

Nuclides Analysis Result of the Radioactive Materials in the Seawater < Offshore of Miyagi Prefecture 1/2 >

(Data summarized on April 5)

Place of Sampling (Place No.)	Offshore of Minamisanriku (T-MG0)						Ishinomaki Bay (T-MG1)						Density Limit Specified by the Reactor Regulation (Bq/L)
	Upper Layer		Middle Layer		Lower Layer		Upper Layer		Middle Layer		Lower Layer		
Time of Sampling	Jan 29, 2013 9:30 AM		Jan 29, 2013 9:53 AM		Jan 29, 2013 9:46 AM		Jan 29, 2013 11:04 AM		Jan 29, 2013 10:59 AM		Jan 29, 2013 10:56 AM		(The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
Cs-134 (Approx. 2 years)	ND	-	ND	-	ND	-	0.0056	0.00	0.0038	0.00	0.0047	0.00	
Cs-137 (Approx. 30 years)	0.0029	0.00	0.0030	0.00	0.0026	0.00	0.0093	0.00	0.0090	0.00	0.0082	0.00	90

Place of Sampling (Place No.)	Offshore of Kinkasan East (T-MG2)						Offshore of Kinkasan South (T-MG3)						Density Limit Specified by the Reactor Regulation (Bq/L)
	Upper Layer		Middle Layer		Lower Layer		Upper Layer		Middle Layer		Lower Layer		
Time of Sampling	Jan 29, 2013 8:12 AM		Jan 29, 2013 8:28 AM		Jan 29, 2013 8:04 AM		Jan 29, 2013 9:13 AM		Jan 29, 2013 9:25 AM		Jan 29, 2013 9:09 AM		(The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
Cs-134 (Approx. 2 years)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	
Cs-137 (Approx. 30 years)	0.0026	0.00	0.0028	0.00	0.0032	0.00	0.0027	0.00	0.0024	0.00	0.0025	0.00	90

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* "ND" indicates that the measurement result is below the detection limit.

Cs-134: Approx.0.0017Bq/L

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

* Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted. (Since the announcement on June 15, 2012.)

* Analyzed by: Japan Chemical Analysis Center or THE GENERAL ENVIRONMENTAL TECHNOS Co., LTD.

Nuclides Analysis Result of the Radioactive Materials in the Seawater < Offshore of Miyagi Prefecture 2/2 >

(Data summarized on April 5)

Place of Sampling (Place No.)	Offshore of Shichigahama (T-MG4)						Central Area of Sendai Bay (T-MG5)						Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Upper Layer		Middle Layer		Lower Layer		Upper Layer		Middle Layer		Lower Layer		
Time of Sampling	Jan 29, 2013 9:44 AM		Jan 29, 2013 9:36 AM		Jan 29, 2013 9:20 AM		Jan 29, 2013 (Not sampled)		Jan 29, 2013 (Not sampled)		Jan 29, 2013 (Not sampled)		
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
Cs-134 (Approx. 2 years)	0.0055	0.00	0.0044	0.00	0.0029	0.00	/	/	/	/	/	/	60
Cs-137 (Approx. 30 years)	0.011	0.00	0.0088	0.00	0.0087	0.00	/	/	/	/	/	/	90

Place of Sampling (Place No.)	Offshore of Abukuma River (T-MG6)						/						Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Upper Layer		Middle Layer		Lower Layer		Upper Layer		Middle Layer		Lower Layer		
Time of Sampling	Jan 29, 2013 11:02 AM		Jan 29, 2013 10:54 AM		Jan 29, 2013 10:42 AM		/		/		/		
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
Cs-134 (Approx. 2 years)	0.011	0.00	0.0047	0.00	0.0059	0.00	/	/	/	/	/	/	60
Cs-137 (Approx. 30 years)	0.023	0.00	0.0098	0.00	0.011	0.00	/	/	/	/	/	/	90

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted. (Since the announcement on June 15, 2012.)

* Analyzed by: Japan Chemical Analysis Center or THE GENERAL ENVIRONMENTAL TECHNOS Co., LTD.

Nuclides Analysis Result of the Radioactive Materials in the Seawater < Offshore of Miyagi Prefecture 1/2 >

(Data summarized on April 5)

Place of Sampling (Place No.)	Offshore of Minamisanriku (T-MG0)						Ishinomaki Bay (T-MG1)						Density Limit Specified by the Reactor Regulation (Bq/L)
	Upper Layer		Middle Layer		Lower Layer		Upper Layer		Middle Layer		Lower Layer		
Time of Sampling	Feb 15, 2013 9:46 AM		Feb 15, 2013 10:18 AM		Feb 15, 2013 9:57 AM		Feb 6, 2013 9:50 AM		Feb 6, 2013 9:56 AM		Feb 6, 2013 9:53 AM		(The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
Cs-134 (Approx. 2 years)	ND	-	ND	-	ND	-	0.0024	0.00	0.0032	0.00	0.0026	0.00	
Cs-137 (Approx. 30 years)	0.0026	0.00	0.0024	0.00	0.0029	0.00	0.0057	0.00	0.0062	0.00	0.0066	0.00	90

Place of Sampling (Place No.)	Offshore of Kinkasan East (T-MG2)						Offshore of Kinkasan South (T-MG3)						Density Limit Specified by the Reactor Regulation (Bq/L)
	Upper Layer		Middle Layer		Lower Layer		Upper Layer		Middle Layer		Lower Layer		
Time of Sampling	Feb 6, 2013 7:49 AM		Feb 6, 2013 8:02 AM		Feb 6, 2013 7:52 AM		Feb 6, 2013 8:37 AM		Feb 6, 2013 8:45 AM		Feb 6, 2013 9:36 AM		(The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
Cs-134 (Approx. 2 years)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	
Cs-137 (Approx. 30 years)	0.0022	0.00	0.0024	0.00	0.0030	0.00	0.0021	0.00	0.0027	0.00	0.0027	0.00	90

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* "ND" indicates that the measurement result is below the detection limit.

Cs-134: Approx.0.0017Bq/L

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

* Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted. (Since the announcement on June 15, 2012.)

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Nuclides Analysis Result of the Radioactive Materials in the Seawater < Offshore of Miyagi Prefecture 2/2 >

(Data summarized on April 5)

Place of Sampling (Place No.)	Offshore of Shichigahama (T-MG4)						Central Area of Sendai Bay (T-MG5)						Density Limit Specified by the Reactor Regulation (Bq/L)
	Upper Layer		Middle Layer		Lower Layer		Upper Layer		Middle Layer		Lower Layer		
Time of Sampling	Feb 6, 2013 11:00 AM		Feb 6, 2013 10:40 AM		Feb 6, 2013 10:29 AM		Feb 6, 2013 9:50 AM		Feb 6, 2013 9:40 AM		Feb 6, 2013 9:24 AM		(The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
Cs-134 (Approx. 2 years)	0.0046	0.00	0.0046	0.00	0.0073	0.00	ND	-	ND	-	0.0035	0.00	
Cs-137 (Approx. 30 years)	0.0095	0.00	0.0095	0.00	0.012	0.00	0.0037	0.00	0.0036	0.00	0.0072	0.00	90

Place of Sampling (Place No.)	Offshore of Abukuma River (T-MG6)												Density Limit Specified by the Reactor Regulation (Bq/L)
	Upper Layer		Middle Layer		Lower Layer		Upper Layer		Middle Layer		Lower Layer		
Time of Sampling	Feb 6, 2013 12:17 PM		Feb 6, 2013 12:10 PM		Feb 6, 2013 12:02 PM								(The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
Cs-134 (Approx. 2 years)	0.0039	0.00	0.0034	0.00	0.0037	0.00							
Cs-137 (Approx. 30 years)	0.0086	0.00	0.0080	0.00	0.0068	0.00							90

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* "ND" indicates that the measurement result is below the detection limit.

Cs-134: Approx.0.0016Bq/L

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

* Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted. (Since the announcement on June 15, 2012.)

* Analyzed by: Japan Chemical Analysis Center or THE GENERAL ENVIRONMENTAL TECHNOS Co., LTD.

Nuclides Analysis Result of the Radioactive Materials in the Seawater < Offshore of Miyagi Prefecture 1/2 >

(Data summarized on April 5)

Place of Sampling (Place No.)	Offshore of Minamisanriku (T-MG0)						Ishinomaki Bay (T-MG1)						Density Limit Specified by the Reactor Regulation (Bq/L)
	Upper Layer		Middle Layer		Lower Layer		Upper Layer		Middle Layer		Lower Layer		
Time of Sampling	Feb 22, 2013 10:05 AM		Feb 22, 2013 10:15 AM		Feb 22, 2013 9:44 AM		Feb 22, 2013 10:15 AM		Feb 22, 2013 10:21 AM		Feb 22, 2013 10:17 AM		(The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
Cs-134 (Approx. 2 years)	ND	-	ND	-	ND	-	0.0025	0.00	0.0017	0.00	0.0017	0.00	
Cs-137 (Approx. 30 years)	0.0028	0.00	0.0020	0.00	0.0020	0.00	0.0064	0.00	0.0060	0.00	0.0060	0.00	90

Place of Sampling (Place No.)	Offshore of Kinkasan East (T-MG2)						Offshore of Kinkasan South (T-MG3)						Density Limit Specified by the Reactor Regulation (Bq/L)
	Upper Layer		Middle Layer		Lower Layer		Upper Layer		Middle Layer		Lower Layer		
Time of Sampling	Feb 22, 2013 7:46 AM		Feb 22, 2013 8:01 AM		Feb 22, 2013 7:52 AM		Feb 22, 2013 8:48 AM		Feb 22, 2013 8:50 AM		Feb 22, 2013 8:43 AM		(The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
Cs-134 (Approx. 2 years)	0.0031	0.00	ND	-	ND	-	ND	-	ND	-	0.0017	0.00	
Cs-137 (Approx. 30 years)	0.0072	0.00	0.0037	0.00	0.0040	0.00	0.0039	0.00	0.0047	0.00	0.0038	0.00	90

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* "ND" indicates that the measurement result is below the detection limit.

Cs-134: Approx.0.0017Bq/L

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

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Nuclides Analysis Result of the Radioactive Materials in the Seawater < Offshore of Miyagi Prefecture 2/2 >

(Data summarized on April 5)

Place of Sampling (Place No.)	Offshore of Shichigahama (T-MG4)						Central Area of Sendai Bay (T-MG5)						Density Limit Specified by the Reactor Regulation (Bq/L)
	Upper Layer		Middle Layer		Lower Layer		Upper Layer		Middle Layer		Lower Layer		
Time of Sampling	Feb 22, 2013 11:04 AM		Feb 22, 2013 10:57 AM		Feb 22, 2013 10:50 AM		Feb 22, 2013 10:09 AM		Feb 22, 2013 10:05 AM		Feb 22, 2013 9:51 AM		(The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
Cs-134 (Approx. 2 years)	0.0020	0.00	0.0036	0.00	0.0026	0.00	0.0022	0.00	0.0022	0.00	0.0028	0.00	
Cs-137 (Approx. 30 years)	0.0059	0.00	0.0068	0.00	0.0079	0.00	0.0058	0.00	0.0052	0.00	0.0053	0.00	90

Place of Sampling (Place No.)	Offshore of Abukuma River (T-MG6)												Density Limit Specified by the Reactor Regulation (Bq/L)
	Upper Layer		Middle Layer		Lower Layer		Upper Layer		Middle Layer		Lower Layer		
Time of Sampling	Feb 22, 2013 12:13 PM		Feb 22, 2013 12:07 PM		Feb 22, 2013 11:59 AM								(The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
Cs-134 (Approx. 2 years)	0.0028	0.00	0.0031	0.00	0.0034	0.00							
Cs-137 (Approx. 30 years)	0.0062	0.00	0.0064	0.00	0.0065	0.00							90

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted. (Since the announcement on June 15, 2012.)

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