

○ 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			
	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	
	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°	2013/12/4	9:15	9:37	8.4	9.1	Ooze	7.5Y3/1	Faint hydrogen sulfide	Plant	12.5	12.5
I-2	37.499467°	140.140883°		9:01	9:01	—	8.3	Ooze	7.5Y3/1	Faint hydrogen sulfide	Plant	15.0	10.3
I-3	37.507700°	140.026250°		10:25	10:30	11.2	13.1	Ooze	7.5Y5/3	Faint hydrogen sulfide	None	7.2	7.2
I-4	37.515967°	140.109167°		9:54	—	—	9.7	Soft sediment with sand	5Y5/4	None	Aquatic weeds	3.0	3.0
J-1	37.420333°	140.100833°		8:22	8:38	8.3	8.2	Sand	7.5Y5/3	None	None	5.2	5.2

<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 (mg/L)	COD (mg/L)	DO (mg/L)	Electrical conductivity (mS/m)	Salinity	TOC (mg/L)	SS (mg/L)	Turbidity (FNU)	Cs-134 (Bq/L)	Cs-137 (Bq/L)	Sr-90 (Bq/L)
	Latitude	Longitude	Date	Time												
I-1 (Surface layer)	37.504683°	140.114333°	2013/12/4	9:15	6.9	<0.5	1.5	10.7	11.4	0.06	0.7	2	0.9	0.0080	0.022	—
I-1 (Deep layer)	37.499467°	140.140883°		9:01	6.1	<0.5	1.6	11.0	12.6	0.07	0.6	3	1.0	0.0098	0.022	0.00095
I-3 (Surface layer)	37.507700°	140.026250°		10:25	6.7	<0.5	1.4	10.8	11.3	0.06	0.6	2	0.8	0.0078	0.022	—
I-3 (Deep layer)	37.507700°	140.026250°		10:30	6.7	<0.5	1.7	11.0	11.3	0.06	0.6	4	1.9	0.0076	0.022	—
J-1 (Surface layer)	37.420333°	140.100833°		8:22	6.7	0.6	2.1	11.3	11.4	0.06	1.3	2	1.0	0.0093	0.021	—
J-1 (Deep layer)	37.420333°	140.100833°	8:38	6.7	0.6	2.0	11.2	11.4	0.06	1.1	2	1.4	0.014	0.031	—	

<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 E _{NHE} (mV)	Water content (%)	IL (%)	TOC (mg/g-dry)	Soil particle density (g/cm ³)	Grain size distribution						Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)		
	Latitude	Longitude	Date	Time							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 (<0.005mm) (%)				Median grain diameter (mm)	Maximum grain diameter (mm)
I-1	37.504683°	140.114333°	2013/12/4	9:37	6.8	-48	77.8	9.4	19	2.538	0	0.6	5.1	44.0	20.1	30.2	0.073	2	380	860	N.D. (<0.24)
I-2	37.499467°	140.140883°		9:01	6.8	-68	69.4	7.9	18	2.581	2.0	1.0	1.8	34.5	30.0	30.7	0.037	9.5	310	1,200	—
I-3	37.507700°	140.026250°		10:30	6.8	-78	68.5	10.2	17	2.586	0	0.1	2.5	26.9	45.1	25.4	0.030	2	35	99	—
I-4	37.515967°	140.109167°		9:54	6.5	-15	30.1	3.3	2	2.717	23.3	14.1	30.2	6.7	12.1	13.6	0.54	19	22	59	—
J-1	37.420333°	140.100833°		8:38	6.8	156	30.3	1.6	1	2.676	1.3	5.6	76.9	14.7	0.6	0.9	0.34	4.75	51	140	—

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 (Bq/kg-wet)	Cs-137 (Bq/kg-wet)	Sr-90 (Bq/kg-wet)		
	Latitude	Longitude										Growth stage	Stomach contents					
I-1, I-2 (north lakeside)	37.504683°	140.114333°	2013/12/4	Coarse particulate organic matters	—	—	—	—	CPOMs (fallen leaves)	—	0.45	—	—	12	30	—		
J-1 (south lakeside)	37.420333°	140.100833°		Algae/plant	—	—	—	—	—	Floating algae	—	0.068	—	—	N.D. (<0.82)	2.0	—	
				Mollusca	Gastropoda	Sorboscocha	Pleuroceridae	<i>Semisulcospira libertina</i>	Japanese mysterysnail	50	0.053	Imago	—	—	—	2.7	5.8	—
				Mollusca	Gastropoda	Architaenioglossa	Viviparidae	<i>Bellamya japonica</i>	Japanese mysterysnail	37	0.21	Imago	—	—	—	N.D. (<0.80)	N.D. (<0.80)	—
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	30	0.14	Mature fish	—	—	—	0.95	1.7	—
amphibians	Amphibia	Anura	Ranidae	<i>Rana</i>	Rana	13	0.079	Imago	—	—	—	—	12	26	—			

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.