

Results of Nuclide Analyses of Sub-drain Water nearby Centralized Radiation Waste Treatment Facility (1/3)

I-131 (Bq/cm<sup>3</sup>)

| Place of sampling | Before transfer |      |      |       | After transfer |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |  |  |  |
|-------------------|-----------------|------|------|-------|----------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|
|                   | 4/16            | 4/17 | 4/18 | 4/19  | 4/20           | 4/21 | 4/22  | 4/23  | 4/24  | 4/25  | 4/26  | 4/27  | 4/28  | 4/29  | 4/30  | 5/1   | 5/2   | 5/3   | 5/4   | 5/5   | 5/6   | 5/7   | 5/8   | 5/9   | 5/10  | 5/11  | 5/12  | 5/13  |  |  |  |  |
|                   | -               | 0.83 | 0.54 | 0.32  | 0.15           | 2.1  | -     | 0.21  | 0.18  | 0.093 | 0.074 | 0.049 | 0.06  | 0.032 | 0.025 | 0.008 | 0.012 | 0.018 | 0.022 | 0.012 | 0.016 | ND    | ND    | ND    | 0.008 | ND    | ND    | 0.16  |  |  |  |  |
|                   | 0.13            | 0.11 | 0.11 | 0.087 | 0.11           | 0.11 | 0.11  | 0.19  | 0.16  | 0.21  | 0.19  | 0.18  | 0.16  | 0.16  | 0.16  | 0.12  | 0.095 | 0.089 | 0.098 | 0.09  | 0.11  | 0.081 | 0.075 | 0.065 | 0.063 | 0.053 | 0.046 | 0.04  |  |  |  |  |
|                   | -               | -    | -    | 0.038 | 0.053          | 0.06 | 0.056 | 0.051 | 0.035 | 0.031 | 0.028 | 0.023 | 0.027 | 0.022 | 0.021 | 0.012 | 0.023 | 0.017 | 0.023 | 0.03  | 0.028 | 0.016 | 0.019 | 0.018 | 0.017 | 0.014 | 0.012 | 0.015 |  |  |  |  |
|                   | 0.091           | -    | 0.12 | -     | -              | -    | -     | -     | -     | -     | 0.045 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     |  |  |  |  |
|                   | 0.5             | 0.35 | 0.42 | 0.34  | 0.33           | 0.15 | 0.069 | 0.15  | 0.78  | 0.23  | 0.13  | 0.12  | 0.19  | 0.083 | 0.062 | 0.051 | 0.054 | 0.022 | 0.019 | 0.018 | 0.027 | 0.023 | 0.051 | 0.018 | 0.052 | 0.043 | 0.03  | 0.05  |  |  |  |  |
|                   | -               | -    | -    | -     | -              | -    | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     |  |  |  |  |

Cs-134 (Bq/cm<sup>3</sup>)

| Place of sampling | Before transfer |       |       |       | After transfer |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |  |  |  |
|-------------------|-----------------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|
|                   | 4/16            | 4/17  | 4/18  | 4/19  | 4/20           | 4/21  | 4/22  | 4/23  | 4/24  | 4/25  | 4/26  | 4/27  | 4/28  | 4/29  | 4/30  | 5/1   | 5/2   | 5/3   | 5/4   | 5/5   | 5/6   | 5/7   | 5/8   | 5/9   | 5/10  | 5/11  | 5/12  | 5/13  |  |  |  |  |
|                   | -               | 0.083 | 0.076 | 0.097 | 0.096          | 0.48  | -     | 0.22  | 0.15  | 0.12  | 0.12  | 0.12  | 0.21  | 0.12  | 0.15  | 0.065 | 0.1   | 0.14  | 0.09  | 0.086 | 0.062 | 0.041 | 0.06  | 0.053 | 0.11  | 0.025 | 0.041 | 0.15  |  |  |  |  |
|                   | ND              | 0.048 | 0.033 | 0.046 | 0.071          | 0.024 | 0.026 | ND    | 0.025 | 0.025 | 0.02  | 0.022 | 0.045 | 0.031 | 0.014 | ND    | 0.021 | ND    | ND    | ND    | 0.21  | ND    | ND    | ND    | ND    | 0.02  | 0.011 | 0.029 |  |  |  |  |
|                   | -               | -     | -     | 0.007 | 0.012          | 0.047 | ND    | 0.023 | 0.03  | ND    | ND    | ND    | 0.035 | ND    | 0.018 | 0.009 | 0.028 | ND    | 0.013 | ND    | ND    | ND    | 0.007 | ND    | ND    | 0.01  | ND    | 0.15  |  |  |  |  |
|                   | 0.037           | -     | 0.016 | -     | -              | -     | -     | -     | -     | 0.015 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     |  |  |  |  |
|                   | 0.45            | 0.3   | 0.19  | 0.073 | 0.092          | 0.099 | 0.066 | 0.077 | 0.15  | 0.054 | 0.054 | 0.07  | 0.071 | 0.045 | 0.06  | 0.062 | 0.082 | 0.046 | 0.043 | 0.044 | 0.058 | 0.058 | 0.085 | 0.061 | 0.096 | 0.1   | 0.09  | 0.12  |  |  |  |  |
|                   | -               | -     | -     | -     | -              | -     | -     | -     | -     | -     | -     | -     | -     | -     | ND    | -     | -     | 0.031 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     |  |  |  |  |

Cs-137 (Bq/cm<sup>3</sup>)

| Place of sampling | Before transfer |       |       |       | After transfer |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |      |  |  |  |  |
|-------------------|-----------------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|--|--|--|--|
|                   | 4/16            | 4/17  | 4/18  | 4/19  | 4/20           | 4/21  | 4/22  | 4/23  | 4/24  | 4/25  | 4/26  | 4/27  | 4/28  | 4/29  | 4/30  | 5/1   | 5/2   | 5/3   | 5/4   | 5/5   | 5/6   | 5/7   | 5/8   | 5/9   | 5/10 | 5/11  | 5/12  | 5/13 |  |  |  |  |
|                   | -               | 0.11  | 0.093 | 0.095 | 0.095          | 0.51  | -     | 0.24  | 0.16  | 0.13  | 0.12  | 0.13  | 0.23  | 0.13  | 0.17  | 0.078 | 0.11  | 0.15  | 0.092 | 0.099 | 0.049 | 0.025 | 0.073 | 0.046 | 0.11 | 0.045 | 0.045 | 0.17 |  |  |  |  |
|                   | ND              | 0.042 | 0.031 | 0.037 | 0.072          | 0.038 | 0.032 | 0.022 | 0.019 | 0.027 | 0.023 | 0.031 | 0.033 | 0.022 | 0.014 | ND    | 0.028 | 0.021 | 0.022 | ND    | 0.23  | ND    | ND    | 0.008 | ND   | ND    | 0.033 |      |  |  |  |  |
|                   | -               | -     | -     | ND    | 0.016          | 0.043 | 0.023 | ND    | 0.029 | 0.014 | ND    | 0.022 | 0.032 | ND    | 0.021 | 0.008 | 0.03  | ND    | 0.01  | ND    | ND    | ND    | ND    | ND    | 0.01 | 0.015 | 0.03  | 0.15 |  |  |  |  |
|                   | 0.033           | -     | 0.013 | -     | -              | -     | -     | -     | -     | 0.02  | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -    |  |  |  |  |
|                   | 0.45            | 0.32  | 0.21  | 0.079 | 0.08           | 0.1   | 0.075 | 0.082 | 0.15  | 0.055 | 0.049 | 0.082 | 0.067 | 0.068 | 0.042 | 0.047 | 0.093 | 0.05  | 0.057 | 0.041 | 0.063 | 0.073 | 0.095 | 0.046 | 0.12 | 0.1   | 0.1   | 0.12 |  |  |  |  |
|                   | -               | -     | -     | -     | -              | -     | -     | -     | -     | -     | -     | -     | -     | -     | ND    | -     | -     | 0.035 | -     | -     | -     | -     | -     | -     | -    | -     | -     | -    |  |  |  |  |

\* Hyphen "-" indicates that neither sampling nor measurements were implemented.

\* Data on April 19 was treated as one before transfer since it was sampled just two hours after transfer so that small amount of water was transferred to the Process Main Building.

\* Sampling at Southwest part of the Process Main Building ( ) was conducted once a week upto April 25 since it is located upper side of the groundwater.

\* Sampling at Southwest part of the On-site Bunker Building ( ) was conducted as upper side of the groundwater once a week from April 29 since it turned unable to sample at Southwest of the Process Main Building ( ).

|   |
|---|
| <Place of sampling>   |
| Southeast part of Unit 4 Turbine Building                                   |
| Northeast part of Process Main Building                                     |
| Southeast part of Process Main Building                                     |
| Southwest part of Process Main Building                                     |
| South part of Miscellaneous Solid Waste Volume Reduction Treatment Building |
| Southwest part of On-site Bunker Building                                   |



Results of Nuclide Analyses of Sub-drain Water nearby Centralized Radiation Waste Treatment Facility (3/3)

I-131 (Bq/cm<sup>3</sup>)

| Place of sampling | After transfer |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                   | 6/11           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   | 0.007          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   | ND             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   | ND             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   | -              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   | ND             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   | -              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   | 0.034          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   | 0.004          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Cs-134 (Bq/cm<sup>3</sup>)

| Place of sampling | After transfer |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                   | 6/11           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   | 0.047          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   | ND             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   | ND             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   | -              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   | 0.037          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   | -              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   | 0.29           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   | 0.043          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Cs-137 (Bq/cm<sup>3</sup>)

| Place of sampling | After transfer |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                   | 6/11           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   | 0.045          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   | ND             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   | ND             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   | -              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   | 0.04           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   | -              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   | 0.33           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   | 0.048          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

\* Hyphen "-" indicates that neither sampling nor measurements were implemented.

\* Data on April 19 was treated as the one before transfer since it was sampled just two hours after transfer so that small amount of water was transferred to the Process Main Building.

\* Sampling at Southwest part of the Process Main Building ( ) was conducted once a week upto April 25 since it is located at upstream of the groundwater.

\* Sampling at Southwest part of the On-site Bunker Building ( ) was conducted as upstream of the groundwater once a week from April 29 since it was unable to sample at Southwest of the Process Main Building ( ).

\* ND indicates here that the result was below the detection limits of the radioactivity concentration of these analyses (I-131: approx. 0.009Bq/cm<sup>3</sup>, Cs-134: approx. 0.02Bq/cm<sup>3</sup>, and Cs-137: approx. 0.02Bq/cm<sup>3</sup>) (June 11). The limits differ by the shape of the detector / conditions of samples, so may be detected below these figures.

\* Additional sampling at was conducted since it is located at thd downstream of the groundwater.

\* We have been sampling at since May 30.

- <Place of sampling>
- Southeast part of Unit 4 Turbine Building
  - Northeast part of Process Main Building
  - Southeast part of Process Main Building
  - Southwest part of Process Main Building
  - South part of Miscellaneous Solid Waste Volume Reduction Treatment Building
  - Southwest part of On-site Bunker Building
  - West part of Incineration Workshop Building
  - North part of Miscellaneous Solid Waste Volume Reduction Treatment Building