OResults 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	Genera	ıl items	Radioactive materials									
Locations	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)						
J-1	0	0	0	0	0	0						

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

Items		ongitude of the		Survey date and time		Water		Sedi	ment		O	her
Locations	Latitude	Longitude	Date	Time (water)	Time (sediment)	Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color	Contaminants	Water depth (m)	Secchi disk depth (m)
J-1(Surface layer)	37.4203°	140.1008°	2021/10/18	14:18	15:02	18.2	17.7	Sand	7.5Y5/3	Shell fragments, Waterweed	3.0	>3.0
J-1(Bottom layer)		140.1008	2021/10/18			17.8						>3.0

<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 Latitude Longitude		of the Survey date and time pH		pН	BOD	COD	DO	Electric conductivity	Salinity	TOC	SS	Turbidity	Cs-134	Cs-137	Sr-90
Locations	Latitude	Longitude	Date	Time (water)		(mg/L)	(mg/L)	(mg/L)	(mS/m)		(mg/L)	(mg/L)	(FNU)	(Bq/L)	(Bq/L)	(Bq/L)
J-1(Surface layer)	27.42029	140.1008°	2021/10/18	14.10	7.3	<0.5	1.6	9.4	11.5	0.06	0.8	<1	0.4	N.D.(0.0014)	0.0054	-
J-1(Bottom layer)	37.4203°	140.1008	2021/10/18	14:18	7.0	<0.5	2.2	9.8	11.8	0.06	1.0	<1	0.6	N.D.(0.0014)	0.0055	0.00069

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

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

Itame	Latitude and le	ongitude of the	Survey do	to and time										Grain si	ze distribution						
itens	location		Survey date and time		pH	Redox potential	Water content	IL	TOC	Soil particle	Gravel	Coarse sand	Medium sand	Fine sand	Silt	Clay	Median grain	Maximum	Cs-134	Cs-137	Sr-90
Laustiana	Latitude	de Longitude	tude Date	Time (sediment)		$E_{N.H.E}$				density	(2-75mm)	(0.85-2mm)	(0.25-0.85mm)	(0.075-0.25mm)	(0.005-0.075mm)	(Less than 0.005mm)	diameter	grain diameter			
Locations	Latitude					(mV)	(%)	(%)	(mg/g-dry)	(g/cm ³)	(%)	(%)	(%)	(%)	(%)	(%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
J-1	37.4203°	140.1008°	2021/10/18	15:02	6.6	390	24.1	1.0	2.1	2.831	0.3	0.7	61.6	32.0	1.0	4.4	0.29	4.8	2.7	49	N.D.(0.13)

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

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

Locations	Sampling point	Latitude and longitude of the location		Sampling date	Division	Class	Order	Family	Family Scientific name	English name	Population	Sample weight		Note		Rad	Sr-90		
		Latitude	Longitude									(kg-wet)	Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	(Bq/kg-wet)
T 1					Arthropoda	Malacostraca	Decapoda	Astacidae	Pacifastacus leniusculus trowbridgii	Signal crayfish	7	0.13	Juvenile,Imago	-	-	12	N.D.(0.65)	12	-
1-1	Within the lake and Nagase River	37.5047°	140.1143°	2021/10/17	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	Salvelinus leucomaenis	Char	1	0.55	Mature fish	Empty stomach	Viscera removed	22	N.D.(1.4)	22	-
(north lakeside)		37.4995°	140.1409°	2021/10/17	Vertebrata	Osteichthyes	Perciformes	Gobiidae	Rhinogobius kurodai	Rhinogobius kurodai	51	51 0.021 Immature fish,Mature fish	.	2.4	N.D.(1.4)	2.4	_		
(north takeside)					Vertebrata	Osteichthyes	Perciformes	Gobiidae	Rhinogobius sp.	Rhinogobius	31		inimature risii,wature risii	<u> </u>	-	2.4	N.D.(1.4)	2.4	
	Within the lake				Algae/plant	-	-		-	Plankton (Planktonic algae)	-	0.0068	-	-	-	N.D.	N.D.(4.7)	N.D.(2.6)	-
J-1	and around the	37.4203°	° 140.1008°	2021/10/18	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Carassius auratus	Carassius auratus langsdorfii	3	0.021	Immature fish	-	-	10	N.D.(2.1)	10	-
(south lakeside)	Oninuma	37.4203		140.1006	2021/10/16	Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	Misgurnus anguillicaudatus	Oriental weatherfish	1	0.014	Mature fish	-	-	5.5	N.D.(2.3)	5.5
					Vertebrata	Osteichthyes	Perciformes	Centrarchidae	Lepomis macrochirus	Bluegill	4	0.052	Immature fish	-	-	7.9	N.D.(1.8)	7.9	-

^{*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 the

^{*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 (40 μ m-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.