# Results of Nuclide Analysis of Seawater <Coast>

Reference

（Data summarized on August 19）

| Place of Sampling | North of Discharge Channel of 5-6u of 1F (approx. 30m north of 5-6u discharge channel) | | Around South Discharge Channel of 1F （appox. 330m south of 1-4u Discharge Channel) | | | | Around North Discharge Channel of 2F （Around 3,4u Discharge Channel) （approx. 10 km from 1F） | | Around Iwasawa Shore of 2F （appox. 7 km south of 1,2u Discharge Channel) （appox. 16 km from 1F） | | ② Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Time and Date of Sample Collection | 9:50 am on August 18, 2011 | | 9:30 am on August 18, 2011 | | 2:10 pm on August 18, 2011 | | 8:25 am on August 18, 2011 | | 7:55 am on August 18, 2011 | | |
| Detected Nuclides (Half-life) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | |
| I-131 (about 8 days) | ND | - | ND | - | ND | - | ND | - | ND | - | 40 |
| Cs-134 (about 2 years) | 20 | 0.33 | ND | - | ND | - | ND | - | ND | - | 60 |
| Cs-137 (about 30 years) | 21 | 0.23 | ND | - | ND | - | ND | - | ND | - | 90 |

※ Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L

※ Data of other nuclides are under evaluation.

※ In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

※ In the case that the data is below measurable limit, "ND" is stated.
Detection limits at Fukushima Daiichi (north of water discharge channel of Units 5 and 6, south discharge channel) are as follows:
I-131: approx. 9 Bq/L, Cs-134: approx. 22 Bq/L, and Cs-137: approx. 24Bq/L.
Detection limits at Fukushima Daini (Near North discharge canal, Iwasawa shore) are as follows:
I-131: approx. 4 Bq/L, Cs-134: approx. 6 Bq/L, and Cs-137: approx. 9Bq/L.

# Results of Nuclide Analysis of Seawater <Offshore1/3>

Reference

（Data summarized on August 19）

| Place of Sampling | 15 km offshore of MinamiSouma City Upper layer | | 15 km offshore of MinamiSouma City Lower layer | | 15 km offshore of Ukedo-gawa Upper layer | | 15 km offshore of Ukedo-gawa Lower layer | | 15 km offshore of Fukushima Daiichi Upper layer | | 15 km offshore of Fukushima Daiichi Lower layer | | ② Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time and Date of Sample Collection | 7:55 am on August 18, 2011 | | 7:55 am on August 18, 2011 | | N.A. | | N.A. | | N.A. | | N.A. | | |
| Detected Nuclides (Half-life) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | |
| I-131 (about 8 days) | ND | - | ND | - | | | | | | | | | 40 |
| Cs-134 (about 2 years) | ND | - | ND | - | | | | | | | | | 60 |
| Cs-137 (about 30 years) | ND | - | ND | - | | | | | | | | | 90 |

| Place of Sampling | 15 km offshore of Fukushima Daini Upper layer | | 15 km offshore of Fukushima Daini Lower layer | | 15 km offshore of Iwasawa Shore Upper layer | | 15 km offshore of Iwasawa Shore Lower layer | | 15 km offshore of Hirono-machi Upper layer | | 15 km offshore of Hirono-machi Lower layer | | ② Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time and Date of Sample Collection | N.A. | | N.A. | | 8:00 am on August 18, 2011 | | 8:00 am on August 18, 2011 | | 8:35 am on August 18, 2011 | | 8:35 am on August 18, 2011 | | |
| Detected Nuclides (Half-life) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | |
| I-131 (about 8 days) | | | | | ND | - | ND | - | ND | - | ND | - | 40 |
| Cs-134 (about 2 years) | | | | | ND | - | ND | - | ND | - | ND | - | 60 |
| Cs-137 (about 30 years) | | | | | ND | - | ND | - | ND | - | ND | - | 90 |

※ Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L

※ Data of other nuclides are under evaluation.

※ In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

※ In this analysis, "ND" means that the results fall bellow the detection limits.
(I-131: approx. 48Bq/L, Cs-134: approx. 6Bq/L, and Cs-137: approx. 9Bq/L)

# Results of Nuclide Analysis of Seawater <Offshore2/3>

Reference

（Data summarized on August 19）

| Place of Sampling | 3 km offshore of Haramachiku Upper layer | | 3 km offshore of Haramachi Ward Lower layer | | 3 km offshore of Odaka Ward Upper layer | | 3 km offshore of Odaka Ward Lower layer | | 3 km offshore of Iwasawa shore Upper layer | | 3 km offshore of Iwasawa shore Lower layer | | ② Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time and Date of Sample Collection | 8:20 am on August 18, 2011 | | 8:20 am on August 18, 2011 | | 8:35 am on August 18, 2011 | | 8:35 am on August 18, 2011 | | 7:05 am on August 18, 2011 | | 7:05 am on August 18, 2011 | | |
| Detected Nuclides (Half-life) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | |
| I-131 (about 8 days) | ND | - | ND | - | ND | - | ND | - | ND | - | ND | - | 40 |
| Cs-134 (about 2 years) | ND | - | ND | - | ND | - | ND | - | ND | - | ND | - | 60 |
| Cs-137 (about 30 years) | ND | - | ND | - | ND | - | ND | - | ND | - | ND | - | 90 |

| Place of Sampling | 8 km offshore of Odaka Ward Upper layer | | 8 km offshore of Odaka Ward Lower layer | | 8 km offshore of Iwasawa shore Upper layer | | 8 km offshore of Iwasawa shore Lower layer | | | | | | ② Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time and Date of Sample Collection | 8:50 am on August 18, 2011 | | 8:50 am on August 18, 2011 | | 7:25 am on August 18, 2011 | | 7:25 am on August 18, 2011 | | | | | | |
| Detected Nuclides (Half-life) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | |
| I-131 (about 8 days) | ND | - | ND | - | ND | - | ND | - | | | | | 40 |
| Cs-134 (about 2 years) | ND | - | ND | - | ND | - | ND | - | | | | | 60 |
| Cs-137 (about 30 years) | ND | - | ND | - | ND | - | ND | - | | | | | 90 |

※ Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L

※ Data of other nuclides are under evaluation.

※ In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

※ In this analysis, "ND" means that the results fall bellow the detection limits.
(I-131: approx. 4Bq/L, Cs-134: approx. 6Bq/L, and Cs-137: approx. 9Bq/L)

# Results of Nuclide Analysis of Seawater <Offshore3/3>

Reference

（Data summarized on August 19）

| Place of Sampling | 3 km offshore of Iwaki Upper layer | | 3 km offshore of Iwaki Lower layer | | 3 km offshore of Natsui river Upper layer | | 3 km offshore of Natsui river Lower layer | | 3 km offshore of Onahama port Upper layer | | 3 km offshore of Onahama port Lower layer | | ② Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time and Date of Sample Collection | 6:40 am on August 18, 2011 | | 6:40 am on August 18, 2011 | | 6:05 am on August 18, 2011 | | 6:05 am on August 18, 2011 | | 5:30 am on August 18, 2011 | | 5:30 am on August 18, 2011 | | |
| Detected Nuclides (Half-life) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | |
| I-131 (about 8 days) | ND | - | ND | - | ND | - | ND | - | ND | - | ND | - | 40 |
| Cs-134 (about 2 years) | ND | - | ND | - | ND | - | ND | - | ND | - | ND | - | 60 |
| Cs-137 (about 30 years) | ND | - | ND | - | ND | - | ND | - | ND | - | ND | - | 90 |

| Place of Sampling | 3 km offshore of Ena Upper layer | | 3 km offshore of Ena Lower layer | | 3 km offshore of Numanouchi Upper layer | | 3 km offshore of Numanouchi Lower layer | | 3 km offshore of Toyoma Upper layer | | 3 km offshore of Toyoma Lower layer | | ② Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time and Date of Sample Collection | 5:25 am on August 18, 2011 | | 5:25 am on August 18, 2011 | | 5:50 am on August 18, 2011 | | 5:50 am on August 18, 2011 | | 5:40 am on August 18, 2011 | | 5:40 am on August 18, 2011 | | |
| Detected Nuclides (Half-life) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | |
| I-131 (about 8 days) | ND | - | ND | - | ND | - | ND | - | ND | - | ND | - | 40 |
| Cs-134 (about 2 years) | ND | - | ND | - | ND | - | ND | - | ND | - | ND | - | 60 |
| Cs-137 (about 30 years) | ND | - | ND | - | ND | - | ND | - | ND | - | ND | - | 90 |

※ Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L

※ Data of other nuclides are under evaluation.

※ In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

※ In this analysis, "ND" means that the results fall bellow the detection limits.
(I-131: approx. 4Bq/L, Cs-134: approx. 6Bq/L, and Cs-137: approx. 9Bq/L)