OResults of Radioactive Material Monitoring of Aquatic Organisms (Location H in Lake Akimoto)

<Location H in Lake Akimoto: Samples collected>

Items	Genera	ıl items	Radioactive materials								
Locations	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)					
H-1	0	0	0	0	0	0					
H-2	0	0	0	-	0	-					

<Location H in Lake Akimoto: Site measurement item>

Items		ongitude of the		Survey date and time				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)
H-1(Surface layer)	37.6575°	140.1264°		08:52	09:10	16.0	12.2	Ooze	7.5Y4/2	Plant pieces	14.0	3.5
H-1(Bottom layer)	37.0373		2021/10/18			12.9						3.3
H-2(Surface layer)	37.6616°	140.1226°	2021/10/18	09:38	09:50	15.3	- 15.4	Ooze	7.5Y4/1	Plant pieces	6.2	2.0
H-2(Bottom layer)		140.1226				14.5						2.0

<Location H in Lake Akimoto: General survey items/Analysis of radioactive materials Water>

Items	Latitude and longitude of the location		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)
H-1(Surface layer)	37.6575°	140.1264°		08:52	7.1	<0.5	3.5	8.5	5.4	0.03	1.5	1	1.3	N.D.(0.0015)	0.0068	-
H-1(Bottom layer)		140.1204	2021/10/18	08.32	6.5	0.5	4.4	2.1	4.9	0.03	1.7	6	4.4	N.D.(0.0015)	0.021	0.0012
H-2(Surface layer)	37.6616°	140.1226°	2021/10/18	09:38	7.1	<0.5	3.4	8.3	5.7	0.03	1.4	6	3.7	N.D.(0.0015)	0.016	-
H-2(Bottom layer)		140.1220		09.36	7.0	<0.5	4.2	8.3	5.8	0.04	1.5	14	7.8	N.D.(0.0016)	0.024	-

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

<Location H in Lake Akimoto: General survey items/Analysis of radioactive materials Sediment>

< Location H in Lake Akimoto: General survey items/Analysis of radioactive materials Sediment>																					
Items	Latitude and longitude of the location		Survey date and time								Grain size distribution										
TO TO			Buivey di	are and time	pH	Redox potential	Water content	IL	TOC	Soil particle	Gravel	Coarse sand	Medium sand	Fine sand	Silt	Clay	Median grain	Maximum	Cs-134	Cs-137	Sr-90
Locations	Latituda	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			ı l
Locations	Latitude	Longitude	Date			(mV)	(%)	(%)	(mg/g-dry)	(g/cm ³)	(%)	(%)	(%)	(%)	(%)	(%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
H-1	37.6575°	140.1264°	2021/10/18	09:10	6.8	67	55.1	9.1	26.7	2.531	0.0	0.1	0.0	0.3	61.1	38.5	0.0088	2.0	74	2200	1.1
H-2	37.6616°	140.1226°	2021/10/16	09:50	6.8	23	62.8	13.3	44.7	2.451	1.5	0.6	1.4	1.2	46.6	48.7	0.0053	9.5	77	2100	-

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

<Location H in Lake Akimoto: 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		
Locations	Sampling point	Latitude Longitude	Longitude	Sampring date	Division	Ciass	Older	1 annity	Scientific finite	Laighan name	ropulation	(kg-wet)	Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	(Bq/kg-wet)	
				2021/10/18	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.0080	-	-	-	N.D.	N.D.(4.0)	N.D.(2.8)	-	
** 1		27 (575)	140 12640	2021/10/19	Arthropoda	Malacostraca	Decapoda	Astacidae	Pacifastacus leniusculus trowbridgii	Signal crayfish	7	0.41	Imago	-	-	19	N.D.(1.2)	19	-	
H-1	In the lake	37.6575° 37.6616°	140.1264° 140.1226°			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Tribolodon hakonensis	Japanese dace	6	0.97	Mature fish	Obscure digesta	Viscera removed	22	N.D.(1.1)	22	-
H-2	III tile take	37.6653°	140.1220 140.1329°		Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Carassius auratus	Carassius auratus langsdorfii	3	2.7	Mature fish	Obscure digesta	Viscera removed	26	N.D.(1.3)	26	0.84	
11-5		37.0033	140.1327		Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	Hypomesus nipponensis	Japanese smelt	36	0.25	Mature fish	-	-	11	N.D.(0.87)	11	-	
					Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	Oncorhynchus masou masou	Seema	1	0.73	Immature fish	Japanese smelt	Viscera removed	22.4	1.4	21	-	

^{*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.