

○Results of Radioactive Material Monitoring of Aquatic Organisms (Location E in Lake Hayama)

<Location E in Lake Hayama: Samples collected>

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

<Location E in Lake Hayama: 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
E-1 (Surface layer)	H24.6.7	10:20	37.7342	140.8094	21.1	—	—	—	—	—	3.5	5.8
E-1 (Deep layer)					19.2	10.0	Sand/sediment	5Y-3/2	None	Plant	—	—
E-2		11:58	37.7261	140.8213	-	16.2	Sand/gravel/sediment	5Y-4/3	None	Plant	3.9	11.0
E-3		11:30	37.7293	140.8309	-	7.3	Sediment	10YR-2/2	None	Plant	4.5	11.0

<Location E in Lake Hayama: Analysis items Water>

Items Locations	Survey date and time		Latitude and longitude of the location		pH	BOD (mg/L)	COD (mg/L)	DO (mg/L)	Electrical conductivity (mS/m)	Salinity	TOC (mg/L)	SS (mg/L)	Turbidity (FNU)	Cs-134 (Bq/L)	Cs-137 (Bq/L)	Sr-90 (Bq/L)
			Latitude	Longitude												
E-1 (Surface layer)	2012/6/7	10:20	37.7342	140.8094	7.6	0.8	3.6	9.6	6.0	0.04	1.9	1	1.2	0.098	0.14	—
E-1 (Deep layer)					7.3	1.0	4.5	9.0	6.8	0.03	1.9	5	2.3	0.15	0.22	0.0029
E-2		11:58	37.7261	140.8213	-	-	-	-	-	-	-	-	-	-	-	-
E-3		11:30	37.7293	140.8309	-	-	-	-	-	-	-	-	-	-	-	-

<Location E in Lake Hayama: Analysis items Sediment>

Items Locations	Survey date and time		Latitude and longitude of the location		pH	Redox potential E _{NHE} (mV)	Water content (%)	IL (%)	TOC mg/g.dry	Soil particle density (g/cm ³)	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)
E-1	2012/6/7	10:20	37.7342	140.8094	6.8	63	74.8	21.5	78	2.449	—	0.1	41.8	47.2	4.9	6.0	0.22	2	22,000	33,000	14
E-2					11:58	37.7261	140.8213	6.6	103	33.2	4.5	7	2.653	32.8	11.2	17.8	13.9	10.5	13.8	0.55	19
E-3		11:30	37.7293	140.8309	6.7	74	77.1	23.1	86	2.371	—	0.1	0.2	1.8	51.5	46.4	0.0069	2	8,500	13,000	—

<Location E in Lake Hayama: 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
E-4	2012/6/6	37.7370	140.8056	Arthropod	Odonata	Ephemeroptera	Ephemerelellidae	<i>Isonychia japonica</i>	Isonychia japonica	193	0.079	210	300	—	Non-adult	—
				Arthropod	Odonata	Odonata	Gomphidae	<i>Onychogomphus viridicostus</i>	Onychogomphus viridicostus							
				Arthropod	Odonata	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae							
				Arthropod	Megaloptera	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Protohermes grandis							
				Arthropod	Trichoptera	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>							
				Arthropod	Trichoptera	Trichoptera	Stenopsychidae	<i>Stenopsyche sauteri</i>	Parastenopsyche sauteri							
				Arthropod	Trichoptera	Trichoptera	Stenopsychidae	<i>Stenopsyche sp.</i>	Caddisfly							
				Streptophyta	Zygnematales	Zygnematales	Zygnemataceae	<i>Spirogyra sp.</i>	Spirogyra							
E-1 E-2 E-3	2012/6/7	37.7342	140.8094	Vertebrata	Perciformes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	4	2.7	1,800	2,600	1.0	Mature fish	Some (details unknown)
				Vertebrata	Salmoniformes	Salmoniformes	Salmonidae	<i>Oncorhynchus mykiss</i>	Rainbow trout	4	1.5	110	170	—	Mature fish	Small fish
	2012/6/28	37.7261	140.8213	Vertebrata	Siluriformes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	2	1.8	1,200	1,800	—	Mature fish	Some (details unknown)
				Vertebrata	Cypriniformes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorfii	10	12	500	750	—	Mature fish	Some (details unknown)