

○Results of Radioactive Material Monitoring of Aquatic Organisms (Locations G and H in Lake Inawashiro)

<Locations G and H along the Lake Inawashiro: Samples collected>

Items Locations	General items		Radioactive materials			
	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
G-1 (Surface layer)	○	—	○	—	—	—
G-1 (Deep layer)	○	○	○	○	○	○
G-2	—	○	—	—	○	—
H-1	—	○	—	—	○	—

<Locations G and H along the Lake Inawashiro:Site measurement item>

Items Locations	Survey date and time		Latitude and longitude of the location		Water		Sediment					Other				
	Water	Sediment	Latitude	Longitude	Water temperature	Sediment temperature	Property	Color	Odor	Contaminants	Secchi disk depth	Water depth				
G-1 (Surface layer)	2012/8/21	8:53	37.5054	140.1138	26.3	-	-	-	-	-	10.4	10.4				
G-1 (Deep layer)					24.7	16.0	Soft sediment (with sand)	10YR-2/2	None	Slightly plant piece	-	-				
G-2					-	9:45	37.5005	140.1401	-	16.6	Ooze	10YR-3/1	None	None	8.2	12.2
H-1					-	10:20	37.4205	140.1011	-	26.6	Sand gravel	2.5YR-6/4	None	None	3.6	3.6

<Locations G and H along the Lake Inawashiro:Analysis items Water>

Items Locations	Survey date and time		Latitude and longitude of the location		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															
G-1 (Surface layer)	2012/8/21	8:53	37.5054	140.1138	6.0	<0.5	0.9	7.7	12.5	0.06	0.5	1	0.3	0.018	0.029	—			
G-1 (Deep layer)					4.8	1.1	1.0	8.0	15.4	0.08	0.5	<1	0.3	0.018	0.032	0.0011			
G-2					-	37.5005	140.1401	—	—	—	—	—	—	—	—	—	—	—	—
H-1					-	37.4205	140.1011	—	—	—	—	—	—	—	—	—	—	—	—

<Locations G and H along the Lake Inawashiro:Analysis items Sediment>

Items Locations	Survey date and time		Latitude and longitude of the location		pH	Redox potential E _{NH,E} (mV)	Water content (%)	IL (%)	TOC (mg/g.dry)	Soil particle (g/cm ³)	Grain size distribution								Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)
			Latitude	Longitude							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 (Less than 0.005mm) (%)	Median grain diameter (mm)	Maximum grain diameter (mm)			
G-1	2012/8/21	9:15	37.5054	140.1138	6.9	6	75.7	7.3	20	2.568	2.5	2.1	10.4	29.5	22.3	33.2	0.032	9.5	2,000	3,200	0.47
G-2		9:45	37.5005	140.1401	6.9	75	51.1	6.0	16	2.626	2.4	3.1	4.0	24.7	45.9	19.9	0.035	4.75	1,200	1,900	—
H-1		10:20	37.4205	140.1011	6.8	160	30.2	1.8	1	2.697	1.0	6.4	65.8	23.7	0.5	2.6	0.31	4.75	66	110	—

< Locations G and H in Lake Inawashiro: Analysis items Aquatic organisms >

Location	Sampling Date	Latitude and longitude of		Division	Class	Order	Family	Species name	English name	Population	Sample weight (kg, wet)	Cs-134 (Bq/kg, wet)	Cs-137 (Bq/kg, wet)	Sr-90 (Bq/kg, wet)	Note	
		Latitude	Longitude												Growth stage	Stomach contents
G-1 G-2 (north lakeside)	2012/8/10	37.5054	140.1138	Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	0.8	44	63	—	Mature fish	Some (details unknown)
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	6	1.8	100	150	—	Mature fish	Some (details unknown)
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	1	0.30	130	200	—	Mature fish	Some (details unknown)
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	3	2.5	50	75	—	Mature fish	Some (details unknown)
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorffii</i>	2	1.3	18	27	—	Mature fish	Some (details unknown)
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	Many	6.0	64	95	0.29	Mature fish	—
	2012/8/20	37.5005	140.1401	Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitidae</i>	Cobitidae	Many	1.7	3.4	5.7	—	Mature fish	—
				Streptophyta	Zygnematophyceae	Zygnematales	Zygnemataceae	<i>Spirogyra sp.</i>	Spirogyra	—	0.27	16	26	—	—	—
				—	—	—	—	—	CPOM (litter)	—	0.77	62	110	—	—	—
H-1 (south lakeside)	2012/8/21	37.4205	140.1011	Vertebrata	Amphibia	Anura	Ranidae	<i>Rana porosa porosa</i>	Daruma pond frog	10	0.11	27	41	—	Imago	—
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	2	1.3	52	86	—	Mature fish	Some (details unknown)
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	4	2.1	68	110	0.43	Mature fish	Some (details unknown)
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	36	0.50	4.3	6.3	—	Immature fish	—
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	15	2.5	29	48	0.40	Mature fish	Some (details unknown)
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorffii</i>	10	1.5	20	31	—	Mature fish	Some (details unknown)
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	17	0.60	38	62	—	Mature fish	Some (details unknown)
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus</i>	<i>Pseudogobio esocinus</i>	5	0.10	9.3	15	—	Mature fish	—
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	Zacco platypus	11	0.40	22	31	—	Mature fish	—
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Goby	21	0.10	15	23	—	Mature fish	—
				Mollusca	Gastropoda	Architaenioglossa	Viviparidae	<i>Bellamya japonica</i>	Japanese mysterysnail	9	0.060	25	37	—	Imago	—
				Angiospermae	Dicotyledoneae	Nymphaeales	Nymphaeaceae	<i>Nuphar japonicum</i>	Cow lily	—	1.0	3.2	4.6	—	—	—
				Magnoliophyta	Monocotyledoneae	Hydrocharitales	Hydrocharitaceae	<i>Hydrocharis dubia</i>	Hydrocharis dubia	—	0.50	1.9	2.9	—	—	—
Angiospermae	Monocotyledoneae	Hydrocharitales	Hydrocharitaceae	<i>Elodea nuttallii</i>	Western Waterweed	—	0.30	4.8	7.6	—	—	—				