

○ Results of Radioactive Material Monitoring of Aquatic Organisms (Location G off Iwaki City (Nakoso))

<Location G off Iwaki City (Nakoso): Samples collected>

Items Locations	General items		Radioactive materials			
	Water	Sediment	water (Cs)	water (Sr)	Sediment (Cs)	Sediment (Sr)
G-1	○	○	○	○	○	○
G-2	—	○	—	—	○	—
G-3	—	○	—	—	○	—
G-4	○	○	○	○	○	○
G-5	—	○	—	—	○	—

<Location G off Iwaki City (Nakoso) Site measurement item>

Items Locations	Survey date and time	Latitude and longitude of the location		Water		Sediment				Other		
		Latitude	Longitude	Water temperature	Sediment temperature	Property	Color	Odor	Contaminants	Secchi disk depth	Water depth	
G-1	2012/1/13	8:25	36.86550	140.89238	10.1	9.1	Sand	2.5Y3/2	None	None	10.6	38.8
G-2		9:20	36.90053	140.92147	—	9.3	Sand	2.5Y3/1	None	None	—	35.1
G-3		9:42	36.91210	140.94050	—	9.3	Sand	2.5Y2/2	None	None	—	33.8
G-4		10:11	36.91855	140.96768	11.0	9.8	Sand	2.5Y2/2	None	None	10.6	36.0
G-5		10:50	36.92990	140.99013	—	9.1	Sand	2.5Y2/2	None	Shellfish fry	—	44.9

<Location G off Iwaki City (Nakoso): 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	2012/1/13	8:25	36.86550	140.89238	8.1	0.7	0.8	9.0	4.990	33.97	0.7	4	0.8	0.039	0.050	0.011
G-2		9:20	36.90053	140.92147	-	-	-	-	-	-	-	-	-	-	-	-
G-3		9:42	36.91210	140.94050	-	-	-	-	-	-	-	-	-	-	-	-
G-4		10:11	36.91855	140.96768	8.1	<0.5	0.7	9.0	4.990	33.96	0.6	1	0.6	0.044	0.055	0.010
G-5		10:50	36.92990	140.99013	-	-	-	-	-	-	-	-	-	-	-	-

<Location G off Iwaki City (Nakoso): Analysis items Sediment>

Items Locations	Survey date and time	Latitude and longitude of the location		pH	Redox potential E <sub>NHE</sub> (mV)	Water content (%)	IL (%)	TOC mg/g,dry	Soil particle density (g/cm <sup>3</sup> )	Grain size distribution								Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)	
		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	2012/1/13	8:25	36.86550	140.89238	8.3	182	32.1	4.2	5	2.630	—	0.1	0.9	49.3	33.3	16.4	0.0757	2	280	370	0.33
G-2		9:20	36.90053	140.92147	8.3	94	39.4	3.9	2	2.615	—	—	0.4	36.1	42.3	21.2	0.0430	0.850	500	700	—
G-3		9:42	36.91210	140.94050	8.4	205	34.6	2.9	2	2.654	—	0.1	0.2	64.4	23.6	11.7	0.1035	2	530	760	—
G-4		10:11	36.91855	140.96768	8.5	356	26.0	2.3	1	2.673	—	—	0.4	76.0	16.0	7.6	0.1179	0.850	410	580	0.17
G-5		10:50	36.92990	140.99013	8.4	228	28.7	3.4	1	2.708	0.1	0.1	0.7	82.5	11.1	5.5	0.1341	4.75	550	770	—

<Location G off Iwaki City (Nakoso): Analysis items Aquatic organisms>

Location	Sampling Date	Latitude and longitude of the location		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)	*Stomach contents
		Latitude	Longitude												
G-1-5	2012/1/13	36.86550	140.89238	Echinoderm	Starfish	Northern Pacific seastar	Northern Pacific seastar	<i>Asterias amurensis</i>	Northern Pacific seastar	Many	2	4.6	5.0	—	—
				Mollusca	Cephalopoda	Octopodiformes	Common octopus	<i>Paroctopus dafleini</i>	North Pacific Giant Octopus	2	4.2	4.5	3.8	—	—
				Mollusca	Cephalopoda	Octopodiformes	Common octopus	<i>Octopus vulgaris</i>	Common octopus	5	4.3	2.2	2.8	—	—
				Mollusca	Cephalopoda	Decapodiformes	Squid	<i>Lololus sp.</i>	Japanese squid	Many	0.5	5.1	6.4	—	—
				Vertebrata	Cartilage fish	Sandbar shark	Banded houndshark	<i>Mustelus manazo</i>	Starspotted smooth-hound	1	0.7	62	85	—	Sardine,crabs
				Vertebrata	Cartilage fish	Ray	Skate	<i>Okamejei kenoei</i>	Common Skete	4	3.1	45	61	—	Metapenaeopsis, shrimp, fish
				Vertebrata	Osteichthyes	Righteye flounder	Flounder	<i>Paralichthys olivaceus</i>	Flounder	5	3.1	24	33	—	Sardine, anchovy, fish
				Vertebrata	Osteichthyes	Righteye flounder	Righteye flounder	<i>Kareius bicoloratus</i>	Stone flounder	2	3.6	73	90	—	Unknown
				Vertebrata	Osteichthyes	Righteye flounder	Righteye flounder	<i>Eopsetta grigorjevi</i>	Round-nose flounder	10	3	34	47	—	Fish, shrimps, sandworm
				Vertebrata	Osteichthyes	Righteye flounder	Righteye flounder	<i>Pleuronectes yokohamae</i>	Marbled sole	17	5.1	38	53	—	Fish, shrimps, sandworm
				Vertebrata	Osteichthyes	Righteye flounder	Righteye flounder	<i>Microstomus achne</i>	Slime flounder	4	1.7	46	56	—	Unknown
				Vertebrata	Osteichthyes	Righteye flounder	Sole Tonguefish	<i>Cynoglossus joyneri</i>	Red tonguesole	6	0.4	24	38	—	Unknown
				Vertebrata	Osteichthyes	Perciformes	Lateolabracidae	<i>Lateolabrax japonicus</i>	Japanese sea bass	1	4.2	20	30	—	Sardine, sand lance, chub mackerel
				Vertebrata	Osteichthyes	Puffer	Puffer	<i>Takifugu pardalis</i>	Globefish	4	1.2	9.3	18	—	Crabs, shellfish
Vertebrata	Osteichthyes	Puffer	Puffer	<i>Takifugu poecilonotus</i>	Pufferfish	3	0.6	20	35	—	Unknown				