OResults of Radioactive Material Monitoring of Aquatic Organisms (Location M off Iwaki City)

<Location M off Iwaki City: Samples collected>

Items	Genera	al items	Radioactive materials								
Locations	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)					
M-2	0	0	0	0	0	0					

<Location M off Iwaki City: Site measurement item>

Items		ongitude of the		Survey date and time		Water		Sedin	ment		O	ther
Locations	Latitude	Longitude	Date	Time (water)	Time (sediment)	Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color Contaminants		Water depth (m)	Secchi disk depth (m)
M-2(Surface layer)	37.1996°	141.0853°	2022/6/17	07:20	- 07:35	20.1	- 18.1	0 1 11 11	53/4/0	Ch alla	41.5	17.0
M-2(Bottom layer)	37.1990	141.0855	2023/6/17	06:55		16.2		Sand with silt	5Y4/2	Shells	41.5	17.0

<Location M off Iwaki City: General survey items/Analysis of radioactive materials Water>

Items	Items Latitude and longitude of the location			e and time	рН	BOD	COD	DO	Electric conductivity	Salinity	TOC	SS	Turbidity	Cs-134	Cs-137	Sr-90
Locations	Latitude	Longitude	Date	Time (water)		(mg/L)	(mg/L)	(mg/L)	(mS/m)		(mg/L)	(mg/L)	(FNU)	(Bq/L)	(Bq/L)	(Bq/L)
M-2(Surface layer)	37.1996°	141.0853°	2022/6/17	07:20	8.2	<0.5	1.7	8.2	4850	33.73	1.0	<1	0.5	N.D.(0.0013)	0.0022	-
M-2(Bottom layer)	37.1990°	141.0633	53° 2023/6/17	06:55	7.9	<0.5	1.8	6.0	4910	34.37	0.9	<1	0.9	N.D.(0.0012)	0.0049	0.00083

Note) N.D. means to be below the detection limit and figures in parentheses show the detection limit.

<Location M off Iwaki City: General survey items/Analysis of radioactive materials Sediment>

Itams	Latitude and le	ongitude of the	Survey d	ata and tima										Grain si	ze distribution					1	
items	loca	location		Survey date and time		Redox potential	Water content	${\rm I\!L}$	TOC	Soil particle	Gravel	Coarse sand	Medium sand	Fine sand	Silt	Clay	Median grain	Maximum	Cs-134	Cs-137	Sr-90
T a satisma	Latitude	Longitudo	Data	Time (as line and)		$\mathrm{E}_{\mathrm{N.H.E}}$				density	(2-75mm)	(0.85-2mm)	(0.25-0.85mm)	(0.075-0.25mm)	(0.005-0.075mm)	(Less than 0.005mm)	diameter	grain diameter		1	
Locations		Longitude	Date	Time (sediment)		(mV)	(%)	(%)	(mg/g-dry)	(g/cm^3)	(%)	(%)	(%)	(%)	(%)	(%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
M-2	37.1996°	141.0853°	2023/6/17	07:35	7.7	344	25.1	2.1	1.0	2.750	0.0	0.6	2.5	91.2	2.1	3.6	0.15	4.8	0.35	14	N.D.(0.14)

Note) N.D. means to be below the detection limit and figures in parentheses show the detection limit.

< Location M off Iwaki City: Analysis items Aquatic organisms>

< LOCatio	WI OII IWAK	i City. Anarysis items Aq	uatic organisms/																	
I	Locations	Sampling point	Latitude and longitude of the location		Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight	Note			Radioactive cesium (Bq/kg-wet)			Sr-90
			Latitude	Longitude	1 0				1				(kg-wet)	Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	(Bq/kg-wet)
	M-4	Hisanohama Coastal				Arthropoda	Malacostraca	Stomatopoda	Squillidae	Oratosquilla oratoria	Mantis shrimp	1	0.055	Imago	-	-	N.D.	N.D.(0.75)	N.D.(0.78)	-
			_	_	2023/6/16	Vertebrata	Osteichthyes	Scorpaeniformes	Scorpaenidae	Sebastes cheni	Japanese black rockfish	6	0.33	Immature fish	-	-	0.86	N.D.(0.22)	0.86	-
		areas			2023/0/10	Vertebrata	Osteichthyes	Perciformes	Sebastidae	Sebastes schlegelii	Schlegel's black rockfish	1	0.038	Immature fish	-	-	1.5	N.D.(1.2)	1.5	-
						Vertebrata	Osteichthyes	Tetraodontiformes	Tetraodontidae	Takifugu snyderi	Vermiculated puffer	27	0.27	Immature fish	-	-	0.37	N.D.(0.24)	0.37	-

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

*6: 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.

*6: 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 it

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

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