

○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	
	Water	Sediment	Latitude	Longitude	Water temperature	Sediment temperature	Property	Color	Odor	Contaminants	Secchi disk depth	Water depth
F-1	—	9:38	37.6568	140.1296	—	9.3	Ooze	10YR-4/1	None	None	5.6	15.5
F-2	—	9:55	37.6615	140.1222	—	14.5	Ooze	7.5Y-4/1	None	Some plant fragments	3.8	4.5
F-3 (Surface layer)	—	—	—	—	26.0	—	—	—	—	—	5.7	12.0
F-3 (Deep layer)	8:45	9:10	37.6652	140.1329	18.4	13.6	Ooze	10YR-4/2	None	Some plant fragments	-	-

<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	Cs-137	Sr-90
	Water	Latitude	Longitude	(mg/L)	(mg/L)	(mg/L)	(mS/m)	(mg/L)	(mg/L)	(FNU)	(Bq/L)	(Bq/L)	(Bq/L)			
F-1	—	37.6568	140.1296	—	—	—	—	—	—	—	—	—	—	—	—	—
F-2	—	37.6615	140.1222	—	—	—	—	—	—	—	—	—	—	—	—	—
F-3 (Surface layer)	—	—	—	—	7.4	0.9	2.9	7.8	6.0	0.03	1.2	<1	0.6	0.022	0.032	—
F-3 (Deep layer)	8:45	37.6652	140.1329	—	6.8	0.8	3.7	5.2	5.0	0.03	1.3	2	1.3	0.018	0.028	0.0018

<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>NHLE</sub> (mV)	Water content (%)	IL (%)	TOC mg/g dry	Soil particle (g/cm <sup>3</sup> )	Grain size distribution							Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)	
	Latitude	Longitude	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	9:38	37.6568	140.1296	—	7.2	82	64.6	8.4	17	2.634	—	—	0.1	46.9	52.9	0.0041	2	1,100	1,700	—	
F-2	9:55	37.6615	140.1222	—	6.9	27	76.0	12.0	31	2.559	—	—	0.9	40.7	57.1	0.0025	2	400	720	—	
F-3	9:10	37.6652	140.1329	—	6.6	52	68.4	15.2	41	2.609	4.2	1.1	13.3	27.2	29.5	24.7	0.056	19	360	560	1.9

<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	2012/8/20	37.6568	140.1296	Vertebrata	Amphibia	Caudata	Salamandridae	<i>Cynops pyrrhogaster</i>	Cynops pyrrhogaster	6	0.032	36	54	—	Imago	—		
				Vertebrata	Amphibia	Anura	Ranidae	<i>Rana ornativentris</i>	Montane brown frog	4	0.051	28	43	—	Imago	—		
				Vertebrata	Amphibia	Anura	Ranidae	<i>Rana rugosa</i>	Wrinkled Frog									
				37.6615	140.1222	Vertebrata	Amphibia	Anura	Ranidae	<i>Buergeria buergeri</i>	Kajika frog (tadpole)	293	0.12	55	81	—	Non-adult	—
		Vertebrata	Osteichthyes			Perciformes	Centrarchidae	<i>Micropterus salmoides</i>	Largemouth bass	4	1.0	77	110	—	Mature fish	Some (details unknown)		
		Vertebrata	Osteichthyes			Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	15	7.7	120	190	1.2	Mature fish	Some (details unknown)		
				37.6652	140.1329	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	3	0.81	84	120	—	Mature fish	Some (details unknown)
		Vertebrata	Osteichthyes			Perciformes	Centrarchidae	<i>Lepomis macrochirus</i>	Bluegill	6	0.88	89	140	—	Mature fish	Some (details unknown)		
		Vertebrata	Osteichthyes			Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	3.7	35	50	—	Mature fish	Some (details unknown)		
						Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	3	4.2	24	39	—	Mature fish	Some (details unknown)
						Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorffii	24	8.6	51	77	1.6	Mature fish	Some (details unknown)
						Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	9	1.5	120	180	—	Mature fish	Some (details unknown)
						Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Zacco platypus</i>	Zacco platypus	53	0.72	38	55	—	Mature fish	—
						Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur Minnow	23	0.090	29	43	—	Mature fish	—
						Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	2	0.047	74	110	—	Mature fish	—
						Vertebrata	Osteichthyes	Osmeriformes	Osmeridae	<i>Hypomesus nipponensis</i>	Japanese smelt	46	0.30	32	53	—	Mature fish	—
						Arthropod	Malacostraca	Decapoda	Astacidae	<i>Pacifastacus leniusculus trowbridgii</i>	Signal crayfish	131	5.4	63	93	10	Imago	—
						Magnoliophyta	Monocotyledoneae	Hydrocharitales	Hydrocharitaceae	<i>Vallisneria denseserrulata</i>	Vallisneria denseserrulata	—	0.36	5.1	8.5	—	—	—
				Angiospermae	Monocotyledoneae	Hydrocharitales	Hydrocharitaceae	<i>Elodea nuttallii</i>	Western Waterweed	—	0.70	2.6	4.5	—	—	—		
				Streptophyta	Zygnematomyceae	Zygnematales	Zygnemataceae	<i>Spirogyra sp.</i>	Spirogyra	—	0.29	17	27	—	—	—		
				—	—	—	—	—	CPOM (litter)	—	0.79	60	96	—	—	—		