

## FY2014 Miyagi Prefecture Survey Results

### [Survey Results]

#### (1) Water

##### Rivers

Radioactive cesium (Cs-134, Cs-137): Not detectable at any location

##### Lakes and reservoirs

Radioactive cesium (Cs-134, Cs-137): Not detectable at any location

##### Coastal areas

Radioactive cesium (Cs-134, Cs-137): Not detectable at any location

#### (2) Sediments

##### Rivers

Cs-134: ND - 420 Bq/kg (dry)

Cs-137: 0.92 - 1,200Bq/kg (dry)

##### Lakes and reservoirs

Cs-134: ND - 520 Bq/kg (dry)

Cs-137: 9.1 - 1,700 Bq/kg (dry)

##### Coastal areas

Cs-134: ND - 270 Bq/kg (dry)

Cs-137: 1.4 - 820 Bq/kg (dry)

#### (3) Surrounding Environment

##### (a) Soil

##### Rivers

Cs-134: ND - 1,200 Bq/kg (dry)

Cs-137: ND - 3,100Bq/kg (dry)

##### Lakes and reservoirs

Cs-134: 18 - 1,200 Bq/kg (dry)

Cs-137: 65 - 3,300 Bq/kg (dry)

##### (b) Ambient dose rate

##### Rivers

0.04 - 0.40  $\mu$ Sv/h

##### Lakes and reservoirs

0.04 - 0.31  $\mu$ Sv/h

# Miyagi River (Water) 1/4

No.	Location			Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Water										Remarks
	Water area	Location	Municipality					General items					Activity concentration(Bq/L)					
								Water temperature (°C)	Sampling depth (m)	Color	Odor	Transparency (cm)	Electrical conductivity (µS/m)	SS (mg/L)	Turbidity (FNU)	Radioactive cesium		
				Cs-134	Cs-137													
R i v e r s	1	Shishiori River	Kinzan Bridge	Kesennuma City	2014/5/26	Cloudy	14.1	0.1	12.5	0.0	Colorless transparent	None	>100	13.8	<1	0.1	<0.52 ± 0.11	<0.63 ± 0.14
					2014/8/21	Cloudy	26.0	0.3	17.5	0.0	Colorless transparent	None	>100	13.4	2	0.2	<0.64 ± 0.14	<0.52 ± 0.14
					2014/11/20	Sunny	8.0	0.2	8.2	0.0	Colorless transparent	None	>100	40.0	<1	0.2	<0.56 ± 0.11	<0.60 ± 0.12
			2015/1/22		Cloudy	3.0	0.2	4.4	0.0	Colorless transparent	None	>100	12.8	<1	<0.1	<0.62 ± 0.13	<0.60 ± 0.12	
			2014/5/21		Light rain	13.0	0.5	11.4	0.0	Bluish greenish faint gray	None	96	2,910.0	4	1.5	<0.66 ± 0.14	<0.62 ± 0.13	
			2014/8/22		Sunny	27.0	1.5	20.2	0.0	Grayish yellow green	Faint seaweed	37	1,226.0	11	4.4	<0.45 ± 0.094	<0.58 ± 0.13	
	2	Okawa River	Kamiyama Bridge	Kesennuma City	2014/11/20	Sunny	11.0	3.2	13.0	0.0	Grayish yellow green	Faint seaweed	>100	2,310.0	2	1.4	<0.54 ± 0.12	<0.63 ± 0.13
					2015/1/22	Cloudy	5.0	2.2	8.0	0.0	Grayish yellow green	Faint seaweed	>100	4,290.0	5	1.2	<0.47 ± 0.13	<0.61 ± 0.10
					2014/5/21	Light rain	13.0	0.2	14.5	0.0	Yellow greenish pale gray	None	65	19.0	7	1.7	<0.59 ± 0.11	<0.65 ± 0.14
			2014/8/21		Cloudy	28.0	0.5	20.7	0.0	Yellow greenish pale gray	Faint swamp	>100	11.5	2	0.7	<0.62 ± 0.11	<0.52 ± 0.12	
			2014/11/19		Sunny	9.0	0.3	9.6	0.0	Colorless transparent	None	>100	11.1	<1	0.8	<0.48 ± 0.087	<0.65 ± 0.11	
			2015/1/22		Light rain	2.0	0.3	4.1	0.0	Colorless transparent	None	>100	11.2	<1	0.3	<0.60 ± 0.13	<0.65 ± 0.13	
	3	Okawa River	Okawa River Estuary	Kesennuma City	2014/5/22	Cloudy	16.0	0.3	13.7	0.0	Light grayish reddish yellow	None	30	132.7	9	1.4	<0.56 ± 0.14	<0.65 ± 0.12
					2014/9/3	Sunny	25.5	0.4	20.4	0.0	Grayish yellow green	None	>100	744.0	4	1.4	<0.67 ± 0.15	<0.59 ± 0.13
					2014/11/21	Sunny	9.0	0.4	7.3	0.0	Yellowish pale gray	None	>100	312.0	1	1.1	<0.71 ± 0.14	<0.59 ± 0.13
			2015/1/22		Light rain	5.0	0.9	5.2	0.0	Grayish yellow green	None	85	1,646.0	4	1.4	<0.58 ± 0.12	<0.58 ± 0.11	
			2014/5/22		Light rain	16.0	1.2	10.3	0.0	Greenish light gray	Faint seaweed	82	4,140.0	6	1.9	<0.61 ± 0.16	<0.59 ± 0.11	
			2014/8/22		Sunny	32.0	1.0	23.6	0.0	Light grayish greenish yellow	Faint seaweed	50	2,260.0	8	2.1	<0.68 ± 0.15	<0.58 ± 0.13	
	4	Omose River	Ozaki Bridge	Kurihara City	2014/11/21	Sunny	11.0	0.5	13.6	0.0	Greenish yellowish pale gray	Faint seaweed	72	4,210.0	9	2.9	<0.54 ± 0.13	<0.65 ± 0.12
					2015/1/27	Cloudy	8.0	0.8	8.4	0.0	Light grayish greenish yellow	Faint seaweed	>100	4,530.0	7	2.0	<0.56 ± 0.14	<0.56 ± 0.10
					2014/5/22	Light rain	17.0	0.9	14.5	0.0	Grayish reddish yellow	Faint seaweed	47	339.0	13	3.8	<0.60 ± 0.12	<0.59 ± 0.12
			2014/8/22		Sunny	29.0	1.3	25.4	0.0	Light grayish yellow	None	31	433.0	10	6.1	<0.61 ± 0.14	<0.52 ± 0.077	
			2014/11/21		Sunny	12.0	1.0	9.1	0.0	Light grayish yellow	None	63	950.0	4	3.7	<0.65 ± 0.15	<0.47 ± 0.10	
			2015/1/27		Sunny	11.0	0.9	7.8	0.0	Grayish yellow green	None	32	1,553.0	14	13	<0.56 ± 0.12	<0.71 ± 0.13	
	5	Arima River	Obata Bridge	Kurihara City	2014/5/14	Sunny	27.0	0.3	22.7	0.0	Light grayish greenish yellow	faint sewage	>100	22.9	4	1.4	<0.70 ± 0.15	<0.59 ± 0.13
					2014/8/18	Cloudy	27.0	0.4	22.0	0.0	Light grayish reddish yellow	Faint swamp	70	12.3	6	1.7	<0.67 ± 0.14	<0.62 ± 0.12
					2014/11/6	Sunny	10.0	0.5	8.6	0.0	Yellowish pale gray	Faint swamp	>100	13.1	1	0.8	<0.63 ± 0.15	<0.59 ± 0.13
			2015/1/20		Sunny	4.0	0.5	1.9	0.0	Yellowish pale gray	Faint swamp	>100	21.1	1	1.1	<0.60 ± 0.12	<0.66 ± 0.13	
			2014/5/14		Sunny	28.0	0.2	22.9	0.0	Light grayish reddish yellow	Faint swamp	25	24.6	22	13	<0.57 ± 0.13	<0.52 ± 0.14	
			2014/8/18		Cloudy	26.0	0.3	21.6	0.0	Light grayish yellow	Faint swamp	39	12.2	11	2.3	<0.56 ± 0.12	<0.62 ± 0.12	
6	Kinryu River	Tome-obashi Bridge (Tome)	Tome City	2014/11/6	Sunny	10.5	0.3	8.1	0.0	Yellowish pale gray	Faint swamp	>100	12.0	2	1.5	<0.54 ± 0.11	<0.55 ± 0.096	
				2015/1/20	Sunny	1.5	0.4	1.2	0.0	Yellowish pale gray	Faint swamp	>100	17.2	2	1.6	<0.74 ± 0.16	<0.71 ± 0.12	
				2014/5/14	Sunny	28.0	0.3	14.1	0.0	Light grayish yellow	Faint swamp	48	9.3	10	4.6	<0.55 ± 0.11	<0.52 ± 0.095	
		2014/8/6		Sunny	36.0	0.4	30.8	0.0	Light grayish yellow	Faint swamp	34	14.2	2	2.1	<0.48 ± 0.098	<0.68 ± 0.096		
		2014/11/14		Sunny	12.0	0.4	10.5	0.0	Light grayish yellow	Faint swamp	81	20.4	4	2.0	<0.54 ± 0.12	<0.60 ± 0.13		
		2015/1/19		Sunny	4.0	0.4	3.3	0.0	Yellowish pale gray	Faint swamp	>100	15.7	11	1.4	<0.56 ± 0.11	<0.51 ± 0.10		
7	Sanhasama River	Doman Bridge (Kurikoma Dam)	Kurihara City	2014/5/13	Cloudy	16.0	0.5	10.8	0.0	Light grayish yellow green	Faint swamp	64	7.9	15	2.2	<0.51 ± 0.11	<0.55 ± 0.13	
				2014/8/7	Sunny	36.0	1.6	21.4	0.0	Light grayish yellow green	Faint swamp	>100	13.3	2	0.6	<0.58 ± 0.13	<0.66 ± 0.14	
				2014/11/5	Sunny	10.0	1.0	9.7	0.0	Light grayish yellow green	Faint swamp	>100	13.6	2	1.0	<0.65 ± 0.15	<0.62 ± 0.13	
		2015/1/21		Sunny	-2.0	1.3	0.5	0.0	Light grayish yellow green	None	>100	17.3	2	1.2	<0.34 ± 0.063	<0.55 ± 0.12		
		2014/5/13		Cloudy	17.0	0.4	12.2	0.0	Reddish yellowish pale gray	Faint swamp	>100	11.2	3	0.9	<0.54 ± 0.14	<0.65 ± 0.12		
		2014/8/7		Sunny	33.0	0.4	23.8	0.0	Dark grayish reddish yellow	Faint swamp	>100	11.5	4	0.8	<0.55 ± 0.12	<0.78 ± 0.16		
8	Nihasama River	Kajiya Bridge	Kurihara City	2014/11/5	Sunny	17.0	0.3	10.0	0.0	Yellow greenish white	Faint swamp	>100	13.4	<1	0.5	<0.63 ± 0.15	<0.51 ± 0.088	
				2015/1/21	Sunny	6.0	0.3	1.2	0.0	Yellow greenish white	Faint swamp	>100	14.5	<1	0.4	<0.67 ± 0.15	<0.59 ± 0.10	
				2014/5/13	Sunny	24.5	0.5	12.4	0.0	Grayish yellow	Faint swamp	29	4.5	36	7.2	<0.66 ± 0.14	<0.59 ± 0.14	
		2014/8/27		Light rain	18.0	0.3	15.1	0.0	Colorless transparent	None	>100	8.8	<1	0.4	<0.45 ± 0.094	<0.65 ± 0.12		
		2014/11/5		Sunny	8.0	0.3	10.7	0.0	Colorless transparent	None	>100	8.9	2	0.8	<0.61 ± 0.13	<0.62 ± 0.096		
		2015/1/21		Sunny	4.0	0.3	9.4	0.0	Colorless transparent	None	>100	8.1	<1	0.2	<0.59 ± 0.13	<0.59 ± 0.14		
9	Hasama River	Wakayanagi	Kurihara City	2014/5/14	Sunny	28.0	0.5	15.7	0.0	Grayish yellow	Faint swamp	45	13.4	15	2.8	<0.57 ± 0.13	<0.65 ± 0.14	
				2014/8/8	Cloudy	26.0	0.3	23.8	0.0	Grayish yellow	Faint swamp	41	11.5	14	6.5	<0.58 ± 0.099	<0.88 ± 0.17	
		2014/11/4		Sunny	15.0	0.3	11.7	0.0	Yellowish pale gray	None	>100	16.9	3	2.2	<0.58 ± 0.11	<0.66 ± 0.12		
		2015/1/20		Sunny	2.0	0.5	1.9	0.0	Light grayish yellow green	None	>100	18.2	2	1.7	<0.46 ± 0.087	<0.62 ± 0.12		

# Miyagi River (Water) 2/4

No.	Location			Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Water										Remarks	
	Water area	Location	Municipality					General items					Activity concentration(Bq/L)						
								Water temperature (°C)	Sampling depth (m)	Color	Odor	Transparency (cm)	Electrical conductivity (μS/m)	SS (mg/L)	Turbidity (FNU)	Radioactive cesium			
				Cs-134	Cs-137														
R i v e r s	14	Hasama River	Yamayoshida Bridge	Tome City	2014/5/14	Sunny	27.5	0.7	16.4	0.0	Dark grayish reddish yellow	None	13	14.2	57	42	-0.61 ± 0.12	-0.59 ± 0.14	
					2014/8/6	Sunny	33.0	0.4	31.2	0.0	Dark grayish yellow	Faint swamp	41	16.3	2	1.7	-0.52 ± 0.096	-0.63 ± 0.14	
					2014/11/14	Sunny	9.0	0.5	9.3	0.0	Grayish greenish yellow	Faint swamp	70	22.1	6	3.5	-0.64 ± 0.13	-0.60 ± 0.14	
	15	Eai River	Todoroki Bridge (Todoroki)	Osaki City	2015/1/19	Sunny	4.0	0.5	2.3	0.0	Light grayish greenish yellow	Faint swamp	68	21.7	6	5.0	-0.59 ± 0.10	-0.51 ± 0.11	
					2014/5/13	Sunny	19.0	0.4	11.8	0.0	Grayish yellow green	None	>100	4.5	3	0.5	-0.59 ± 0.14	-0.59 ± 0.12	
					2014/8/7	Sunny	28.0	0.4	23.3	0.0	Light grayish yellow green	None	>100	9.0	<1	0.4	-0.58 ± 0.14	-0.74 ± 0.14	
					2014/11/5	Sunny	8.0	0.4	7.0	0.0	Colorless transparent	None	>100	7.9	<1	0.3	-0.56 ± 0.11	-0.42 ± 0.11	
					2015/1/21	Sunny	3.0	0.4	4.6	0.0	Colorless transparent	None	>100	10.3	<1	0.4	-0.55 ± 0.11	-0.52 ± 0.14	
					2014/5/12	Sunny	17.0	1.0	15.2	0.0	Grayish yellowish green	None	83	7.7	4	1.6	-0.54 ± 0.12	-0.65 ± 0.14	
			16	Shinborisahton, entrance	Osaki City	2014/8/8	Sunny	32.0	0.8	22.3	0.0	Grayish reddish yellow	Faint swamp	58	10.3	10	1.8	-0.55 ± 0.10	-0.56 ± 0.12
						2014/11/4	Sunny	12.0	0.5	11.7	0.0	Yellow greenish pale gray	None	>100	12.7	2	1.8	-0.50 ± 0.12	-0.71 ± 0.17
						2015/1/20	Sunny	1.0	0.4	2.0	0.0	Yellow greenish pale gray	None	>100	14.0	1	0.7	-0.54 ± 0.10	-0.66 ± 0.12
						2014/5/12	Sunny	19.5	1.5	16.3	0.0	Light grayish yellow green	Faint swamp	50	11.0	8	3.1	-0.54 ± 0.12	-0.52 ± 0.13
						2014/8/8	Cloudy	29.0	1.0	23.7	0.0	Grayish yellow	Faint swamp	46	11.2	11	2.4	-0.64 ± 0.14	-0.62 ± 0.15
						2014/11/4	Sunny	13.0	1.4	12.0	0.0	Grayish yellow	None	74	17.6	5	4.7	-0.52 ± 0.092	-0.62 ± 0.12
	17	Kitakami River System	In Furukawa District, Osaki City	Shinborisahton, entrance	Osaki City	2015/1/19	Sunny	2.0	1.5	3.1	0.0	Grayish greenish yellow	Faint swamp	83	20.0	3	1.9	-0.65 ± 0.14	-0.55 ± 0.13
						2014/5/14	Sunny	23.0	2.1	15.5	0.0	Dark grayish reddish yellow	Faint swamp	8	12.6	72	67	-0.54 ± 0.12	-0.62 ± 0.13
						2014/8/8	Cloudy	29.0	1.8	25.8	0.0	Dark grayish yellow	Faint swamp	44	13.9	8	2.1	-0.51 ± 0.11	-0.56 ± 0.13
						2014/11/4	Sunny	12.5	0.5	12.1	0.0	Grayish yellow	Faint swamp	56	21.8	5	4.1	-0.58 ± 0.12	-0.66 ± 0.12
						2015/1/19	Sunny	6.0	0.3	3.7	0.0	Light grayish yellow	None	81	25.1	7	5.4	-0.65 ± 0.14	-0.73 ± 0.15
						2014/5/12	Sunny	22.0	0.7	16.3	0.0	Grayish reddish yellow	None	21	9.4	35	15	-0.54 ± 0.12	-0.55 ± 0.11
	18	Dekigawa River	Kogota Bridge	Misato Town	2014/8/6	Sunny	35.0	0.3	30.3	0.0	Light grayish greenish yellow	None	48	15.2	2	2.0	-0.62 ± 0.12	-0.58 ± 0.14	
					2014/11/14	Sunny	8.0	0.5	10.0	0.0	Light grayish greenish yellow	None	73	21.4	7	2.7	-0.64 ± 0.14	-0.70 ± 0.15	
					2015/1/15	Cloudy	6.5	0.5	4.3	0.0	Light grayish greenish yellow	None	81	19.3	4	3.5	-0.69 ± 0.14	-0.57 ± 0.12	
					2014/5/12	Sunny	19.5	3.5	15.2	0.0	Grayish reddish yellow	None	23	128.8	23	13	-0.52 ± 0.15	-0.68 ± 0.17	
					2014/8/6	Sunny	36.0	5.2	29.2	0.0	Grayish yellow green	Faint seaweed	65	1,495.0	4	1.1	-0.56 ± 0.10	-0.63 ± 0.14	
					2014/11/13	Sunny	13.0	5.1	11.2	0.0	Light grayish yellow green	None	>100	474.0	4	2.1	-0.67 ± 0.16	-0.47 ± 0.096	
	19	Eai River	Oikawa Bridge (Tandai)	Wakuya Town /Ishinomaki City	2015/1/15	Cloudy	6.0	8.1	3.1	0.0	Grayish yellow green	None	>100	118.2	1	1.8	-0.69 ± 0.15	-0.54 ± 0.11	
					2014/5/12	Sunny	18.9	0.4	14.8	0.0	Dark grayish reddish yellow	None	7	9.6	90	76	-0.41 ± 0.13	-0.62 ± 0.17	
					2014/8/12	Cloudy	29.0	0.4	22.4	0.0	Grayish reddish yellow	Faint swamp	35	11.7	22	9.7	-0.39 ± 0.083	-0.56 ± 0.11	
2014/11/13					Sunny	15.0	0.7	10.5	0.0	Light grayish yellow green	Faint swamp	95	30.8	5	1.8	-0.54 ± 0.13	-0.59 ± 0.11		
2015/1/15					Cloudy	1.0	0.5	2.6	0.0	Grayish yellow green	Faint swamp	75	24.0	4	3.7	-0.63 ± 0.14	-0.57 ± 0.14		
2014/5/19					Sunny	20.0	0.3	23.4	0.0	Grayish reddish yellow	Faint drain	15	85.8	37	17	-0.69 ± 0.14	-0.62 ± 0.13		
20	Kyu-Kitakami River	Kadonowaki	Ishinomaki City	2014/8/13	Sunny	31.0	0.3	27.8	0.0	Grayish reddish yellow	None	31	27.6	32	5.5	-0.64 ± 0.13	-0.56 ± 0.094		
				2014/11/12	Light rain	12.0	0.5	11.0	0.0	Light grayish yellow green	None	52	162.2	10	5.9	-0.69 ± 0.14	-0.55 ± 0.10		
				2015/1/14	Sunny	8.0	0.4	4.0	0.0	Light grayish greenish yellow	None	36	164.4	13	8.9	-0.63 ± 0.14	-0.68 ± 0.13		
				2014/5/8	Sunny	20.5	0.5	20.5	0.0	Grayish yellow green	Faint seaweed	53	1,990.0	8	6.7	-0.68 ± 0.12	-0.51 ± 0.096		
				2014/8/12	Cloudy	24.0	0.7	25.1	0.0	Grayish greenish yellow	Faint seaweed	35	2,480.0	19	6.8	-0.51 ± 0.085	-0.66 ± 0.12		
				2014/11/12	Cloudy	13.0	0.7	15.1	0.0	Light grayish yellow green	Faint seaweed	>100	3,840.0	3	2.3	-0.71 ± 0.17	-0.56 ± 0.12		
21	Naruse River	Ono Bridge (Ono)	Higashi-Matsumi City	2015/1/14	Sunny	11.0	0.8	8.1	0.0	Grayish yellow green	None	>100	4,170.0	3	2.9	-0.63 ± 0.14	-0.62 ± 0.14		
				2014/5/8	Sunny	18.0	1.5	17.7	0.0	Grayish reddish yellow	None	42	3,880.0	9	5.2	-0.61 ± 0.12	-0.61 ± 0.16		
				2014/8/12	Cloudy	27.0	0.8	26.1	0.0	Dark grayish yellow green	Faint seaweed	37	4,050.0	27	6.3	-0.72 ± 0.14	-0.62 ± 0.13		
				2014/11/12	Cloudy	13.0	1.4	15.0	0.0	Dark grayish yellow green	Faint seaweed	44	4,090.0	6	3.7	-0.56 ± 0.14	-0.55 ± 0.11		
				2015/1/14	Sunny	9.0	1.1	8.6	0.0	Dark grayish yellow green	Faint seaweed	52	4,100.0	6	6.2	-0.65 ± 0.15	-0.56 ± 0.10		
				2014/5/8	Sunny	19.0	0.3	14.7	0.0	Grayish yellow	None	31	18.3	17	11	-0.58 ± 0.12	-0.57 ± 0.13		
22	Sunaoshi River	Tagajozeki Weir	Tagajo City	2014/8/11	Cloudy	27.5	0.5	22.5	0.0	Grayish yellow	Faint swamp	45	10.9	11	1.6	-0.55 ± 0.10	-0.56 ± 0.081		
				2014/11/12	Cloudy	12.0	0.3	10.8	0.0	Yellow greenish pale gray	Faint swamp	>100	23.6	2	1.8	-0.69 ± 0.15	-0.42 ± 0.078		
				2015/1/13	Sunny	6.0	0.3	3.7	0.0	Yellow greenish pale gray	None	>100	32.0	<1	1.0	-0.70 ± 0.15	-0.65 ± 0.14		
				2014/5/8	Sunny	21.0	0.3	20.0	0.0	Light grayish greenish yellow	None	98	1,074.0	4	2.1	-0.84 ± 0.17	-0.76 ± 0.20		
				2014/8/11	Cloudy	26.0	0.4	24.0	0.0	Grayish reddish yellow	Faint swamp	36	14.9	14	2.0	-0.65 ± 0.15	-0.47 ± 0.096		
				2014/11/13	Sunny	12.0	0.4	12.4	0.0	Light grayish greenish yellow	None	76	281.0	4	2.2	-0.51 ± 0.14	-0.51 ± 0.12		
23	Nanakita River System	Nanakita River	Nanakita Bridge	Sendai City	2015/1/13	Sunny	8.0	0.4	4.3	0.0	Greenish yellowish pale gray	None	>100	45.9	2	1.5	-0.66 ± 0.16	-0.74 ± 0.16	

# Miyagi River (Water) 3/4

No.	Location			Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Water										Remarks		
	Water area	Location	Municipality					General items											Activity concentration(Bq/L)	
								Water temperature (°C)	Sampling depth (m)	Color	Odor	Transparency (cm)	Electrical conductivity (µS/cm)	SS (mg/L)	Turbidity (FNU)	Radioactive cesium				
																Cs-134	Cs-137			
27	Nanakita River System	Umeda River	Fukuda Bridge	Sendai City	2014/5/9	Sunny	16.0	0.2	16.6	0.0	Dark grayish reddish yellow	Faint swamp	8	25.6	77	75	<0.59 ± 0.14	<0.61 ± 0.14		
					2014/8/11	Cloudy	28.0	0.3	24.2	0.0	Dark grayish reddish yellow	Faint swamp	52	18.4	10	1.7	<0.51 ± 0.11	<0.55 ± 0.12		
					2014/11/13	Sunny	12.0	0.5	12.7	0.0	Grayish yellow	Faint swamp	36	1,564.0	11	3.5	<0.65 ± 0.15	<0.47 ± 0.12		
					2015/1/13	Sunny	7.0	0.3	4.6	0.0	Grayish yellow green	Faint swamp	63	52.0	5	3.7	<0.70 ± 0.15	<0.89 ± 0.18		
28	Nanakita River	Takasago Bridge	Sendai City	2014/5/8	Sunny	22.0	0.3	19.3	0.0	Yellowish pale gray	None	53	2,240.0	10	3.8	<0.61 ± 0.13	<0.68 ± 0.16			
				2014/8/13	Sunny	29.5	0.3	24.8	0.0	Yellowish pale gray	None	49	517.0	7	2.9	<0.59 ± 0.14	<0.68 ± 0.13			
				2014/11/11	Sunny	16.0	0.3	14.3	0.0	Yellowish pale gray	None	48	1,648.0	6	4.4	<0.60 ± 0.12	<0.63 ± 0.12			
				2015/1/9	Sunny	6.0	0.3	5.1	0.0	Light grayish yellow	None	52	2,050.0	6	5.1	<0.46 ± 0.11	<0.42 ± 0.13			
29	Natori River	Yuriagi-ohashi Bridge	Sendai City/Natori City	2014/5/7	Sunny	18.0	0.4	17.3	0.0	Light grayish yellow	Faint seaweed	50	288.0	8	4.7	<0.77 ± 0.16	<0.72 ± 0.14			
				2014/8/13	Sunny	28.0	0.3	22.0	0.0	Light grayish yellow	None	94	287.0	4	2.1	<0.63 ± 0.13	<0.62 ± 0.14			
				2014/11/11	Sunny	15.0	0.4	13.1	0.0	Light grayish yellow	None	63	636.0	<1	1.0	<0.67 ± 0.15	<0.60 ± 0.12			
				2015/1/9	Sunny	6.0	0.3	5.5	0.0	Light grayish yellow	None	32	2,480.0	43	8.3	<0.60 ± 0.12	<0.58 ± 0.13			
30	Natori River System	Yakushi Bridge	Natori City	2014/5/7	Sunny	15.0	0.4	12.4	0.0	Yellowish pale gray	None	73	10.4	4	3.8	<0.64 ± 0.13	<0.70 ± 0.14			
				2014/8/5	Sunny	37.0	0.3	28.6	0.0	Yellowish pale gray	None	>100	10.3	1	0.4	<0.79 ± 0.16	<0.74 ± 0.14			
				2014/11/11	Sunny	15.0	0.3	10.1	0.0	Yellowish pale gray	None	>100	17.0	<1	0.3	<0.56 ± 0.092	<0.49 ± 0.12			
				2015/1/9	Sunny	5.0	0.3	3.0	0.0	Yellowish pale gray	None	>100	9.8	<1	0.2	<0.61 ± 0.14	<0.51 ± 0.11			
31	Masuda River	Koyama Bridge	Natori City	2014/5/9	Sunny	21.0	0.4	16.7	0.0	Dark grayish reddish yellow	Faint swamp	7	12.8	180	150	<0.56 ± 0.13	<0.60 ± 0.15			
				2014/8/5	Sunny	36.5	0.3	26.8	0.0	Grayish yellow	Faint drain	43	16.5	11	3.5	<0.56 ± 0.11	<0.65 ± 0.16			
				2014/11/11	Sunny	12.0	0.4	11.8	0.0	Yellowish pale gray	None	>100	25.8	2	2.6	<0.52 ± 0.11	<0.49 ± 0.080			
				2015/1/9	Sunny	7.0	0.3	3.3	0.0	Yellowish pale gray	None	>100	19.1	4	2.3	<0.60 ± 0.11	<0.65 ± 0.13			
32	Bishamon Bridge	Natori City	Natori City	2014/5/9	Sunny	19.0	1.5	17.6	0.0	Grayish reddish yellow	None	20	22.9	24	16	<0.48 ± 0.082	<0.76 ± 0.16			
				2014/8/5	Sunny	32.5	1.1	29.6	0.0	Grayish yellow	Faint drain	39	22.1	6	3.0	<0.75 ± 0.17	<0.82 ± 0.16			
				2014/11/11	Sunny	12.0	1.2	11.4	0.0	Grayish yellow green	None	58	1,169.0	4	2.6	<0.54 ± 0.10	<0.49 ± 0.080			
				2015/1/8	Sunny	5.0	1.2	4.4	0.0	Grayish yellow green	None	60	1,331.0	4	3.7	<0.70 ± 0.16	<0.55 ± 0.15			
33	Abukuma River System	Abukuma River	Hadeniwa Bridge	Marumori Town	2014/4/28	Sunny	20.0	0.4	13.8	0.0	Grayish yellowish green	None	73	14.8	6	4.1	<0.45 ± 0.095	<0.55 ± 0.11		
					2014/5/19	Sunny	19.0	0.4	15.4	0.0	Light grayish greenish yellow	Faint swamp	67	17.9	10	1.9	<0.72 ± 0.14	<0.62 ± 0.14		
					2014/6/10	Cloudy	23.0	0.6	18.2	0.0	Dark grayish reddish yellow	None	33	13.0	24	6.7	<0.56 ± 0.12	<0.63 ± 0.12		
					2014/7/7	Cloudy	24.0	0.6	20.4	0.0	Greenish yellowish pale gray	None	52	13.9	9	5.1	<0.66 ± 0.16	<0.81 ± 0.16		
					2014/8/4	Sunny	30.0	0.5	25.7	0.0	Grayish greenish yellow	None	75	16.5	6	1.1	<0.56 ± 0.13	<0.69 ± 0.16		
					2014/9/4	Cloudy	21.4	0.5	21.7	0.0	Dark grayish yellow green	None	78	15.8	7	3.1	<0.43 ± 0.10	<0.41 ± 0.11		
					2014/10/17	Sunny	19.0	0.4	14.7	0.0	Grayish yellow	None	34	13.2	19	9.2	<0.60 ± 0.13	<0.52 ± 0.14		
					2014/12/8	Sunny	7.0	0.6	5.6	0.0	Grayish yellow green	None	85	20.5	3	1.7	<0.55 ± 0.11	<0.71 ± 0.12		
					2015/1/7	Sunny	2.0	0.4	3.5	0.0	Grayish yellow green	None	>100	17.3	3	1.8	<0.78 ± 0.15	<0.66 ± 0.18		
					2015/2/16	Sunny	6.0	0.4	3.5	0.0	Light grayish yellow green	None	>100	20.9	3	2.1	<0.54 ± 0.13	<0.63 ± 0.13		
					2014/4/28	Sunny	23.0	0.6	15.9	0.0	Light grayish reddish yellow	None	71	14.4	6	4.5	<0.67 ± 0.14	<0.76 ± 0.14		
					34	Marumori Bridge	Marumori Town	Marumori Bridge	2014/5/19	Sunny	22.0	0.4	16.8	0.0	Light grayish yellow green	None	67	18.2	5	1.6
2014/6/10	Cloudy	23.0	1.4	17.9					0.0	Dark grayish reddish yellow	None	32	13.0	22	7.9	<0.52 ± 0.12	<0.60 ± 0.12			
2014/7/7	Cloudy	26.0	1.2	21.0					0.0	Greenish yellowish pale gray	None	48	14.0	13	5.1	<0.53 ± 0.077	<0.50 ± 0.12			
2014/8/4	Sunny	31.5	0.7	28.5					0.0	Grayish greenish yellow	None	52	16.9	8	1.3	<0.58 ± 0.11	<0.73 ± 0.17			
2014/9/4	Cloudy	21.9	0.5	21.2					0.0	Dark grayish yellow green	None	>100	15.6	6	2.6	<0.58 ± 0.12	<0.52 ± 0.14			
2014/10/17	Sunny	19.0	0.9	14.9					0.0	Grayish yellow	None	31	13.0	23	10	<0.54 ± 0.13	<0.63 ± 0.11			
2014/12/8	Sunny	10.0	0.5	7.3					0.0	Light grayish yellow green	None	75	21.8	2	1.6	<0.67 ± 0.12	<0.71 ± 0.16			
2015/1/7	Sunny	5.0	0.4	4.7					0.0	Grayish yellow green	None	>100	18.4	3	1.6	<0.58 ± 0.13	<0.56 ± 0.13			
2015/2/16	Sunny	8.0	0.4	5.3	0.0	Grayish yellow green	None	>100	21.0	3	2.5	<0.44 ± 0.10	<0.55 ± 0.11							

# Miyagi River (Water) 4/4

No.	Location			Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Water										Remarks	
	Water area	Location	Municipality					General items					Activity concentration(Bq/L)						
								Water temperature (°C)	Sampling depth (m)	Color	Odor	Transparency (cm)	Electrical conductivity (μS/m)	SS (mg/L)	Turbidity (FNU)	Radioactive cesium			
				Cs-134	Cs-137														
R i v e r s	35	Abukuma River	Higashine Bridge	Kakuda City	2014/4/28	Sunny	18.0	0.4	15.9	0.0	Grayish reddish yellow	None	67	14.0	7	4.9	<0.49 ± 0.11	<0.59 ± 0.12	
					2014/6/10	Cloudy	24.0	0.4	18.8	0.0	Light grayish yellow	Faint swamp	40	12.8	22	6.2	<0.45 ± 0.082	<0.52 ± 0.095	
					2014/8/4	Sunny	33.0	0.4	29.7	0.0	Light grayish yellow	None	72	17.3	8	1.4	<0.68 ± 0.17	<0.62 ± 0.16	
					2014/10/17	Sunny	17.0	0.3	14.4	0.0	Light grayish yellow	None	31	12.5	21	12	<0.56 ± 0.12	<0.41 ± 0.085	
					2014/12/8	Sunny	8.0	0.4	7.2	0.0	Light grayish yellow green	None	85	18.1	3	1.7	<0.51 ± 0.094	<0.66 ± 0.12	
					2015/1/7	Sunny	3.0	0.4	4.2	0.0	Light grayish yellow green	None	95	17.1	5	1.8	<0.61 ± 0.14	<0.55 ± 0.14	
		36	Shiroishi River	Before the confluence with Kawaharakozawa (Sunaoishi Bridge)	Shiroishi City	2014/4/24	Sunny	20.5	0.4	8.9	0.0	Light yellowish green	None	>100	5.4	3	2.1	<0.67 ± 0.16	<0.49 ± 0.11
						2014/8/1	Sunny	30.0	0.4	19.8	0.0	Strong yellow green	Faint swamp	56	6.5	6	3.4	<0.64 ± 0.12	<0.62 ± 0.11
						2014/11/10	Sunny	9.0	0.4	12.1	0.0	Strong yellow green	None	>100	7.4	1	2.4	<0.64 ± 0.15	<0.81 ± 0.19
						2015/1/6	Cloudy	4.5	0.4	4.0	0.0	Grayish yellow green	None	>100	6.7	1	1.5	<0.51 ± 0.094	<0.62 ± 0.13
						2014/4/24	Sunny	21.5	0.5	11.6	0.0	Dull yellowish green	None	78	10.1	3	2.8	<0.64 ± 0.13	<0.61 ± 0.11
						2014/8/1	Sunny	33.0	0.4	24.0	0.0	Light grayish yellow green	None	82	10.7	6	2.9	<0.61 ± 0.14	<0.56 ± 0.12
	37	Saikawa River	Etsubo Bridge	Shiroishi City	2014/11/10	Sunny	16.0	0.3	12.5	0.0	Light grayish yellow green	None	>100	11.9	3	1.7	<0.64 ± 0.13	<0.66 ± 0.16	
					2015/1/6	Cloudy	7.0	0.3	4.1	0.0	Light grayish yellow green	None	>100	12.9	2	1.4	<0.60 ± 0.11	<0.66 ± 0.14	
					2014/4/24	Sunny	21.0	0.3	11.6	0.0	Greenish yellowish white	None	>100	13.9	2	1.4	<0.59 ± 0.15	<0.61 ± 0.13	
					2014/8/1	Sunny	31.5	0.3	22.0	0.0	Greenish yellowish white	Faint swamp	>100	17.3	3	0.8	<0.58 ± 0.15	<0.81 ± 0.17	
	38	Matsukawa River	Miya-ohashi Bridge	Zao Town	2014/11/10	Sunny	18.0	0.4	12.9	0.0	Greenish yellowish white	None	>100	19.2	3	1.0	<0.61 ± 0.11	<0.78 ± 0.18	
					2015/1/6	Cloudy	12.0	0.3	5.4	0.0	Greenish yellowish white	None	>100	20.3	2	1.0	<0.80 ± 0.15	<0.85 ± 0.15	
					2014/5/19	Sunny	22.5	0.2	16.8	0.0	Grayish yellow	Faint drain	28	16.8	30	6.1	<0.76 ± 0.14	<0.85 ± 0.18	
					2014/8/1	Sunny	31.5	0.3	26.0	0.0	Grayish yellow	Faint swamp	43	16.3	18	7.8	<0.66 ± 0.13	<0.75 ± 0.19	
	39	Arakawa River	Niragami Bridge	Murata Town /Ogawara Town	2014/11/10	Sunny	20.0	0.4	13.5	0.0	Grayish yellow	Faint swamp	>100	18.3	3	2.2	<0.58 ± 0.11	<0.50 ± 0.12	
					2015/1/6	Cloudy	11.5	0.3	4.0	0.0	Grayish yellow	Faint swamp	>100	21.1	3	1.9	<0.58 ± 0.090	<0.66 ± 0.13	
					2014/5/7	Sunny	21.0	0.4	14.5	0.0	Grayish yellowish green	None	65	12.1	3	3.6	<0.64 ± 0.13	<0.61 ± 0.14	
					2014/8/4	Sunny	33.0	0.4	27.4	0.0	Greenish yellowish pale gray	None	76	14.3	5	1.5	<0.54 ± 0.13	<0.63 ± 0.13	
	40	Shiroishi River	Shirahata Bridge	Shibata Town	2014/11/10	Sunny	15.0	0.4	12.9	0.0	Greenish yellowish pale gray	Faint swamp	>100	15.6	2	1.8	<0.42 ± 0.10	<0.56 ± 0.13	
					2015/1/7	Sunny	2.5	0.5	3.6	0.0	Light grayish yellow green	Faint swamp	80	13.3	5	2.4	<0.56 ± 0.13	<0.52 ± 0.12	
					2014/4/24	Sunny	19.5	0.5	13.2	0.0	Grayish green	None	61	10.7	4	2.8	<0.74 ± 0.16	<0.63 ± 0.14	
					2014/6/10	Sunny	26.0	0.7	17.3	0.0	Light grayish reddish yellow	None	40	11.1	19	5.8	<0.45 ± 0.095	<0.60 ± 0.12	
	41	Tsukinoki-ohashi Bridge	Kakuda City /Shibata Town	Kakuda City /Shibata Town	2014/8/1	Sunny	29.0	0.5	26.3	0.0	Light grayish yellow	None	50	16.3	8	1.7	<0.64 ± 0.12	<0.66 ± 0.11	
					2014/10/10	Sunny	27.0	0.5	17.5	0.0	Grayish yellow	None	63	14.0	11	5.1	<0.60 ± 0.13	<0.58 ± 0.12	
					2014/12/9	Cloudy	1.5	0.5	5.8	0.0	Yellowish pale gray	None	>100	13.3	2	1.3	<0.54 ± 0.10	<0.58 ± 0.14	
					2015/1/8	Sunny	7.0	0.5	3.4	0.0	Yellowish pale gray	None	>100	13.3	1	1.4	<0.61 ± 0.14	<0.56 ± 0.16	
	42	Abukuma River	Abukuma-ohashi Bridge (Iwanuma)	Iwanuma City/Watari Town	2014/4/24	Sunny	19.9	0.4	14.3	0.0	Grayish green	Faint swamp	67	13.6	6	2.7	<0.71 ± 0.15	<0.68 ± 0.16	
					2014/5/19	Sunny	20.0	0.7	17.1	0.0	Grayish yellowish green	Faint seaweed	76	17.3	8	1.9	<0.63 ± 0.13	<0.68 ± 0.18	
					2014/6/10	Sunny	23.0	0.6	19.0	0.0	Grayish reddish yellow	None	31	12.0	22	7.8	<0.60 ± 0.13	<0.55 ± 0.11	
					2014/7/7	Sunny	26.0	0.3	22.5	0.0	Greenish yellowish pale gray	None	57	13.4	10	5.2	<0.48 ± 0.12	<0.74 ± 0.16	
					2014/8/5	Sunny	37.0	0.4	29.9	0.0	Grayish yellow green	None	48	17.3	7	1.6	<0.63 ± 0.12	<0.83 ± 0.16	
					2014/9/2	Cloudy	24.6	0.3	21.5	0.0	Dark grayish yellow green	None	79	14.7	7	3.3	<0.52 ± 0.13	<0.63 ± 0.20	
					2014/10/10	Sunny	26.0	0.4	17.5	0.0	Light grayish greenish yellow	None	48	14.1	12	6.4	<0.62 ± 0.14	<0.58 ± 0.11	
					2014/12/9	Sunny	6.0	0.4	5.5	0.0	Grayish yellow green	None	>100	16.0	2	1.6	<0.59 ± 0.12	<0.55 ± 0.15	
2015/1/8					Sunny	9.0	0.5	3.1	0.0	Light grayish yellow green	None	>100	16.0	3	1.5	<0.61 ± 0.11	<0.71 ± 0.12		
2015/2/16					Sunny	11.0	0.5	4.4	0.0	Light grayish yellow green	None	>100	19.7	2	2.2	<0.47 ± 0.080	<0.58 ± 0.098		
2014/4/25					Sunny	15.0	0.7	14.3	0.0	Blue greenish white	None	81	17.4	3	2.0	<0.64 ± 0.13	<0.60 ± 0.13		
43					Offshore of Abukuma River Estuary (Watari-ohashi Bridge)			2014/6/10	Cloudy	20.0	1.0	19.0	0.0	Light grayish reddish yellow	None	41	16.6	14	5.0
	2014/8/5	Sunny	34.0	0.6				29.4	0.0	Light grayish yellow	None	39	138.3	9	2.1	<0.66 ± 0.14	<0.57 ± 0.13		
	2014/10/10	Sunny	21.0	0.9				16.6	0.0	Grayish yellow	None	47	10.5	12	6.5	<0.64 ± 0.14	<0.55 ± 0.12		
	2014/12/9	Sunny	10.0	0.6				6.8	0.0	Light grayish yellow green	None	>100	265.0	2	1.4	<0.78 ± 0.14	<0.74 ± 0.15		
2015/1/8	Sunny	4.0	0.6	3.6	0.0	Grayish yellow green	None	90	646.0	2	2.4	<0.58 ± 0.13	<0.57 ± 0.11						

# Miyagi River (Sediment) 1/4

No.	Water area	Location			Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Sediment													Remarks					
		Location	Municipality	Sediment temperature (°C)					Sample length (cm)	Color	Odor	General items							Sediment content (%)		Activity concentration (Bq/kg dry)						
												Course gravel	Medium gravel	Fine gravel		Fine sand	Silt	Clay	Density (g/cm <sup>3</sup> )	Property	Radionuclide content		Total				
														Course sand	Medium sand						Cs-134			Cs-137			
1	Shibohi River	Kinran Bridge	Kesennuma City	2014/5/26	Cloudy	14.1	0.1	13.4	5	Olive brown	None	0.0	0.0	13.5	13.1	13.1	5.3	1.5	1.7	76.6	2.704	Gravel/sand	27	3.2	76	5.5	103
				2014/8/21	Cloudy	26.0	0.3	18.8	3	Olive brown	Faint	0.0	1.3	53.2	29.7	12.2	1.8	0.4	1.5	76.5	2.710	Gravel/sand	17	3.5	54	5.2	71
				2014/11/20	Sunny	8.0	0.2	8.0	3	Olive black	None	0.0	2.0	48.8	31.0	12.6	1.7	1.0	2.0	80.7	2.695	Gravel/sand	23	3.3	70	5.5	90
				2015/1/22	Cloudy	3.0	0.2	4.5	3	Olive black	Faint	0.0	0.2	61.2	19.7	13.5	2.6	0.9	1.9	83.0	2.708	Gravel/sand	21	3.1	64	5.2	85
				2014/5/21	Light rain	13.0	0.5	11.4	3	Faint hydrogen sulfide	Faint	0.0	0.0	1.5	3.7	1.5	50.4	20.1	18.9	58.0	2.677	Silt	80	8.8	220	14	300
2	Nanuta River	Nanuta Bridge	Kesennuma City	2014/8/22	Sunny	27.0	1.5	21.0	5	Faint hydrogen sulfide	Faint	0.0	0.0	0.2	0.4	39.0	25.4	12.9	22.2	58.0	2.627	Silt	40	5.3	110	8.8	150
				2014/11/20	Sunny	11.0	3.2	13.3	5	Faint hydrogen sulfide	Faint	0.0	0.0	0.0	0.3	19.8	30.4	30.4	29.0	51.0	2.616	Silt	51	7.5	180	14	231
				2015/1/22	Cloudy	3.0	2.2	7.5	3	Faint hydrogen sulfide	Faint	0.0	0.0	0.1	0.2	1.6	7.0	51.3	39.9	37.2	2.548	Silt	55	9.5	210	16	265
				2014/5/21	Light rain	13.0	0.2	14.5	3	Dark brown	Faint	0.0	0.0	13.6	54.1	26.5	1.6	0.2	4.0	83.3	2.657	Sand/gravel	10	1.9	23	2.7	33
				2014/8/21	Cloudy	28.0	0.5	21.0	3	Brown	Faint	0.0	0.0	5.6	34.8	47.7	4.2	2.8	5.0	74.0	2.686	Sand	16	3.0	38	4.6	54
3	Tateyama-obashi Bridge	Kesennuma City	2014/11/19	Sunny	9.0	0.2	9.2	3	Brown	Faint	0.0	0.0	4.6	39.1	47.8	5.0	0.4	3.1	78.1	2.571	Sand	14	2.6	66	4.7	60	
			2015/1/22	Light rain	2.0	0.3	2.1	3	Brown	Faint	0.0	0.0	2.1	42.3	39.2	7.3	0.0	1.6	78.8	2.660	Sand	14	2.8	47	4.6	61	
			2014/5/22	Cloudy	16.0	0.3	14.5	3	Faint hydrogen sulfide	Faint	0.0	0.0	0.5	0.9	9.0	64.3	9.0	16.4	59.4	2.670	Silt/sand	69	8.0	200	13	269	
			2014/9/5	Sunny	25.5	0.4	21.5	5	Faint hydrogen sulfide	Faint	0.0	0.0	1.0	0.8	4.0	29.4	31.3	21.7	41.6	2.534	Silt/sand	100	13	360	22	460	
			2014/11/21	Sunny	9.0	0.4	7.5	5	Faint hydrogen sulfide	Faint	0.0	0.0	0.2	0.3	4.5	43.0	31.2	20.8	25.8	2.625	Silt/sand	78	2.4	210	12	298	
4	Okawa River	Kumiyama Bridge	Kesennuma City	2014/11/21	Sunny	8.0	0.4	6.0	3	Olive black	Faint	0.0	0.0	3.6	9.5	57.9	21.9	4.5	73.6	2.757	Sand/silt	16	3.1	60	5.3	76	
				2014/5/22	Light rain	16.0	1.2	11.0	3	Brown	Faint	0.0	0.0	8.7	42.6	45.2	0.4	0.2	3.1	82.0	2.729	Sand	0.78	0.26	0.99	0.31	1.77
				2014/8/22	Sunny	32.0	1.0	24.0	5	Blackish brown	Faint	0.0	0.0	9.1	28.5	45.1	0.2	0.6	6.5	78.0	2.804	Sand/silt	-0.79	0.26	1.1	0.23	1.11
				2014/11/21	Sunny	11.0	0.5	13.5	5	Blackish brown	Faint	0.0	0.0	7.3	38.2	49.2	0.2	0.5	4.6	90.5	2.706	Sand	-0.79	0.26	1.3	0.27	1.31
				2014/1/27	Cloudy	8.0	0.8	8.5	5	Blackish brown	Faint	0.0	0.0	12.3	46.2	37.4	0.1	0.8	3.2	37.64	2.764	Sand	-0.75	0.25	0.92	0.25	0.92
5	Okawa River Estuary	Okawa River Estuary	Kesennuma City	2014/5/22	Light rain	17.0	0.9	12.5	5	Dim yellowish orange	Faint	0.0	0.0	0.7	7.5	63.2	10.3	7.7	10.6	68.0	2.638	Sand/silt	38	5.2	120	9.3	158
				2014/8/22	Sunny	20.0	1.3	24.2	5	Dim yellowish orange	Faint	0.0	0.0	0.5	1.4	65.4	11.5	6.0	12.4	69.7	2.658	Sand/silt	48	5.0	110	7.6	158
				2014/11/21	Sunny	12.0	1.0	8.6	5	Dim yellowish orange	Faint	0.0	0.2	3.1	12.9	41.8	10.2	19.8	12.1	64.7	2.676	Sand/silt	45	5.2	140	6.0	185
				2014/1/27	Sunny	11.0	0.9	8.0	5	Grayish olive	Faint	0.0	0.0	0.1	2.1	58.8	9.8	18.5	13.6	57.5	2.656	Sand/silt	32	6.5	150	11	182
				2014/5/14	Sunny	27.0	0.3	22.5	3	Dark grayish yellow	Faint	0.0	0.0	19.1	50.1	25.9	0.6	0.8	3.5	75.5	2.688	Sand/gravel	55	5.8	170	9.7	225
6	Onose River	Ozaki Bridge	Kesennuma City	2014/8/18	Cloudy	27.0	0.4	23.0	5	Dark grayish yellow	Faint	0.0	0.2	18.3	27.0	41.8	5.7	0.0	4.0	80.6	2.688	Sand/gravel	42	5.0	110	7.5	152
				2014/11/6	Sunny	10.0	0.5	7.8	3	Dark grayish yellow	Faint	0.0	0.0	15.0	45.9	36.2	0.9	0.6	1.5	78.3	2.679	Sand/gravel	35	4.1	110	7.1	145
				2014/1/20	Sunny	4.0	0.5	1.4	3	Brown	Faint	0.0	0.0	5.7	39.8	40.9	1.6	0.5	1.6	76.8	2.670	Sand	31	4.8	100	7.7	131
				2014/5/14	Sunny	28.0	0.2	22.0	3	Yellowish gray	Faint	0.0	0.0	1.1	9.7	58.6	23.3	2.2	5.0	73.5	2.607	Sand	81	7.2	190	11	271
				2014/8/18	Cloudy	26.0	0.3	23.0	5	Dark brown	Faint	0.0	0.0	7.7	33.7	41.9	11.7	1.0	4.0	70.5	2.620	Sand	70	6.4	180	11	250
7	Arima River	Okata Bridge	Kuribara City	2014/11/6	Sunny	10.5	0.3	8.3	3	Dark brown	Faint	0.0	0.0	2.4	12.9	43.7	32.2	2.0	6.9	64.0	2.556	Sand	74	7.0	230	12	304
				2014/1/20	Sunny	1.5	0.4	1.0	3	Dark brown	Faint	0.0	0.0	1.4	12.7	71.3	12.5	0.7	1.6	75.2	2.661	Sand	44	5.4	140	9.4	181
				2014/5/14	Sunny	28.0	0.3	14.5	3	Dim yellowish orange	Faint	0.0	0.0	0.1	0.2	8.2	71.4	9.5	69.6	2.643	Sand/silt	31	5.7	88	8.7	110	
				2014/8/6	Sunny	36.0	0.4	30.2	3	Dim yellowish orange	Faint	0.0	0.2	2.7	1.8	11.6	49.9	18.5	18.4	61.7	2.614	Silt	25	3.4	81	5.8	106
				2014/11/14	Sunny	12.0	0.4	11.0	5	Dim yellowish orange	Faint	0.0	0.0	0.6	0.7	4.8	20.9	45.4	27.6	46.7	2.548	Silt	38	6.1	120	10	158
8	Kiryu River	Ohata Bridge	Kuribara City	2015/1/19	Sunny	4.0	0.4	3.7	3	Dim yellowish orange	Faint	0.0	0.0	2.9	2.7	14.4	23.1	30.6	26.4	45.2	2.579	Silt	29	6.1	110	10	139
				2014/5/13	Cloudy	16.0	0.5	11.4	3	Yellowish brown	Faint	0.0	0.0	0.1	0.7	40.6	43.2	9.9	4.5	69.6	2.659	Sand/gravel	12	3.8	28	5.6	40
				2014/8/7	Sunny	36.0	1.6	22.5	5	Dim yellowish brown	Faint	0.0	0.0	0.1	3.2	69.4	22.1	1.3	5.9	71.5	2.629	Sand	-0.9	2.4	33	5.1	33
				2014/11/5	Sunny	10.0	1.0	9.5	5	Brown	Faint	0.0	0.0	0.0	2.0	67.2	22.0	1.4	6.4	68.9	2.642	Sand	9.8	2.4	26	3.9	35.8
				2015/1/21	Sunny	2.0	1.3	1.9	5	Brown	Faint	0.0	0.0	0.1	1.8	65.3	28.2	1.0	1.6	67.8	2.587	Sand	-8.4	2.7	22	3.3	23
9	Kakikami River	Tome-obashi Bridge (Tome)	Tome City	2014/5/13	Cloudy	17.0	0.4	12.2	3	Dim yellowish brown	Faint	0.0	0.0	11.2	37.9	34.4	9.9	2.2	4.4	72.5	2.610	Sand/gravel	35	4.7	89	7.7	124
				2014/8/7	Sunny	33.0	0.4	24.2	5	Dark brown	Faint	0.0	0.0	17.2	26.2	51.5	4.4	0.3	3.3	82.7	2.623	Sand/gravel	13	3.3	41	5.1	54
				2014/11/5	Sunny	17.0	0.3	10.8	3	Dark brown	Faint	0.0	0.0	14.6	35.8	43.7	4.2	0.3	1.4	74.5	2.622	Sand/gravel	23	3.6	75	5.8	98
				2015/1/21	Sunny	6.0	0.3	1.5	5	Dark brown	Faint	0.0	0.0	7.7	28.6	43.4	3.6	0.5	2.1	78.3	2.661	Sand/gravel	15	3.0	76	5.5	91
				2014/5/13	Sunny	24.5	0.5	11.3	3	Blackish brown	None	0.0	0.0	0.1	3.7	60.9	32.3	0.6	3.4	74.4	2.757	Sand	1.8	0.56	4.1	0.72	5.9
10	Kakikami River System	Sahasama River	Doman Bridge (Kurikoma Dam)	2014/8/27	Light rain	18.0	0.3	15.4	3	Yellowish gray	None	0.0	0.0	1.4	15.3	73.1	3.6	0.9	5.7	76.3	2.766	Sand	-0.95	0.31	4.4	0.37	4.4
				2014/11/5	Sunny	8.0	0.3	9.8	3	Yellowish gray	None	0.0	0.0	0.8	11.9	81.0	3.6	0.4	2.3	73.3	2.743	Sand	1.4	0.38	2.1	0.45	8.5
				2015/1/21	Sunny	5.0	0.3	9.0	3	Yellowish gray	None	0.0	0.0	3.8	22.2	69.9	3.2	0.5	1.6	77.7	2.705	Sand	-5.4	0.30	1.0	3.1	10
				2014/5/14	Sunny	28.0	0.5	14.3	3	Brown	Faint	0.0	1.0	19.4	19.6	50.5	5.4	1.6	2.4	77.3	2.707	Sand/gravel	15	1.8	47	5.1	63
				2014/8/8	Cloudy	26.0	0.3	24.0	3	Blackish brown	Faint	0.0	0.9	2.7	17.9	17.3	31.9	6.5	0.4	2.3	85.9	2.877	Sand/gravel	15	2.6	40	4.2

# Miyagi River (Sediment) 2/4

No.	Location				Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Sediment														Remarks				
	Water area	Location	Municipality	Sediment temperature (°C)					Sample length (cm)	Color	Odor	General items							Sediment content (%)			Activity concentration (Bq/kg dry)					
												Gram size distribution (%)							Density (g/cm <sup>3</sup> )	Property	Radionuclide content						
												Coarse gravel	Medium gravel	Fine gravel	Coarse sand	Medium sand	Fine sand	Silt			Clay	Cs-134		Cs-137	Total		
14	Hasama River	Yamayoshida Bridge	Tone City	2014/5/14	Sunny	27.5	0.7	15.8	3	Faint hydrogen sulfide	None	0.0	0.0	0.0	0.2	6.1	53.7	20.7	19.3	56.1	2,436	Sand/silt	65	+ 8.5	160	+ 17	223
				2014/8/6	Sunny	33.0	0.4	30.1	3	Dim yellowish orange	Faint	0.0	0.0	0.4	0.8	6.5	43.8	19.5	29.0	50.9	2,524	Silt	58	+ 8.4	200	+ 14	258
				2014/11/14	Sunny	9.0	0.5	9.0	5	Faint hydrogen sulfide	Faint	0.0	0.7	0.5	0.3	9.2	33.7	29.6	20.6	50.6	2,560	Silt	79	+ 7.6	260	+ 14	330
				2015/1/9	Sunny	4.0	0.5	2.5	5	Faint hydrogen sulfide	Faint	0.0	0.0	0.2	1.3	7.0	43.3	20.7	27.4	51.7	2,561	Silt	97	+ 8.2	240	+ 13	331
				2014/5/13	Sunny	19.0	0.4	11.9	3	Olive brown	None	0.0	0.0	0.2	0.7	33.9	53.7	7.1	4.4	71.5	2,605	Sand/silt	23	+ 4.3	57	+ 6.5	80
15	Eai River	Todoroki Bridge (Todoroki)	Osaki City	2014/8/7	Sunny	28.0	0.4	23.2	3	Olive brown	None	0.0	0.0	0.2	0.8	41.3	52.3	2.0	3.5	2,472	Sand/silt	19	+ 3.0	48	+ 4.3	67	
				2014/11/5	Sunny	8.0	0.4	7.2	3	Olive brown	None	0.0	0.0	0.1	0.5	33.9	38.8	3.0	4.8	69.9	2,536	Sand	11	+ 2.7	34	+ 4.6	49
				2015/1/21	Sunny	3.0	0.4	5.0	3	Yellowish gray	Faint	0.0	0.0	0.7	2.1	63.8	33.0	0.8	1.6	75.1	2,659	Sand	12	+ 1.9	34	+ 3.0	60
				2014/5/12	Sunny	17.0	1.0	14.7	5	Brown	Faint	0.0	0.0	0.6	5.0	30.4	9.4	1.2	3.8	2,640	Sand/gravel	7.3	+ 1.8	16	+ 2.3	23.3	
				2014/8/8	Sunny	32.0	0.8	23.5	5	Brown	None	0.0	0.0	11.9	17.9	54.4	12.3	0.4	3.1	83.4	2,651	Sand/gravel	<7.6	+ 2.0	18	+ 3.1	18
16	Shinborisahan, entrance	Osaki City	2014/1/10	Sunny	12.0	0.5	12.0	3	Brown	None	0.0	0.0	20.2	28.2	67.1	2.6	0.2	1.6	81.0	2,699	Sand/gravel	2.8	+ 0.76	11	+ 0.60	13.8	
			2015/1/20	Sunny	11.0	0.4	1.5	5	Brown	Faint	0.0	0.0	27.1	24.1	43.6	4.3	0.3	0.6	83.4	2,745	Sand/gravel	2.0	+ 2.0	9.8	+ 0.47	11.3	
			2014/5/12	Sunny	19.5	1.5	15.8	5	Black	Faint	0.0	0.0	0.5	2.4	31.1	62.9	0.7	2.5	72.4	2,615	Sand/silt	84	+ 8.0	240	+ 12	324	
			2014/8/8	Cloudy	29.0	1.0	24.5	5	Black	Faint	0.0	0.0	1.4	3.7	29.2	58.7	3.7	4.3	69.7	2,573	Sand/silt	98	+ 8.0	300	+ 14	398	
			2014/11/4	Sunny	15.0	1.4	11.7	5	Faint hydrogen sulfide	Faint	0.0	0.0	0.6	2.0	29.5	67.1	1.1	2.9	71.6	2,648	Sand/silt	49	+ 6.4	180	+ 11	229	
17	In Funakawa District, Osaki City	Shinborisahan, entrance	Osaki City	2015/1/19	Sunny	12.0	1.8	3.0	5	Faint hydrogen sulfide	Faint	0.0	0.0	0.6	3.0	37.3	65.4	2.0	3.7	69.9	2,638	Sand/silt	85	+ 5.2	310	+ 9.6	368
				2014/5/14	Sunny	23.0	2.1	15.6	5	Dim brown Olive gray	Strong	0.0	0.0	2.0	11.2	70.6	7.0	2.4	6.7	71.7	2,612	Sand/silt	43	+ 5.6	110	+ 8.6	153
				2014/8/8	Cloudy	29.0	1.8	26.6	5	Grayish olive	Faint	0.0	0.0	0.8	10.9	47.6	5.3	7.6	17.4	83.2	2,576	Silt/sand	42	+ 7.1	100	+ 13	233
				2014/11/4	Sunny	12.5	0.5	12.0	5	Faint hydrogen sulfide	Faint	0.0	0.0	1.1	8.0	82.1	4.7	1.4	2.9	76.8	2,651	Sand/silt	23	+ 3.9	72	+ 6.6	93
				2015/1/19	Sunny	6.0	0.3	3.5	5	Faint hydrogen sulfide	Faint	0.0	0.0	4.2	4.4	76.2	14.3	1.3	1.7	73.5	2,679	Sand/silt	22	+ 3.4	79	+ 4.8	101
18	Dekigawa River	Kogota Bridge	Miyato Town	2014/5/12	Sunny	22.0	0.7	16.2	3	Blackish brown	Faint	0.0	0.0	22.6	14.1	35.3	16.0	0.4	1.7	82.8	2,741	Sand/gravel	9.5	+ 2.8	20	+ 3.3	29.3
				2014/8/6	Sunny	35.0	0.3	29.5	3	Dark olive brown	None	0.0	0.0	1.4	1.4	71.8	19.3	0.3	3.4	76.5	2,699	Sand	<8.5	+ 2.7	19	+ 3.5	16
				2014/11/14	Sunny	8.0	0.5	9.3	5	Dark olive brown	None	0.0	0.3	14.8	17.0	53.8	11.2	0.7	2.2	88.2	2,728	Sand	<6.7	+ 1.8	13	+ 2.4	11
				2015/1/15	Cloudy	6.5	0.5	5.0	5	Dark olive brown	None	0.0	0.6	2.4	4.9	81.5	8.3	0.7	1.6	78.2	2,697	Sand	<7.7	+ 2.3	18	+ 3.0	18
				2014/5/12	Sunny	19.5	3.5	12.2	5	Grayish olive	Faint	0.0	0.0	0.2	0.2	2.0	13.8	47.9	42.4	37.2	2,523	Silt	61	+ 9.8	160	+ 16	221
19	Eai River	Okawa Bridge (Tandai)	Wakaya Town Ishinomaki City	2014/8/6	Sunny	30.0	5.2	27.0	5	Dim yellowish orange	Faint	0.0	0.0	0.0	0.0	0.6	7.7	48.0	46.7	38.9	2,493	Silt	41	+ 10.1	130	+ 16	171
				2014/11/13	Sunny	11.0	5.1	11.5	5	Dim yellowish orange	Faint	0.0	0.0	0.0	0.1	0.7	7.3	53.3	38.6	30.9	2,540	Silt	44	+ 3.6	140	+ 9.0	184
				2015/1/15	Cloudy	6.0	8.1	11.5	5	Grayish olive	Faint	0.0	0.0	0.0	0.0	0.3	5.9	47.7	46.1	27.5	2,543	Silt	42	+ 9.9	170	+ 17	212
				2014/5/12	Sunny	18.9	0.4	14.2	5	Faint hydrogen sulfide	Faint	0.0	0.0	0.2	19.1	63.5	9.9	3.3	4.0	78.7	2,630	Sand/silt	10	+ 3.4	30	+ 4.6	40
				2014/8/12	Cloudy	29.0	0.4	22.5	5	Faint hydrogen sulfide	Faint	0.0	0.0	0.0	0.1	6.4	40.6	27.7	25.2	43.9	2,490	Silt	33	+ 6.5	120	+ 11	153
20	Kyu-Kakami River	Kadonowaki	Ishinomaki City	2014/11/13	Sunny	15.0	0.7	10.8	5	Faint hydrogen sulfide	Faint	0.0	0.0	0.1	1.1	46.4	35.4	6.8	10.3	63.2	2,628	Sand/silt	14	+ 2.9	39	+ 4.2	53
				2015/1/15	Cloudy	21.0	0.5	3.0	5	Faint hydrogen sulfide	Faint	0.0	0.0	0.1	1.2	56.9	32.0	1.9	5.0	69.6	2,685	Sand/silt	14	+ 3.1	40	+ 4.5	54
				2014/5/19	Sunny	20.0	0.3	21.7	3	Faint hydrogen sulfide	Faint	0.0	0.0	2.7	12.7	60.1	28.8	4.1	5.2	76.7	2,601	Sand/silt	35	+ 4.5	87	+ 7.3	122
				2014/8/13	Sunny	31.0	0.3	27.8	3	Faint hydrogen sulfide	None	0.0	0.0	1.8	13.1	49.8	26.3	3.7	5.3	64.9	2,599	Sand/silt	26	+ 4.1	97	+ 7.1	121
				2014/11/12	Light rain	12.0	0.5	11.5	5	Faint hydrogen sulfide	Faint	0.0	0.0	1.2	7.1	46.6	29.4	4.4	11.3	68.3	2,587	Sand/silt	22	+ 4.4	110	+ 7.1	132
21	Nanose River	Ono Bridge (Ono)	Higashi-Matsushima City	2015/1/14	Sunny	8.0	0.4	8.6	3	Faint hydrogen sulfide	Faint	0.0	0.0	1.7	8.4	36.8	25.1	12.2	15.8	53.5	2,588	Sand/silt	36	+ 5.9	120	+ 9.8	156
				2014/5/8	Sunny	20.5	0.5	18.7	5	Faint hydrogen sulfide	Faint	0.0	0.0	0.9	3.8	15.7	27.9	18.1	36.7	50.0	2,511	Silt/sand	55	+ 7.1	170	+ 12	225
				2014/8/12	Cloudy	24.0	0.7	28.0	5	Faint hydrogen sulfide	Faint	0.0	0.0	1.2	4.3	13.2	15.1	24.4	40.7	35.5	2,473	Silt	120	+ 12	380	+ 21	500
				2014/11/12	Cloudy	13.0	0.7	14.4	3	Faint hydrogen sulfide	Faint	0.0	0.0	1.9	10.9	25.8	13.6	14.8	33.0	38.1	2,611	Silt	67	+ 9.2	240	+ 16	307
				2015/1/14	Sunny	11.0	0.8	9.0	3	Faint hydrogen sulfide	Faint	0.0	0.2	3.1	11.4	46.2	23.7	3.8	11.7	63.8	2,659	Sand/silt	22	+ 3.7	65	+ 6.0	87
22	Sunaoshi River	Tagajo Weir	Tagajo City	2014/5/12	Sunny	18.9	0.4	14.2	5	Faint hydrogen sulfide	Faint	0.0	0.0	0.2	19.1	63.5	9.9	3.3	4.0	78.7	2,630	Sand/silt	10	+ 3.4	30	+ 4.6	40
				2014/5/19	Sunny	20.0	0.3	21.7	3	Faint hydrogen sulfide	Faint	0.0	0.0	2.7	12.7	60.1	28.8	4.1	5.2	76.7	2,601	Sand/silt	35	+ 4.5	87	+ 7.3	122
				2014/8/13	Sunny	31.0	0.3	27.8	3	Faint hydrogen sulfide	None	0.0	0.0	1.8	13.1	49.8	26.3	3.7	5.3	64.9	2,599	Sand/silt	26	+ 4.1	97	+ 7.1	121
				2014/11/12	Light rain	12.0	0.5	11.5	5	Faint hydrogen sulfide	Faint	0.0	0.0	1.2	7.1	46.6	29.4	4.4	11.3	68.3	2,587	Sand/silt	22	+ 4.4	110	+ 7.1	132
				2015/1/14	Sunny	8.0	0.4	8.6	3	Faint hydrogen sulfide	Faint	0.0	0.0	1.7	8.4	36.8	25.1	12.2	15.8	53.5	2,588	Sand/silt	36	+ 5.9	120	+ 9.8	156
23	Nanbana Bridge	Tagajo City	2014/5/8	Sunny	20.5	0.5	18.7	5	Faint hydrogen sulfide	Faint	0.0	0.0	0.9	3.8	15.7	27.9	18.1	36.7	50.0	2,511	Silt/sand	55	+ 7.1	170	+ 12	225	
			2014/8/12	Cloudy	24.0	0.7	28.0	5	Faint hydrogen sulfide	Faint	0.0	0.0	1.2	4.3	13.2	15.1	24.4	40.7	35.5	2,473	Silt	120	+ 12	380	+ 21	500	
			2014/11/12	Cloudy	13.0	0.7	14.4	3	Faint hydrogen sulfide	Faint	0.0	0.0	1.9	10.9	25.8	13.6	14.8	33.0	38.1	2,611	Silt	67	+ 9.2	240	+ 16	307	
			2015/1/14	Sunny	11.0	0.8	9.0	3	Faint hydrogen sulfide	Faint	0.0	0.2	3.1	11.4	46.2	23.7	3.8	11.7	63.8	2,659	Sand/silt	22	+ 3.7	65	+ 6.0	87	
			2014/5/8	Sunny	18.9	0.4	14.2	5	Faint hydrogen sulfide	Faint	0.0	0.0	0.2	0.4													

# Miyagi River (Sediment) 3/4

No.	Location				Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Sediment														Remarks								
	Water area	Location	Municipality	Sediment temperature (°C)					Sample length (cm)	Color	Odor	General items										Activity concentration (Bq/kg dry)									
												Coarse gravel		Medium gravel		Fine gravel		Medium sand		Fine sand		Silt		Clay	Sediment content (%)	Density (g/cm <sup>3</sup> )	Property	Radioactive cesium			
												Coarse	Medium	Coarse	Medium	Coarse	Medium	Coarse	Medium	Coarse	Medium	Coarse						Medium	Cl-134	Cl-137	Total
R i v e r S y s t e m	Nanaka River System	Unoda River	Fukuda Bridge	Sendai City	2014/5/9	Sunny	16.0	0.2	17.2	3	Gray	None	0.0	0.0	1.0	5.9	47.9	31.6	0.1	3.6	74.2	2.641	Sand/silt	20	3.6	56	5.4	76			
					2014/8/11	Cloudy	28.0	0.3	24.2	3	Grayish olive	Faint	0.0	0.0	0.4	2.7	61.5	29.1	1.9	4.6	73.1	2.633	Sand/silt	19	3.1	52	4.6	71			
					2014/11/13	Sunny	17.0	0.5	17.5	5	Faint hydrogen sulfide	Faint	0.0	0.0	1.1	4.8	50.9	38.6	2.1	2.4	73.1	2.644	Sand/silt	15	2.1	69	6.7	81			
		2015/1/3	Sunny	7.0	0.3	4.2	3	Faint hydrogen sulfide	Faint	0.0	0.0	0.3	1.6	50.9	42.0	2.7	2.4	71.7	2.652	Sand/silt	24	4.0	100	7.2	124						
		2014/5/8	Sunny	22.0	0.3	18.4	3	Brownish gray	Faint	0.0	0.0	0.0	0.9	47.6	34.4	8.1	8.6	68.9	2.627	Sand	24	4.4	90	6.9	114						
		2014/8/13	Sunny	29.5	0.3	24.5	3	Faint hydrogen sulfide	Faint	0.0	0.0	0.0	1.2	21.2	42.6	21.0	14.0	55.7	2.507	Silt/sand	73	7.2	220	12	293						
	Natori River System	Nanukka River	Takasago Bridge	Sendai City	2014/11/11	Sunny	16.0	0.3	14.0	5	Faint hydrogen sulfide	Faint	0.0	0.0	0.9	5.5	41.5	19.8	17.4	15.1	66.9	2.583	Silt/sand	35	5.9	150	11	183			
					2015/1/9	Sunny	6.0	0.3	5.5	3	Faint hydrogen sulfide	Faint	0.0	0.0	0.1	1.6	55.3	26.6	8.4	8.1	54.6	2.635	Sand/silt	24	3.1	100	8.4	121			
					2014/5/7	Sunny	18.0	0.4	16.1	3	Blackish brown	None	0.0	0.0	1.2	5.8	54.7	28.4	4.5	5.4	73.1	2.617	Sand	13	3.2	48	5.1	61			
		2014/8/13	Sunny	28.0	0.3	23.3	3	Olive black	Faint	0.0	0.0	3.7	5.5	56.5	24.4	4.5	5.2	76.0	2.656	Sand/silt	6.3	2.1	26	3.5	32.3						
		2014/11/11	Sunny	15.0	0.4	13.4	3	Olive brown	Faint	0.0	0.0	2.7	5.0	51.4	29.1	4.2	5.6	75.3	2.675	Sand/silt	<5.5	1.6	32	3.8	23						
		2015/1/9	Sunny	6.0	0.3	5.7	3	Olive brown	Faint	0.0	0.0	0.4	1.8	58.8	33.3	2.9	2.6	77.5	2.687	Sand	<5.7	1.9	18	2.9	23.7						
	Natori River System	Yakushi Bridge	Natori City	2014/5/7	Sunny	15.0	0.4	12.3	3	Dim yellowish brown	None	0.0	4.3	47.6	32.7	10.0	1.3	1.6	2.3	74.3	2.700	Gravel/sand	<8.2	2.6	28	3.7	28				
				2014/8/5	Sunny	37.0	0.3	26.5	3	Dark brown	Faint	0.0	4.9	50.9	11.7	1.8	3.6	6.2	50.0	2.614	Gravel/sand	11	1.8	41	2.8	52					
				2014/11/11	Sunny	15.0	0.3	10.2	3	Dark brown	None	0.0	0.6	36.8	39.6	10.3	1.4	2.4	8.9	62.4	2.620	Gravel/sand	<9.9	3.1	27	5.3	27				
		2015/1/9	Sunny	5.0	0.3	5.4	3	Dark brown	Faint	0.0	1.4	32.8	42.7	16.5	1.6	2.8	2.6	61.2	2.676	Gravel/sand	10	2.6	33	4.8	43						
		2014/5/9	Sunny	21.0	0.4	17.5	3	Grayish olive	Faint	0.0	0.0	2.2	5.2	37.5	25.6	14.3	15.2	52.9	2.587	Silt	48	6.7	160	11	208						
		2014/8/5	Sunny	36.5	0.3	27.8	3	Faint hydrogen sulfide	Faint	1.8	1.8	2.1	5.6	33.9	32.3	8.5	12.6	65.1	2.588	Silt	7.3	2.0	21	2.7	28.3						
	Masuda River System	Koyama Bridge	Natori City	2014/11/11	Sunny	13.0	0.4	12.2	5	Faint hydrogen sulfide	Faint	0.0	0.6	17.6	20.9	59.0	14.3	2.1	5.6	77.6	2.664	Sand	24	3.7	88	7.0	112				
				2015/1/9	Sunny	7.0	0.3	7.4	3	Faint hydrogen sulfide	Faint	0.0	1.6	18.0	19.4	40.6	17.8	1.7	1.3	76.7	2.683	Sand	12	2.8	62	4.0	74				
				2014/5/9	Sunny	19.0	1.5	16.0	5	Olive black	Faint	0.0	0.0	0.7	11.0	35.8	22.9	29.7	46.4	2.523	Silt	300	17	870	28	1,170					
		2014/8/5	Sunny	32.4	1.1	28.4	5	Grayish olive	Faint	0.0	0.0	0.4	2.6	16.3	27.8	21.7	29.1	50.3	2.489	Silt	200	17	790	28	1,060						
		2014/11/11	Sunny	12.0	1.2	11.7	5	Dim yellowish orange	Faint	0.0	0.0	1.1	5.8	17.5	32.9	20.7	22.0	52.6	2.553	Silt	130	11	500	22	630						
		2015/1/8	Sunny	5.0	1.2	5.0	5	Dim yellowish orange	Faint	0.0	0.0	0.5	3.1	11.6	34.3	20.8	27.5	48.7	2.551	Silt	130	11	520	21	650						
	Abukuma River System	Hakuniwa Bridge	Mamuroi Town	2014/4/28	Sunny	20.0	0.4	13.6	5	Dark grayish yellow	None	0.0	0.0	0.1	0.4	85.9	9.8	0.7	3.1	75.0	2.704	Sand	43	4.4	110	7.1	153				
				2014/5/19	Sunny	19.0	0.4	16.5	5	Dark grayish yellow	None	0.0	0.0	0.0	0.4	70.0	23.3	2.7	3.3	78.8	2.704	Sand	66	6.2	170	10	236				
				2014/6/10	Cloudy	21.0	0.6	18.8	5	Dark grayish yellow	None	0.0	0.0	0.0	1.9	65.3	26.7	2.2	3.9	78.0	2.695	Sand	82	5.9	230	10	312				
2014/7/7				Cloudy	24.0	0.6	20.5	5	Dark grayish yellow	None	0.0	0.0	0.0	2.0	69.1	22.1	2.4	4.4	71.0	2.662	Sand	80	6.0	200	9.8	280					
2014/8/4				Sunny	20.0	0.5	26.2	5	Brownish gray	Faint	0.0	0.0	0.4	1.2	68.3	20.9	2.2	7.6	71.1	2.660	Sand	83	8.1	280	13	363					
2014/9/4				Cloudy	21.4	0.5	21.5	4	Olive black	None	0.0	0.0	0.1	0.7	54.7	39.3	3.5	2.7	74.3	2.705	Sand	72	5.7	200	9.6	272					
2014/10/17		Sunny	19.0	0.4	15.0	3	Dark grayish yellow	None	0.0	0.0	0.1	2.0	69.8	25.3	2.4	81.3	2.736	Sand	37	3.8	120	6.7	157								
2014/12/8		Sunny	7.0	0.6	5.7	3	Blackish brown	None	0.0	0.0	0.0	1.2	83.0	11.6	0.1	4.1	76.1	2.656	Sand	35	4.8	130	8.7	168							
2015/1/7		Sunny	2.0	0.4	3.6	5	Blackish brown	None	0.0	0.0	0.0	0.4	67.8	29.1	1.0	1.6	70.7	2.644	Sand	51	5.0	200	9.4	251							
2015/2/16		Sunny	6.0	0.4	5.5	5	Blackish brown	None	0.0	0.0	0.0	1.1	82.3	14.4	0.6	1.6	75.8	2.665	Sand	35	4.6	120	8.3	155							
2014/4/28		Sunny	23.0	0.6	15.9	5	Brownish gray	Faint	0.0	0.0	1.8	5.2	41.9	44.3	2.7	3.9	74.6	2.716	Sand	110	6.9	270	11	380							
2014/5/19		Sunny	22.0	0.4	16.5	5	Blackish yellow	Faint	0.0	0.0	1.5	8.9	52.1	31.3	2.0	4.0	76.6	2.661	Sand	110	8.2	310	13	420							
2014/6/10	Cloudy	23.0	1.4	16.8	5	Dark grayish yellow	Faint	0.0	0.0	2.0	9.0	42.1	32.9	4.7	8.3	64.4	2.659	Sand/silt	250	12	680	20	930								
2014/7/7	Cloudy	26.0	1.2	22.5	5	Gray	Faint	0.0	0.0	0.4	6.2	47.5	35.8	5.3	5.1	71.6	2.671	Sand	130	7.7	390	14	520								
2014/8/4	Sunny	31.5	0.7	29.3	5	Gray	Faint	0.0	0.0	0.1	0.8	35.0	54.8	2.1	7.3	71.2	2.687	Sand	110	8.3	360	15	470								
2014/9/4	Cloudy	21.9	0.5	21.5	5	Faint hydrogen sulfide	Faint	0.0	0.0	1.4	2.4	32.2	46.3	4.7	10.8	69.7	2.634	Sand/silt	220	11	670	19	890								
2014/10/17	Sunny	19.0	0.9	14.9	3	Olive brown	Faint	0.0	0.0	0.0	1.1	69.5	35.1	0.9	2.4	72.2	2.709	Sand	62	5.2	200	9.0	262								
2014/12/8	Sunny	10.0	0.5	8.0	5	Olive brown	Faint	0.0	0.0	0.3	4.1	47.1	37.1	4.4	7.0	76.4	2.683	Sand	74	7.0	290	13	364								
2015/1/7	Sunny	5.0	0.4	5.0	5	Olive brown	Faint	0.0	0.0	0.5	3.3	47.3	42.9	3.2	2.0	73.3	2.698	Sand	73	6.0	300	11	373								
2015/2/16	Sunny	3.0	0.4	3.5	5	Olive brown	Faint	0.0	0.0	0.1	0.8	33.1	52.5	37.2	2.1	2.0	69.9	2.700	Sand	78	7.0	240	12	318							





# Miyagi River (Surrounding Environment) 1/4

Location				Sampling Date	Weather	Air temperature (°C)	Surrounding Environment(Soil,Air dose)													Remarks
No.	Water area	Location	Municipality				Left bank						Right bank						Air Dose (µSv/h)	
							Color	Odor	Property	Activity concentration [Bq/kg(dry)]			Color	Odor	Property	Activity concentration [Bq/kg(dry)]				
										Cs-134	Radioactive cesium	Total				Cs-134	Cs-137	Total		
R i v e r s	1	Shishiori River	Kinzan Bridge	2014/5/26	Cloudy	14.1	Blackish brown	faint earth	Loamy	77 ± 9.3	180 ± 13	257	0.12	Blackish brown	Faint grass	Loamy	94 ± 9.2	220 ± 15	314	0.10
				2014/8/21	Cloudy	26.0	Blackish brown	faint earth	Loamy	96 ± 10	330 ± 19	426	0.10	Dim yellowish brown	faint earth	Loamy	96 ± 9.5	260 ± 16	356	0.12
				2014/11/20	Sunny	8.0	Blackish brown	faint earth	Loamy	250 ± 17	760 ± 31	1,010	0.11	Dim yellowish brown	faint earth	Loamy	160 ± 13	550 ± 24	710	0.09
				2015/1/22	Cloudy	3.0	Blackish brown	faint earth	Loamy	220 ± 18	730 ± 33	950	0.10	-	faint earth	Loamy	31 ± 3.5	110 ± 5.7	141	0.09
				2014/5/21	Light rain	13.0	Faint fish	faint earth	Loamy	7.9 ± 2.0	20 ± 2.5	27.9	0.07	Brownish gray	faint earth	Loamy	27 ± 3.2	94 ± 5.2	121	0.08
		2	Namita Bridge	2014/8/22	Sunny	27.0	Yellowish brown	faint earth	Loamy	<8.7 ± 2.6	19 ± 4.3	19	0.07	Dark brown	faint earth	Loamy	28 ± 6.5	95 ± 10	123	0.07
				2014/11/20	Sunny	11.0	Brown	faint earth	Loamy	<9.2 ± 2.7	20 ± 4.3	20	0.07	Dark brown	faint earth	Loamy	<6.9 ± 2.2	26 ± 3.2	26	0.06
				2015/1/22	Cloudy	5.0	Dim yellowish brown	faint earth	Loamy	<6.0 ± 1.9	21 ± 2.7	21	0.07	Dark brown	faint earth	Loamy	<7.4 ± 2.3	17 ± 2.8	17	0.06
				2014/5/21	Light rain	13.0	Dark brown	Faint grass	Loamy	54 ± 7.6	180 ± 12	234	0.10	Dim yellowish brown	Medium grass	Sandy	51 ± 7.1	180 ± 12	231	0.09
				2014/8/21	Cloudy	28.0	Dark brown	Faint grass	Loamy	160 ± 14	420 ± 23	580	0.09	Dark brown	Faint grass	Sandy	71 ± 11	250 ± 18	321	0.09
	3	Okawa River	Kaniyama Bridge	2014/11/19	Sunny	9.0	Dark brown	Faint grass	Loamy	25 ± 5.8	73 ± 8.3	98	0.09	Dark brown	Faint grass	Loamy	41 ± 6.5	130 ± 11	171	0.09
				2015/1/22	Light rain	2.0	Dark brown	Faint grass	Loamy	47 ± 8.0	150 ± 15	197	0.09	Dark brown	Faint grass	Loamy	42 ± 9.5	230 ± 18	272	0.09
				2014/5/22	Cloudy	16.0	Dim yellowish brown	Faint grass	Loamy	59 ± 7.9	190 ± 13	249	0.08	Dark brown	faint earth	Loamy	120 ± 10	340 ± 16	460	0.08
				2014/9/3	Sunny	25.5	Dark brown	Faint grass	Loamy	160 ± 14	450 ± 24	610	0.08	Dark brown	faint earth	Loamy	50 ± 7.6	160 ± 14	210	0.08
				2014/11/21	Sunny	9.0	Brown	Faint grass	Loamy	59 ± 7.4	160 ± 13	219	0.08	Dark brown	faint earth	Loamy	91 ± 10	290 ± 16	381	0.08
		4	Okawa River Estuary	2015/1/22	Light rain	5.0	Dark brown	Faint grass	Loamy	110 ± 11	350 ± 20	460	0.06	Dark brown	faint earth	Loamy	26 ± 6.3	110 ± 11	136	0.07
				2014/5/22	Light rain	16.0	Dim yellowish brown	Faint grass	Loamy	18 ± 4.7	70 ± 7.2	88	0.07	Dark brown	faint earth	Loamy	10 ± 1.7	20 ± 2.3	30	0.07
				2014/8/22	Sunny	32.0	Dark brown	Faint grass	Loamy	27 ± 7.0	110 ± 11	137	0.06	Dim yellowish brown	faint earth	Loamy	36 ± 6.3	90 ± 10	126	0.07
				2014/11/21	Sunny	11.0	Dark brown	Faint grass	Loamy	20 ± 2.8	57 ± 4.5	77	0.06	Dim yellowish brown	faint earth	Loamy	36 ± 5.5	140 ± 11	176	0.08
				2015/1/27	Cloudy	8.0	Dim yellowish brown	faint earth	Loamy	<4.3 ± 1.2	<4.1 ± 1.2	-	0.05	Dim yellowish brown	faint earth	Loamy	24 ± 6.8	96 ± 11	120	0.08
5	Omose River	Ozaki Bridge	2014/5/22	Light rain	17.0	Dark brown	Faint grass	Loamy	84 ± 8.1	250 ± 14	334	0.07	Dim yellowish brown	faint earth	Loamy	75 ± 7.0	200 ± 11	275	0.07	
			2014/8/22	Sunny	29.0	Dim yellowish brown	Faint grass	Loamy	22 ± 2.9	64 ± 4.5	86	0.07	Brown	Faint grass	Loamy	99 ± 9.1	240 ± 15	319	0.07	
			2014/11/21	Sunny	12.0	Dim yellowish brown	Faint grass	Loamy	20 ± 2.8	60 ± 4.5	80	0.07	Brown	Faint grass	Loamy	87 ± 10	320 ± 19	407	0.07	
			2015/1/27	Sunny	11.0	Dim yellowish brown	Faint grass	Loamy	17 ± 2.7	60 ± 4.6	77	0.07	Brown	faint earth	Loamy	26 ± 6.5	100 ± 10	126	0.06	
			2014/5/14	Sunny	27.0	Dark brown	faint earth	Loamy	390 ± 20	1,100 ± 33	1,490	0.15	Dim yellowish brown	Faint grass	Loamy	260 ± 16	750 ± 27	1,010	0.16	
	6	Arima River	Unanda Bridge	2014/8/18	Cloudy	27.0	Blackish brown	faint earth	Loamy	470 ± 25	1,500 ± 47	1,970	0.15	Dark brown	Faint grass	Loamy	230 ± 16	660 ± 27	890	0.14
				2014/11/6	Sunny	10.0	Blackish brown	Faint grass	Loamy	250 ± 18	930 ± 33	1,180	0.15	Dark brown	Faint grass	Loamy	200 ± 15	670 ± 27	870	0.13
				2015/1/20	Sunny	4.0	Dark brown	Faint grass	Loamy	170 ± 15	580 ± 28	750	0.13	Dark brown	Faint grass	Loamy	180 ± 16	610 ± 29	790	0.11
				2014/5/14	Sunny	28.0	Reddish brown	faint earth	Loamy	500 ± 23	1,300 ± 38	1,800	0.18	Dim yellowish brown	Faint grass	Loamy	290 ± 17	740 ± 27	1,030	0.16
				2014/8/18	Cloudy	26.0	Yellowish brown	Faint grass	Loamy	370 ± 22	1,100 ± 38	1,470	0.18	Dim yellowish brown	Faint grass	Loamy	270 ± 19	820 ± 33	1,090	0.16
7	Kinryu River	Obata Bridge	2014/11/6	Sunny	10.5	Yellowish brown	Faint grass	Loamy	340 ± 22	1,000 ± 38	1,340	0.18	Dark brown	Faint grass	Loamy	180 ± 15	620 ± 28	800	0.14	
			2015/1/20	Sunny	1.5	Yellowish brown	Faint grass	Loamy	210 ± 18	690 ± 34	900	0.16	Dark brown	Faint grass	Loamy	170 ± 16	510 ± 26	680	0.14	
			2014/5/14	Sunny	28.0	Dim yellowish orange	faint earth	Loamy	210 ± 14	570 ± 24	780	0.11	Dim yellowish brown	Faint grass	Loamy	150 ± 12	370 ± 19	520	0.08	
			2014/8/6	Sunny	36.0	Dark grayish yellow	faint earth	Loamy	190 ± 11	580 ± 21	770	0.09	Dim yellowish brown	Faint grass	Loamy	140 ± 12	440 ± 20	580	0.07	
			2014/11/14	Sunny	12.0	Dark brown	Faint grass	Loamy	180 ± 17	600 ± 30	780	0.09	Dark brown	Faint grass	Loamy	92 ± 10	280 ± 18	372	0.07	
	8	Kitakami River	Tome-ohashi Bridge (Tome)	2015/1/19	Sunny	4.0	Dark brown	Faint grass	Loamy	110 ± 12	360 ± 22	470	0.09	Dark brown	Faint grass	Loamy	100 ± 12	340 ± 21	440	0.07
				2014/5/13	Cloudy	16.0	Brown	faint earth	Loamy	260 ± 15	720 ± 25	980	0.12	Brown	faint earth	Loamy	310 ± 16	930 ± 28	1,260	0.13
				2014/8/7	Sunny	36.0	Yellowish brown	faint earth	Loamy	270 ± 16	760 ± 27	1,030	0.11	Blackish brown	faint earth	Loamy	440 ± 20	1,300 ± 36	1,740	0.12
				2014/11/5	Sunny	10.0	Yellowish brown	faint earth	Loamy	150 ± 13	460 ± 23	610	0.12	Blackish brown	faint earth	Loamy	320 ± 19	1,000 ± 33	1,320	0.12
				2015/1/21	Sunny	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	Unable to collect samples due to
9	Kitakami River System	Sanbasama River	Donan Bridge (Kurikoma Dam)	2014/5/13	Cloudy	17.0	Yellowish brown	Faint grass	Loamy	290 ± 13	830 ± 22	730	0.16	Dim yellowish brown	Faint grass	Loamy	340 ± 18	960 ± 31	1,300	0.16
				2014/8/7	Sunny	33.0	Yellowish brown	Faint grass	Loamy	190 ± 13	520 ± 22	710	0.15	Dark brown	Faint grass	Loamy	320 ± 19	1,100 ± 34	1,420	0.12
				2014/11/5	Sunny	17.0	Yellowish brown	Faint grass	Loamy	130 ± 13	460 ± 24	590	0.13	Blackish brown	Faint grass	Loamy	480 ± 27	1,500 ± 48	1,980	0.13
				2015/1/21	Sunny	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	(Left bank) Unable to collect
				2014/5/13	Sunny	24.5	Dim yellowish brown	faint earth	Loamy	520 ± 22	1,400 ± 37	1,920	0.17	Dim yellowish brown	Dim yellow	Sandy	130 ± 10	390 ± 18	520	0.10
	10	Nihassama River	Kaiya Bridge	2014/8/27	Light rain	18.0	Blackish brown	Faint grass	Loamy	510 ± 24	1,400 ± 41	1,910	0.15	Dark brown	Faint grass	Loamy	220 ± 17	680 ± 29	900	0.10
				2014/11/5	Sunny	8.0	Blackish brown	Faint grass	Loamy	280 ± 18	830 ± 30	1,110	0.17	Dark brown	Faint grass	Loamy	130 ± 14	440 ± 24	570	0.09
				2015/1/21	Sunny	4.0	Blackish brown	Faint grass	Loamy	340 ± 20	1,100 ± 36	1,440	0.13	Dim yellowish brown	Faint grass	Loamy	-	-	-	(Right bank) Unable to collect
				2014/5/14	Sunny	28.0	Dark brown	faint earth	Loamy	130 ± 12	350 ± 19	480	0.08	Dark brown	faint earth	Loamy	42 ± 7.6	140 ± 13	202	0.10
				2014/8/8	Cloudy	26.0	Blackish brown	faint earth	Loamy	170 ± 13	560 ± 24	730	0.08	Dark brown	faint earth	Loamy	78 ± 10	260 ± 18	338	0.09
11	Hasama River	Wakayanagi	2014/11/4	Sunny	15.0	Blackish brown	Faint grass	Loamy	130 ± 12	390 ± 20	520	0.08	Brown	Faint grass	Sandy	43 ± 6.7	130 ± 12	173	0.07	
			2015/1/20	Sunny	2.0	Blackish brown	Faint grass	Loamy	76 ± 10	240 ± 18	316	0.08	Brown	Faint grass	Loamy	40 ± 9.2	130 ± 14	170	0.06	



# Miyagi River (Surrounding Environment)3/4

No.	Location			Sampling Date	Weather	Air temperature (°C)	Surrounding Environment(Soil,Air dose)														Remarks	
	Water area	Location	Municipality				Left bank							Right bank								
							Color	Odor	Property	Activity concentration [Bq/kg(dry)]			Air Dose (µSv/h)	Color	Odor	Property	Activity concentration [Bq/kg(dry)]					
										Radioactive cesium							Radioactive cesium					
			Cs-134	Cs-137	Total				Cs-134	Cs-137	Total											
R i v e r s	27	Nanukita River System	Umeda River	Fukuda Bridge	Sendai City	2014/5/9	Sunny	16.0	Dim yellowish brown	Faint grass	Sandy	42 ± 6.9	140 ± 11	182	0.09	Dim yellowish brown	Faint grass	Sandy	22 ± 5.1	79 ± 8.4	101	0.07
						2014/8/11	Cloudy	28.0	Dark brown	Faint grass	Sandy	220 ± 16	700 ± 28	920	0.11	Dim yellowish brown	Faint grass	Loamy	26 ± 7.0	76 ± 10	102	0.06
						2014/11/13	Sunny	12.0	Dark brown	Faint grass	Loamy	160 ± 11	570 ± 22	730	0.10	Dim yellowish brown	Faint grass	Loamy	19 ± 5.5	80 ± 8.8	99	0.08
		28	Nanukita River	Takasago Bridge	Sendai City	2015/1/13	Sunny	7.0	Dark brown	Faint grass	Loamy	120 ± 10	430 ± 19	550	0.09	Dim yellowish brown	Faint grass	Loamy	12 ± 2.6	33 ± 3.7	45	0.07
						2014/5/8	Sunny	22.0	Dark grayish yellow	Faint grass	Loamy	33 ± 6.2	110 ± 9.7	143	0.04	Dim yellowish brown	faint earth	Loamy	63 ± 7.0	170 ± 11	233	0.07
						2014/8/13	Sunny	29.5	Dark olive brown	faint earth	Loamy	57 ± 8.9	180 ± 15	237	0.05	Dark brown	faint earth	Loamy	96 ± 9.4	270 ± 16	366	0.06
	29	Natori River	Yuriage-obashi Bridge	Sendai City/Natori City	2014/11/11	Sunny	16.0	Dark brown	faint earth	Loamy	67 ± 8.7	160 ± 14	227	0.05	Dark brown	faint earth	Loamy	100 ± 11	330 ± 19	430	0.07	
					2015/1/9	Sunny	6.0	Dark brown	faint earth	Loamy	7.8 ± 2.4	34 ± 3.5	41.8	0.04	Dark brown	faint earth	Loamy	40 ± 5.8	130 ± 10	170	0.07	
					2014/5/7	Sunny	18.0	Dim yellowish brown	Medium grass	Loamy	20 ± 3.3	58 ± 4.6	78	0.05	Dark brown	Faint grass	Loamy	78 ± 8.3	240 ± 14	318	0.06	
	30	Natori River System	Yakushi Bridge	Natori City	2014/8/13	Sunny	28.0	Dark brown	faint earth	Loamy	34 ± 7.6	93 ± 10	127	0.05	Blackish brown	Faint grass	Loamy	95 ± 12	300 ± 20	395	0.06	
					2014/11/11	Sunny	15.0	Dark brown	faint earth	Loamy	17 ± 2.7	54 ± 4.7	71	0.05	Dark brown	Faint grass	Loamy	25 ± 7.2	86 ± 10	111	0.05	
					2015/1/9	Sunny	6.0	Dark brown	faint earth	Loamy	27 ± 5.5	96 ± 9.1	123	0.06	Brown	Faint grass	Loamy	7.7 ± 2.1	18 ± 3.4	25.7	0.04	
			2014/5/7	Sunny	15.0	Dark brown	Faint grass	Loamy	130 ± 11	390 ± 19	520	0.08	Blackish brown	faint earth	Loamy	96 ± 12	290 ± 20	386	0.07			
			2014/8/5	Sunny	37.0	Brown	Faint grass	Loamy	130 ± 11	350 ± 18	480	0.08	Dim yellowish brown	Faint grass	Loamy	160 ± 12	410 ± 19	570	0.09			
			2014/11/11	Sunny	15.0	Yellowish brown	Faint grass	Loamy	<5.5 ± 1.5	9.7 ± 2.0	9.7	0.07	Dim yellowish brown	Faint grass	Loamy	120 ± 12	360 ± 21	480	0.07			
	31	Masuda River	Koyama Bridge	Natori City	2015/1/9	Sunny	5.0	Yellowish brown	Faint grass	Loamy	<7.2 ± 2.3	17 ± 2.7	17	0.07	Dark brown	Faint grass	Loamy	73 ± 8.9	300 ± 16	373	0.08	
					2014/5/9	Sunny	21.0	Dim yellowish brown	None	Loamy	340 ± 22	850 ± 36	1,190	0.12	Dim yellowish brown	None	Loamy	410 ± 25	1,200 ± 42	1,610	0.12	
					2014/8/5	Sunny	36.5	Dark brown	faint earth	Loamy	280 ± 18	840 ± 31	1,120	0.11	Dark brown	faint earth	Loamy	290 ± 18	960 ± 34	1,250	0.11	
	32	Bishamon Bridge	Natori City	2014/11/11	Sunny	12.0	Dark brown	faint earth	Loamy	290 ± 22	900 ± 40	1,190	0.12	Dark brown	faint earth	Loamy	280 ± 21	950 ± 40	1,230	0.13		
				2015/1/9	Sunny	7.0	Dark brown	faint earth	Loamy	290 ± 19	900 ± 33	1,190	0.12	Dark brown	faint earth	Loamy	230 ± 17	830 ± 30	1,060	0.11		
				2014/5/9	Sunny	19.0	Yellowish brown	faint earth	Loamy	24 ± 3.3	65 ± 4.6	89	0.07	Dim yellowish brown	Faint grass	Loamy	210 ± 16	650 ± 27	860	0.09		
				2014/8/5	Sunny	32.5	Dim yellowish brown	faint earth	Loamy	36 ± 7.2	140 ± 11	176	0.07	Dim yellowish brown	Faint grass	Loamy	170 ± 12	470 ± 20	640	0.08		
				2014/11/11	Sunny	12.0	Brown	Faint grass	Loamy	40 ± 7.7	97 ± 11	137	0.06	Dark brown	Faint grass	Loamy	530 ± 32	1,600 ± 56	2,130	0.07		
				2015/1/8	Sunny	5.0	Brown	Faint grass	Loamy	17 ± 2.7	51 ± 4.4	68	0.06	Dark brown	Faint grass	Loamy	180 ± 15	610 ± 26	790	0.07		
	33	Abukuma River System	Abukuma River	Marunori Town	2014/4/28	Sunny	20.0	Dim yellowish brown	None	Loamy	450 ± 18	1,200 ± 30	1,650	0.40	Dim brown	None	Loamy	380 ± 16	1,000 ± 27	1,380	0.22	
					2014/5/19	Sunny	19.0	Brown	faint earth	Loamy	450 ± 20	1,300 ± 33	1,750	0.35	Dim yellowish brown	faint earth	Loamy	210 ± 13	610 ± 21	820	0.21	
					2014/6/10	Cloudy	23.0	Blackish brown	Faint grass	Sandy	1,200 ± 31	3,100 ± 52	4,300	0.29	Dim yellowish brown	Faint grass	Loamy	330 ± 16	980 ± 27	1,310	0.22	
2014/7/7					Cloudy	24.0	Blackish brown	Faint grass	Loamy	710 ± 24	2,000 ± 41	2,710	0.32	Dark brown	Faint grass	Loamy	180 ± 11	590 ± 20	770	0.20		
2014/8/4					Sunny	30.0	Dark grayish yellow	Faint grass	Sandy	380 ± 17	1,100 ± 30	1,480	0.25	Dim yellowish brown	Faint grass	Loamy	360 ± 17	950 ± 28	1,310	0.22		
2014/9/4					Cloudy	21.4	Dark brown	None	Sandy	620 ± 23	2,000 ± 42	2,620	0.35	Dark brown	faint earth	Loamy	370 ± 18	1,100 ± 30	1,470	0.20		
34			Marunori Bridge	Marunori Town	2014/10/17	Sunny	19.0	Dark brown	Faint grass	Loamy	610 ± 24	1,900 ± 42	2,510	0.31	Dark brown	Faint grass	Loamy	370 ± 18	1,200 ± 32	1,570	0.21	
					2014/12/8	Sunny	7.0	Dark brown	Faint grass	Sandy	540 ± 24	1,700 ± 43	2,240	0.24	Dark brown	Faint grass	Loamy	230 ± 16	900 ± 31	1,130	0.20	
					2015/1/7	Sunny	2.0	Dark brown	Faint grass	Sandy	370 ± 18	1,300 ± 33	1,670	0.28	Dark brown	Faint grass	Loamy	240 ± 14	750 ± 25	990	0.20	
					2015/2/16	Sunny	6.0	Dark brown	Faint grass	Loamy	430 ± 22	1,500 ± 40	1,930	0.31	Dark brown	Faint grass	Loamy	120 ± 11	400 ± 20	520	0.22	
					2014/4/28	Sunny	23.0	Dark grayish yellow	None	Loamy	47 ± 6.5	160 ± 11	207	0.24	Dim yellowish brown	None	Loamy	180 ± 12	510 ± 19	690	0.14	
					2014/5/19	Sunny	22.0	Dark grayish yellow	Faint grass	Sandy	240 ± 14	630 ± 22	870	0.20	Dim yellowish brown	Faint grass	Sandy	140 ± 10	380 ± 17	520	0.12	
34	Marunori Bridge	Marunori Town	2014/6/10	Cloudy	23.0	Dark brown	Faint grass	Loamy	280 ± 15	750 ± 24	1,030	0.22	Brown	faint earth	Loamy	170 ± 11	420 ± 17	590	0.16			
			2014/7/7	Cloudy	26.0	Dim yellowish brown	Medium grass	Loamy	210 ± 13	690 ± 24	900	0.19	Dark brown	Faint grass	Loamy	120 ± 8.5	330 ± 14	450	0.10			
			2014/8/4	Sunny	31.5	Dim yellowish brown	Faint grass	Sandy	230 ± 14	660 ± 23	890	0.22	Dim yellowish brown	Faint grass	Sandy	190 ± 11	580 ± 20	770	0.16			
			2014/9/4	Cloudy	21.9	Dark brown	Faint grass	Loamy	110 ± 10	430 ± 19	540	0.21	Dark brown	faint earth	Loamy	120 ± 9.2	410 ± 17	530	0.10			
			2014/10/17	Sunny	19.0	Dim yellowish brown	Faint grass	Loamy	140 ± 12	460 ± 20	600	0.21	Dark brown	Faint grass	Loamy	190 ± 11	560 ± 19	750	0.12			
			2014/12/8	Sunny	10.0	Dim yellowish brown	Faint grass	Sandy	190 ± 15	690 ± 28	880	0.22	Dark brown	Faint grass	Loamy	120 ± 9.7	360 ± 18	480	0.12			
34	Marunori Bridge	Marunori Town	2015/1/7	Sunny	5.0	Dim yellowish brown	Faint grass	Sandy	200 ± 13	690 ± 24	890	0.22	Dark brown	Faint grass	Loamy	110 ± 8.7	400 ± 16	510	0.10			
			2015/2/16	Sunny	8.0	Dim yellowish brown	Faint grass	Sandy	190 ± 15	720 ± 28	910	0.21	Dark brown	Faint grass	Loamy	32 ± 5.8	160 ± 12	192	0.08			

# Miyagi River (Surrounding Environment) 4/4

No.	Location			Sampling Date	Weather	Air temperature (°C)	Surrounding Environment(Soil,Air dose)														Remarks	
	Water area	Location	Municipality				Left bank							Right bank								
							Color	Odor	Property	Activity concentration [Bq/kg(dry)]			Air Dose (µSv/h)	Color	Odor	Property	Activity concentration [Bq/kg(dry)]					
										Radioactive cesium							Radioactive cesium					
			Cs-134	Cs-137	Total	Cs-134	Cs-137	Total														
R i v e r s	35	Abukuma River	Higashine Bridge	Kakuda City	2014/4/28	Sunny	18.0	Dim yellowish brown	faint earth	Loamy	250 ± 15	680 ± 25	930	0.10	Dim yellowish	None	Loamy	450 ± 19	1,200 ± 31	1,650	0.29	
					2014/6/10	Cloudy	24.0	Dim yellowish brown	Faint grass	Loamy	220 ± 13	620 ± 22	840	0.22	Brown	Medium grass	Loamy	110 ± 9.3	320 ± 16	430	0.16	
					2014/8/4	Sunny	33.0	Dim yellowish brown	Faint grass	Loamy	450 ± 20	1,300 ± 35	1,750	0.20	Brown	Faint grass	Loamy	81 ± 8.2	240 ± 14	321	0.14	
					2014/10/17	Sunny	17.0	Blackish brown	Faint grass	Loamy	530 ± 24	1,400 ± 42	2,130	0.22	Dim yellowish	Faint grass	Loamy	140 ± 11	390 ± 18	530	0.17	
					2014/12/8	Sunny	8.0	Blackish brown	Faint grass	Loamy	650 ± 30	2,100 ± 55	2,750	0.23	Dark brown	Faint grass	Loamy	110 ± 11	390 ± 20	500	0.17	
					2015/1/7	Sunny	3.0	Blackish brown	Faint grass	Loamy	460 ± 21	1,500 ± 38	1,960	0.24	Dark brown	Faint grass	Loamy	85 ± 8.0	260 ± 14	345	0.16	
		36	Shiroishi River	Before the confluence with Kawaharagoza (Sunaoishi Bridge)	Shiroishi City	2014/4/24	Sunny	20.5	Dark brown	faint earth	Loamy	620 ± 25	1,700 ± 41	2,320	0.13	Brown	Dim yellow	Loamy	410 ± 20	1,100 ± 34	1,510	0.17
						2014/8/1	Sunny	30.0	Dim yellowish brown	faint earth	Loamy	250 ± 17	690 ± 28	940	0.11	Brown	Faint grass	Loamy	460 ± 25	1,400 ± 44	1,860	0.16
						2014/11/10	Sunny	9.0	Brown	Faint grass	Loamy	260 ± 18	880 ± 35	1,140	0.10	Dark brown	Faint grass	Loamy	190 ± 15	610 ± 28	800	0.16
						2015/1/6	Cloudy	4.5	Dark brown	Faint grass	Loamy	380 ± 19	1,200 ± 34	1,580	0.11	Dark brown	Faint grass	Loamy	100 ± 9.7	330 ± 17	430	0.14
						2014/4/24	Sunny	21.5	Dim yellowish brown	faint earth	Sandy	290 ± 16	710 ± 27	1,000	0.17	Dim brown	Faint grass	Loamy	290 ± 16	780 ± 27	1,070	0.17
						2014/8/1	Sunny	33.0	Dim yellowish brown	faint earth	Loamy	340 ± 20	900 ± 34	1,240	0.15	Brown	Faint grass	Loamy	290 ± 19	920 ± 34	1,210	0.13
	37	Saikawa River	Etsubo Bridge	Shiroishi City	2014/11/10	Sunny	16.0	Dark brown	Faint grass	Loamy	260 ± 19	750 ± 32	1,010	0.13	Dark brown	Faint grass	Loamy	210 ± 16	700 ± 29	910	0.13	
					2015/1/6	Cloudy	7.0	Dark brown	Faint grass	Loamy	330 ± 18	1,100 ± 33	1,430	0.13	Dark brown	Faint grass	Loamy	230 ± 15	880 ± 28	1,110	0.12	
					2014/4/24	Sunny	21.0	Brown	faint earth	Loamy	210 ± 15	570 ± 24	780	0.17	Brown	faint earth	Loamy	250 ± 14	640 ± 23	890	0.14	
					2014/8/1	Sunny	31.5	Brown	faint earth	Loamy	250 ± 18	680 ± 30	930	0.13	Dim yellowish	faint earth	Loamy	170 ± 13	600 ± 25	770	0.12	
					2014/11/10	Sunny	18.0	Dark brown	faint earth	Loamy	79 ± 10	270 ± 19	349	0.10	Dark brown	faint earth	Loamy	150 ± 14	520 ± 26	670	0.14	
					2015/1/6	Cloudy	12.0	Dark brown	faint earth	Loamy	88 ± 9.1	380 ± 18	468	0.12	Blackish brown	faint earth	Loamy	450 ± 22	1,500 ± 40	1,950	0.13	
	38	Matsukawa River	Miya-ohashi Bridge	Zao Town	2014/5/19	Sunny	22.5	Dim yellowish orange	faint earth	Loamy	180 ± 12	400 ± 18	580	0.11	Dim yellowish	Faint grass	Loamy	200 ± 13	590 ± 22	790	0.12	
					2014/8/1	Sunny	31.5	Dim yellowish brown	faint earth	Loamy	140 ± 12	380 ± 20	520	0.12	Brown	Faint grass	Loamy	260 ± 17	840 ± 31	1,100	0.13	
					2014/11/10	Sunny	20.0	Brown	faint earth	Loamy	160 ± 14	580 ± 25	740	0.12	Brown	Faint grass	Loamy	160 ± 14	530 ± 25	690	0.11	
					2015/1/6	Cloudy	11.5	Dark brown	faint earth	Loamy	360 ± 17	1,100 ± 31	1,460	0.12	Dark brown	Faint grass	Loamy	240 ± 14	790 ± 26	1,030	0.12	
					2014/5/7	Sunny	21.0	Dark grayish yellow	faint earth	Loamy	230 ± 17	670 ± 30	900	0.12	Dim yellowish	None	Loamy	110 ± 11	280 ± 17	390	0.11	
					2014/8/4	Sunny	33.0	Blackish brown	faint earth	Loamy	140 ± 12	400 ± 20	540	0.08	Dim yellowish	faint earth	Loamy	89 ± 8.4	270 ± 14	359	0.10	
	39	Arakawa River	Niragami Bridge	Murata Town /Ogawara Town	2014/11/10	Sunny	15.0	Blackish brown	faint earth	Loamy	150 ± 15	400 ± 24	550	0.09	Dim yellowish	faint earth	Loamy	110 ± 11	320 ± 18	430	0.10	
					2015/1/7	Sunny	2.5	Blackish brown	faint earth	Loamy	97 ± 11	370 ± 19	467	0.11	Dark grayish	faint earth	Loamy	54 ± 6.5	180 ± 11	234	0.10	
					2014/4/24	Sunny	19.5	Dim yellowish brown	faint earth	Loamy	220 ± 15	660 ± 25	880	0.13	Dark brown	faint earth	Loamy	390 ± 20	1,100 ± 33	1,490	0.16	
					2014/6/10	Sunny	26.0	Blackish brown	Faint grass	Loamy	360 ± 18	970 ± 30	1,330	0.10	Dark brown	Faint grass	Loamy	200 ± 14	580 ± 23	780	0.13	
					2014/8/1	Sunny	29.0	Dark brown	Faint grass	Loamy	440 ± 24	1,300 ± 42	1,740	0.11	Dark brown	Faint grass	Loamy	420 ± 25	1,200 ± 42	1,620	0.12	
					2014/10/10	Sunny	27.0	Dark brown	Faint grass	Loamy	130 ± 13	450 ± 25	580	0.11	Dark brown	Faint grass	Loamy	330 ± 21	1,000 ± 37	1,330	0.13	
	40	Abukuma River System	Shiroishi River	Shirahata Bridge	Shibata Town	2014/12/9	Cloudy	1.5	Dark brown	Faint grass	Loamy	250 ± 18	910 ± 35	1,160	0.12	Dark brown	Faint grass	Loamy	260 ± 18	820 ± 33	1,080	0.14
						2014/5/7	Sunny	7.0	Dark brown	Faint grass	Loamy	84 ± 9.6	340 ± 19	444	0.13	Dark brown	Faint grass	Loamy	290 ± 19	990 ± 33	1,280	0.14
						2014/4/24	Sunny	19.9	Dim yellowish brown	faint earth	Loamy	840 ± 28	2,200 ± 47	3,040	0.25	Dim yellowish	faint earth	Loamy	270 ± 14	790 ± 25	1,060	0.15
						2014/5/19	Sunny	20.0	Dim yellowish brown	Faint grass	Loamy	370 ± 19	1,100 ± 33	1,470	0.27	Dark grayish	Faint grass	Loamy	230 ± 12	610 ± 20	840	0.17
						2014/6/10	Sunny	23.0	Blackish brown	Faint grass	Loamy	320 ± 16	940 ± 27	1,260	0.22	Dim yellowish	Faint grass	Loamy	110 ± 8.5	300 ± 14	410	0.15
						2014/7/7	Sunny	26.0	Dim yellowish brown	Faint grass	Loamy	580 ± 24	1,700 ± 41	2,280	0.18	Dim yellowish	Faint grass	Loamy	190 ± 12	580 ± 20	770	0.12
			41	Tsukinoki-ohashi Bridge	Kakuda City /Shibata Town	2014/8/5	Sunny	37.0	Dark grayish yellow	faint earth	Loamy	430 ± 20	1,200 ± 33	1,630	0.22	Dim yellowish	faint earth	Loamy	300 ± 14	920 ± 25	1,220	0.14
						2014/9/2	Cloudy	24.6	Dark brown	Faint grass	Loamy	420 ± 19	1,300 ± 34	1,720	0.18	Dark brown	faint earth	Loamy	170 ± 11	520 ± 18	690	0.15
						2014/10/10	Sunny	26.0	Dark grayish yellow	Faint grass	Loamy	460 ± 24	1,500 ± 44	1,960	0.21	Brown	Faint grass	Loamy	61 ± 7.9	210 ± 14	271	0.15
						2014/12/9	Sunny	6.0	Dark grayish yellow	Faint grass	Loamy	330 ± 20	1,000 ± 35	1,330	0.18	Brown	Faint grass	Loamy	62 ± 8.1	250 ± 15	312	0.15
						2015/1/8	Sunny	9.0	Dark brown	Faint grass	Loamy	380 ± 21	1,400 ± 40	1,780	0.20	Brown	Faint grass	Loamy	91 ± 8.7	320 ± 16	411	0.15
						2015/2/16	Sunny	11.0	Dark brown	Faint grass	Loamy	360 ± 23	1,400 ± 45	1,760	0.21	Brown	Faint grass	Loamy	100 ± 10	400 ± 19	500	0.15
	42	Abukuma River	Abukuma-ohashi Bridge (Iwanuma)	Iwanuma City/Watari Town	2014/4/25	Sunny	15.0	Dim yellowish brown	None	Sandy	180 ± 11	450 ± 18	630	0.15	Brown	Faint grass	Loamy	230 ± 14	640 ± 24	870	0.17	
					2014/6/10	Cloudy	20.0	Blackish brown	faint earth	Loamy	230 ± 13	680 ± 23	910	0.14	Blackish brown	Faint grass	Loamy	330 ± 18	920 ± 30	1,250	0.14	
					2014/8/5	Sunny	34.0	Dark brown	Faint grass	Sandy	220 ± 14	560 ± 22	780	0.11	Blackish brown	Faint grass	Loamy	230 ± 15	690 ± 26	920	0.12	
					2014/10/10	Sunny	21.0	Dark brown	faint earth	Loamy	180 ± 13	580 ± 24	760	0.13	Dark brown	Faint grass	Loamy	71 ± 9.1	260 ± 16	331	0.12	
					2014/12/9	Sunny	10.0	Dark brown	Faint grass	Loamy	180 ± 14	650 ± 26	830	0.13	Dark brown	Faint grass	Loamy	110 ± 11	330 ± 19	440	0.11	
					2015/1/8	Sunny	4.0	Dark brown	Faint grass	Loamy	120 ± 11	400 ± 19	520	0.13	Dark brown	Faint grass	Loamy	100 ± 9.6	320 ± 17	420	0.11	
43	Offshore of Abukuma River Estuary (Watari-ohashi Bridge)			2014/12/9	Sunny	10.0	Dark brown	Faint grass	Loamy	180 ± 14	650 ± 26	830	0.13	Dark brown	Faint grass	Loamy	110 ± 11	330 ± 19	440	0.11		
				2015/1/8	Sunny	4.0	Dark brown	Faint grass	Loamy	120 ± 11	400 ± 19	520	0.13	Dark brown	Faint grass	Loamy	100 ± 9.6	320 ± 17	420	0.11		

# Miyagi Lakes and Reservoirs (Water)1/3

L a k e s  a n d  R e s e r v o i r s	Location				Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Water										Remarks		
	No.	Water area	Location						Municipality	Water temperature (°C)	Sampling depth (m)	Color	Odor	Secchi disk depth (m)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity (FNU)	Activity concentration(Bq/L)			
			Radioactive cesium																		
				Cs-134		Cs-137															
44	Kurikoma Dam	Dam site	Kurihara City	Surface layer	2014/5/27	Sunny	21.0	23.5	19.4	0.5	Dark grayish bluish green	None	2.8	8.2	1	1.2	<0.59 ± 0.13	<0.59 ± 0.11			
				Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Surface layer	2014/9/3	Sunny	19.0	0.4	17.9	0.0	Colorless transparent	None	>0.4	12.7	2	0.8	<0.76 ± 0.17	<0.53 ± 0.086	Connected only from the surface layer due to snarow		
				Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Surface layer	2014/10/2	Cloudy	19.0	0.3	15.2	0.0	Colorless transparent	None	>0.3	14.7	3	1.7	<0.61 ± 0.14	<0.62 ± 0.13	Connected only from the surface layer due to snarow		
				Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Hanayama Dam	Dam site	Kurihara City	Surface layer	2014/12/15	Sunny	-1.0	0.4	-0.8	0.0	Yellowish pale gray	None	>0.4	15.7	3	1.8	<0.54 ± 0.13	<0.49 ± 0.11	Connected only from the surface layer due to snarow		
				Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Surface layer	2014/5/27	Cloudy	23.0	28.5	19.9	0.5	Greenish gray	None	2.5	4.7	2	1.5	<0.52 ± 0.13	<0.68 ± 0.15			
				Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Surface layer	2014/8/27	Light rain	18.0	20.2	22.0	0.5	Dark grayish yellow green	None	2.0	7.9	2	2.2	<0.61 ± 0.11	<0.56 ± 0.12			
				Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Narugo Dam	Dam site	Osaki City	Surface layer	2014/10/2	Cloudy	19.0	18.4	18.0	0.5	Light grayish greenish yellow	None	0.6	8.6	8	4.2	<0.44 ± 0.096	<0.59 ± 0.10			
				Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Surface layer	2014/12/15	Sunny	-2.0	21.5	4.5	0.5	Grayish yellow green	None	1.2	8.1	4	3.4	<0.56 ± 0.12	<0.59 ± 0.14			
				Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Surface layer	2014/6/2	Sunny	25.9	59.8	22.8	0.5	Dull yellowish green	None	2.5	8.0	2	1.0	<0.50 ± 0.13	<0.55 ± 0.11			
				Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Kitakami River System	Dam site	Osaki City	Surface layer	2014/8/27	Cloudy	19.0	49.8	20.3	0.5	Grayish yellow green	None	1.4	11.3	4	2.4	<0.66 ± 0.14	<0.62 ± 0.13			
				Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Surface layer	2014/10/27	Sunny	17.5	51.4	13.0	0.5	Grayish yellow green	None	1.7	13.7	10	5.9	<0.55 ± 0.14	<0.66 ± 0.12			
				Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Surface layer	2014/12/12	Sunny	3.0	58.9	5.4	0.5	Grayish yellow green	None	2.8	9.2	2	1.5	<0.61 ± 0.13	<0.57 ± 0.12			
				Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lake Izunuma	Lake exit	Tome City	Surface layer	2014/5/29	Sunny	28.0	1.0	27.3	0.0	Deep yellow green	rain	0.4	15.1	26	33	<0.71 ± 0.13	<0.62 ± 0.16	Connected only from the surface layer due to snarow			
			Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
			Surface layer	2014/10/8	Sunny	20.0	1.2	18.0	0.0	Grayish yellow	rain	0.7	13.8	21	11	<0.63 ± 0.13	<0.50 ± 0.094	Connected only from the surface layer due to snarow			
			Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
			Surface layer	2014/5/29	Sunny	31.0	1.2	25.6	0.0	Grayish yellow green	None	1.2	15.0	3	2.2	<0.66 ± 0.13	<0.56 ± 0.13	Connected only from the surface layer due to snarow			
			Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lake Naganuma	Lake exit	Tome City	Surface layer	2014/9/3	Sunny	25.2	1.1	23.8	0.0	Light grayish yellow green	None	0.8	16.1	4	2.7	<0.73 ± 0.16	<0.86 ± 0.16	Connected only from the surface layer due to snarow			
			Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
			Surface layer	2014/10/8	Sunny	22.0	1.3	20.4	0.0	Grayish greenish yellow	None	0.3	15.0	15	11	<0.60 ± 0.11	<0.71 ± 0.16	Connected only from the surface layer due to snarow			
			Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
			Surface layer	2014/12/18	Light snow	1.0	2.0	1.0	0.5	Dark grayish greenish yellow	None	0.8	15.9	5	4.5	<0.52 ± 0.12	<0.58 ± 0.14				
			Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Shukunosawata meike Pond	Pond exit	Kurihara City	Surface layer	2014/5/29	Sunny	26.0	0.7	24.9	0.0	Light grayish yellow green	rain	>0.7	10.0	2	1.2	<0.61 ± 0.13	<0.51 ± 0.078	Connected only from the surface layer due to snarow			
			Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
			Surface layer	2014/8/26	Cloudy	19.0	0.9	25.6	0.0	Yellowish pale gray	rain	0.9	10.4	2	0.6	<0.45 ± 0.095	<0.55 ± 0.13	Connected only from the surface layer due to snarow			
			Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
			Surface layer	2014/10/8	Sunny	20.5	1.0	20.0	0.0	Light grayish yellow	None	>1.0	10.0	2	2.9	<0.64 ± 0.15	<0.66 ± 0.12	Connected only from the surface layer due to snarow			
			Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naruse River System	Futatsushii Dam	Dam site	Kami Town	Surface layer	2014/6/5	Sunny	23.0	50.7	20.0	0.5	Dark grayish bluish green	None	6.4	5.5	<1	0.4	<0.42 ± 0.091	<0.52 ± 0.10			
				Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Surface layer	2014/8/28	Light rain	18.0	45.8	20.8	0.5	Dark grayish yellow green	None	2.8	5.8	3	1.9	<0.56 ± 0.12	<0.60 ± 0.11			
				Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Surface layer	2014/10/9	Sunny	21.0	45.4	17.8	0.5	Grayish yellow green	None	4.2	6.2	<1	0.6	<0.61 ± 0.14	<0.47 ± 0.12			
				Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Surface layer	2015/12/11	Cloudy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Unable to collect samples due to road closure and			
Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Unable to collect samples due to road closure and			









# Miyagi Lakes and Reservoirs (Sediment) 2/2

Location					Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Sediment													Activity concentration [Bq/kg(dry)]			Remarks			
No.	Water area	Locaton		Municipality					Sediment temperature (°C)	Sample length (cm)	Color	Odor	Grain size distribution(%)							Sediment content (%)	Density (g/cm <sup>3</sup> )	Property	Radioactive cesium					
		Coarse gravel	Medium gravel										Fine gravel	Coarse sand	Medium sand	Fine sand	Silt	Clay	Cs-134				Cs-137	Total				
L a k e s  a n d  R e s e r v o i r s	58	Lake Amanuma		Lake exit	Sendai City	2014/6/4	Sunny	26.0	0.3	24.6	5	Faint hydrogen sulfide	medium faint	0.0	0.5	12.6	33.3	43.3	7.0	0.1	3.2	79.2	2,659	Sand/gravel	320 ± 12	870 ± 21	1,190	
						2014/8/26	Light rain	23.0	0.4	22.5	5	Faint hydrogen sulfide	faint	0.0	0.0	7.8	23.2	46.4	14.2	0.6	7.9	75.0	2,632	Sand/silt	420 ± 15	1,300 ± 27	1,720	
						2014/10/7	Sunny	19.0	0.4	18.2	5	Faint hydrogen sulfide	faint	0.0	0.0	6.3	18.9	47.9	21.7	2.7	2.5	79.8	2,648	Sand/silt	380 ± 11	1,200 ± 20	1,580	
		Natori River System		Kamafusa Dam	Dam site	Kawasaki Town	2014/12/17	Cloudy	0.0	0.4	3.0	5	Faint hydrogen sulfide	faint	0.0	0.0	15.3	31.3	44.1	7.7	0.1	1.6	79.8	2,644	Sand/silt	220 ± 8.9	830 ± 17	1,050
							2014/6/3	Sunny	23.0	23.6	13.9	5	Grayish olive	faint	0.0	0.0	0.1	0.2	0.3	0.8	39.1	59.6	28.9	2,503	Silt	120 ± 16	310 ± 26	430
							2014/8/25	Sunny	30.0	25.5	20.2	5	Grayish olive	faint	0.0	0.0	0.0	0.0	0.2	0.2	37.3	62.2	25.6	2,506	Silt	160 ± 20	370 ± 30	530
	60		Tatumizu Dam	Dam site	Natori City	2014/10/15	Sunny	18.0	26.9	14.0	5	Grayish olive	faint	0.0	0.0	0.0	0.1	0.2	0.2	34.8	64.7	25.2	2,501	Silt	91 ± 14	340 ± 24	431	
						2014/12/10	Sunny	6.0	30.3	7.0	5	Grayish olive	faint	0.0	0.0	0.0	0.0	0.1	0.0	35.8	66.0	21.6	2,487	Silt	95 ± 21	300 ± 30	395	
						2014/6/4	Sunny	27.0	0.8	23.8	3	Dark brown	faint	0.0	0.0	24.6	21.8	22.9	14.0	10.0	6.7	60.2	2,617	Sand/gravel	79 ± 8.0	250 ± 14	329	
	61	Murata Dam		Dam site	Murata Town	2014/10/7	Sunny	17.0	0.9	20.0	5	Dark brown	faint	0.0	0.0	2.2	2.6	9.7	32.5	32.1	20.8	76.2	2,354	Sand/gravel	20 ± 2.7	59 ± 4.0	79	
						2014/5/28	Sunny	23.0	0.4	20.3	3	Dim yellowish brown	faint	0.0	0.0	10.2	17.2	34.3	20.7	8.5	9.2	65.0	2,562	Sand/silt	69 ± 6.5	190 ± 10	259	
						2014/10/1	Sunny	21.5	0.7	20.0	5	Faint hydrogen sulfide	faint	0.0	0.1	22.1	31.3	32.0	9.0	2.4	3.1	76.2	2,603	Sand/gravel	27 ± 4.3	94 ± 7.2	121	
		Abukuma River System		Kawarago Dam	Dam site	Shiroishi City	2014/5/28	Sunny	24.0	1.0	17.5	3	Brown	None faint	0.0	0.0	30.2	27.1	19.2	8.6	7.0	7.9	72.1	2,610	Gravel/sand	160 ± 8.2	470 ± 14	630
							2014/8/29	Cloudy	22.0	1.0	20.7	3	Olive brown	faint	0.0	0.0	7.4	23.3	30.2	22.4	6.4	10.3	55.4	2,570	Sand/silt	110 ± 10	320 ± 16	430
							2014/10/1	Sunny	18.0	0.8	16.8	3	Dim yellowish brown	None faint	1.7	1.1	8.4	14.8	26.4	15.6	12.6	19.3	69.6	2,703	Silt/sand	76 ± 6.9	230 ± 12	306
	63		Shichikasyuku Dam	Dam site	Shichikashu Town	2014/12/19	Sunny	2.0	0.3	5.5	3	Faint hydrogen sulfide	faint	0.0	0.0	0.0	0.1	5.0	34.9	44.7	15.3	26.5	2,372	Silt	82 ± 13	270 ± 21	352	
						2014/6/3	Sunny	27.5	33.1	10.9	5	Grayish olive	faint	0.0	0.0	0.0	0.0	0.1	0.4	22.8	76.7	28.7	2,571	Silt	450 ± 30	1,300 ± 52	1,750	
						2014/8/29	Sunny	24.0	29.1	11.0	5	Dim brown Olive gray	faint	0.0	0.0	0.0	0.0	0.1	0.5	28.5	70.9	30.8	2,554	Silt	520 ± 33	1,700 ± 57	2,220	
64		Lake Bagyunuma		Lake exit	Shiroishi City	2014/10/30	Sunny	18.0	26.2	11.0	5	Dim brown Olive gray	faint	0.0	0.0	0.0	0.0	0.4	25.4	74.2	28.9	2,569	Silt	460 ± 31	1,500 ± 56	1,960		
						2014/12/10	Sunny	7.0	28.3	8.0	5	Dim brown Olive gray	faint	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.5	73.5	30.6	2,575	Silt	400 ± 27	1,300 ± 50	1,700
						2014/5/28	Sunny	29.0	1.0	26.0	3	Faint hydrogen sulfide	faint	0.0	0.0	29.6	30.3	24.1	8.3	1.5	6.3	84.6	2,676	Gravel/sand	50 ± 4.8	110 ± 7.2	160	
						2014/9/4	Cloudy	21.6	0.6	23.5	5	Blackish brown	faint	0.0	3.8	9.5	8.7	11.9	8.9	24.1	33.1	35.2	2,338	Silt/sand	130 ± 15	430 ± 27	560	
						2014/10/1	Sunny	20.0	0.2	22.8	3	Dark brown	faint	0.0	0.0	2.6	3.5	8.5	11.8	31.1	42.6	30.3	2,253	Silt/sand	190 ± 17	640 ± 29	830	
						2014/12/19	Sunny	3.0	1.2	1.0	3	Blackish brown	None	0.0	0.0	2.6	32.3	28.4	26.8	6.0	0.4	3.6	79.8	2,701	Sand/gravel	55 ± 4.7	160 ± 7.3	215

# Miyagi Lakes and Reservoirs (Surrounding Environment) 1/2

Location					Sampling Date	Weather	Air temperature (°C)	Surrounding Environment (Soil, Air dose)								Remarks	
								Soil						Air Dose (μSv/h)			
								General items									
								Color	Odor	Property	Activity concentration [Bq/kg(dry)]						
Radioactive cesium		Total															
Cs-134			Cs-137		Total												
L a k e s  a n d  R e s e r v o i r s	44	Kurikoma Dam	Dam site	Kurihara City		2014/5/27	Sunny	21.0	Dark brown	Medium grass	Loamy	210 ± 13	640 ± 22	850	0.11		
					2014/9/3	Sunny	19.0	Dark brown	Faint grass	Loamy	170 ± 15	470 ± 24	640	0.13			
					2014/10/2	Cloudy	19.0	Dim yellowish	Faint grass	Loamy	240 ± 16	770 ± 28	1,010	0.10			
					2014/12/15	Sunny	-1.0	-	-	-	-	-	-	-	-	Unable to collect samples due to snow on the ground	
					2014/5/27	Cloudy	23.0	Dim yellowish	Faint grass	Loamy	340 ± 15	990 ± 26	1,330	0.15			
					2014/8/27	Light rain	18.0	Dark brown	Faint grass	Loamy	320 ± 19	870 ± 31	1,190	0.15			
		45	Hanayama Dam		Dam site	Kurihara City	2014/10/2	Cloudy	19.0	Dark brown	Faint grass	Loamy	400 ± 18	1,400 ± 34	1,800	0.16	
							2014/12/15	Sunny	-2.0	-	-	-	-	-	-	-	Unable to collect samples due to snow on the ground
							2014/6/2	Sunny	25.9	Dark grayish	faint earth	Loamy	120 ± 11	380 ± 19	500	0.09	
							2014/8/27	Cloudy	19.0	Blackish brown	faint earth	Loamy	210 ± 17	710 ± 31	920	0.09	
							2014/10/27	Sunny	17.5	Dark brown	faint earth	Loamy	170 ± 15	520 ± 25	690	0.08	
							2014/12/12	Sunny	3.0	-	-	-	-	-	-	-	-
	46	Narugo Dam	Dam site	Osaki City	2014/5/29	Sunny	28.0	Dark brown	faint earth	Loamy	40 ± 7.0	130 ± 12	170	0.06			
					2014/10/8	Sunny	20.0	Dark brown	faint earth	Loamy	43 ± 8.6	120 ± 13	163	0.06			
					2014/5/29	Sunny	31.0	Dark brown	Faint grass	Loamy	94 ± 9.2	290 ± 16	384	0.05			
					2014/9/3	Sunny	25.2	Dark brown	Faint grass	Loamy	68 ± 10	230 ± 18	298	0.04			
					2014/10/8	Sunny	22.0	Dark brown	Faint grass	Loamy	88 ± 10	290 ± 19	378	0.05			
					2014/12/18	Light snow	1.0	-	-	-	-	-	-	-	-	Unable to collect samples due to snow on the ground	
	47	Lake Izunuma	Lake exit	Tome City	2014/5/29	Sunny	26.0	Brown	faint earth	Loamy	69 ± 9.5	250 ± 17	319	0.04			
					2014/8/26	Cloudy	19.0	Dark redish	Faint grass	Loamy	75 ± 9.1	190 ± 15	265	0.06			
					2014/10/8	Sunny	20.5	Brown	Faint grass	Loamy	41 ± 8.9	160 ± 15	201	0.06			
					2014/12/18	Light snow	3.0	-	-	-	-	-	-	-	-	Unable to collect samples due to snow on the ground	
					2014/6/5	Sunny	23.0	Dim yellowish	faint earth	Loamy	70 ± 9.2	180 ± 15	250	0.06			
					2014/8/28	Light rain	18.0	Dim yellowish	faint earth	Loamy	46 ± 9.0	150 ± 15	196	0.07			
	48	Lake Naganuma	Lake exit	Tome City	2014/10/9	Sunny	21.0	Dim yellowish	faint earth	Loamy	18 ± 5.4	71 ± 10	89	0.07			
					2015/12/11	Cloudy	-	-	-	-	-	-	-	-	Unable to collect samples due to road closure and snow.		
					2014/6/2	Sunny	24.0	Dark brown	faint earth	Loamy	66 ± 8.7	160 ± 13	226	0.06			
					2014/8/28	Sunny	22.0	Blackish brown	faint earth	Loamy	68 ± 9.7	220 ± 17	288	0.06			
2014/10/27					Cloudy	12.0	Blackish brown	faint earth	Loamy	71 ± 10	240 ± 17	311	0.05				
2014/12/12					Cloudy	1.0	-	-	-	-	-	-	-	-	Unable to collect samples due to snow on the ground		
49	Shukunosawata meike Pond	Pond exit	Kurihara City	2014/5/30	Sunny	29.0	Dark brown	faint earth	Loamy	120 ± 9.2	270 ± 14	390	0.07				
				2014/8/26	Light rain	20.0	Blackish brown	Faint grass	Loamy	92 ± 11	300 ± 19	392	0.06				
				2014/10/3	Sunny	22.5	Dark brown	Faint grass	Loamy	63 ± 7.0	220 ± 13	283	0.06				
				2014/12/16	Light snow	-1.0	-	-	-	-	-	-	-	-	Unable to collect samples due to snow on the ground		
				2014/5/30	Sunny	30.0	Blackish brown	Faint grass	Clay-loamy	92 ± 11	290 ± 18	382	0.05				
				2014/10/3	Sunny	23.0	Blackish brown	Faint grass	Clay-loamy	160 ± 16	450 ± 27	610	0.06				
50	Futatsuishi Dam	Dam site	Kami Town	2014/5/30	Sunny	29.0	Dark brown	faint earth	Loamy	120 ± 9.2	270 ± 14	390	0.07				
				2014/8/26	Light rain	20.0	Blackish brown	Faint grass	Loamy	92 ± 11	300 ± 19	392	0.06				
				2014/10/3	Sunny	22.5	Dark brown	Faint grass	Loamy	63 ± 7.0	220 ± 13	283	0.06				
				2014/12/16	Light snow	-1.0	-	-	-	-	-	-	-	-	Unable to collect samples due to snow on the ground		
				2014/5/30	Sunny	30.0	Blackish brown	Faint grass	Clay-loamy	92 ± 11	290 ± 18	382	0.05				
				2014/10/3	Sunny	23.0	Blackish brown	Faint grass	Clay-loamy	160 ± 16	450 ± 27	610	0.06				
51	Urushizawa Dam	Dam site	Kami Town	2014/5/30	Sunny	29.0	Dark brown	faint earth	Loamy	120 ± 9.2	270 ± 14	390	0.07				
				2014/8/26	Light rain	20.0	Blackish brown	Faint grass	Loamy	92 ± 11	300 ± 19	392	0.06				
				2014/10/3	Sunny	22.5	Dark brown	Faint grass	Loamy	63 ± 7.0	220 ± 13	283	0.06				
				2014/12/16	Light snow	-1.0	-	-	-	-	-	-	-	-	Unable to collect samples due to snow on the ground		
				2014/5/30	Sunny	30.0	Blackish brown	Faint grass	Clay-loamy	92 ± 11	290 ± 18	382	0.05				
				2014/10/3	Sunny	23.0	Blackish brown	Faint grass	Clay-loamy	160 ± 16	450 ± 27	610	0.06				
52	Minamikawa Dam	Dam site	Taiwa Town	2014/5/30	Sunny	29.0	Dark brown	faint earth	Loamy	120 ± 9.2	270 ± 14	390	0.07				
				2014/8/26	Light rain	20.0	Blackish brown	Faint grass	Loamy	92 ± 11	300 ± 19	392	0.06				
				2014/10/3	Sunny	22.5	Dark brown	Faint grass	Loamy	63 ± 7.0	220 ± 13	283	0.06				
				2014/12/16	Light snow	-1.0	-	-	-	-	-	-	-	-	Unable to collect samples due to snow on the ground		
				2014/5/30	Sunny	30.0	Blackish brown	Faint grass	Clay-loamy	92 ± 11	290 ± 18	382	0.05				
				2014/10/3	Sunny	23.0	Blackish brown	Faint grass	Clay-loamy	160 ± 16	450 ± 27	610	0.06				
53	Miyatoko Dam	Dam site	Taiwa Town	2014/5/30	Sunny	30.0	Blackish brown	Faint grass	Clay-loamy	92 ± 11	290 ± 18	382	0.05				
				2014/10/3	Sunny	23.0	Blackish brown	Faint grass	Clay-loamy	160 ± 16	450 ± 27	610	0.06				

# Miyagi Lakes and Reservoirs (Surrounding Environment) 2/2

Location				Sampling Date	Weather	Air temperature (°C)	Surrounding Environment (Soil, Air dose)							Remarks	
							Soil			Air Dose (μSv/h)					
No.	Water area	Location	Municipality	Color	Odor	Property	Activity concentration [Bq/kg(dry)]			Air Dose (μSv/h)					
							Radioactive cesium								
							Cs-134	Cs-137	Total						
L a k e s  a n d  R e s e r v o i r s	54	Sunaoshi River System	Sonoseki Dam	Dam site	Rifu Town	2014/6/4	Sunny	27.0	Dim yellowish	faint earth	Loamy	46 ± 7.5	160 ± 13	206	0.07
						2014/8/26	Cloudy	23.0	Dim yellowish	faint earth	Loamy	71 ± 11	270 ± 19	341	0.06
						2014/10/3	Sunny	23.5	Dim yellowish	faint earth	Loamy	48 ± 7.8	190 ± 14	238	0.07
						2014/12/17	Light snow	1.0	Dim yellowish	faint earth	Loamy	23 ± 5.1	65 ± 8.2	88	0.07
	55	Nanakita River System	Nanakita Dam	Dam site	Sendai City	2014/5/26	Sunny	22.0	Blackish brown	faint earth	Loamy	33 ± 7.8	82 ± 12	115	0.05
						2014/9/4	Cloudy	23.2	Blackish brown	faint earth	Loamy	27 ± 7.8	100 ± 14	127	0.05
						2014/10/16	Light rain	14.0	Dark brown	faint earth	Loamy	39 ± 10	170 ± 16	209	0.05
						2014/12/16	Light snow	0.0	-	-	-	-	-	-	-
	56	Marutazawatameike Pond	Pond exit	Sendai City	2014/6/4	Sunny	24.5	Dim yellowish	faint earth	Loamy	140 ± 11	340 ± 18	480	0.05	
					2014/9/4	Cloudy	23.0	Blackish brown	faint earth	Loamy	130 ± 15	460 ± 28	590	0.05	
					2014/10/7	Sunny	21.0	Dark brown	faint earth	Loamy	74 ± 7.9	220 ± 13	294	0.05	
					2014/12/17	Light snow	0.0	Dark brown	Faint grass	Loamy	51 ± 6.6	140 ± 11	191	0.07	
	57	Natori River System	Okura Dam	Dam site	Sendai City	2014/5/26	Cloudy	17.0	Blackish brown	Faint grass	Loamy	73 ± 10	180 ± 16	253	0.04
						2014/9/4	Cloudy	23.0	Blackish brown	Faint grass	Loamy	64 ± 12	220 ± 19	284	0.04
						2014/10/16	Cloudy	14.0	Blackish brown	faint earth	Loamy	72 ± 12	210 ± 18	282	0.04
						2014/12/16	Light snow	0.0	-	-	-	-	-	-	-
	58	Lake Amanuma	Lake exit	Sendai City	2014/6/4	Sunny	26.0	Dim yellowish	faint earth	Loamy	80 ± 8.0	210 ± 12	290	0.07	
					2014/8/26	Light rain	23.0	Dim yellowish	Faint grass	Loamy	39 ± 7.2	170 ± 14	209	0.07	
					2014/10/7	Sunny	19.0	Dim yellowish	Faint grass	Loamy	91 ± 8.6	260 ± 15	351	0.08	
					2014/12/17	Cloudy	0.0	Dim yellowish	Faint grass	Loamy	45 ± 6.1	140 ± 10	185	0.08	
59	Natori River System	Kamafusa Dam	Dam site	Kawasaki Town	2014/6/3	Sunny	23.0	Brown	Faint grass	Loamy	100 ± 10	300 ± 17	400	0.07	
					2014/8/25	Sunny	30.0	Blackish brown	faint earth	Loamy	92 ± 12	280 ± 20	372	0.05	
					2014/10/15	Sunny	18.0	Blackish brown	faint earth	Loamy	66 ± 9.1	230 ± 16	296	0.05	
					2014/12/10	Sunny	6.0	Blackish brown	faint earth	Loamy	89 ± 9.9	300 ± 18	389	0.06	
60	Natori River System	Tarumizu Dam	Dam site	Natori City	2014/6/4	Sunny	27.0	Brown	faint earth	Loamy	150 ± 11	380 ± 18	530	0.09	
					2014/10/7	Sunny	17.0	Dark brown	Faint grass	Loamy	160 ± 12	460 ± 20	620	0.08	
					2014/5/28	Sunny	23.0	Blackish brown	Medium grass	Loamy	99 ± 11	270 ± 18	369	0.08	
					2014/10/1	Sunny	21.5	Blackish brown	Faint grass	Loamy	210 ± 16	790 ± 31	1,000	0.08	
61	Murata Dam	Dam site	Murata Town	2014/5/28	Sunny	23.0	Blackish brown	Medium grass	Loamy	99 ± 11	270 ± 18	369	0.08		
				2014/10/1	Sunny	21.5	Blackish brown	Faint grass	Loamy	210 ± 16	790 ± 31	1,000	0.08		
				2014/5/28	Sunny	24.0	Dim yellowish	faint earth	Loamy	610 ± 23	1,800 ± 40	2,410	0.08		
				2014/8/29	Cloudy	22.0	Dim yellowish	Faint grass	Loamy	55 ± 8.4	200 ± 15	255	0.09		
62	Abukuma River System	Kawarago Dam	Dam site	Shiroishi City	2014/10/1	Sunny	18.0	Dim yellowish	Faint grass	Loamy	390 ± 18	1,300 ± 34	1,690	0.09	
					2014/12/19	Sunny	2.0	-	-	-	-	-	-	-	Unable to collect samples due to snow on the ground
					2014/6/3	Sunny	27.5	Brown	faint earth	Loamy	450 ± 19	1,100 ± 31	1,550	0.21	
					2014/8/29	Sunny	24.0	Dim yellowish	Faint grass	Loamy	230 ± 16	660 ± 27	890	0.19	
63	Abukuma River System	Shichikasyuku Dam	Dam site	Shichikashuku Town	2014/10/30	Sunny	18.0	Dark brown	Faint grass	Loamy	520 ± 27	1,800 ± 51	2,320	0.16	
					2014/12/10	Sunny	7.0	Dark brown	Faint grass	Loamy	160 ± 11	510 ± 20	670	0.17	
					2014/5/28	Sunny	29.0	Dark brown	Medium grass	Loamy	770 ± 27	2,100 ± 46	2,870	0.26	
					2014/9/4	Cloudy	21.6	Blackish brown	faint earth	Loamy	1,000 ± 35	3,300 ± 64	4,300	0.26	
64	Lake Bagyunuma	Lake exit	Shiroishi City	2014/10/1	Sunny	20.0	Dim yellowish	Faint grass	Loamy	1,200 ± 29	3,300 ± 51	4,500	0.31		
				2014/12/19	Sunny	3.0	-	-	-	-	-	-	-	Unable to collect samples due to snow on the ground	

# Miyagi Coastal (Water) 1/2

Location				Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Water										Remarks
No.	Water area							Water temperature (°C)	Sampling depth (m)	Color	Odor	Secchi disk depth (m)	Salinity (‰)	SS (mg/L)	Turbidity (FNU)	Activity concentration(Bq/L) Radioactive cesium		
												Cs-134	Cs-137					
65	Kesennuma Bay (B)	Offshore of Hachigasaki	Surface layer	2014/5/16	Sunny	20.2	18.1	11.1	0.5	Dark grayish yellowish green	None	3.7	28.2	2	1.7	<0.53 ± 0.12	<0.63 ± 0.10	
			Deep layer					5.6	17.1	-	None		29.6	6	1.9	<0.55 ± 0.11	<0.52 ± 0.087	
			Surface layer	2014/8/22	Cloudy	25.3	18.1	22.7	0.5	Grayish yellow green	None	3.8	26.2	9	1.7	<0.60 ± 0.14	<0.60 ± 0.11	
			Deep layer					19.9	17.1	-	None		29.8	2	0.4	<0.58 ± 0.12	<0.52 ± 0.12	
			Surface layer	2014/11/13	Sunny	11.0	18.8	13.9	0.5	Dark grayish yellowish green	None	4.9	29.1	3	0.7	<0.50 ± 0.092	<0.52 ± 0.10	
			Deep layer					15.1	17.8	-	None		30.3	6	1.1	<0.55 ± 0.10	<0.41 ± 0.086	
66	Kesennuma Bay (C)	Offshore of Oshimakita	Surface layer	2015/2/11	Sunny	-1.3	18.0	6.2	0.5	Dark grayish yellowish green	None	6.8	30.0	2	0.6	<0.54 ± 0.11	<0.45 ± 0.092	
			Deep layer					7.7	17.0	-	None		30.7	2	0.6	<0.65 ± 0.14	<0.41 ± 0.065	
			Surface layer	2014/5/16	Sunny	19.6	38.3	11.6	0.5	Dark grayish yellowish green	None	3.8	27.1	4	1.8	<0.61 ± 0.14	<0.68 ± 0.16	
			Deep layer					5.0	37.3	-	None		29.6	3	0.8	<0.64 ± 0.13	<0.85 ± 0.17	
			Surface layer	2014/8/22	Cloudy	25.4	38.0	22.5	0.5	Dark grayish yellow green	None	4.3	23.9	2	1.3	<0.78 ± 0.16	<0.85 ± 0.17	
			Deep layer					19.2	37.0	-	None		30.0	4	0.9	<0.70 ± 0.16	<0.62 ± 0.11	
67	Offshore of Tsuyagawa River Estuary	Offshore of Tsuyagawa River Estuary	Surface layer	2014/11/13	Sunny	10.4	38.7	13.8	0.5	Dark grayish yellow green	None	5.2	28.3	4	1.0	<0.62 ± 0.13	<0.55 ± 0.12	
			Deep layer					15.0	37.7	-	None		30.3	5	1.0	<0.67 ± 0.15	<0.49 ± 0.089	
			Surface layer	2015/2/11	Sunny	-1.5	37.5	5.9	0.5	Dark grayish blue green	None	11.5	30.1	3	0.5	<0.67 ± 0.14	<0.58 ± 0.12	
			Deep layer					7.8	36.5	-	None		30.6	4	0.4	<0.54 ± 0.13	<0.52 ± 0.12	
			Surface layer	2014/5/16	Sunny	19.2	12.1	8.1	0.5	Grayish yellowish green	None	3.6	29.0	4	1.5	<0.59 ± 0.12	<0.43 ± 0.084	
			Deep layer					6.0	11.1	-	None		29.6	22	6.0	<0.71 ± 0.13	<0.52 ± 0.11	
68	All other neighboring sea areas	Oppa Bay (Jyusanhama Beach)	Surface layer	2014/11/29	Light rain	11.8	11.5	13.3	0.5	Grayish yellow green	None	2.1	29.9	7	4.8	<0.58 ± 0.13	<0.55 ± 0.084	
			Deep layer					13.4	10.5	-	None		30.2	10	4.5	<0.60 ± 0.14	<0.55 ± 0.11	
			Surface layer	2014/5/20	Sunny	16.4	17.1	11.9	0.5	Grayish yellow green	None	3.0	18.3	4	1.9	<0.65 ± 0.14	<0.76 ± 0.14	
			Deep layer					6.9	16.1	-	None		30.0	5	0.9	<0.73 ± 0.12	<0.68 ± 0.14	
			Surface layer	2014/8/18	Sunny	26.1	18.1	20.8	0.5	Light grayish yellow	None	1.0	21.5	10	2.2	<0.58 ± 0.11	<0.62 ± 0.12	
			Deep layer					20.1	17.1	-	None		33.4	3	<0.1	<0.64 ± 0.14	<0.75 ± 0.14	
69	Neighboring sea area of Ishinomaki (C)	Lake Mangokuura , M-6 (center)	Surface layer	2014/11/6	Sunny	18.0	19.2	15.5	0.5	Dark grayish yellow green	None	5.0	28.8	4	1.0	<0.63 ± 0.15	<0.55 ± 0.11	
			Deep layer					16.3	18.2	-	None		33.8	13	0.7	<0.68 ± 0.16	<0.65 ± 0.14	
			Surface layer	2015/2/3	Sunny	4.9	17.5	8.3	0.5	Grayish green	None	4.1	33.7	2	1.2	<0.62 ± 0.12	<0.63 ± 0.13	
			Deep layer					8.6	16.5	-	None		33.9	4	1.7	<0.48 ± 0.091	<0.52 ± 0.10	
			Surface layer	2014/5/9	Sunny	13.9	3.4	15.5	0.5	Grayish yellow green	None	2.6	27.5	3	1.6	<0.64 ± 0.14	<0.50 ± 0.12	
			Deep layer					15.5	2.4	-	None		27.6	4	2.0	<0.69 ± 0.14	<0.71 ± 0.16	
70	Neighboring sea area of Ishinomaki (B-3)	Offshore of Kitakami River Estuary	Surface layer	2014/8/6	Sunny	32.3	3.5	28.9	0.5	Grayish yellow green	None	2.5	30.9	3	0.8	<0.75 ± 0.17	<0.80 ± 0.15	
			Deep layer					26.9	2.5	-	None		30.5	4	0.7	<0.68 ± 0.15	<0.68 ± 0.16	
			Surface layer	2014/11/20	Cloudy	11.5	3.4	12.7	0.5	Dark grayish yellow green	None	>3.4	33.2	3	0.7	<0.63 ± 0.14	<0.48 ± 0.12	
			Deep layer					12.3	2.4	-	None		33.2	3	0.7	<0.63 ± 0.13	<0.65 ± 0.11	
			Surface layer	2015/2/10	Sunny	2.2	3.4	5.1	0.5	Dark grayish green	None	>3.4	32.0	4	1.9	<0.53 ± 0.13	<0.72 ± 0.13	
			Deep layer					5.2	2.4	-	None		32.1	4	1.8	<0.60 ± 0.13	<0.58 ± 0.14	
71	Neighboring sea area of Ishinomaki (C)	Offshore of Naruse	Surface layer	2014/5/28	Sunny	22.5	13.7	14.9	0.5	Grayish reddish yellow	None	0.8	15.8	30	5.3	<0.58 ± 0.11	<0.66 ± 0.15	
			Deep layer					14.1	6.0	-	None		30.2	6	1.0	<0.58 ± 0.12	<0.75 ± 0.13	
			Surface layer	2014/8/7	Sunny	30.0	8.1	27.9	0.5	Dark grayish greenish yellow	None	1.1	12.4	2	1.8	<0.62 ± 0.12	<0.63 ± 0.12	
			Deep layer					26.7	7.1	-	None		27.5	5	1.0	<0.65 ± 0.13	<0.80 ± 0.20	
			Surface layer	2014/11/11	Cloudy	8.1	8.0	15.4	0.5	Grayish yellow green	None	3.0	26.0	4	3.0	<0.47 ± 0.11	<0.62 ± 0.11	
			Deep layer					16.0	7.0	-	None		29.8	4	3.1	<0.67 ± 0.14	<0.75 ± 0.15	







Figure 3.5.3 Survey Locations (Miyagi Prefecture)