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

<Location H in Lake Akimoto: Samples collected>

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

<Location H in Lake Akimoto: Site measurement item>

Items		ongitude of the		Survey date and time		Water		Sedi	ment		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 12649	2010/10/22	09.26	00.40	13.5	12.1		7.5V.2/2	DI .	12.0	0.8	
H-1(Bottom layer)		140.1264°	2019/10/23	08:36	08:49	12.7	12.1	Ooze	7.5Y 3/2	Plant pieces	12.0		

<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)	27 65750	140.1264°	2019/10/23	09.26	7.1	1.3	5.4	8.8	4.5	0.03	2.8	6	9.4	N.D.(0.0017)	0.029	-
H-1(Bottom layer)	37.6575°	140.1264°	2019/10/23	08:36	6.9	0.9	6.1	8.4	4.5	0.03	2.9	11	12.4	0.0021	0.034	0.0013

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>

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Itame	Latitude and	ongitude of the	Survey date and time				1				Grain size distribution										
Items	location		Survey date 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	Latitude	Longitude	Dete	Time (codiment)	1	$E_{N,H,E}$				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	Date	Time (sediment)		(mV)	(%)	(%)	(mg/g-dry)	(g/cm ³)	(%)	(%)	(%)	(%)	(%)	(%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
H-1	37.6575°	140.1264°	2019/10/23	08:49	6.7	331	68.4	10.2	27.2	2.553	5.3	0.0	0.1	0.4	53.0	41.2	0.0074	9.5	45	650	1.2

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>

Location II in Lake 2	1	1 0				1							1						1
Locations	Sampling point	Latitude and	longitude of the ation	Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight	Note			Rad	Radioactive cesium (Bq/kg-wet) Sr-90		Sr-90
	1 51	Latitude	Longitude				-1461	,		9		(kg-wet)	Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	(Bq/kg-wet)
	In the lake				Arthropoda	Malacostraca	Decapoda	Astacidae	Pacifastacus leniusculus trowbridgii	Signal crayfish	12	0.43	Imago	-	-	14.84	0.84	14	-
TT 1		27 (575)	140 12640		Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Tribolodon hakonensis	Japanese dace	10	1.6	Mature fish	Obscure digesta	Viscera removed	19.3	1.3	18	-
H-1 H-2		37.6575° 37.6616° 37.6653°	140.1264° 140.1226°	2019/10/23	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Carassius auratus	Carassius auratus langsdorfii	6	1.3	Mature fish	Obscure digesta	Viscera removed	30.6	2.6	28	1.1
H-3			140.1220 140.1329°	2019/10/23	Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	Hypomesus nipponensis	Japanese smelt	68	0.15	Immature fish,Mature fish	-	-	3.7	N.D.(0.50)	3.7	-
11 5		37.0033	140.1329		Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	Salvelinus leucomaenis	Char	3	0.71	Mature fish	Japanese smelt	Viscera removed	22.4	1.4	21	-
					Vertebrata	Osteichthyes	Perciformes	Centrarchidae	Micropterus dolomieu	Small mouth bass	11	2.5	Immature fish,Mature fish	Fish	Viscera removed	26.3	1.3	25	-

^{*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 ther

^{*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.