O 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	Scheduled latitude	Scheduled longitude	Date	Time (water)	Time (sediment)	Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color	Contaminants	Water depth (m)	Transparency (m)
I-1 (Surface layer)	37.5047°	140.1143°	2015/6/17	9:43	9:59	18	12.8	Ooze	7.5Y 2/2	Plant	11.5	10.5
I-1 (Deep layer)						14.6						
I-2	37.4995°	140.1409°		-	10:22	-	12.3	Ooze	7.5Y 3/2	Plant	-	-
I-3 (Surface layer)	37.5077°	140.0263°		8:56	9:07	18.5	15.6	Ooze	7.5Y 4/1	Freshwater	7.1	4.5
I-3 (Deep layer)						18.3						
I-4	37.5160°	140.1092°		-	9:32	-	18.1	Sand gravel	7.5Y 5/3	Vallisneria denseserrulata	-	-
J-1 (Surface layer)	37.4203°	140.1008°		8:17	8:28	18	17	Sand	7.5Y 5/3	None	4.8	>4.8
J-1 (Deep layer)						17.8						

＜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	Scheduled latitude	Scheduled longitude	Date	Time (water)		(mg/L)	(mg/L)	(mg/L)	(mS/m)		(mg/L)	(mg/L)	(FNU)	(Bq/L)	(Bq/L)	(Bq/L)
I-1 (Surface layer)	37.5047°	140.1143°	2015/6/17	9:43	7	<0.5	1.5	9.3	11.5	0.06	0.7	2	0.9	0.0030	0.0092	-
I-1 (Deep layer)					6.9	<0.5	1.3	8.9	11.6	0.06	0.9	1	0.4	0.0042	0.015	0.0016
I-3 (Surface layer)	37.5077°	140.0263°		8:56	6.9	0.6	1.4	9.4	11.3	0.06	0.7	2	1.4	0.0045	0.013	-
I-3 (Deep layer)					6.9	0.6	1.2	8.7	11.4	0.06	0.8	<1	0.5	0.0038	0.012	-
J-1 (Surface layer)	37.4203°	140.1008°		8:17	6.9	0.8	1.5	9.6	11.3	0.06	1	1	0.6	0.0043	0.013	-
J-1 (Deep layer)					6.9	<0.5	1.5	8	11.6	0.06	1.3	<1	0.2	0.0038	0.013	-

＜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 EN.H.E	Water content	IL	TOC	Soil particle density	Grain size distribution								Cs-134	Cs-137	Sr-90
Locations	Scheduled latitude	Scheduled longitude	Date	Time (sediment)		(mV)	(%)	(%)	(mg/g-dry)	(g/cm3)	Gravel (2-75mm) (%)	Coarse sand (0.85-2mm) (%)	Medium sand (0.25-0.85mm) (%)	Fine sand (0.075-0.25mm) (%)	Silt (0.005-0.0075mm) (%)	Clay (Less than 0.005mm) (%)	Median grain diameter	Maximum grain diameter	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
I-1	37.5047°	140.1143°	2015/6/17	9:59	6.9	240	82.4	9.2	15	2.472	0.6	0.6	5.2	33	24.3	36.3	0.042	4.75	120	460	0.21
I-2	37.4995°	140.1409°		10:22	7	202	69.8	9.1	26.5	2.493	0.1	0.3	1	31.2	29.7	37.7	0.023	4.75	120	470	-
I-3	37.5077°	140.0263°		9:07	6.9	183	68.7	10.1	27.8	2.518	0.1	0.3	3.3	32.2	35.4	28.7	0.037	4.75	30	140	-
I-4	37.5160°	140.1092°		9:32	6.5	378	19.5	1.7	2.2	2.691	21.2	13.2	53.5	11.3	0.1	0.7	0.57	19	17	67	-
J-1	37.4203°	140.1008°		8:28	6.9	334	32.6	1.9	3.6	2.642	0.4	4	64.9	22	3.2	5.5	0.3	4.75	53	230	-

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

Location	Sampling point	Latitude and longitude of the location		Sampling Date	Division	Class	Order	Family	Species name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)		Sr-90
		Latitude	Longitude										Growth stage	Stomach contents	Measurement site	Cs-134	Cs-137	(Bq/kg-wet)
I-1 (north lakeside)	-	37.5047°	140.1143°	2015/6/17	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Tribolodon hakonensis*	Japanese dace	20	1.0	Mature fish (2-year-old)	Empty stomach	Viscera removed	11	45	-
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Tribolodon hakonensis*	Japanese dace	11	1.4	Mature fish (3-year-old)	Obscure digesta	Viscera removed	14	53	-
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Carassius sp.*	Carassius auratus langsdorfii	6	2.4	Mature fish (4,5-year-old)	Obscure digesta	Viscera removed	9.2	37	0.51
					Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Oncorhynchus masou masou*	Seema	1	0.055	Mature fish (1-year-old)	Aquatic insects	Viscera removed	N.D. (1.9)	5.9	-
					Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Oncorhynchus masou masou*	Seema	1	0.17	Mature fish (2-year-old)	Fish、Terrestrial & aquatic insects	Viscera removed	11	42	-
					Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Oncorhynchus masou masou*	Seema	10	3.1	Mature fish (3-year-old)	Terrestrial insects	Viscera removed	15	59	0.11
					Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Salvelinus leucomaenis*	Char	1	0.074	Mature fish (1-year-old)	Fish	Viscera removed	7.6	30	-
					Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Salvelinus leucomaenis*	Char	10	2.7	Mature fish (2,3-year-old)	Empty stomach	Viscera removed	14	53	0.13
					Vertebrata	Osteichthyes	Siluriformes	Siluridae	*Silurus asotus*	Amur catfish	1	1.1	Mature fish (10-year-old)	Empty stomach	Viscera removed	19	76	-
					Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.11	-	-	-	5.6	20	-
J-1 (south lakeside)	-	37.4203°	140.1008°	2015/6/17	Phycophyta	-	-	-	-	Plankton (Planktonic algae)	-	0.0036	-	-	-	N.D. (7.4)	28	-
					Angiospermae	Dicotyledoneae	-	Menyanthaceae	*Nymphoides peltata*	Nymphoides peltata	-	0.17	-	-	-	N.D. (0.5)	N.D. (0.5)	-
					Angiospermae	Dicotyledoneae	Nymphaeales	Nymphaeaceae	*Nuphar japonicum*	Cow lily	-	0.34	-	-	-	0.54	2.1	-
					Arthropod	Insecta	Odonata	Cordulegastridae	*Anotogaster sieboldii*	Anotogester sieboldii	12	0.014	Larva (dragonfly larva)	-	-	N.D. (2.9)	N.D. (2.4)	-
					Arthropod	Malacostraca	Decapoda	Palaemonidae	*Palaemon paucidens*	Common prawn	16	0.0092	Imago	-	-	N.D. (3.6)	8.9	-
					Mollusca	Gastropoda	Architaenioglossa	Viviparidae	*Cipangopaludina chinensis laeta*	Mud-snail	41	0.056	Imago	-	Molluscan body	N.D. (1.1)	3.1	-
					Mollusca	Gastropoda	Sorbeoconcha	Pleuroceridae	*Semisulcospira libertina*	Semisulcospira libertina	23	0.013	Imago	-	Molluscan body	N.D. (4.2)	N.D. (4.1)	-
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Phoxinus lagowskii steindachneri*	Amur Minnow	13	0.045	Mature fish (1-year-old)	-	-	N.D. (1.8)	N.D. (2.2)	-
					Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	*Misgurnus anguillicaudatus*	Oriental weatherfish	29	0.084	Mature fish	-	-	N.D. (0.7)	1.9	-
					Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Gymnogobius urotaenia*	Goby	4	0.011	Mature fish	-	-	7.2	18	-
					Vertebrata	Amphibia	Anura	-	-	Tadpole	10	0.022	Larva (tadpoles)	-	-	4.1	15	-
					Vertebrata	Amphibia	Anura	Ranidae	*Glandirana rugosa*	Wrinkled Frog	9	0.074	Imago	-	-	N.D. (0.9)	1.7	-
					Vertebrata	Amphibia	Anura	Ranidae	*Pelophylax porosus porosus*	Daruma pond frog								
					Vertebrata	Amphibia	Caudata	Salamandridae	*Cynops pyrrhogaster*	Cynops pyrrhogaster	10	0.067	Imago	-	-	N.D. (1.6)	2.9	-
				2015/6/14	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Carassius sp.*	Carassius auratus langsdorfii	11	0.066	Mature fish (1-year-old)	-	-	3.2	11	-
				2015/6/10	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Carassius sp.*	Carassius auratus langsdorfii	5	2.0	Mature fish (4,8-year-old)	Empty stomach	Viscera removed	3.8	15	0.46
				2015/6/14	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Tribolodon hakonensis*	Japanese dace	12	1.7	Mature fish (2,3,4-year-old)	Obscure digesta	Viscera removed	9.9	41	-
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Tribolodon hakonensis*	Japanese dace	88	2.2	Mature fish (1,2-year-old)	Obscure digesta	Viscera removed	5.7	21	0.25
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Pseudogobio esocinus esocinus*	Pseudogobio esocinus	28	0.43	Mature fish (1,2-year-old)	Empty stomach	Viscera removed	2.3	10	-
				2015/6/10	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Hemibarbus barbus*	Hemibarbus barbus	1	0.16	Mature fish (2-year-old)	Obscure digesta	Viscera removed	6.5	25	-
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Hemibarbus barbus*	Hemibarbus barbus	4	3.7	Mature fish (4,5,6-year-old)	Obscure digesta	Viscera removed	7.0	27	0.44
					Vertebrata	Osteichthyes	Perciformes	Centrarchidae	*Micropterus dolomieu dolomieu*	Small mouth bass	2	1.7	Mature fish (2,3-year-old)	Empty stomach	Viscera removed	12	44	0.28

*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.