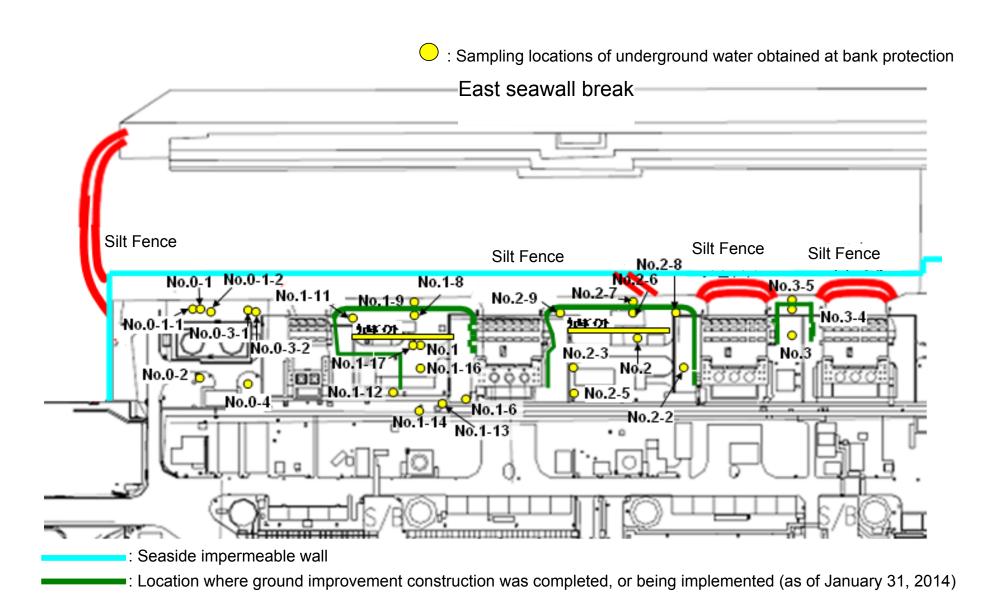
Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (Sampling Locations of Underground Water Obtained at Bank Protection)



# Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (1/4) Underground Water Obtained at Bank Protection

Unit: Bq/L (exclude chloride)

|         |                         |  |  |   |   |   |   |   |   |   |  |  |  | Ullit. Bq/t                                      | L (exclude chlori                          |
|---------|-------------------------|--|--|---|---|---|---|---|---|---|--|--|--|--|--|
|         |                         | Underground<br>water observation<br>hole No.0-1  | Underground<br>water observation<br>hole No.0-1-2                            | Underground<br>water observation<br>hole No.0-2 | Underground<br>water observation<br>hole No.0-3-1 | Underground<br>water observation<br>hole No.0-3-2 | Underground<br>water observation<br>hole No.0-4 | Underground<br>water observation<br>hole No.1   | Underground<br>water observation<br>hole No.1-6 | Underground<br>water observation<br>hole No.1-8 | Underground<br>water observation<br>hole No.1-9                              | Underground<br>water observation<br>hole No.1-11 | Underground<br>water observation<br>hole No.1-12 | Underground<br>water observation<br>hole No.1-14 | Undergroun<br>water observa<br>hole No.1-1 |
|         | Date of sampling        |  | /  | /   | /   | /   | /   | /   | /   | /   | Feb 27, 2014   | /  | /  | /  |  |
|         | Time of sampling        |  |  | /   | /   | /   | /   |   |   | /   | 6:55 AM  | /  | /  | /  |  |
|         | Chloride (unit: ppm)    |  |  | /   | /   | /   | /   | /   | /   | /   | 260  | /  | /  | /  |  |
| Cs      | s-134 (Approx. 2 years) | /  |  | /   | /   | /   | /   |   |   | /   | 2.4  | /  | /  | /  |  |
| Cs      | -137 (Approx.30 years)  |  | /  | /   | /   | /   | /   | /   | /   | /   | 6.0  | /  | /  | /  |  |
|         |                         |  | /  | /   | /   | /   | /   | /   | /   | /   |  | /  | /  | /  |  |
| The     |                         |  |  |   |   | /   | /   |   |   |   |  |  |  | /  |  |
| other y |                         |  |  | /   |   |   |   |   |   |   |  | /  |  | /  |  |
|         |                         |  |  | /   |   |   |   |   |   |   |  | /  | /  | /  |  |
|         | Gross β                 |  | /  | /   |   |   |   | /   | /   |   | 100  | /  | /  | /  |  |
| Н       | H-3 (Approx. 12 years)  | 1/   | 1/   | /   | 1/  | /   | /   | 1/  | 1/  | /   | 300  | /  | /  | /  | /  |
| Sr-     | -90 (Approx. 29 years)  | /  | /  | /   | /   | /   | /   | /   | /   | /   | _  | /  | /  | /  | /  |
|         |                         | Underground<br>water observation<br>hole No.1-17 | Groundwater<br>pumped up from<br>the well point<br>(between Unit 1<br>and 2) | Underground<br>water observation<br>hole No.2   | Underground<br>water observation<br>hole No.2-2   | Underground<br>water observation<br>hole No.2-3   | Underground<br>water observation<br>hole No.2-5 | Underground<br>water observation<br>hole No.2-6 | Underground<br>water observation<br>hole No.2-7 | Underground<br>water observation<br>hole No.2-8 | Groundwater<br>pumped up from<br>the well point<br>(between Unit 2<br>and 3) | Underground<br>water observation<br>hole No.3    | Underground<br>water observation<br>hole No.3-4  | Underground<br>water observation<br>hole No.3-5  |  |
|         | Date of sampling        | /  | /  | Feb 26, 2014                                    | Feb 26, 2014                                      | Feb 26, 2014                                      | /   | Feb 27, 2014                                    | Feb 28, 2014                                    | /   | Feb 26, 2014   | Feb 26, 2014                                     | Feb 26, 2014                                     | Feb 26, 2014                                     |  |
|         | Time of sampling        |  |  | 9:49 AM   | 11:21 AM  | 9:19 AM   | /   | 9:52 AM   | 9:58 AM   | /   | 10:00 AM   | 10:42 AM   | 11:13 AM   | 10:35 AM   |  |
|         | Chloride (unit: ppm)    |  |  | _   | _   | _   |   | _   | 860   |   | _  | _  | _  | 1,600  |  |
| Cs      | s-134 (Approx. 2 years) |  |  | 0.88  | 13  | 2.2   | /   | 0.53  | 0.69  |   | ND(0.49)   | ND(0.49)   | 1.3  | 16   |  |
| Cs      | -137 (Approx.30 years)  |  |  | 2.5   | 31  | 5.5   |   | 0.97  | 1.9   |   | ND(0.61)   | 1.2  | 3.6  | 40   | <u> </u>                                   |
|         |                         |  |  |   |   |   |   |   |   |   |  |  |  |  |  |
| The     |                         |  |  |   |   |   |   |   |   |   |  |  |  |  |  |
| other y |                         | 1 /  |  |   |   |   |   |   |   |   |  |  |  |  |  |
|         |                         | 1/   |  |   |   |   |   |   |   |   |  |  |  |  | 1  |
|         | Gross β                 | 1/   | 1/   | 390   | 500   | 1,100   |   | 1,900   | 390   |   | 120,000  | ND(19)   | ND(19)   | 32   | ļ  |
| Н       | H-3 (Approx. 12 years)  | 1/   | 1/   | 850   | 610   | 1,200   | /   | 850   | 930   | /   | 4,700  | 1,200  | ND(120)  | ND(120)  | 1  |
| _       | / \                     | 17   | 17   | 1   | 1   | 1   | 17  | 1   |   | 17  | I  | I  | 1  | 1  | 1  |

<sup>\*</sup> Data announced this time is provided in a thick-frame. The other data was announced on February 20.

<sup>\* &</sup>quot;ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.

<sup>\* &</sup>quot;-" indicates that the measurement was out of range.

# Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (2/4) Underground Water Obtained at Bank Protection

Underground water observation vater observation water observation water observation water observation water observation water observation hole hole No.0-1-2 No.0-2 No.0-3-1 No.0-3-2 No.0-4 No.1-6 No.1-8 No.1-9 No.1-11 No.1-12 No.1-14 No.0-1 No.1 No.1-16 Date of sampling Mar 02, 2014 Time of sampling 11:50 AM 11:02 AM 10:22 AM 10:44 AM 9:42 AM 7:15 AM Chloride (unit: ppm) 8.0 \* 1 0.61 \* 1 Cs-134 (Approx. 2 years) ND(0.41) ND(0.46) ND(0.39) 15 Cs-137 (Approx.30 years) 19 1.5 \* 1 ND(0.56) ND(0.54) ND(0.49) 41 The other y Gross β 100 ND(15) ND(15) ND(15) ND(15) 160 H-3 (Approx. 12 years) Under analysis Under analysis Under analysis Under analysis Under analysis Under analysis Sr-90 (Approx. 29 years) Groundwater Underground pumped up from pumped up from water observation ater observation ater observation water observation vater observation water observation water observation ater observation water observation water observation water observation the well point the well point hole (between Unit 1 (between Unit 2 No.1-17 No.2 No.2-2 No.2-3 No.2-5 No.2-6 No.2-7 No.2-8 No.3\* No.3-4 No.3-5 and 2) and 3) Date of sampling Mar 02, 2014 Time of sampling 10:43 AM 11:51 AM 10:05 AM 11:05 AM 12:45 PM 10:00 AM Chloride (unit: ppm) \_ \_ 800 \_ \_ Cs-134 (Approx. 2 years) ND(0.41) 12 0.52 0.77 ND(0.59) Cs-137 (Approx.30 years) 0.73 33 1.1 1.5 1.0 The other 340 510 980 440 1,500 \* 1 120,000 Gross B H-3 (Approx. 12 years) Under analysis Under analysis Under analysis Under analysis Under analysis Under analysis

Sr-90 (Approx. 29 years)

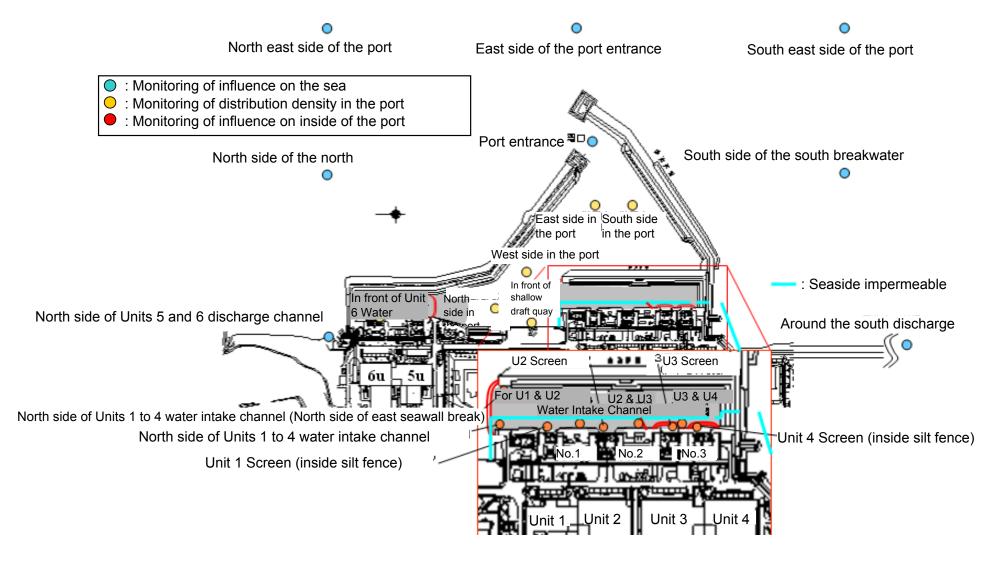
<sup>\* &</sup>quot;ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.

<sup>\* &</sup>quot;-" indicates that the measurement was out of range.

<sup>\*</sup> The results obtained on in the observation hole No.0-1 are for a reference, since the water was highly turbid. ( $\gamma$  and Gross  $\beta$  will be measured after filtration. If filtration takes a long time,  $\gamma$  will not be measured.)

<sup>\*1</sup> The highest measurement value (compared to the previous values provided in the handouts published in 'Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection')

Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (Sampling Locations of Seawater)



### Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (3/4) Seawater

Unit: Bq/L

|                          | 1F, North side of<br>Unit 5,6 discharge<br>channel | 1F, In front of Unit<br>6 water intake<br>channel | 1F, In front of shallow draft quay | 1F, North side of<br>Unit 1-4 water<br>intake channel | 1F, North side of<br>Unit 1-4 water<br>intake channel<br>(north side of East<br>Seawall Break) | 1F, Unit 1 Screen<br>(Inside the Silt<br>Fence) | 1F, Between the<br>water intake<br>channel of Unit 1<br>and Unit 2<br>(surface layer) | 1F, Between the<br>water intake<br>channel of Unit 1<br>and Unit 2 (lower<br>layer) | 1F, Unit 2 Screen<br>(Inside the Silt<br>Fence) | 1F, Between the<br>water intake<br>channel of Unit 2<br>and Unit 3 | 1F, Unit 3 Screen<br>(Inside the Silt<br>Fence) | 1F, Between the<br>water intake<br>channel of Unit 3<br>and Unit 4 | Density<br>Limit<br>Specified by<br>the Reactor<br>Regulation * | WHO<br>Guidelines<br>for drinking-<br>water<br>quality |
|--------------------------|--|---|------------------------------------|---|--|---|---|---|---|--|---|--|---|--|
| Date of Sampling         |  | /   | /                                  | Feb 27, 2014  | /  | /   | Feb 27, 2014  | Feb 27, 2014  | /   | /  | /   | /  |   |  |
| Time of sampling         |  |   |                                    | 6:46 AM   |  |   | 6:50 AM   | 6:50 AM   |   |  |   |  |   |  |
| Cs-134(Approx. 2 years)  |  |   |                                    | 14  |  |   | 17  | 11  |   |  |   |  | 60  | 10   |
| Cs-137(Approx.30 years)  |  |   |                                    | 46  |  |   | 35  | 27  |   |  |   |  | 90  | 10   |
| Gross β                  |  |   |                                    | 870   |  |   | 710   | 150   |   |  |   |  |   |  |
| H-3 (Approx. 12 years)   |  |   |                                    | 2,000   |  |   | 1,900   | 210   |   |  |   |  | 60,000  | 10,000   |
| Sr-90 (Approx. 29 years) |  |   |                                    | _   |  |   | _   | _   | /   | /  | /   | /  | 30  | 10   |

Unit: Bg/L

|                          | 1F, Unit 4 Screen<br>(Inside the Silt<br>Fence) | 1F, Around the south discharge channel | 1F, Port entrance | 1F, East side in the port | 1F, West side in the port | 1F, North side in the port | 1F, South side in the port | Northeast side of the port entrance | East side of the port entrance |   | South side of the south breakwater | Density Limit<br>Specified by<br>the Reactor<br>Regulation * | WHO<br>Guidelines for<br>drinking-water<br>quality |
|--------------------------|---|--|-------------------|---------------------------|---------------------------|----------------------------|----------------------------|-------------------------------------|--------------------------------|---|------------------------------------|--|--|
| Date of Sampling         |   | /                                      |                   | /                         |                           | /                          | /                          | 1 /                                 | /                              |   | 1 /                                |  |  |
| Time of sampling         |   |  |                   |                           |                           |                            | /                          |                                     |                                |   |                                    |  |  |
| Cs-134(Approx. 2 years)  |   |  |                   |                           |                           |                            |                            |                                     |                                |   |                                    | 60   | 10   |
| Cs-137(Approx.30 years)  |   |  |                   |                           |                           |                            |                            |                                     |                                |   |                                    | 90   | 10   |
| Gross β                  |   |  |                   |                           |                           |                            |                            |                                     |                                |   |                                    |  |  |
| H-3 (Approx. 12 years)   |   |  |                   |                           |                           |                            |                            |                                     |                                |   |                                    | 60,000   | 10,000   |
| Sr-90 (Approx. 29 years) |   |  |                   | /                         | /                         |                            |                            |                                     |                                | / |                                    | 30   | 10   |

<sup>\*</sup> Data announced this time is provided in a thick-frame. The other data was announced on February 18 and 21.

<sup>\* &</sup>quot;ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.

<sup>\* &</sup>quot;-" indicates that the measurement was out of range.

<sup>\*</sup> Density Limit Specified by the Rule for the Installation, Operation, etc. of Commercial Nuclear Power Reactors (the density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2 [the amount is converted from Bq/cm 3 to Bq/L]).

## Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (4/4) Seawater

Unit: Bq/L

|                          | 1F, North side of<br>Unit 5,6<br>discharge<br>channel | 1F, In front of<br>Unit 6 water<br>intake channel | 1F, In front of<br>shallow draft<br>quay | 1F, North side of<br>Unit 1-4 water<br>intake channel | 1F, North side of<br>Unit 1-4 water<br>intake channel<br>(north side of<br>East Seawall<br>Break) | 1F, Unit 1<br>Screen<br>(Inside the Silt<br>Fence) | water intake<br>channel of Unit 1 | 1F, Between the<br>water intake<br>channel of Unit 1<br>and Unit 2 (lower<br>layer) | Screen                              | 1F, Between the<br>water intake<br>channel of Unit 2<br>and Unit 3 | 1F, Unit 3<br>Screen<br>(Inside the Silt<br>Fence) | 1F, Between the<br>water intake<br>channel of Unit 3<br>and Unit 4 | Specified by the   | WHO Guidelines<br>for drinking-water<br>quality    |
|--------------------------|---|---|--|---|---|--|-----------------------------------|---|-------------------------------------|--|--|--|--|--|
| Date of Sampling         |   |   |  | Mar 02, 2014  | /   | /  | Mar 02, 2014                      | Mar 02, 2014  |                                     |  | /  |  |  |  |
| Time of sampling         |   |   |  | 7:26 AM   |   |  | 7:11 AM                           | 7:11 AM   |                                     |  |  |  |  |  |
| Cs-134(Approx. 2 years)  |   |   |  | 15  | /   |  | 14                                | 13  |                                     |  |  |  | 60   | 10   |
| Cs-137(Approx.30 years)  |   |   |  | 35  |   |  | 35                                | 31  |                                     |  |  |  | 90   | 10   |
| Gross β                  |   |   |  | 340   |   |  | 360                               | 170   |                                     |  |  |  |  |  |
| H-3 (Approx. 12 years)   |   |   |  | Under analysis  |   |  | Under analysis                    | Under analysis  |                                     |  |  |  | 60,000   | 10,000   |
| Sr-90 (Approx. 29 years) |   | /   | /  | -   | /   | /  | -                                 | -   | /                                   | /  |  | /  | 30   | 10   |
|                          |   |   |  |   |   |  |                                   |   |                                     |  |  | -  |  | Unit: Bq/L   |
|                          | 1F, Unit 4<br>Screen<br>(Inside the Silt<br>Fence)    | 1F, Around the south discharge channel            | 1F, Port<br>entrance                     | 1F, East side in the port                             | 1F, West side in the port   | 1F, North side in the port                         | 1F, South side in the port        | North side of the north breakwater  | Northeast side of the port entrance |  | Southeast side of the port entrance                | South side of the south breakwater                                 | Density Limit<br>Specified by<br>the Reactor<br>Regulation * | WHO<br>Guidelines for<br>drinking-water<br>quality |
| Date of Sampling         | /   |   | /  | /   | /   | /  | /                                 | /   | 1 /                                 | 1 /  | /  |  |  |  |
| Time of sampling         |   |   |  |   |   |  |                                   |   |                                     |  |  |  |  |  |
| Cs-134(Approx. 2 years)  |   |   |  |   |   |  |                                   |   |                                     |  |  |  | 60   | 10   |
| Cs-137(Approx.30 years)  |   |   |  |   |   |  |                                   |   |                                     |  |  |  | 90   | 10   |
| Gross β                  |   |   |  |   |   |  |                                   |   |                                     |  |  | <u> </u>   |  |  |
| H-3 (Approx. 12 years)   |   |   |  |   |   |  |                                   |   |                                     |  |  |  | 60,000   | 10,000   |
| Sr-90 (Approx. 29 years) | /   | /   | /  | /   | /   | /  | V                                 | /   | /                                   | /  | /  | V  | 30   | 10   |

<sup>\* &</sup>quot;ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.

 $<sup>^{\</sup>star}$  "-" indicates that the measurement was out of range.

<sup>\*</sup> Density Limit Specified by the Rule for the Installation, Operation, etc. of Commercial Nuclear Power Reactors (the density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2 [the amount is converted from Bq/cm 3 to Bq/L]).

### <Reference> The Highest Dose Until the Previous Measurement (Groundwater Obtained at Bank Protection)

|         |                           |                                  |        |                            |          |                            |                   |         |                               |                  |                                 |                   |                                |                |                               |         |                               |                            |           |                           |                |                            |                  |         |  | U      | Init: Bq/L                              |
|---------|---------------------------|----------------------------------|--------|----------------------------|----------|----------------------------|-------------------|---------|-------------------------------|------------------|---------------------------------|-------------------|--------------------------------|----------------|-------------------------------|---------|-------------------------------|----------------------------|-----------|---------------------------|----------------|----------------------------|------------------|---------|--|--------|---|
|         |                           | Groundw<br>observatior<br>No.0-1 | n hole | Ground<br>observat<br>No.0 | ion hole | Ground<br>observat<br>No.0 | ion hole          | observa | ndwater<br>ition hole<br>.0-2 | observ           | ndwater<br>ation hole<br>.0-3-1 | observa           | ndwater<br>ation hole<br>0-3-2 | observa        | idwater<br>ition hole<br>.0-4 | observa | ndwater<br>ation hole<br>lo.1 | Ground<br>observati<br>No. | tion hole | Ground<br>observat<br>No. | ion hole       | Ground<br>observati<br>No. | tion hole        | observa | dwater<br>tion hole<br>.1-4 <sup>*</sup> |        | dwater<br>tion hole<br>1-5 <sup>*</sup> |
|         | Cs-134 (Approx. 2 years)  | 7.9 * 2                          | 2/23>  | ND                         |          | ND                         |                   | 0.61    | [10/13]                       | 0.44             | [11/24]                         | 0.82              | <1/14>                         | ND             |                               | 13      | [8/29]                        | 1.9                        | [7/8]     | 11,000                    | [7/9]          | 10                         | [9/2]            | 1.5     | [7/8]                                    | 310    | [8/5]                                   |
|         | Cs-137 (Approx.30 years)  | 20 * 2 <2                        | 2/23>  | 0.58                       | [12/7]   | 0.51                       | [11/17]           | 2.2     | <1/12>                        | 0.86             | [11/20]                         | 2.1               | <1/14>                         | 1.4            | <1/12>                        | 31      | [8/29]                        | 3.6                        | [7/8]     | 22,000                    | [7/9]          | 24                         | [9/2]            | 3.6     | [7/8]                                    | 650    | [8/5]                                   |
|         | Ru-106 (Approx. 370 days) | ND                               |        | ND                         |          | ND                         |                   | ND      |                               | ND               |                                 | ND                |                                | ND             |                               | 26      | [5/24]                        | 7.9                        | [7/8]     | 160                       | [8/15]         | 17                         | [7/22]<br>[8/8]  | 3.1     | [8/8]                                    | ND     |   |
| The     | Mn-54 (Approx. 310 days)  | ND                               |        | ND                         |          | ND                         |                   | ND      |                               | ND               |                                 | 0.64              | <2/20>                         | ND             |                               | ND      |                               | 1.0                        | [7/5]     | 62                        | [7/5]          | ND                         |                  | ND      |  | ND     |   |
| other y | Co-60 (Approx. 5 years)   | ND                               |        | ND                         |          | ND                         |                   | ND      |                               | ND               |                                 | ND                |                                | ND             |                               | 0.50    | [7/19]                        | ND                         |           | 3.1                       | [7/8]          | ND                         |                  | ND      |  | ND     |   |
|         | Sb-125 (Approx. 3 years)  | ND                               |        | ND                         |          | ND                         |                   | ND      |                               | ND               |                                 | ND                |                                | ND             |                               | 1.7     | [7/11]                        | ND                         |           | 250                       | [7/15]         | 1.4                        | [7/12]<br>[8/26] | ND      |  | 12     | [8/8]                                   |
|         | Gross β                   | 300 [8                           | 8/22]  | 21                         | [12/7]   | 21                         | [11/10]           | 87      | [10/13]                       | ND               |                                 | 67 *1             | [12/11]                        | 29             | [12/29]                       | 1,900   | [5/24]                        | 4,400                      | [7/8]     | 900,000                   | [7/5]<br>[7/9] | 160,000                    | (8/12)<br>(8/15) | 380     | [8/19]                                   | 56,000 | [8/5]                                   |
|         | H-3 (Approx. 12 years)    | 45,000 [8                        | 8/29]  | 18,000                     | [12/7]   | 74,000                     | [12/15]<br><1/19> | 6,800   | <2/16>                        | ND               |                                 | 76,000            | <2/6>                          | 56,000         | <2/23>                        | 500,000 | (5/24)<br>(6/7)               | 630,000                    | [7/8]     | 430,000                   | [9/16]         | 290,000                    | [7/12]           | 98,000  | [7/11]                                   | 72,000 | [8/15]                                  |
|         | Sr-90(Approx. 29 years)   | 140 [                            | [8/8]  | Under analysis             |          | Under analysis             |                   | 0.73    | [9/2]                         | Under<br>analysi |                                 | Under<br>analysis | ,                              | Under analysis |                               | 1,300   | [8/22]                        | 2,300                      | [6/28]    | 5,000,000                 | [7/5]          | 130,000                    | [8/8]            | 200     | [7/8]                                    | 5,100  | [8/22]                                  |

|         |                           |         |                               |         |                             |         |                             |  |         |                                |                   |                                |                   |                             |  |          |                                |                   |                                |         |                                |         |                               |         | Unit: Bq/L                      |
|---------|---------------------------|---------|-------------------------------|---------|-----------------------------|---------|-----------------------------|--|---------|--------------------------------|-------------------|--------------------------------|-------------------|-----------------------------|--|----------|--------------------------------|-------------------|--------------------------------|---------|--------------------------------|---------|-------------------------------|---------|---------------------------------|
|         |                           | observa | ndwater<br>ation hole<br>1-11 | observa | dwater<br>tion hole<br>1-11 | observa | dwater<br>tion hole<br>1-11 | Groundwater<br>observation hole<br>No.1-11 | observa | ndwater<br>ation hole<br>.1-11 | observa           | ndwater<br>ation hole<br>.1-11 | observa           | dwater<br>tion hole<br>1-11 | Groundwater<br>observation hole<br>No.1-11 | observ   | ndwater<br>ation hole<br>.1-11 | observa           | ndwater<br>ation hole<br>.1-11 | observa | ndwater<br>ation hole<br>.1-11 | observa | ndwater<br>ation hole<br>o.2* | observa | ndwater<br>ation hole<br>0.2-1* |
| C       | Cs-134 (Approx. 2 years)  | 3,000   | <2/27>                        | 47      | [11/25]                     | 170     | [9/3]                       | -  | 1.1     | <1/13>                         | 74                | [10/21]                        | 37,000            | <2/13>                      | 88 *2 <2/27>                               | 3.1 *    | <sup>1</sup> [12/13]           | 1.2               | [12/5]                         | 110     | [9/23]                         | 0.88    | <2/26>                        | 0.66    | [9/1]                           |
| C       | Cs-137 (Approx.30 years)  | 7,600   | <2/27>                        | 110     | [11/25]                     | 380     | [9/3]                       | -  | 2.8     | <1/13>                         | 170               | [10/21]                        | 93,000            | <2/13>                      | 230 *2 <2/27>                              | 4.7      | <2/17>                         | 1.0               | <2/20>                         | 250     | [9/23]                         | 2.5     | <2/26>                        | 1.1     | [8/29]<br>[9/1]                 |
|         | Ru-106 (Approx. 370 days) | ND      |                               | ND      |                             | ND      |                             | -  | ND      |                                | 5.4               | [10/28]                        | ND                |                             | ND   | 9.2      | [10/28]                        | 4.1               | [12/12]                        | 25      | [9/2]                          | ND      |                               | ND      |                                 |
| The     | Mn-54 (Approx. 310 days)  | 320     | <2/13><br><2/17>              | 12      | <2/3>                       | ND      |                             | -  | ND      |                                | ND                |                                | ND                |                             | ND   | ND       |                                | ND                |                                | 4.4     | <2/24>                         | ND      |                               | ND      |                                 |
| other y | Co-60 (Approx. 5 years)   | 830     | <2/20>                        | 1.3     | <2/3>                       | ND      |                             | -  | ND      |                                | 0.51              | [10/24]                        | ND                |                             | ND   | 0.9      | [11/7]                         | 0.61              | [11/25]                        | ND      |                                | ND      |                               | ND      |                                 |
|         | Sb-125 (Approx. 3 years)  | ND      |                               | ND      |                             | ND      |                             | -  | ND      |                                | 61                | [10/21]                        | ND                |                             | ND   | 11       | [12/5]                         | 2.1               | [11/25]                        | ND      |                                | ND      |                               | ND      |                                 |
|         | Gross β                   | 760,000 | <2/17>                        | 59,000  | <2/3>                       | 2,100   | [11/17]                     | *2<br>78 <1/27>                            | 2,300   | [12/26]                        | 730               | [10/21]                        | 260,000           | <2/12><br><2/13>            | 780 <2/28>                                 | 3,100,00 | <1/20> <1/30> <1/30> <2/3>     | 130               | [12/2]<br>[12/23]              | 700,000 | [9/23]                         | 1,700   | [7/8]                         | 380     | [7/29]                          |
|         | H-3 (Approx. 12 years)    | 110,000 |                               | 12,000  | <1/6><br><2/3>              | 860 * 2 | [11/14]                     | 270,000 <1/27>                             | 85,000  | [9/13]                         | 440,000           | [10/31]                        | 88,000            | <2/12>                      | 23,000 <2/13>                              | 43,000   | [9/26]                         | 32,000            | <1/20>                         | 460,000 | [8/19]                         | 1,000   | <2/23>                        | 440     | [8/26]                          |
| ;       | Sr-90(Approx. 29 years)   | -       |                               | 1,300   | [9/16]                      | 170     | [9/3]                       | _  | 17      | [9/13]                         | Under<br>analysis |                                | Under<br>analysis |                             | Under<br>analysis                          | Under    |                                | Under<br>analysis |                                | -       |                                | 54      | [5/31]                        | 5.9     | [7/25]                          |

|         |                           | observa        | dwater<br>tion hole<br>.2-2 | observa           | idwater<br>ition hole<br>.2-3 |                |        | observa           | dwater<br>ition hole<br>.2-6 | observa           | dwater<br>tion hole<br>.2-7 | Groundwate<br>observation h<br>No.2-8 | -   | Groundwater<br>observation hole<br>No.2-9 | the we<br>(between | en Unit 2 | observa | ndwater<br>ation hole<br>lo.3 | observa | ndwater<br>ation hole<br>.3-1* | observa | ndwater<br>ation hole<br>0.3-4 | Grour | Unit: Ba/L<br>ndwater<br>ation hole<br>0.3-5 |
|---------|---------------------------|----------------|-----------------------------|-------------------|-------------------------------|----------------|--------|-------------------|------------------------------|-------------------|-----------------------------|---------------------------------------|-----|---|--------------------|-----------|---------|-------------------------------|---------|--------------------------------|---------|--------------------------------|-------|--|
| (       | Cs-134 (Approx. 2 years)  | 15             | <2/12>                      | 2.2               | <2/26>                        | 25             | <2/12> | 5.0               | <2/25>                       | 3.5               | <2/23>                      | -                                     |     | -   | 1.1                | (12/12)   | 3.5     | [7/25]                        | 1.2     | [7/25]<br>[8/8]                | 1.9     | <1/8>                          | 64    | <1/15>                                       |
| C       | Cs-137 (Approx.30 years)  | 38             | <2/12>                      | 5.5               | <2/26>                        | 62             | <2/12> | 12                | <2/25>                       | 9.0               | <2/23>                      | -                                     |     | 0.58 * 2 <2/11>                           | 2.6                | <2/16>    | 5.9     | [8/8]                         | 2.6     | [8/1]                          | 4.5     | <2/19>                         | 170   | <1/15>                                       |
|         | Ru-106 (Approx. 370 days) | ND             |                             | ND                |                               | ND             |        | ND                |                              | ND                |                             | -                                     |     | 6.5 *2 <2/11>                             | ND                 |           | ND      |                               | ND      |                                | ND      |                                | -     |  |
| The     | Mn-54 (Approx. 310 days)  | ND             |                             | 0.29              | [12/6]                        | 0.94           | <1/8>  | ND                |                              | ND                |                             | -                                     |     | -   | ND                 |           | ND      |                               | ND      |                                | 0.54    | [10/30]                        | -     |  |
| other y | Co-60 (Approx. 5 years)   | ND             |                             | ND                |                               | ND             |        | ND                |                              | ND                |                             | -                                     |     | -   | ND                 |           | ND      |                               | ND      |                                | ND      |                                | -     |  |
|         | Sb-125 (Approx. 3 years)  | ND             |                             | ND                |                               | 30             | <2/12> | ND                |                              | ND                |                             | -                                     |     | -   | ND                 |           | 1.6     | <1/1>                         | ND      |                                | ND      |                                | -     |  |
|         | Gross β                   | 540            | <1/29>                      | 1,500             | [12/6]                        | 150,000        | <2/12> | 3,200             | [12/5]                       | 500               | <2/26>                      | 1,000 * 2 <2/2                        | 26> | 1,700 * 2 <2/7>                           | 240,000            | [12/12]   | 1,400   | [7/11]                        | 180     | [8/1]                          | 17      | <2/12>                         | 69    | <1/29>                                       |
|         | H-3 (Approx. 12 years)    | 660            | <1/8>                       | 1,700             | [12/6]                        | 6,300          | [12/4] | 1,200             | [11/24]<br>[11/27]           | 1,100             | <1/17>                      | *2<br>600 <2/2                        | 26> | *2<br>13,000 <2/7>                        | 5,100              | [12/6]    | 3,200   | [H24.<br>12/12]               | 460     | [8/1]                          | 170     | [9/18]                         | 170   | <1/8>  |
| ;       | Sr-90(Approx. 29 years)   | Under analysis |                             | Under<br>analysis |                               | Under analysis |        | Under<br>analysis |                              | Under<br>analysis |                             | -                                     |     | -   | -                  |           | 8.3     | [H24.<br>12/12]               | 4.4     | [7/23]                         | ND      |                                | -     |  |

<sup>•</sup> Since some samples are still under analysis, the highest dose of the Strontium-90 is among those previously announced.

<sup>\*1</sup> Analysis result of pumped water.

<sup>\*2</sup> The results are for a reference, since the water was highly turbid. ( $\gamma$  and Gross  $\beta$  were measured after filtration.)

 $<sup>^{\</sup>star}$  "ND" indicates that the measurement result is below the detection limit.

<sup>\*</sup> Date of sampling is provided in parentheses: [mm/dd] for 2013 and <mm/dd > for 2014

<sup>\* &</sup>quot;\*" is provided next to the name of the holes where the sampling could not be performed due to the chemical injection of ground improvement.

#### <Reference> The Highest Dose Until the Previous Measurement\* (Seawater)

Unit: Bg/L

|                          | ,   | side of Unit<br>arge channel |     | ont of Unit 6<br>ake channel |     | t of shallow<br>quay | 1-4 wat | side of Unit<br>ter intake<br>annel | 1-4 wa<br>channel ( | side of Unit<br>ter intake<br>north side of<br>awall Break) |       | t 1 Screen<br>e Silt Fence) | intake char<br>and Unit | en the water<br>nnel of Unit 1<br>2 (surface<br>yer) | intake cha | en the water<br>nnel of Unit 1<br>(lower layer) |       | 2 Screen<br>e Silt Fence) | intake char | en the water<br>nnel of Unit 2<br>Unit 3 |       | 3 Screen<br>Silt Fence) | intake char | en the water<br>inel of Unit 3<br>Unit 4 |
|--------------------------|-----|------------------------------|-----|------------------------------|-----|----------------------|---------|-------------------------------------|---------------------|---|-------|-----------------------------|-------------------------|--|------------|---|-------|---------------------------|-------------|--|-------|-------------------------|-------------|--|
| Cs-134(Approx. 2 years)  | 1.8 | [6/21]                       | 2.8 | [12/2]                       | 5.3 | [8/5]                | 89      | [10/10]                             | 32                  | [10/11]   | 73    | [10/10]                     | 87                      | [10/10]  | 93         | [10/10]   | 370   | [10/9]                    | 52          | [12/21]                                  | 350   | [7/15]                  | 28          | [9/16]                                   |
| Cs-137(Approx.30 years)  | 3.3 | [6/26]                       | 5.8 | [12/2]                       | 8.6 | [8/5]                | 190     | [10/10]                             | 73                  | [10/11]   | 170   | [10/10]                     | 200                     | [10/10]  | 200        | [10/10]   | 830   | [10/9]                    | 110         | [10/11]<br>[12/21]                       | 770   | [7/15]                  | 53          | [12/16]                                  |
| Gross β                  | 17  | <1/6>                        | 46  | [8/19]                       | 40  | [7/3]                | 1,400   | [11/7]                              | 320                 | [8/12]  | 740   | [10/28]                     | 1,200                   | [12/8]   | 450        | [7/16]  | 1,700 | [10/9]                    | 480         | [10/7]                                   | 1,000 | [7/15]                  | 390         | [8/12]                                   |
| H-3 (Approx. 12 years)   | 8.6 | [6/26]                       | 24  | [8/19]                       | 340 | [6/26]               | 4,800   | [11/7]                              | 510                 | [9/2]   | 2,800 | [10/28]                     | 2,800                   | [12/8]   | 1,600      | [9/1]   | 2,100 | [10/28]                   | 1,200       | [10/7]                                   | 410   | [9/2]                   | 650         | [8/12]                                   |
| Sr-90 (Approx. 29 years) | 5.8 | (6/26)                       | _   |                              | 7.4 | (6/26)               | 720     | [9/22]                              | 220                 | [8/19]  | 480   | [10/14]                     | 480                     | [8/22]   | 290        | [10/20]   | 430   | [10/14]                   | 340         | [10/14]                                  | 120   | [9/23]                  | 190         | [9/23]                                   |

Unit: Bq/L

|                          | , - | 4 Screen<br>e Silt Fence) |      | d the south<br>le channel | 1F, Por | t entrance | 1F, East si | de in the port |     | t side in the port |     | n side in the<br>port |     | h side in the<br>port | North side of the north breakwater | Northeast side of the port entrance | East side of the south breakwater | Southeast side of the north breakwater | South side of the south breakwater |
|--------------------------|-----|---------------------------|------|---------------------------|---------|------------|-------------|----------------|-----|--------------------|-----|-----------------------|-----|-----------------------|------------------------------------|-------------------------------------|-----------------------------------|--|------------------------------------|
| Cs-134(Approx. 2 years)  | 62  | [9/16]                    | ND   |                           | 3.3     | [12/24]    | 3.3         | [10/17]        | 4.4 | [12/24]            | 5.0 | [12/2]                | 3.5 | [10/17]               | ND                                 | ND                                  | ND                                | ND                                     | ND                                 |
| Cs-137(Approx.30 years)  | 140 | [9/16]                    | 3.0  | [7/15]                    | 7.3     | [10/11]    | 9.0         | [10/17]        | 10  | [12/24]            | 8.4 | [12/2]                | 7.8 | [10/17]               | ND                                 | ND                                  | 1.6 [10/18]                       | ND                                     | ND                                 |
| Gross β                  | 360 | [10/7]                    | 15   | <1/13>                    | 69      | [8/19]     | 74          | [8/19]         | 60  | [7/4]              | 69  | [8/19]                | 79  | [8/19]                | ND                                 | ND                                  | ND                                | ND                                     | ND                                 |
| H-3 (Approx. 12 years)   | 400 | [8/12]<br>[10/7]          | 1.9  | [11/25]                   | 68      | [8/19]     | 67          | [8/19]         | 59  | [8/19]             | 52  | [8/19]                | 60  | [8/19]                | 4.7 [8/14]                         | ND                                  | 6.4 [10/8]                        | ND                                     | ND                                 |
| Sr-90 (Approx. 29 years) | 130 | [9/23]                    | 0.36 | (6/26 <sup>*1</sup>       | 49      | [8/19]     | _           |                | _   |                    | -   |                       | _   |                       | _                                  | -                                   | -                                 | _                                      | -                                  |

<sup>\*</sup> The highest result announced in "Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection" or the other handouts is provided.

As for "1F, North side of Unit 1-4 water intake channel", the data is obtained since January 14, 2013. For the other locations, the data is obtained since June 14, 2014.

[Reference] Standard values

Unit: Bq/L

|  | Cs-134 | Cs-137 | H-3    | Sr-90 |
|--|--------|--------|--------|-------|
| Density Limit Specified by the Rule for the Installation, Operation, etc. of Commercial Nuclear Power Reactors (the density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2) | 60     | 90     | 60,000 | 30    |
| WHO Guidelines for drinking-water quality  | 10     | 10     | 10,000 | 10    |

<sup>•</sup> Since some samples are still under analysis, the highest dose of the Strontium-90 is among those previously announced.

<sup>\*1</sup> Since reanalysis is ongoing, the figures are just for a reference.

<sup>\* &</sup>quot;ND" indicates that the measurement result is below the detection limit.

<sup>\*</sup> Date of sampling is provided in parentheses: (mm/dd)for 2013 and <mm/dd > for 2014

<sup>\* &</sup>quot;-" indicates that the measurement was out of range.