Reference
May 20, 2011

# Results of Nuclide Analyses of Sub-drains nearby Centralized Radiation Waste Treatment Facility (1/2)

I-131(Bq/cm$^3$)

| Place of sampling | Before water transfer | | | | After water 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 |
| ① | - | 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 |
| ② | 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 |
| ③ | - | - | - | 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 |
| ④ | 0.091 | - | 0.12 | - | - | - | - | - | - | 0.045 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ⑤ | 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 |
| ⑥ | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.059 | - | - | 0.056 | - | - | - | - | - | - | 0.027 | - | - | - | - |

Cs-134(Bq/cm$^3$)

| Place of sampling | Before water transfer | | | | After water 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 |
| ① | - | 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 |
| ② | 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 |
| ③ | - | - | - | 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 |
| ④ | 0.037 | - | 0.016 | - | - | - | - | - | - | 0.015 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ⑤ | 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 |
| ⑥ | - | - | - | - | - | - | - | - | - | - | - | - | - | ND | - | - | 0.031 | - | - | - | - | - | - | 0.037 | - | - | - | - |

Cs-137(Bq/cm$^3$)

| Place of sampling | Before water transfer | | | | After water 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 |
| ① | - | 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 |
| ② | 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 | 0.011 | 0.033 |
| ③ | - | - | - | 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 |
| ④ | 0.033 | - | 0.013 | - | - | - | - | - | - | 0.02 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ⑤ | 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 |
| ⑥ | - | - | - | - | - | - | - | - | - | - | - | - | - | ND | - | - | 0.035 | - | - | - | - | - | - | 0.023 | - | - | - | - |

* 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 amout of water was transferred to the Process Main Building.
* Sampling at Southwest part of the Process Main Building (④) 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 (⑥) was started as upper side of the groundwater once a week from April 29 since it was unable to sample at Southwest of

<Place of sampling>
①Southeast part of Unit 4 Turbine Building
②Northeast part of Process Main Building
③Southeast part of Process Main Building
④Southwest part of Process Main Building
⑤South part of Miscellaneous Solid Waste Volume Reduction Treatment Building
⑥Southwest part of On-site Bunker Building

May 20, 2011

# Results of Nuclide Analyses of Sub-drains nearby Centralized Radiation Waste Treatment Facility (2/2)

I-131(Bq/cm$^3$)

| Place of sampling | After water transfer | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5/14 | 5/15 | 5/16 | 5/17 | 5/18 | 5/19 | 5/20 | 5/21 | | | | | | | | | | | | | | | | | | | | | |
| ① | 0.21 | 0.058 | 0.036 | ND | 0.014 | 0.008 | ND | ND | | | | | | | | | | | | | | | | | | | | | |
| ② | 0.04 | 0.04 | 0.033 | 0.031 | 0.026 | 0.023 | 0.025 | 0.017 | | | | | | | | | | | | | | | | | | | | | |
| ③ | 0.019 | ND | 0.03 | 0.011 | ND | 0.009 | 0.006 | ND | | | | | | | | | | | | | | | | | | | | | |
| ④ | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | |
| ⑤ | 0.055 | 0.054 | 0.047 | 0.043 | 0.046 | 0.05 | 0.034 | 0.03 | | | | | | | | | | | | | | | | | | | | | |
| ⑥ | - | - | 0.012 | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | |

Cs-134(Bq/cm$^3$)

| Place of sampling | After water transfer | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5/14 | 5/15 | 5/16 | 5/17 | 5/18 | 5/19 | 5/20 | 5/21 | | | | | | | | | | | | | | | | | | | | | |
| ① | 2.6 | 0.11 | 0.08 | 0.06 | 0.062 | 0.081 | 0.046 | 0.056 | | | | | | | | | | | | | | | | | | | | | |
| ② | 0.016 | ND | 0.011 | ND | ND | 0.007 | 0.025 | ND | | | | | | | | | | | | | | | | | | | | | |
| ③ | 0.022 | ND | 0.1 | ND | ND | ND | 0.033 | ND | | | | | | | | | | | | | | | | | | | | | |
| ④ | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | |
| ⑤ | 0.13 | 0.12 | 0.13 | 0.13 | 0.15 | 0.13 | 0.14 | 0.11 | | | | | | | | | | | | | | | | | | | | | |
| ⑥ | - | - | 0.014 | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | |

Cs-137(Bq/cm$^3$)

| Place of sampling | After water transfer | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5/14 | 5/15 | 5/16 | 5/17 | 5/18 | 5/19 | 5/20 | 5/21 | | | | | | | | | | | | | | | | | | | | | |
| ① | 2.9 | 0.13 | 0.085 | 0.078 | 0.049 | 0.096 | 0.06 | 0.049 | | | | | | | | | | | | | | | | | | | | | |
| ② | 0.02 | ND | 0.009 | ND | ND | ND | 0.022 | 0.009 | | | | | | | | | | | | | | | | | | | | | |
| ③ | ND | 0.025 | 0.098 | ND | ND | ND | 0.033 | ND | | | | | | | | | | | | | | | | | | | | | |
| ④ | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | |
| ⑤ | 0.12 | 0.13 | 0.12 | 0.12 | 0.14 | 0.13 | 0.14 | 0.12 | | | | | | | | | | | | | | | | | | | | | |
| ⑥ | - | - | 0.011 | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | |

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<Place of sampling>
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②Northeast part of Process Main Building
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④Southwest part of Process Main Building
⑤South part of Miscellaneous Solid Waste Volume Reduction Treatment Building
⑥Southwest part of On-site Bunker Building