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	al items	<u> </u>	Radioactiv	e 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>

Zuite mawasimo (norm	,											
Items		ongitude of the		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	Contaminants	Water depth (m)	Secchi disk depth (m)
J-1(Surface layer)	- 37.4203°	140.1008°	2022/12/2	12:48	13:33	10.2	10.2	Sand	7.5Y3/2	Shells	3.5	>3.5
J-1(Bottom layer)		140.1008*	2022/12/2			10.3	10.2					/5.3

<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	Electric conductivity	Salinity	тос	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	37.4203°	140.1008°	2022/12/2	12:48	6.9	<0.5	1.3	11.0	11.7	0.06	0.7	<1	0.3	N.D.(0.0014)	0.0042	-
J-1(Bottom layer		140.1008*	2022/12/2	12:48	6.9	0.9	1.8	10.6	11.9	0.06	1.1	<1	0.5	N.D.(0.0015)	0.0040	0.00086

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>

Items	Latitude and lo	ongitude of the	Summer de											Grain si	ze distribution						
nens	loca	tion	Survey da	ate 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
Locations	Latituda	le Longitude	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			1
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°	2022/12/2	13:33	6.8	505	20.7	0.8	2.4	2.780	4.9	6.0	52.6	32.6	1.0	2.9	0.30	4.8	0.69	24	N.D.(0.14)

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>

Lake mawasimo (nort	ii iakeside) 17 Lake iiia	washiro (south lakes)	ide) 5. 2 tharysis items 2	rquatic organisms																								
Locations	Sampling point	Latitude and longitude of the location		Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight	Note			Radioactive cesium (Bq/kg-wet)			Sr-90									
		Latitude	Longitude				'	ř				(kg-wet)	Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	(Bq/kg-wet)									
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Tribolodon hakonensis	Japanese dace	53	3.0	Immature fish, Mature fish	Obscure digesta	Viscera removed	10	N.D.(1.2)	10	0.20									
I-1 I-2	Within the lake and Nagase River	37.5047°	140.1143°	2022/12/2	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Carassius auratus langsdorfii	Carassius auratus langsdorfii	12	4.2	Mature fish	Obscure digesta	Viscera removed	8.6	N.D.(0.37)	8.6	-									
(north lakeside)		37.4995°	140.1409°	2022/12/2	2022/12/2	2022/12/2	2022/12/2	2022/12/2	2022/12/2	2022/12/2	2022/12/2	2022/12/2	1	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	Oncorhynchus mykiss	Rainbow trout	1	0.26	Mature fish	Obscure digesta	Viscera removed	3.0	N.D.(0.39)	3.0	-
(norm micosae)					Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.21	-	-	-	1.8	N.D.(0.26)	1.8	-									
J-1 (south lakeside)	Within the lake and around the Oninuma	37.4203°	140.1008°	2022/12/2	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.0078	-	-	-	N.D.	N.D.(3.8)	N.D.(3.1)	-									

*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 (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.