

## Nuclide Analysis Results of Radioactive Materials in Seawater <Offshore of Miyagi Prefecture 1/2>

Reference

(Data summarized on January 11)

| Place of Sampling             | Ishinomaki bayUpper Layer |                      | Ishinomaki bayMiddle Layer |                      | Ishinomaki bayLower Layer |                      | Offshore of East side of Kinkasan Upper Layer |                      | Offshore of East side of Kinkasan Middle Layer |                      | Offshore of East side of Kinkasan Lower Layer |                      | Density limit by the announcement of Reactor Regulation (Bq/L)<br>(the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2) |
|-------------------------------|---------------------------|----------------------|----------------------------|----------------------|---------------------------|----------------------|---|----------------------|--|----------------------|---|----------------------|--|
| Time of Sampling              | Jan 04, 2012<br>10:37     |                      | Jan 04, 2012<br>10:48      |                      | Jan 04, 2012<br>10:40     |                      | Jan 04, 2012<br>8:28                          |                      | Jan 04, 2012<br>8:43                           |                      | Jan 04, 2012<br>8:38                          |                      |  |
| 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 ( / ) |  |
| I-131<br>(about 8 days)       | ND                        | -                    | ND                         | -                    | ND                        | -                    | ND  | -                    | ND   | -                    | ND  | -                    | 40   |
| Cs-134<br>(about 2 years)     | ND                        | -                    | ND                         | -                    | ND                        | -                    | ND  | -                    | ND   | -                    | ND  | -                    | 60   |
| Cs-137<br>(about 30 years)    | ND                        | -                    | ND                         | -                    | ND                        | -                    | ND  | -                    | ND   | -                    | ND  | -                    | 90   |

| Place of Sampling             | Offshore of South side of Kinkasan Upper Layer |                      | Offshore of South side of Kinkasan Middle Layer |                      | Offshore of South side of Kinkasan Lower Layer |                      | Offshore of Shichigahama Upper Layer |                      | Offshore of Shichigahama Middle Layer |                      | Offshore of Shichigahama Lower Layer |                      | Density limit by the announcement of Reactor Regulation (Bq/L)<br>(the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2) |
|-------------------------------|--|----------------------|---|----------------------|--|----------------------|--------------------------------------|----------------------|---------------------------------------|----------------------|--------------------------------------|----------------------|--|
| Time of Sampling              | Jan 04, 2012<br>9:18                           |                      | Jan 04, 2012<br>9:29                            |                      | Jan 04, 2012<br>9:23                           |                      | Jan 04, 2012<br>9:30                 |                      | Jan 04, 2012<br>9:33                  |                      | Jan 04, 2012<br>9:27                 |                      |  |
| 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 ( / ) |  |
| I-131<br>(about 8 days)       | ND   | -                    | ND  | -                    | ND   | -                    | ND                                   | -                    | ND                                    | -                    | ND                                   | -                    | 40   |
| Cs-134<br>(about 2 years)     | ND   | -                    | ND  | -                    | ND   | -                    | ND                                   | -                    | ND                                    | -                    | ND                                   | -                    | 60   |
| Cs-137<br>(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/cm<sup>3</sup> 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.

\* "ND" means the sampled data is below measurable limit.

I-131: approx. 1.1Bq/L, Cs-134: approx. 1.1Bq/L, Cs-137: approx. 1.1Bq/L

Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

## Nuclide Analysis Results of Radioactive Materials in Seawater <Offshore of Miyagi Prefecture 2/2>

Reference

(Data summarized on January 11)

| Place of Sampling             | Central area of Sendai bay Upper Layer |                      | Central area of Sendai bay Middle Layer |                      | Central area of Sendai bay Lower Layer |                      | Offshore of Abukumagawa Upper Layer |                      | Offshore of Abukumagawa Middle Layer |                      | Offshore of Abukumagawa Lower Layer |                      | Density limit by the announcement of Reactor Regulation (Bq/L)<br>(the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2) |
|-------------------------------|--|----------------------|---|----------------------|--|----------------------|-------------------------------------|----------------------|--------------------------------------|----------------------|-------------------------------------|----------------------|--|
| Time of Sampling              | Jan 04, 2012<br>7:10                   |                      | Jan 04, 2012<br>7:16                    |                      | Jan 04, 2012<br>7:08                   |                      | Jan 04, 2012<br>8:26                |                      | Jan 04, 2012<br>8:23                 |                      | Jan 04, 2012<br>8:18                |                      |  |
| 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 ( / ) |  |
| I-131<br>(about 8 days)       | ND                                     | -                    | ND                                      | -                    | ND                                     | -                    | ND                                  | -                    | ND                                   | -                    | ND                                  | -                    | 40   |
| Cs-134<br>(about 2 years)     | ND                                     | -                    | ND                                      | -                    | ND                                     | -                    | ND                                  | -                    | ND                                   | -                    | ND                                  | -                    | 60   |
| Cs-137<br>(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/cm<sup>3</sup> 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.

\* "ND" means the sampled data is below measurable limit.

I-131: approx. 0.96Bq/L, Cs-134: approx. 1.1Bq/L, Cs-137: approx. 1.0Bq/L

Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.