

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

< Location H in Lake Akimoto: Samples collected >

Locations	Items	General items			Radioactive materials		
		Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
H-1	-	○	○	○	-	○	-
H-2	-	-	○	-	-	○	-
H-3	-	○	○	○	○	○	○
H-4	-	-	○	-	-	○	-
H-5	-	○	○	○	-	○	-

< Location H in Lake Akimoto: Site measurement item >

Locations	Latitude and longitude of the location		Survey date and time			Water	Sediment			Other		
	Scheduled latitude	Scheduled longitude	Date	Time (water)	Time (sediment)		Property	Color	Contaminants	Water depth (m)	Transparency (m)	
H-1(Surface layer)	37.6575°	140.1264°	2015/10/21	09:09	09:19	13.7	12.2	Ooze	7.5Y 4/1	Plant	13.6	3.5
H-1(Deep layer)	37.6575°	140.1264°		09:09	-	12.8	-	-	-	-	-	-
H-2	37.6616°	140.1226°		-	10:06	-	13.3	Ooze	7.5Y 4/1	Plant	-	-
H-3(Surface layer)	37.6653°	140.1329°		09:28	09:42	13.9	13.3	Sand sediment	7.5Y 3/2	Plant	10.0	3.4
H-3(Deep layer)	37.6653°	140.1329°		09:28	-	13.3	-	-	-	-	-	-
H-4	37.6551°	140.1181°		-	10:16	-	13.5	Ooze	7.5Y 4/2	Elodea nuttallii	-	-
H-5(Surface layer)	37.6523°	140.1568°		08:42	08:50	13.3	13.1	Sand sediment	7.5Y 3/2	Plant	9.0	3.6
H-5(Deep layer)	37.6523°	140.1568°		08:42	-	13.4	-	-	-	-	-	-

< Location H in Lake Akimoto: General survey items/Analysis of radioactive materials - Water >

Locations	Items	Latitude and longitude of the location		Survey date and time		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)
		Scheduled latitude	Scheduled longitude	Date	Time (water)	Time (sediment)	(mV)	(mg/L)	(mg/L)	(mg/L)	(‰)	(mg/L)	(mg/L)	(FNU)	(Bq/L)	(Bq/L)	(Bq/L)
H-1(Surface layer)	37.6575°	140.1264°	2015/10/21	09:09	7.1	0.6	3.6	10.1	4.9	0.03	1.4	2	1.6	0.0044	0.017	-	-
H-1(Deep layer)	37.6575°	140.1264°		09:09	7.0	<0.5	3.0	8.7	4.9	0.03	1.4	2	1.7	0.0040	0.017	-	-
H-3(Surface layer)	37.6653°	140.1329°		09:28	7.1	0.6	3.9	9.3	4.9	0.03	1.4	2	1.7	0.0028	0.0098	-	-
H-3(Deep layer)	37.6653°	140.1329°		09:28	7.0	<0.5	3.3	9.1	4.8	0.03	1.4	<1	1.4	0.0023	0.010	0.0012	-
H-5(Surface layer)	37.6523°	140.1568°		8:42	7.2	0.8	4.1	9.2	4.9	0.03	1.4	2	1.7	0.0034	0.010	-	-
H-5(Deep layer)	37.6523°	140.1568°		8:42	7.1	<0.5	3.5	9.6	4.9	0.03	1.6	1	1.7	0.0024	0.011	-	-

< Location H in Lake Akimoto: General survey items/Analysis of radioactive materials - Sediment >

Locations	Latitude and longitude of the location		Survey date and time		pH	Redox potential EN,H,E (mV)	Water content (%)	IL (%)	TOC (mg/g-dry)	Soil particle density (g/cm³)	Grain size distribution					Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)			
	Scheduled latitude	Scheduled longitude	Date	Time (sediment)							Gravel (2-75mm) (%)	Coarse sand (0.85-2mm) (%)	Medium sand (0.25-0.85mm) (%)	Fine sand (0.005-0.0075mm) (%)	Silt (Less than 0.005mm) (%)	Median grain diameter	Maximum grain diameter				
H-1	37.6575°	140.1264°	2015/10/21	9:19	6.6	44	67.9	9.1	25.6	2.553	0.0	0.0	0.1	58.7	41.1	0.0069	2.0	170	800	-	
H-2	37.6616°	140.1226°		10:06	6.6	24	78.6	11.7	34.0	2.510	0.0	0.7	1.5	2.0	36.1	59.7	0.0029	4.8	520	2200	-
H-3	37.6653°	140.1329°		9:42	6.6	75	79.3	12.9	42.0	2.257	0.0	0.0	0.2	14.3	16.2	0.014	2.0	340	1400	2.2	
H-4	37.6551°	140.1181°		10:16	6.5	17	72.2	11.4	41.6	2.482	5.5	1.7	1.8	9.5	40.8	40.7	0.0087	9.5	220	960	-
H-5	37.6523°	140.1568°		8:50	6.5	31	61.4	8.3	30.1	2.597	0.0	0.1	1.2	32.5	46.8	19.4	0.049	2.0	380	1800	-

< Location H in Lake Akimoto: Analysis items - Aquatic organisms >

Location	Sampling point	Latitude and longitude of the location		Sampling Date	Division	Class	Order	Family	Species name	English name	Population	Sample weight (kg-wet)	Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)	
		Latitude	Longitude										Growth stage	Stomach contents	Measurement site	Cs-134	Cs-137
H-1	In the lake	37.6575°	140.1264°	2015/10/21													8.4
H-4	Within the lake and rivers in the vicinity	37.6551°	140.1181°	2015/10/19													-

*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 them.

*3: For a sample made of multiple types of aquatic organisms, the 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: A statement in red in the "Growth stage" column shows the age assessed based on squama or otolith.

*6: Plankton (suspended algae) is the residue remaining after the filtration of lake water or seawater with a plankton net (40μm-mesh).

*7: 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.

*8: N.D. means to be below the detection limit and figures in parentheses show the detection limit.

*9: Activity concentrations include counting errors, but the details are omitted here.