

Results of Radioactive Material Monitoring of Aquatic Organisms (Location G in Lake Hayama)

<Location G in Lake Hayama: Samples collected>

Items	General items		Radioactive materials			
	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
G-1	○	○	○	○	○	○
G-2	○	○	○	-	○	-
G-4	○	○	○	-	○	-

<Location G in Lake Hayama: 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	Contaminants	Water depth (m)
G-1(Surface layer)	37.7348°	140.8102°	2021/12/4	10:30	10:50	11.6	8.3	Sand sediment	7.5Y2/2	Plant pieces	5.4	3.5
G-1(Bottom layer)						10.9						
G-2(Surface layer)	37.7267°	140.8223°	2021/12/4	09:40	09:50	11.5	11.6	Sediment	7.5Y3/2	Plant pieces	10.7	4.0
G-2(Bottom layer)						11.4						
G-4	37.7382°	140.8035°		13:40	13:40	6.1	6.2	Sand	7.5Y6/3	None	0.3	>1.0

<Location G in Lake Hayama: 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)	Electric 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 (water)												
G-1(Surface layer)	37.7348°	140.8102°	2021/12/4	10:30	7.2	0.6	3.6	10.0	7.8	0.04	1.4	2	1.3	N.D.(0.0015)	0.026	-
G-1(Bottom layer)					7.3	<0.5	3.3	9.7	7.8	0.04	1.5	1	1.2	N.D.(0.0016)	0.028	0.00075
G-2(Surface layer)	37.7267°	140.8223°	2021/12/4	09:40	7.4	<0.5	3.2	9.4	7.8	0.04	1.4	1	1.3	N.D.(0.0014)	0.0097	-
G-2(Bottom layer)					7.3	<0.5	3.2	9.5	7.8	0.04	1.4	1	1.4	N.D.(0.0014)	0.011	-
G-4	37.7382°	140.8035°		13:40	7.4	<0.5	2.7	11.5	7.7	0.04	1.4	<1	1.0	N.D.(0.0017)	0.017	-

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

<Location G in Lake Hayama: 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 (sediment)							Gravel (2-7mm) (%)	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	37.7348°	140.8102°	2021/12/4	10:50	7.3	208	34.1	5.0	13.3	2.680	4.1	5.8	35.1	21.5	11.6	0.20	9.5	20	570	1.7	
G-2				09:50	7.0	128	51.5	12.0	33.2	2.570	0.1	0.1	0.5	4.4	56.2	38.7	0.0095	4.8	86	2300	-
G-4				13:40	7.6	338	23.0	2.6	1.6	2.720	1.7	4.9	37.7	39.9	8.6	7.2	0.22	9.5	7.4	250	-

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

<Location G in Lake Hayama: Analysis items Aquatic organisms>

Locations	Sampling point	Latitude and longitude of the location		Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)
		Latitude	Longitude										Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
G-1 G-2 G-3	In the lake	37.7348° 37.7267° 37.7302°	140.8102° 140.8223° 140.8307°	2021/12/4	Algae/plant	-	-	-	Plankton (Planktonic algae)		-	0.020	-	-	-	N.D.	N.D.(1.8)	N.D.(1.5)	-
				2021/12/1	Vertebrata	Osteichthyes	Cyprinidae	Tribolodon hakonensis	Japanese dace		2	0.65	Mature fish	Obscure digesta		50.7	1.7	49	-
				2021/12/4	Vertebrata	Osteichthyes	Cyprinidae	Carassius auratus	Carassius auratus langsdorffii		1	1.7	Mature fish	Obscure digesta		24	N.D.(1.4)	24	-
				2021/12/1	Vertebrata	Osteichthyes	Cyprinidae	Cyprinus carpio	Common carp		1	1.3	Mature fish	Obscure digesta		27	N.D.(1.5)	27	-