# Underground Reservoir Nuclide Analysis Results (As of July 29, 2013)

| | | Underground Reservoir (Drain hole water) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | i | | ii | | iii | | iv | | v | | vi | | vii | |
| | | Northeast side | Southwest side | Northeast side | Southwest side | Northeast side | Southwest side | Northeast side | Southwest side | Northeast side | Southwest side | Northeast side | Southwest side | Northeast side | Southwest side |
| Sampled time | | 7:58 AM | 8:09 AM | 7:53 AM | 8:01 AM | 7:49 AM | 7:55 AM | 7:41 AM | 7:48 AM | 7:47 AM | 7:43 AM | 7:59 AM | 7:51 AM | 8:04 AM | 8:08 AM |
| Chloride concentration (ppm) | | 9 | 6 | 9 | 7 | 9 | 2 | 10 | 5 | 10 | 5 | 10 | 11 | 6 | 7 |
| Radioactive concentration (Bq/cm$^3$) | I-131 | <2.8E-2 | <2.9E-2 | <2.7E-2 | <2.8E-2 | <2.8E-2 | <2.9E-2 | <2.8E-2 | <3.2E-2 | <2.6E-2 | <2.3E-2 | <2.8E-2 | <2.9E-2 | <2.8E-2 | <2.6E-2 |
| | Cs-134 | <5.0E-2 | <5.0E-2 | <4.8E-2 | <4.6E-2 | <4.6E-2 | <4.7E-2 | <4.8E-2 | <5.0E-2 | <4.7E-2 | <4.8E-2 | <4.9E-2 | <4.8E-2 | <4.7E-2 | <4.7E-2 |
| | Cs-137 | <6.3E-2 | <6.7E-2 | <6.3E-2 | <6.6E-2 | <6.4E-2 | <6.8E-2 | <6.5E-2 | <6.5E-2 | <6.3E-2 | <6.6E-2 | <6.4E-2 | <6.7E-2 | <6.5E-2 | <6.6E-2 |
| | γ nuclides other than the major 3 nuclides | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | All β | 2.2E+0 | <2.8E-2 | 1.4E-1 | <2.8E-2 | <2.8E-2 | <2.8E-2 | <2.8E-2 | <2.8E-2 | <2.8E-2 | 7.1E-2 | <2.8E-2 | <2.8E-2 | <2.8E-2 | <2.8E-2 |

Half-life period I-131: Approx. 8 days, Cs-134: Approx. 2 years, Cs-137: Approx. 30 years

| | | Underground Reservoir (Leakage detector hole water) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | i | | ii | | iii | | iv | | v | | vi | | vii | |
| | | Northeast side | Southwest side | Northeast side | Southwest side | Northeast side | Southwest side | Northeast side | Southwest side | Northeast side | Southwest side | Northeast side | Southwest side | Northeast side | Southwest side |
| Sampled time | | 7:34 AM | 7:41 AM | 7:40 AM | 7:46 AM | 7:45 AM | 7:51 AM | 7:35 AM | Not sampled | | | 7:56 AM | Not sampled | | |
| Chloride concentration (ppm) | | 10 | 6 | 10 | 9 | 10 | 9 | 9 | | | | 3 | | | |
| Radioactive concentration (Bq/cm$^3$) | I-131 | <3.4E-2 | <2.9E-2 | <2.8E-2 | <2.7E-2 | <2.6E-2 | <2.5E-2 | <2.6E-2 | | | | <2.9E-2 | | | |
| | Cs-134 | <5.1E-2 | <4.8E-2 | <4.8E-2 | <4.7E-2 | <5.0E-2 | <5.2E-2 | <4.6E-2 | | | | <4.6E-2 | | | |
| | Cs-137 | <6.5E-2 | <6.7E-2 | <6.3E-2 | <6.7E-2 | <6.5E-2 | <6.7E-2 | <6.5E-2 | | | | <6.8E-2 | | | |
| | γ nuclides other than the major 3 nuclides | ND | ND | ND | ND | ND | ND | ND | | | | ND | | | |
| | All β | 7.6E+1 | <2.8E-2 | 2.0E+0 | <2.8E-2 | <2.8E-2 | 2.1E+1 | <2.8E-2 | | | | <2.8E-2 | | | |

Half-life period I-131: Approx. 8 days, Cs-134: Approx. 2 years, Cs-137: Approx. 30 years

(Note 1) O.OE±O is the same as O.O x $10^{\pm O}$.

(Note 2) The figures written next to "<" indicate the detection limit when the measurement result is below the detection limit.

(Note 3) "ND" indicates that the measurement result of γ nuclides other than the major 3 nuclides are below the detection limit.

# Underground Reservoir Observation Holes Nuclide Analysis Results (As of July 29, 2013)

| | Underground reservoir observation holes (i - iii) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 | A10 | A11 | A12 | A13 | A14 |
| Sampled time | 8:29 AM | 8:36 AM | 8:44 AM | 8:54 AM | 8:35 AM | 8:47 AM | 8:55 AM | 9:16 AM | 9:25 AM | 9:33 AM | 9:34 AM | 9:27 AM | 9:20 AM | 9:13 AM |
| Chloride concentration (ppm) | 9 | 11 | 12 | 8 | 9 | 8 | 8 | 9 | 9 | 10 | 35 | 9 | 9 | 11 |
| All β(Bq/cm$^3$) | <2.8E-2 | <2.8E-2 | <2.8E-2 | <2.8E-2 | <2.8E-2 | <2.8E-2 | <2.8E-2 | <2.8E-2 | <2.8E-2 | <2.8E-2 | <2.8E-2 | <2.8E-2 | <2.8E-2 | <2.8E-2 |

| | Underground reservoir observation holes (i - iii) | | | | | Underground reservoir observation holes (vi) | | |
|---|---|---|---|---|---|---|---|---|
| | A15 | A16 | A17 | A18 | A19 | B1 | B2 | B3 |
| Sampled time | 9:04 AM | 8:56 AM | 8:43 AM | 9:04 AM | 9:44 AM | 9:13 AM | 9:21 AM | 9:30 AM |
| Chloride concentration (ppm) | 9 | 13 | 8 | 8 | 10 | 13 | 3 | 10 |
| All β(Bq/cm$^3$) | <2.8E-2 | <2.8E-2 | <2.8E-2 | <2.8E-2 | <2.8E-2 | <2.8E-2 | <2.8E-2 | <2.8E-2 |

(Note 1) O.OE±O is the same as O.O x $10^{\pm O}$.

(Note 2) The figures written next to "<" indicate the detection limit when the measurement result is below the detection limit.

**Nuclide Analysis Results of the Underground Bypass (Investigation Holes/Pumping Well) and the Sea Side Observation Holes**
**(As of July 29, 2013)**

| | Underground bypass investigation holes | | | Underground bypass pumping well | | | | Sea side observation holes | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a | b | c | 1 | 2 | 3 | 4 | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ |
| Sampled time | | | | | | | | | | | | 9:27 AM | 9:29 AM | 9:52 AM | 10:02 AM |
| Chloride concentration (ppm) | | | | | | | | | | | | 9 | 9 | 17 | 8 |
| Tritium ($Bq/cm^3$) | | | | | | | | | | | | Under analysis | Under analysis | Under analysis | Under analysis |
| All β($Bq/cm^3$) | | | | | | | | | | | | <2.8E-2 | <2.8E-2 | <2.8E-2 | <2.8E-2 |

Half-life period Tritium: Approx. 12 years

(Note 1) O.OE±O is the same as O.O x $10^{\pm O}$.
(Note 2) The figures written next to "<" indicate the detection limit when the measurement result is below the detection limit.