

Results of Aquatic Organisms Monitoring Survey (Manogawa River C)

<Manogawa River, C Water quality Sediment Sampled items>

Stn No.	Standard items		Radionuclide			
	Water quality	Sediment	Water quality 4L	Water quality 20L	Sediment (Cs)	Sediment (Sr)
C-1	○	○	○	○	○	○
C-2	-	○	-	-	-	-
C-3	-	○	-	-	○	-
C-4	○	○	○	○	○	○
C-5	-	○	-	-	○	-

<Manogawa River, C On-site Survey Item>

Stn No.	Sampling date/time	Sampling location		Water quality		Sediment				Other		
		Latitude	Longitude	Water temperature	Mud temperature	Property	Hue	Odor	Materials contained	Transparency	Water depth	
C-1	2011/12/26	15:45	37.72148	140.88943	3.3	3.7	Sand and gravel	Brownish black	None	Fallen leaves	>50	1.00
C-2		16:37	37.73313	140.92532	3.5	3.4	Sand and gravel	Brownish black	None	Fallen leaves	>50	0.20
C-3		16:48	37.71853	140.94172	3.5	1.3	Sand and gravel	Olive brown	None	Fallen leaves	>50	0.39
C-4		14:30	37.70915	140.95677	4.3	5.0	Sand	Olive brown	None	Twig	>50	0.30
C-5		13:18	37.70528	140.96205	6.9	5.6	Sand and mud	Dark olive brown	None	Twig	>50	0.43

<Manogawa River, C Analyzed item Water quality>

Stn No.	Sampling date/time	Sampling location		pH	BOD (mg/L)	COD (mg/L)	DO (mg/L)	Electric conductivity (mS/m)	Salinity	TOC (mg/L)	SS (mg/L)	Turbidity (Degree)	Cs-134 (Bq/L)	Cs-137 (Bq/L)	Sr-90 (Bq/L)	
		Latitude	Longitude													
C-1	2011/12/26	15:45	37.72148	140.88943	7.5	<0.5	2.1	13.3	9.00	0.04	1.1	<1	0.4	0.130	0.170	0.0049
C-2		16:37	37.73313	140.92532	-	-	-	-	-	-	-	-	-	-	-	-
C-3		16:48	37.71853	140.94172	-	-	-	-	-	-	-	-	-	-	-	-
C-4		14:30	37.70915	140.95677	7.4	<0.5	1.6	13.3	11.9	0.05	0.9	<1	0.4	0.055	0.071	0.0031
C-5		13:18	37.70528	140.96205	-	-	-	-	-	-	-	-	-	-	-	-

<Manogawa River, C Analyzed item Sediment>

Stn No.	Sampling date/time	Sampling location		pH	ORP E _{NHLE} (mV)	Water content (%)	IL (%)	TOC (mg/g.dry)	Soil particle density (g/cm ³)	Grain size pattern						Median diameter (mm)	Maximum diameter (mm)	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 (>0.005mm) (%)						
C-1	2011/12/26	15:45	37.72148	140.88943	7.2	427	28.4	2.5	<1	2.687	36.5	34.1	25.5	2.0	1.3	0.6	1.3996	26.50	1,200	1,700	2.4
C-2		16:37	37.73313	140.92532	7.2	384	24.8	1.9	1	2.692	48.3	23.4	24.3	2.6	1.0	0.4	1.8746	26.50	660	890	-
C-3		16:48	37.71853	140.94172	7.4	480	10.0	1.2	<1	2.691	55.7	22.7	20.5	0.7	0.2	0.2	2.7580	37.50	490	660	-
C-4		14:30	37.70915	140.95677	7.3	475	20.8	1.3	3	2.683	5.2	26.9	61.4	5.0	0.9	0.6	0.6727	19.00	580	780	0.38
C-5		13:18	37.70528	140.96205	7.0	464	25.7	3.1	2	2.668	18.6	20.8	52.8	6.1	1.1	0.6	0.6873	26.50	450	620	-

<Manogawa River, C Analyzed item aquatic organisms>

Stn No.	Sampling date	Sampling location		Phylum/Division	Class	Order	Family	Species	English name	Sample number	Weight (kg.wet)	Cs-134 (Bq/kg.wet)	Cs-137 (Bq/kg.wet)	Sr-90 (Bq/kg.wet)	*Stomach contents
		Latitude	Longitude												
C-6	2012/1/11	37.73117	140.90895	-	-	-	-	-	CPOM	-	3.0	470	670	-	-
				Arthropoda	Insecta	Plecoptera	Perlidae	Kamimuria tibialis	Large numbers (Approx. 600)	0.20	290	380	-	-	
				Arthropoda	Insecta	Neuroptera	Corydalidae	Protoperla grandis							
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	Stenopsyche marmorata							
				Phylum Vertebrata	Osteichthyes	Perciformes	Gobiidae	Rhinogobius sp.	Common freshwater goby	40	0.20	1,100	1,500	-	-
C-2	2011/12/26	37.73133	140.92532	Phylum Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Cyprinus carpio	Common carp	6	3.0	80	110	1.1	Unknown
37.70915		140.95677	Phylum Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Carassius cuvieri	Japanese crucian carp	2	1.0	210	290	-	Unknown	
			Phylum Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Zacco platypus	Pale chub	20	0.20	250	350	-	Unknown	