

○Results of Radioactive Material Monitoring of Aquatic Organisms (Location F in Lake Akimoto)

<Location F in Lake Akimoto: Samples collected>

Items Locations	General items		Radioactive materials			
	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
F-1	—	○	—	—	○	—
F-2	—	○	—	—	○	—
F-3 (Surface layer)	○	—	○	—	—	—
F-3 (Deep layer)	○	○	○	○	○	○

<Location F in Lake Akimoto: 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	
F-1	2012/6/4	9:51	37.6568	140.1296	17.5	8.7	Ooze	5Y-5/2	None	Plant	5.2	16.2
F-2		10:01	37.6615	140.1222	17.6	11.3	Ooze	5Y-4/3	None	Plant	5.0	6.0
F-3 (Surface layer)		9:28	37.6651	140.1329	17.9	-	-	-	-	-	5.0	-
F-3 (Deep layer)					19.7	14.2	Sand	5Y-3/2	None	Plant	-	8.5

<Location F in Lake Akimoto: Analysis items Water>

Items Locations	Survey date and time	Latitude and longitude of the location		pH	BOD	COD	DO	Electrical conductivity	Salinity	TOC	SS	Turbidity	Cs-134 (Bq/L)	Cs-137 (Bq/L)	Sr-90 (Bq/L)	
		Latitude	Longitude	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mS/m)	(mg/L)	(mg/L)	(FNU)	(Bq/L)	(Bq/L)	(Bq/L)		
F-1	2012/6/4	9:51	37.6568	140.1296	-	-	-	-	-	-	-	-	-	-	-	
F-2		10:01	37.6615	140.1222	-	-	-	-	-	-	-	-	-	-	-	
F-3 (Surface layer)		9:28	37.6651	140.1329	7.0	0.6	2.7	9.9	4.1	0.02	1.2	<1	0.6	0.011	0.017	-
F-3 (Deep layer)					7.1	2.0	4.3	9.8	4.7	0.03	2.1	6	1.6	0.0098	0.018	0.0015

<Location F in Lake Akimoto: 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)						
F-1	2012/6/4	9:51	37.6568	140.1296	6.8	79	65.7	8.0	17	2.617	—	0.1	0.2	0.2	43.8	55.7	0.0041	2	91	120	—
F-2		10:01	37.6615	140.1222	6.6	52	76.2	12.3	33	2.499	—	0.8	0.9	1.2	34.4	62.7	0.0027	2	210	390	—
F-3		9:28	37.6651	140.1329	6.4	73	60.9	10.8	44	2.568	0.0	0.3	11.3	40.8	29.8	17.8	0.083	4.75	1,300	1,900	2.0

<Location F in Lake Akimoto: 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)	Note	
		Latitude	Longitude												Growth stage	Stomach contents
F-1 F-2 F-3	2012/6/4	37.6568	140.1296	—	—	—	—	—	CPOM (litter)	—	2.5	100	150	—	—	—
				Vertebrata	Amphibia	anuran	Ranidae	<i>Rana ornativentris</i>	Rana ornativentris	(Many)	0.75	220	320	—	Non-adult	—
				Vertebrata	Perciformes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	13	4.6	160	250	1.1	Mature fish	Shrimps,small fish
				Vertebrata	Salmoniformes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	7	3.8	190	280	0.36	Mature fish	Some (details unknown)
				Vertebrata	Salmoniformes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	5	0.50	61	92	—	mature fish/Immature fish	Small fish
				Vertebrata	Cypriniformes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	2	7.0	37	57	—	Mature fish	Some (details unknown)
				Vertebrata	Cypriniformes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	5	1.6	68	110	—	Mature fish	Some (details unknown)
				Vertebrata	Cypriniformes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorffii	17	5.6	76	110	1.0	Mature fish	Some (details unknown)
				Vertebrata	Cypriniformes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	24	3.3	120	180	—	Mature fish	Some (details unknown)
				Arthropod	Decapoda	Decapoda	Astacidae	<i>Pacifastacus leniusculus</i>	Signal crayfish	12	0.75	73	110	—	Imago	—
Angiospermae	Hydrocharitales	Hydrocharitales	Hydrocharitaceae	<i>Elodea nuttallii</i>	Western Waterweed	—	2.0	19	27	—	—	—				