○ Results of Radioactive Material Monitoring of Aquatic Organisms Lake Inawashiro (north lakeside) I / Lake Inawashiro (south lakeside) J

＜Lake Inawashiro (north lakeside) I / Lake Inawashiro (south lakeside) J: Samples collected＞

Items	General items		Radioactive materials			
Locations	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
I-1	○	○	○	○	○	○
I-2	—	○	—	—	○	—
I-3	○	○	○	—	○	—
I-4	—	○	—	—	○	—
J-1	○	○	○	—	○	—

＜Lake Inawashiro (north lakeside) I / Lake Inawashiro (south lakeside) J: Site measurement item＞

Items	Latitude and longitude of the location		Survey date and time			Water	Sediment					Other	
Locations	Latitude	Longitude	Date	Time (water)	Time (sediment	Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color	Odor	Contaminants	Water depth (m)	Secchi disk depth (m)
I-1	37.504683°	140.114333°	2013/10/10	9:49	10:10	20.8	20.7	Sand/gravel/sediment	7.5Y6/2	Faint hydrogen sulfide	Plant	10.0	8.5
I-2	37.499467°	140.140883°		—	9:27	—	19.1	Ooze	7.5Y5/2	Faint hydrogen sulfide	Plant	12.5	8.0
I-3	37.507700°	140.026250°		11:05	11:18	19.8	19.3	Ooze	7.5Y4/2	None	Corbicula leana	16.5	6.5
I-4	37.515967°	140.109167°		—	10:34	—	20.2	Sand gravel	5Y6/6	None	Vallisneria denseserrulata	2.0	2.0
J-1	37.420333°	140.100833°		8:30	8:50	19.1	19.6	Sand	7.5Y5/3	None	Corbicula leana	4.8	4.8

＜Lake Inawashiro (north lakeside) I / Lake Inawashiro (south lakeside) J: General survey items/Analysis of radioactive materials Water＞

Items	Latitude and longitude of the location		Survey date and time		pH	BOD	COD	DO	Electrical conductivity	Salinity	TOC	SS	Turbidity	Cs-134	Cs-137	Sr-90
Locations	Latitude	Longitude	Date	Time		(mg/L)	(mg/L)	(mg/L)	(mS/m)		(mg/L)	(mg/L)	(FNU)	(Bq/L)	(Bq/L)	(Bq/L)
I-1 (Surface layer)	37.504683°	140.114333°	2013/10/10	9:49	5.4	<0.5	1.3	8.3	13.6	0.07	0.5	<1	0.4	0.0080	0.021	—
I-1 (Deep layer)					6.7	<0.5	1.5	9.3	11.2	0.06	0.7	2	1.1	0.011	0.022	0.0011
I-3 (Surface layer)	37.507700°	140.026250°		11:05	6.9	0.7	1.7	8.8	11.3	0.06	0.7	<1	0.6	0.0096	0.018	—
I-3 (Deep layer)					6.9	0.9	1.9	9.2	11.2	0.06	0.7	2	1.4	0.011	0.021	—
J-1 (Surface layer)	37.420333°	140.100833°		8:30	6.8	1.0	2.1	9.3	11.3	0.06	1.1	<1	0.7	0.0098	0.021	—
J-1 (Deep layer)					6.8	1.0	2.3	9.2	11.2	0.06	1.0	4	1.4	0.012	0.025	—

＜Lake Inawashiro (north lakeside) I / Lake Inawashiro (south lakeside) J: General survey items/Analysis of radioactive materials Sediment＞

Items	Latitude and longitude of the location		Survey date and time		pH	Redox potential	Water content	IL	TOC	Soil particle density	Grain size distribution								Cs-134	Cs-137	Sr-90
											Gravel	Coarse sand	Medium sand	Fine sand	Silt	Clay	Median grain diameter	Maximum grain diameter			
Locations	Latitude	Longitude	Date	Time		E_{NHE} (mV)	(%)	(%)	(mg/g-dry)	(g/cm3)	(2-75mm) (%)	(0.85-2mm) (%)	(0.25-0.85mm) (%)	(0.075-0.25mm) (%)	(0.005-0.075mm) (%)	(Less than 0.005mm) (%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
I-1	37.504683°	140.114333°	2013/10/10	10:10	6.7	69	31.4	4.4	7	2.719	65.7	4.6	10.6	13.2	2.3	3.6	7.7	26.5	88	200	N.D.(<0.17)
I-2	37.499467°	140.140883°		9:27	6.8	409	60.5	6.8	17	2.644	0.3	2.2	4.2	49.1	18.5	25.7	0.088	4.75	330	740	—
I-3	37.507700°	140.026250°		11:18	6.4	238	68.4	9.0	21	2.630	0	0.1	4.8	33.3	31.2	30.6	0.033	2	16	40	—
I-4	37.515967°	140.109167°		10:34	6.6	194	27.6	1.6	1	2.831	28.5	13.3	42.3	13.8	1.1	1.0	0.63	19	23	55	—
J-1	37.420333°	140.100833°		8:50	6.8	169	33.0	1.9	2	2.664	0.5	3.9	61.0	31.2	1.7	1.7	0.29	4.75	59	150	—

Note) N.D. means to be below the detection limit.

＜Lake Inawashiro (north lakeside) I / Lake Inawashiro (south lakeside) J: Analysis items　Aquatic organisms＞

Location	Latitude and longitude of the location		Sampling Date	Division	Class	Order	Family	Species name	English name	Population	Sample weight (kg-wet)	Note		Cs-134	Cs-137	Sr-90
	Latitude	Longitude										Growth stage	Stomach contents	(Bq/kg-wet)	(Bq/kg-wet)	(Bq/kg-wet)
I-1 I-2 (north lakeside)	37.504683° 37.499467°	140.114333° 140.140883°	2013/11/20	Arthropod	Malacostraca	Decapoda	Palaemonidae	*Palaemon paucidens*	Common prawn	168	0.12	Imago	–	3.8	9.5	–
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Carassius auratus*	Carassius auratus langsdorfii(medium)	136	0.87	2-year-old fish	–	8.0	17	–
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Carassius auratus*	Carassius auratus langsdorfii(large)	Many	2.4	5-year-old fish	Some (details unknown)	10	25	0.51
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Hemibarbus barbus*	Hemibarbus barbus	2	1.5	4-year-old fish	Some (details unknown)	11	23	0.43
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Tribolodon hakonensis*	Japanese dace	30	1.5	3-year-old fish	Some (details unknown)	27	59	–
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	*Misgurnus anguillicaudatus*	Oriental weatherfish	393	0.84	Mature fish	–	0.81	1.8	–
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Salvelinus leucomaenis*	Char	3	2.6	3-year-old fish	None	50	120	0.14
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	*Micropterus dolomieu*	Small mouth bass	3	1.4	3-year-old fish	None	22	52	0.27
			2013/10/10	Coarse particulate organic matters (CPOMs)	–	–	–	–	CPOMs (fallen leaves)	–	0.30	–	–	20	42	–
J-1 (south lakeside)	37.420333°	140.100833°	2013/10/5	Arthropod	Malacostraca	Decapoda	Palaemonidae	*Palaemon paucidens*	Common prawn	355	0.054	Imago	–	2.2	4.0	–
			2013/10/10	Algae/plant	–	–	–	–	Floating algae	–	0.045	–	–	15	33	–
				Angiospermae	Monocotyledoneae	Hydrocharitales	Hydrocharitaceae	*Elodea nuttallii*	Western Waterweed	–	0.073	–	–	N.D.(<0.91)	1.1	–
				Angiospermae	Dicotyledoneae	Nymphaeales	Nymphaeaceae	*Nuphar japonicum*	Cow lily	–	0.35	–	–	N.D.(<0.92)	2.7	–
				Arthropod	Insecta	Odonata	Corduliidae	*Macromia amphigena amphigena*	Macromia amphigena	14	0.016	Larva	–	N.D.(<2.7)	N.D.(<2.3)	–
				Arthropod	Insecta	Odonata	Cordulegastridae	*Anotogaster sieboldii*	Anotogester sieboldii							
				Arthropod	Insecta	Odonata	Aeshnidae	*Anax nigrofasciatus nigrofasciatus*	Anax nigrofasciatus nigrofasciatus							
				Arthropod	Insecta	Odonata	Aeshnidae	*Anax parthenope julius*	Anax parthenope							
				Mollusca	Gastropoda	Architaenioglos	Viviparidae	*Bellamya chinensis laeta*	Bellamya chinensis laeta	59	0.37	Imago	–	1.1	3.1	–
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	*Misgurnus anguillicaudatus*	Oriental weatherfish	212	0.18	Immature fish	–	N.D.(<1.0)	1.7	–
				Vertebrata	Amphibia	Anura	Ranidae	*Rana rugosa*	Wrinkled Frog	14	0.090	Imago	–	1.8	3.9	–
				Vertebrata	Amphibia	Anura	–	–	Tadpole	71	0.046	Larva	–	9.9	20	–
			2013/10/20	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Carassius auratus*	Carassius auratus langsdorfii(small)	70	0.46	Yearling fish	Some (details unknown)	7.8	16	–
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Carassius auratus*	Carassius auratus langsdorfii(large)	5	1.7	3-year-old fish	Some (details unknown)	12	28	0.51
			2013/10/25	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Pseudogobio esocinus*	Pseudogobio esocinus	57	0.89	2-year-old fish	Some (details unknown)	7.3	16	–
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Salvelinus leucomaenis*	Char	2	1.9	3-year-old fish	None	65	150	0.11
			2013/10/26	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Hemibarbus barbus*	Hemibarbus barbus	Many	1.0	1-year-old fish	Some (details unknown)	13	31	–
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Tribolodon hakonensis*	Japanese dace	37	1.8	5-year-old fish	Some (details unknown)	37	87	–

Note 1) When multiple types of aquatic organisms were collected, a sample was prepared by mixing them.
Note 2) For species with stomach contents as indicated in the note column, all stomach contents were removed for conducting the analysis.
Note 3) Underlined names in the English name column indicate species largest in number in the respective samples.
Note 4) A statement in red in the "Growth stage" column shows the age assessed based on squama or otolith.
Note 5) N.D. means to be below the detection limit.