish	Fish	Viscera removed	178	28	150	-					
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus reinii</i>	Sculpin	7	0.14	Immature fish	-	-	-	55.8	8.8	47	-				
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	10	0.064	Immature fish	-	-	-	54.0	9.0	45	-				
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	Pale chub	50	0.21	Immature fish,Mature fish	-	-	-	45.2	7.2	38	-				
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus</i>	Pseudogobio esocinus	12	0.32	Immature fish,Mature fish	-	-	-	44.8	6.8	38	-				
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Sarcocheilichthys variegatus variegatus</i>	Sarcocheilichthys variegatus variegatus	16	0.15	Immature fish,Mature fish	-	-	-	36.1	6.1	30	-				
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorffii	1	0.014	Immature fish	Obscure digesta	Viscera removed	43.8	7.8	36	-					
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	5.2	Mature fish	Amorphous Residue	Viscera removed	204	34	170	0.65					
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Gnathopogon elongatus elongatus</i>	Gnathopogon elongatus elongatus	59	0.13	Immature fish	-	-	-	39.7	5.7	34	-				
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	3	0.016	Immature fish,Mature fish	-	-	-	32.8	4.8	28	-				
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis</i>	Sweetfish	2	0.049	Immature fish	-	-	-	121	23	98	-				
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	9	0.10	Immature fish	-	-	-	35.1	6.1	29	-				
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluvialtilis</i>	Rhinogobius fluvialtilis	14	0.024	Immature fish,Mature fish	-	-	-	94	13	81	-				
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius sp. CB</i>	Rhinogobius nagoyae														
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	3	1.3	Immature fish,Mature fish	Fish	Viscera removed	177	27	150	1.2					
								Particulate Organic Matter	-	-	-	Bottom fallen leaves	-	0.14	-	-	-	1050	170	880	-		
					E-3	-	2016/7/9	Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis</i>	Sweetfish	35	0.82	Immature fish,Mature fish	-	-	-	74	12	62	-
				Ota River	F-1	-	2016/5/30	Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.020	-	-	-	1320	220	1100	-		
								Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	68	0.025	Larva (Dragonfly larva)	-	-	-	211	31	180	-
Arthropoda	Insecta	Odonata	Cordulegastriidae					<i>Anotogaster sieboldii</i>	Anotogaster sieboldii														
Arthropoda	Insecta	Odonata	Gomphidae					<i>Stylogomphus suzukii</i>	Stylogomphus suzukii														
Arthropoda	Insecta	Odonata	Gomphidae					<i>Onychogomphus viridicostus</i>	Melligomphus viridicostus														
Arthropoda	Insecta	Odonata	Gomphidae					<i>Sieboldius albardae</i>	Sieboldius albardae														
Arthropoda	Insecta	Odonata	Gomphidae					<i>Davidius sp.</i>	Davidius														
Arthropoda	Insecta	Odonata	Gomphidae					<i>Asiagomphus melaenops</i>	Asiagomphus melaenops	15	0.011	Larva	-	-	-	111	21	90	-				
Arthropoda	Insecta	Odonata	Libellulidae					<i>Sympetrum sp.</i>	Sympetrum														
Arthropoda	Insecta	Odonata	Aeshnidae					<i>Boyeria maclachlani</i>	Boyeria maclachlani	30	0.044	Imago	-	-	-	333	53	280	-				
Arthropoda	Insecta	Megaloptera	Corydalidae					<i>Protohermes grandis</i>	Protohermes grandis														
Arthropoda	Malacostraca	Decapoda	Palaemonidae					<i>Palaemon paucidens</i>	Common prawn	72	0.028	Imago	-	-	-	362	62	300	-				
Arthropoda	Malacostraca	Decapoda	Atyidae					<i>Paratya improvisa</i>	Freshwater shrimp	1	0.049	Imago	-	-	-	780	130	650	-				
Arthropoda	Malacostraca	Decapoda	Varunidae					<i>Eriocheir japonica</i>	Japanese mitten crab	4	1.7	Mature fish	Common prawn,Fish	Viscera removed	2860	460	2400	0.16					
Vertebrata	Osteichthyes	Anguilliformes	Anguillidae					<i>Anguilla japonica</i>	Japanese eel	2	0.034	Immature fish	-	-	-	850	150	700	-				
Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae					<i>Cottus pollux</i>	Japanese fluvial sculpin	5	0.021	Immature fish	-	-	-	425	75	350	-				
Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae					<i>Tribolodon hakonensis</i>	Japanese dace	1	0.013	Immature fish	-	-	-	600	110	490	-				
Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae					<i>Zacco platypus</i>	Pale chub	1	2.6	Mature fish	Amorphous Residue	Viscera removed	1440	240	1200	3.9					
Vertebrata	Osteichthyes	Cypriniformes	Cobitidae					<i>Cobitis biwae</i>	Cobitis biwae	11	0.019	Immature fish,Mature fish	-	-	-	220	40	180	-				
Vertebrata	Osteichthyes	Cypriniformes	Cobitidae					<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	4	0.042	Mature fish	-	-	-	328	48	280	-				
Vertebrata	Osteichthyes	Cypriniformes	Cobitidae					<i>Lefua echigonia</i>	Lefua echigonia	8	0.017	Immature fish,Mature fish	-	-	-	283	53	230	-				
Vertebrata	Osteichthyes	Salmoniformes	Salmonidae					<i>Oncorhynchus masou</i>	Yamame trout	1	0.012	Immature fish	-	-	-	395	75	320	-				
Vertebrata	Osteichthyes	Perciformes	Gobiidae					<i>Rhinogobius fluvialtilis</i>	Rhinogobius fluvialtilis	15	0.024	Immature fish,Mature fish	-	-	-	532	92	440	-				
Vertebrata	Osteichthyes	Perciformes	Gobiidae					<i>Rhinogobius sp. CB</i>	Rhinogobius nagoyae														
Vertebrata	Cephalaspidomorphi	Petromyzontiformes	Petromyzontidae					<i>Lampetra reissneri</i>	Far eastern brook lamprey	6	0.0087	Ammocoetes larva	-	-	-	66	14	52	-				
								Particulate Organic Matter	-	-	-	Bottom fallen leaves	-	0.28	-	-	-	2040	340	1700	-		
	F-3	-	2016/5/30					Vertebrata	Amphibia	Anura	Ranidae	<i>Rana catesbeiana</i>	American Bullfrog	4	0.049	Larva (Tadpole)	-	-	-	840	140	700	-
F-5	-	-	2016/7/9					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	116	2.5	Immature fish,Mature fish	Obscure digesta	Viscera removed	45.7	6.7	39	0.90	
			2016/5/30					Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis</i>	Sweetfish	163	1.1	Immature fish	-	-	-	166	26	140	0.35
			2016/7/9					Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis</i>	Sweetfish	112	1.5	Immature fish,Mature fish	-	-	-	109	16	93	0.46

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

\*5: Plankton (suspended algae) is the residue remaining after the filtration of lake water or seawater with a plankton net (40µm-mesh).

\*6: River bottom materials (incl. algae) are algae, etc. that were scratched off stones with a brush, etc. and may include very fine particles such as inorganic silt and clay.

\*7: N.D. means to be below the detection limit and figures in parentheses show the detection limit.

\*8: Activity concentrations include counting errors, but the details are omitted here.



Location	Sampling point	Sampling Date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)		
											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137			
Lake Hayama	G-1 G-2 G-3	In the lake	2016/5/31	Algae/plant	-	-	-	Plankton (Planktonic algae)	-	0.027	-	-	-	11.1	1.9	9.2	-		
			2016/6/27	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus salmoides</i>	Largemouth bass	1	0.037	Immature fish	Empty stomach	Viscera removed	112	17	95	-	
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	3	1.1	Immature fish, Mature fish	Japanese dace	Viscera removed	189	29	160	0.83	
	G-4	Inflowing rivers	2016/5/31	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Lepomis macrochirus</i>	Bluegill	2	0.030	Immature fish	Obscure digesta	Viscera removed	76	13	63	-	
				Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.010	-	-	-	235	35	200	-	
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	92	0.023	Larva	-	-	-	117	22	95	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	60	0.018	Larva (Dragonfly larva)	-	-	-	101	20	81	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sylogomphus suzukii</i>	Stylogomphus suzukii										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Onychogomphus viridicostus</i>	Melligomphus viridicostus										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	<i>Davidius</i>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sinogomphus flavolimbatatus</i>	Sinogomphus flavolimbatatus										
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Planaeschna milnei</i>	Planaeschna milnei	22	0.014	Larva	-	-	-	11	N.D.(2,9)	11	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	27	0.0079	Imago	-	-	-	49.7	8.7	41	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur Minnow	10	0.020	Immature fish	-	-	-	37.8	7.8	30	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	7	0.091	Immature fish	-	-	-	79	13	66	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	2	0.0076	Immature fish	-	-	-	138	18	120	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	2	0.0096	Immature fish	-	-	-	55.5	9.5	46	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius flumineus</i>	Rhinogobius flumineus	5	0.015	Immature fish, Mature fish	-	-	-	62	11	51	-
Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.21	-	-	-	-	310	50	260	-				
Lake Akimoto	H-1 H-2 H-3	In the lake	2016/6/6	Arthropoda	Malacostraca	Decapoda	Astacidae	<i>Pacifastacus leniusculus trowbridgii</i>	Signal crayfish	7	0.49	Imago	-	-	-	39.8	6.8	33	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	13	2.8	Mature fish	Midge	Viscera removed	47.7	7.7	40	0.80	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorffii	9	2.5	Mature fish	Obscure digesta	Viscera removed	44.0	7.0	37	1.5	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	4.2	Mature fish	Amorphous Residue	Viscera removed	39.8	5.8	34	0.49	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	7	2.4	Immature fish, Mature fish	Amorphous Residue	Viscera removed	40.6	6.6	34	1.2	
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Hypomesus nipponensis</i>	Japanese smelt	94	0.35	Immature fish, Mature fish	-	-	-	13.0	2.0	11	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	7	1.4	Immature fish, Mature fish	Japanese smelt	Viscera removed	49.8	8.8	41	0.32	
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Seema	3	0.63	Immature fish	Japanese smelt	Viscera removed	49.3	8.3	41	-	
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus salmoides</i>	Largemouth bass	1	1.2	Mature fish	Fish	Viscera removed	99	15	84	1.2	
	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	6	2.6	Immature fish, Mature fish	Japanese smelt, Common prawn	Viscera removed	90	15	75	1.1				
	H-3	The confluence with Nakatsu River	2016/6/6	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.078	-	-	-	9.4	1.6	7.8	-	
				Arthropoda	Insecta	Plecoptera	Perlidae	<i>Acroneuria sp.</i>	Acroneuria	76	0.016	Larva	-	-	-	N.D.	N.D.(2,8)	N.D.(2,4)	-
				Arthropoda	Insecta	Plecoptera	Perlidae	<i>Kamimuria quadrata</i>	Kamimuria quadrata										
				Arthropoda	Insecta	Plecoptera	Perlidae	<i>Calineuria sp.</i>	Calineuria										
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	24	0.19	Immature fish	-	-	-	14.5	2.5	12	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	1	0.068	Mature fish	Obscure digesta	Viscera removed	27.8	4.8	23	-	
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	7	0.12	Immature fish	Mayfly	Viscera removed	10.1	1.7	8.4	-	
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	8	0.25	Immature fish	Mayfly	Viscera removed	17.1	3.1	14	-	
				Vertebrata	Cephalaspidomorphi	Petromyzontiformes	Petromyzontidae	<i>Lampetra reissneri</i>	Far eastern brook lamprey	1	0.0058	Ammocoetes larva	-	-	-	N.D.	N.D.(4,9)	N.D.(4,9)	-
				Vertebrata	Amphibia	Anura	Rhacophoridae	<i>Buergeria buergeri</i>	Kajika frog	6	0.065	Imago	-	-	-	41.2	5.2	36	-
Vertebrata				Amphibia	Anura	Ranidae	<i>Rana japonica</i>	Japanese Brown Frog											
Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.18	-	-	-	-	58.7	8.7	50	-				
H-4	Within the lake and rivers in the vicinity	2016/6/6	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.032	-	-	-	1.4	N.D.(1,3)	1.4	-		
			Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii	17	0.023	Larva (Dragonfly larva)	-	-	-	26.0	5.0	21	-	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur Minnow	7	0.062	Immature fish, Mature fish	-	-	-	3.8	N.D.(0,89)	3.8	-	
			Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Lefua echigonia</i>	Lefua echigonia	12	0.012	Immature fish, Mature fish	-	-	-	7.7	N.D.(4,8)	7.7	-	
			Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	1	0.034	Immature fish	Obscure digesta	Viscera removed	5.2	N.D.(1,7)	5.2	-		
			Vertebrata	Amphibia	Anura	-	-	Frog	22	0.0065	Larva (Tadpole)	-	-	-	259	29	230	-	
			Vertebrata	Amphibia	Anura	Ranidae	<i>Rana ornativentris</i>	Montane brown frog	5	0.12	Imago	-	-	-	62	10	52	-	
Vertebrata	Amphibia	Caudata	Salamandridae	<i>Cynops pyrrhogaster</i>	Cynops pyrrhogaster	8	0.046	Imago	-	-	-	13.4	2.4	11	-				

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Location	Sampling point	Sampling Date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)		
											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137			
Lake Inawashiro	I-1 I-2 (north lakeside)	-	2016/6/5	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	51	1.6	Immature fish,Mature fish	Obscure digesta	Viscera removed	23.0	4.0	19	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	33	3.7	Mature fish	Midge	Viscera removed	36.1	5.1	31	0.28	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorfi</i>	19	3.4	Mature fish	Obscure digesta	Viscera removed	30.3	5.3	25	0.47	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	2	1.8	Mature fish	Empty stomach	Viscera removed	15.5	2.5	13	0.39	
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	6	2.5	Mature fish	Japanese smelt	Viscera removed	58.6	8.6	50	0.13	
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	1	0.16	Mature fish	Obscure digesta	Viscera removed	47.7	7.7	40	-	
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	1	0.60	Mature fish	Empty stomach	Viscera removed	33.5	5.5	28	-	
					Particulate Organic Matter	-	-	-	-	-	Bottom fallen leaves	-	-	-	31.3	5.3	26	-	
					Algae/plant	-	-	-	-	-	Plankton (Planktonic algae)	-	-	-	2.4	N.D.(3.5)	2.4	-	
					Algae/plant	Dicotyledoneae	Nymphaeales	Nymphaeaceae	<i>Nuphar japonicum</i>	Cow lily	-	0.34	-	-	-	1.7	N.D.(0.31)	1.7	-
					Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	65	0.017	Imago	-	-	7.7	N.D.(2.4)	7.7	-
					Mollusca	Gastropoda	Architaenioglossa	Viviparidae	<i>Bellamyia chinensis laeta</i>	Mud-snail	8	0.043	Imago	-	Molluscos part	N.D.	N.D.(1.8)	N.D.(1.4)	-
		J-1 (south lakeside)	-	2016/6/5	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	18	3.3	Mature fish	Midge	Viscera removed	57.2	9.2	48	0.28
	Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	46	2.8	Mature fish	Obscure digesta	Viscera removed	34.7	5.7	29	0.26	
	Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus</i>	Pseudogobio esocinus	15	0.20	Immature fish,Mature fish	-	-	12.4	2.4	10	-	
	Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorfi</i>	1	0.30	Mature fish	Obscure digesta	Viscera removed	31.8	5.8	26	-	
	Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	4	2.4	Mature fish	Amorphous Residue	Viscera removed	33.1	5.1	28	0.42	
	Vertebrata				Osteichthyes	Cypriniformes	Cobitidae	<i>Mitsurnus anguillicaudatus</i>	Oriental weatherfish	15	0.034	Immature fish,Mature fish	-	-	N.D.	N.D.(1.5)	N.D.(1.3)	-	
	Vertebrata				Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	1	1.1	Mature fish	Fish	Viscera removed	101	15	86	0.13	
	Vertebrata				Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Seema	1	1.0	Mature fish	Empty stomach	Viscera removed	59	11	48	0.084	
Vertebrata	Osteichthyes				Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	2	1.0	Immature fish,Mature fish	Fish	Viscera removed	48.5	6.5	42	0.26		
Vertebrata	Amphibia				Anura	Ranidae	<i>Rana rugosa</i>	Wrinkled Frog	12	0.11	Imago	-	-	3.44	0.64	2.8	-		
Vertebrata	Amphibia				Anura	Ranidae	<i>Rana porosa porosa</i>	Tokyo Daruma pond frog											
Vertebrata	Amphibia				Caudata	Salamandridae	<i>Cynops pyrrhogaster</i>	Cynops pyrrhogaster	15	0.068	Imago	-	-	4.8	1.0	3.8	-		

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Location	Sampling point	Sampling Date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)		
											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137			
Off the mouth of the Abukuma River	Surrounding water area off the mouth of the Abukuma River	-	2016/6/2	Arthropoda	Malacostraca	Decapoda	Portunidae	<i>Portunus trituberculatus</i>	Japanese blue crab	3	1.2	Imago	-	-	0.53	N.D.(0.31)	0.53	-	
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Platichthys stellatus</i>	Starry flounder	1	0.96	Mature fish	Empty stomach	Viscera removed	1.1	N.D.(0.31)	1.1	-	
				Vertebrata	Osteichthyes	Pleuronectiformes	Paralichthyidae	<i>Paralichthys olivaceus</i>	Bastard halibut	1	2.2	Mature fish	Empty stomach	Viscera removed	0.93	N.D.(0.34)	0.93	N.D.(0.020)	
				Vertebrata	Osteichthyes	Perciformes	Carangidae	<i>Seriola quinqueradiata</i>	Japanese amberjack	1	2.8	Mature fish	Fish	Viscera removed	0.57	N.D.(0.29)	0.57	N.D.(0.021)	
				Vertebrata	Osteichthyes	Perciformes	Scombidae	<i>Scomber japonicus</i>	Chub mackerel	3	1.9	Mature fish	Empty stomach	Viscera removed	0.82	0.27	0.55	N.D.(0.017)	
			2016/6/2	Vertebrata	Osteichthyes	Tetraodontiformes	Monacanthidae	<i>Thamnaconus modestus</i>	Filefish	14	3.1	Immature fish	Obscure digesta	Viscera removed	N.D.	N.D.(0.29)	N.D.(0.29)	N.D.(0.020)	
Off Soma City	L-1 L-2 L-3	Matsukawaura	2016/6/21	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.0073	-	-	-	6.6	N.D.(5.2)	6.6	-	
			2016/6/3	Algae/plant	Monocotyledoneae	Najadales	Zosteraceae	<i>Zostera marina</i>	Eel grass	-	1.2	-	-	-	1.91	0.31	1.6	-	
			2016/6/21	Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Hemigrapsus sp.</i>	Hemigrapsus	140	0.31	Imago	-	-	-	3.84	0.74	3.1	-
				Mollusca	Bivalvia	Ostreoida	Ostreidae	<i>Crassostrea gigas</i>	Oyster	36	0.75	Imago	-	Molluscos part	1.72	0.32	1.4	-	
				Mollusca	Bivalvia	Veneroida	Veneridae	<i>Ruditapes philippinarum</i>	Japanese littleneck	94	0.44	Imago	-	Molluscos part	3.56	0.66	2.9	-	
				Vertebrata	Osteichthyes	Perciformes	Mugilidae	<i>Mugil cephalus</i>	Flathead mullet	443	1.8	Immature fish	-	-	27.4	4.4	23	0.029	
				Vertebrata	Osteichthyes	Tetraodontiformes	Tetraodontidae	<i>Takifugu niphobles</i>	Takifugu niphobles	3	0.028	Immature fish	-	-	1.8	N.D.(1.9)	1.8	-	
Off Iwaki City	M-1 M-2 M-3	Offshore of Hisanohama	2016/6/21	Mollusca	Cephalopoda	Decapodiformes	Sepiidae	<i>Sepia andreaana</i>	Sepia andreaana	3	0.12	Imago	-	-	N.D.	N.D.(0.66)	N.D.(0.70)	-	
Vertebrata				Osteichthyes	Lophiiformes	Lophiidae	<i>Lophiomus setigerus</i>	Monkfish	4	2.9	Immature fish	Gumard	Viscera removed	N.D.	N.D.(0.37)	N.D.(0.38)	N.D.(0.016)		
Vertebrata				Osteichthyes	Scorpaeniformes	Hexagrammidae	<i>Hexagrammos otakii</i>	Fat greenling	2	1.3	Mature fish	Shrimp	Viscera removed	3.51	0.51	3.0	0.25		
Vertebrata				Osteichthyes	Scorpaeniformes	Triglidae	<i>Lepidotrigla microptera</i>	Searobin	12	2.6	Immature fish,Mature fish	Shrimp	Viscera removed	1.5	N.D.(0.33)	1.5	0.037		
Vertebrata				Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Kareius bicoloratus</i>	Stone flounder	3	1.9	Immature fish	Shellfish	Viscera removed	5.04	0.84	4.2	0.13		
Vertebrata				Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Pleuronichthys japonicus</i>	Finespotted flounder	7	0.82	Immature fish,Mature fish	Ragworm	Viscera removed	1.1	N.D.(0.45)	1.1	-		
Vertebrata				Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Microstomus achne</i>	Slime flounder	7	2.7	Immature fish,Mature fish	Empty stomach	Viscera removed	2.80	0.50	2.3	0.20		
Vertebrata				Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Pseudopleuronectes herzensteini</i>	Yellow striped flounder	2	0.34	Immature fish,Mature fish	Ragworm	Viscera removed	2.18	0.38	1.8	-		
Vertebrata				Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Pleuronectes yokohamae</i>	Marbled sole	6	3.8	Mature fish	Shellfish,Ragworm	Viscera removed	2.49	0.39	2.1	0.017		
Vertebrata				Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Eopsetta grigorjewi</i>	Shotted halibut	9	3.5	Immature fish,Mature fish	Shrimp	Viscera removed	1.93	0.33	1.6	0.017		
Vertebrata				Osteichthyes	Pleuronectiformes	Paralichthyidae	<i>Paralichthys olivaceus</i>	Bastard halibut	3	3.4	Mature fish	Anchovy	Viscera removed	1.0	N.D.(0.32)	1.0	N.D.(0.017)		
Vertebrata				Osteichthyes	Tetraodontiformes	Tetraodontidae	<i>Takifugu poecilonotus</i>	Pufferfish	5	2.0	Mature fish	Obscure digesta	Viscera removed	0.71	N.D.(0.36)	0.71	0.029		
Vertebrata				Osteichthyes	Zeiformes	Zeidae	<i>Zenopsis nebulosa</i>	Dory	4	0.16	Immature fish	Anchovy	Viscera removed	4.19	0.79	3.4	-		
Vertebrata	Chondrichthyes	Rajiformes	Rajidae	<i>Okamejei kenojei</i>	Common Skete	4	3.0	Immature fish	Shrimp,Crab	Viscera removed	14.3	2.3	12	0.19					
Vertebrata	Chondrichthyes	Carcharhiniformes	Triakidae	<i>Mustelus manazo</i>	Starspotted smooth-hound	1	0.67	Immature fish	Crab	Viscera removed	2.77	0.57	2.2	-					
M-4	Hisanohama Coastal areas	2016/6/21	Algae/plant	Phaeophyceae	Laminariales	Laminariaceae	<i>Eisenia bicyclis</i>	Eisenia bicyclis	-	0.31	-	-	-	4.78	0.78	4.0	-		
			Mollusca	Gastropoda	Archaeogastropoda	Haliotidae	<i>Haliotis sp.</i>	Abalone	3	0.23	Imago	-	Molluscos part	0.42	N.D.(0.38)	0.42	-		
			Echinodermata	Echinoidea	Echinoidea	Strongylocentrotidae	<i>Strongylocentrotus nudus</i>	Northern sea urchin	7	0.52	Imago	-	-	1.5	N.D.(0.27)	1.5	-		

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