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

<Location G in Lake Hayama: Samples collected>

Items	Genera	al items	Radioactive materials								
Locations	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)					
G-1	0	0	0	0	0	0					
G-4	0	0	0	-	0	-					

<Location G in Lake Hayama: Site measurement item>

Cocation G in Lake Hayama: Sife measurement item>													
Items	Items Latitude and longitude of the location			Survey date and time		Water		Sedi		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	
G-1(Surface layer)	27 72 400	140.01020		10:45	11:30	10.6	10.0	Sediment	7.5Y 3/2	Plant pieces	4.1	0.3	
G-1(Bottom layer)	37.7348°	140.8102°	2019/12/4	10:45		10.4	10.0						
G-4	37.7382°	140.8035°		14:20	15:20	6.1	6.0	Sand	7.5Y 5/3	Plant pieces	0.3	>0.5	

Note) The number in Secchi disk depth at G4 indicates Transparency.

<Location G in Lake Hayama: General survey items/Analysis of radioactive materials Water>

Cocation of in Lake i	Cocation G in Lake Flayania: General survey nems/Anarysis of radioactive materials - water															
Items	Items Latitude and longitude of the location Latitude Longitude		Survey date and time		pН	BOD	COD	DO	Electric conductivity	Salinity	TOC	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)
G-1(Surface layer)	27 72400	140.8102°		10:45	7.2	<0.5	3.6	9.8	6.6	0.04	2.0	8	15.7	0.0050	0.083	-
G-1(Bottom layer)	37./346	140.8102	2019/12/4	10:43	7.2	<0.5	3.5	9.6	6.6	0.04	1.9	6	15.7	0.0084	0.15	0.0012
G-4	37.7348° -1(Bottom layer)	140.8035°		14:20	7.4	<0.5	1.8	12.3	7.2	0.04	0.9	<1	<0.2	N.D.(0.0012)	0.0069	-

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>

Itama	Latitude and longitude of the location		Common do	Survey date and time										Grain si	ze distribution	•					
Items			Survey date and time		pH	Redox potential	Water content	IL	TOC	Soil particle	Gravel	Gravel Coarse sand		Fine sand	Fine sand Silt	Clay	Median grain	Maximum	Cs-134	Cs-137	Sr-90
Lanting	Latitude	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			
Locations	Latitude	Longitude				(mV)	(%)	(%)	(mg/g-dry)	(g/cm ³)	(%)	(%)	(%)	(%)	(%)	(%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
G-1	37.7348°	140.8102°	2019/12/4	11:30	7.6	141	44.4	8.0	21.5	2.688	0.0	0.0	1.0	36.7	44.5	17.8	0.049	2.0	74	1200	2.3
G-4	37.7382°	140.8035°	2019/12/4	15:20	7.7	368	33.1	4.3	5.0	2.728	4.1	4.3	37.7	37.0	11.2	5.7	0.23	9.5	45	680	-

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	Note			Radioactive cesium (Bq/kg-wet)			Sr-90
		Latitude	Longitude							,		(kg-wet)	Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	(Bq/kg-wet)
G-1		37.7348°	140.8102°		Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.0026	-	-	-	N.D.	N.D.(15)	N.D.(13)	-
G-2	In the lake	37.7267°	140.8223° 140.8307°	2019/12/4	Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	Hypomesus nipponensis	Japanese smelt	102	0.088	Immature fish	-	-	18.3	1.3	17	-
G-3		37.7302°			Vertebrata	Osteichthyes	Perciformes	Centrarchidae	Micropterus salmoides	Largemouth bass	1	0.10	Immature fish	Japanese smelt	Viscera removed	51.5	4.5	47	-
			140.8035°		Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.016	-	-	-	137.1	7.1	130	-
G-4	Inflowing rivers	37.7382°			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Tribolodon hakonensis	Japanese dace	50	0.37	Immature fish	-	-	23.4	1.4	22	-
G-4	innowing rivers	37.7362			Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	Oncorhynchus masou	Yamame trout	4	0.053	Immature fish	-	-	42.8	2.8	40	-
					Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.23	-	-	-	7.64	0.44	7.2	-

^{*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 (40µm-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.