REVISED

[Definite Report] Nuclide Analysis Result of Seawater <Offshore of Ibaraki Prefecture>

Place of Sampling	3 km offshore of Takadokobama shore		3 km offshore of Kujihama shore		3 km offshore of Oarai shore		3 km offshore of Hirai shore		3 km offshore of Hasaki shore		② Density limit by the announcement of Reactor Regulation (Bq/cm3) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
Time of Sampling	09:03 May 11 2011		08:02 May 11 2011		10:53 May 11 2011		(6) 07:30 May 11 2011		08:48 May 11 2011		
Detected Nuclides (Half-life)	density of sample (Bq/cm3)	Scaling Factor (①/②)	density of sample (Bq/cm3)	Scaling Factor (①/②)	density of sample (Bq/cm3)	Scaling Factor (①/②)	density of sample (Bq/cm3)	Scaling Factor (①/②)	density of sample (Bq/cm3)	Scaling Factor (①/②)	
I-131 (approx.8days)	ND	-	ND	-	ND	-	ND	-	ND	-	4E-02
Cs-134 (approx.2years)	ND	-	ND	-	ND	-	ND	-	ND	-	6E-02
Cs-137 (approx.30years)	ND	-	ND	-	ND	-	ND	-	ND	-	9E-02
Mo-99 （approx.66hrs）	ND	-	ND	-	ND	-	ND	-	ND	-	(1) 1E+00
Tc-99m (approx.6hrs)	ND	-	ND	-	ND	-	ND	-	ND	-	4E+01
Te-129m (approx.34days)	ND	-	ND	-	ND	-	ND	-	ND	-	3E-01
Te-129 (approx. 70mins)	ND	-	ND	-	ND	-	ND	-	ND	-	1E+01
Te-132 (approx.3days)	ND	-	ND	-	ND	-	ND	-	ND	-	2E-01
I-132 (approx.2hrs)	ND	-	ND	-	ND	-	ND	-	ND	-	3E+00
Cs-136 (approx.13days)	ND	-	ND	-	ND	-	ND	-	ND	-	3E-01
Ba-140 (approx.13days)	ND	-	ND	-	ND	-	ND	-	ND	-	3E-01
La-140 (approx.2days)	ND	-	ND	-	ND	-	ND	-	ND	-	4E-01

* O.OE－O means O.O x 10-O

* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

ORIGINAL

[Definite Report] Nuclide Analysis Result of Seawater <Offshore of Ibaraki Prefecture>

Place of Sampling	3 km offshore of Takadokobama shore		3 km offshore of Kujihama shore		3 km offshore of Oarai shore		3 km offshore of Hirai shore		3 km offshore of Hasaki shore		② Density limit by the announcement of Reactor Regulation (Bq/cm3) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
Time of Sampling	09:03 May 11 2011		08:02 May 11 2011		10:53 May 11 2011		08:48 May 11 2011		07:30 May 11 2011		
Detected Nuclides (Half-life)	Density of sample (Bq/cm3)	Scaling Factor (①/②)	Density of sample (Bq/cm3)	Scaling Factor (①/②)	Density of sample (Bq/cm3)	Scaling Factor (①/②)	Density of sample (Bq/cm3)	Scaling Factor (①/②)	Density of sample (Bq/cm3)	Scaling Factor (①/②)	
I-131 (approx.8days)	ND	-	ND	-	ND	-	ND	-	ND	-	4E-02
Cs-134 (approx.2years)	ND	-	ND	-	ND	-	ND	-	ND	-	6E-02
Cs-137 (approx.30years)	ND	-	ND	-	ND	-	ND	-	ND	-	9E-02
Mo-99 (approx.66hrs)	ND	-	ND	-	ND	-	ND	-	ND	-	4E+01
Tc-99m (approx.6hrs)	ND	-	ND	-	ND	-	ND	-	ND	-	4E+01
Te-129m (approx.34days)	ND	-	ND	-	ND	-	ND	-	ND	-	3E-01
Te-129 (approx. 70mins)	ND	-	ND	-	ND	-	ND	-	ND	-	1E+01
Te-132 (approx.3days)	ND	-	ND	-	ND	-	ND	-	ND	-	2E-01
I-132 (approx.2hrs)	ND	-	ND	-	ND	-	ND	-	ND	-	3E+00
Cs-136 (approx.13days)	ND	-	ND	-	ND	-	ND	-	ND	-	3E-01
Ba-140 (approx.13days)	ND	-	ND	-	ND	-	ND	-	ND	-	3E-01
La-140 (approx.2days)	ND	-	ND	-	ND	-	ND	-	ND	-	4E-01

* O.OE－O means O.O x 10-O

* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

ORIGINAL

[Definate Report] Result of nuclide analysis of sub drain of Fukushima Daiichi NPS

Place of Sampling	Fukushima Daiichi NPS 1U sub-drain	Fukushima Daiichi NPS 2U sub-drain	Fukushima Daiichi NPS 3U sub-drain	Fukushima Daiichi NPS 4U sub-drain	Fukushima Daiichi NPS 5U sub-drain	Fukushima Daiichi NPS 6U sub-drain	Fukushima Daiichi NPS Deep well
Time of Sampling	11:40 Jun 20 2011	11:36 Jun 20 2011	11:32 Jun 20 2011	11:43 Jun 20 2011	11:20 Jun 20 2011	11:15 Jun 20 2011	16:55 Jun 20 2011
Detected Nuclides (Half-life)	Density of sample（Bq/cm3)						
I-131 (approx. 8 days)	ND	5.7E-01	ND	ND	ND	ND	ND
Cs-134 (approx. 2 years)	3.2E+00	1.1E+01	8.6E-02	ND	ND	ND	ND
Cs-137 (approx. 30 years)	4.0E+00	1.3E+01	8.2E-02	ND	ND	ND	ND
Nb-95 (approx.35days)	ND	ND	ND	ND	ND	ND	ND
Sb-125 (approx.3years)	ND	ND	ND	ND	ND	ND	ND
Ag-110m (approx.250days)	(2) ND	ND	ND	ND	ND	ND	ND
Te-129 (approx.70mins)	ND	ND	ND	ND	ND	ND	ND
Te-129m (approx.34days)	ND	ND	ND	ND	ND	ND	ND
Cs-136 (approx.13days)	ND	ND	ND	ND	ND	ND	ND
Ba-140 (approx.13days)	ND	ND	ND	ND	ND	ND	ND
La-140 (approx.2days)	ND	ND	ND	ND	ND	ND	ND

* O.OE－O means O.O x 10-O

* In this analysis, "ND" means that the results are bellow detection limits.
Detection limits of the three main nuclides are as follows: I-131: approx. 4E-2Bq/cm3、Cs-134: 2E-2Bq/cm3、Cs-137: 2E-2Bq/cm3.
Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

ORIGINAL

[Definate Report] Result of nuclide analysis of sub drain of Fukushima Daiichi NPS

Place of Sampling	Fukushima Daiichi NPS 1U sub-drain	Fukushima Daiichi NPS 2U sub-drain	Fukushima Daiichi NPS 3U sub-drain	Fukushima Daiichi NPS 4U sub-drain	Fukushima Daiichi NPS 5U sub-drain	Fukushima Daiichi NPS 6U sub-drain	Fukushima Daiichi NPS Deep well
Time of Sampling	11:40 Jun 20 2011	11:36 Jun 20 2011	11:32 Jun 20 2011	11:43 Jun 20 2011	11:20 Jun 20 2011	11:15 Jun 20 2011	16:55 Jun 20 2011
Detected Nuclides (Half-life)	Density of sample（Bq/cm3)						
I-131 (approx. 8 days)	ND	5.7E-01	ND	ND	ND	ND	ND
Cs-134 (approx. 2 years)	3.2E+00	1.1E+01	8.6E-02	ND	ND	ND	ND
Cs-137 (approx. 30 years)	4.0E+00	1.3E+01	8.2E-02	ND	ND	ND	ND
Nb-95 (approx.35days)	ND	ND	ND	ND	ND	ND	ND
Sb-125 (approx.3years)	ND	ND	ND	ND	ND	ND	ND
Ag-110m (approx.250days)	6.6E-02	ND	ND	ND	ND	ND	ND
Te-129 (approx.70mins)	ND	ND	ND	ND	ND	ND	ND
Te-129m (approx.34days)	ND	ND	ND	ND	ND	ND	ND
Cs-136 (approx.13days)	ND	ND	ND	ND	ND	ND	ND
Ba-140 (approx.13days)	ND	ND	ND	ND	ND	ND	ND
La-140 (approx.2days)	ND	ND	ND	ND	ND	ND	ND

* O.OE－O means O.O x 10-O

* In this analysis, "ND" means that the results are bellow detection limits.
Detection limits of the three main nuclides are as follows: I-131: approx. 4E-2Bq/cm3、Cs-134: 2E-2Bq/cm3、Cs-137: 2E-2Bq/cm3.
Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

ORIGINAL

[Definate Report] Result of nuclide analysis of sub drain of Fukushima Daiichi NPS

Place of Sampling	Fukushima Daiichi NPS 1U sub-drain	Fukushima Daiichi NPS 2U sub-drain	Fukushima Daiichi NPS 3U sub-drain	Fukushima Daiichi NPS 4U sub-drain	Fukushima Daiichi NPS 5U sub-drain	Fukushima Daiichi NPS 6U sub-drain	Fukushima Daiichi NPS Deep well
Time of Sampling	12:27 Jun 29 2011	12:17 Jun 29 2011	12:13 Jun 29 2011	11:55 Jun 29 2011	12:02 Jun 29 2011	11:58 Jun 29 2011	09:50 Jun 29 2011
Detected Nuclides (Half-life)	Density of sample（Bq/cm3)						
I-131 (approx. 8 days)	ND	3.0E-01	1.3E-01	ND	ND	ND	ND
Cs-134 (approx. 2 years)	3.1E+00	9.1E+00	3.1E-01	1.4E-02	ND	9.7E-03	ND
Cs-137 (approx. 30 years)	3.8E+00	1.1E+01	4.0E-01	2.4E-02	ND	1.1E-02	ND
Nb-95 (approx.35days)	ND	ND	ND	ND	ND	ND	ND
Sb-125 (approx.3years)	ND	ND	ND	ND	ND	ND	ND
Ag-110m (approx.250days)	(2) 2.6E-02	ND	ND	ND	ND	ND	ND
Te-129 (approx.70mins)	ND	ND	ND	ND	ND	ND	ND
Te-129m (approx.34days)	ND	ND	ND	ND	ND	ND	ND
Cs-136 (approx.13days)	ND	ND	ND	ND	ND	ND	ND
Ba-140 (approx.13days)	ND	ND	ND	ND	ND	ND	ND
La-140 (approx.2days)	ND	ND	ND	ND	ND	ND	ND

* O.OE－O means O.O x 10-O

* In this analysis, "ND" means that the results are bellow detection limits.
Detection limits of the three main nuclides are as follows: I-131: approx. 3E-2Bq/cm3、Cs-134: 6E-3Bq/cm3、Cs-137: 7E-3Bq/cm3.
Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

ORIGINAL

[Definate Report] Result of nuclide analysis of sub drain of Fukushima Daiichi NPS

Place of Sampling	Fukushima Daiichi NPS 1U sub-drain	Fukushima Daiichi NPS 2U sub-drain	Fukushima Daiichi NPS 3U sub-drain	Fukushima Daiichi NPS 4U sub-drain	Fukushima Daiichi NPS 5U sub-drain	Fukushima Daiichi NPS 6U sub-drain	Fukushima Daiichi NPS Deep well
Time of Sampling	12:27 Jun 29 2011	12:17 Jun 29 2011	12:13 Jun 29 2011	11:55 Jun 29 2011	12:02 Jun 29 2011	11:58 Jun 29 2011	09:50 Jun 29 2011
Detected Nuclides (Half-life)	Density of sample（Bq/cm3)						
I-131 (approx. 8 days)	ND	3.0E-01	1.3E-01	ND	ND	ND	ND
Cs-134 (approx. 2 years)	3.1E+00	9.1E+00	3.1E-01	1.4E-02	ND	9.7E-03	ND
Cs-137 (approx. 30 years)	3.8E+00	1.1E+01	4.0E-01	2.4E-02	ND	1.1E-02	ND
Nb-95 (approx.35days)	ND	ND	ND	ND	ND	ND	ND
Sb-125 (approx.3years)	ND	ND	ND	ND	ND	ND	ND
Ag-110m (approx.250days)	ND	ND	ND	ND	ND	ND	ND
Te-129 (approx.70mins)	ND	ND	ND	ND	ND	ND	ND
Te-129m (approx.34days)	ND	ND	ND	ND	ND	ND	ND
Cs-136 (approx.13days)	ND	ND	ND	ND	ND	ND	ND
Ba-140 (approx.13days)	ND	ND	ND	ND	ND	ND	ND
La-140 (approx.2days)	ND	ND	ND	ND	ND	ND	ND

* O.OE－O means O.O x 10-O

* In this analysis, "ND" means that the results are bellow detection limits.
Detection limits of the three main nuclides are as follows: I-131: approx. 3E-2Bq/cm3、Cs-134: 6E-3Bq/cm3、Cs-137: 7E-3Bq/cm3.
Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

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【Definite Report】The Results of Nuclide Analyses of Radioactive Materials in the Seawater <3/3>
Fukushima Daiichi Nuclear Power Station; the shallow draft quay, Units 1-4 screen, and the water intake canal of Units 1-4

Place of Sampling	Inside the south of 1F's Units 1-4 Water Intake Canal										②Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
Date of sampling	07:16 May 15, 2011										
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (approx. 8 days)	270	6.8									40
Cs-134 (approx. 2 years)	1,400	23									60
Cs-137 (approx. 30 years)	1,500	17									90
Mn-54 (approx. 313days)	ND	–									1,000
Co-60 (approx. 5years)	ND	–									200
Tc-99m (approx. 6hrs)	ND	–									40,000
Cs-136 (approx. 13days)	(2) 14	0.05									300
Ba-140 (approx. 13days)	ND	–									300
La-140 (approx. 2days)	21	0.05									400

* Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L.

* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

ORIGINAL

[Definite Report] The Results of Nuclide Analyses of Radioactive Materials in the Seawater <3/3>
Fukushima Daiichi Nuclear Power Station; the shallow draft quay, Units 1-4 screen, and the water intake canal of Units 1-4

Place of Sampling	Inside the south of 1F's Units 1-4 Water Intake Canal										②Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
Date of sampling	07:16 May 15, 2011										
Time of Sampling	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (approx. 8 days)	270	6.8									40
Cs-134 (approx. 2 years)	1,400	23									60
Cs-137 (approx. 30 years)	1,500	17									90
Mn-54 (approx. 313days)	ND	–									1,000
Co-60 (approx. 5years)	ND	–									200
Tc-99m (approx. 6hrs)	ND	–									40,000
Cs-136 (approx. 13days)	140	0.47									300
Ba-140 (approx. 13days)	ND	–									300
La-140 (approx. 2days)	21	0.05									400

* Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L.

* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

REVISED

【Definite Report】The Results of Nuclide Analyses of Radioactive Materials in the Seawater <2/3>
Fukushima Daiichi Nuclear Power Station; the shallow draft quay, Units 1-4 screen, and the water intake canal of Units 1-4

Place of Sampling	Screen of 1F's Unit 2 (inside the silt fence)		Screen of 1F's Unit 3 (outside the silt fence)		Screen of 1F's Unit 3 (inside the silt fence)		Screen of 1F's Unit 4 (outside the silt fence)		Screen of 1F's Unit 4 (inside the silt fence)		②Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
Date of sampling	06:34 May 28, 2011		06:48 May 28, 2011		06:44 May 28, 2011		06:48 May 28, 2011		06:44 May 28, 2011		
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (approx. 8 days)	24,000	600	410	10	720	18	410	10	160	4.0	40
Cs-134 (approx. 2 years)	4,100	68	1,300	22	5,100	85	4,700	78	4,500	75	60
Cs-137 (approx. 30 years)	4,300	48	1,400	16	5,400	60	5,100	57	4,800	53	90
Mn-54 (approx. 313days)	ND	–	ND	–	ND	–	ND	–	ND	–	1,000
Co-60 (approx. 5years)	ND	–	ND	–	ND	–	ND	–	ND	–	200
Tc-99m (approx. 6hrs)	ND	–	ND	–	ND	–	ND	–	ND	–	40,000
Te-129 (approx. 70mins)	ND	–	ND	–	ND	–	ND	–	620	(3) 0.06	10,000
Cs-136 (approx. 13days)	19	0.06	ND	–	23	0.08	ND	–	21	0.07	300
Ba-140 (approx. 13days)	ND	–	ND	–	ND	–	ND	–	ND	–	300
La-140 (approx. 2days)	ND	–	ND	–	ND	–	11	0.03	ND	–	400

* Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L.
* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.
* In this analysis, "ND" means that the results are bellow detection limits of seawater.

ORIGINAL

【Definite Report】The Results of Nuclide Analyses of Radioactive Materials in the Seawater <2/3>
Fukushima Daiichi Nuclear Power Station; the shallow draft quay, Units 1-4 screen, and the water intake canal of Units 1-4

Place of Sampling	Screen of 1F's Unit 2 (inside the silt fence)		Screen of 1F's Unit 3 (outside the silt fence)		Screen of 1F's Unit 3 (inside the silt fence)		Screen of 1F's Unit 4 (outside the silt fence)		Screen of 1F's Unit 4 (inside the silt fence)		②Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
Date of sampling	06:34 May 28, 2011		06:48 May 28, 2011		06:44 May 28, 2011		06:48 May 28, 2011		06:44 May 28, 2011		
Time of Sampling	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (approx. 8 days)	24,000	600	410	10	720	18	410	10	160	4.0	40
Cs-134 (approx. 2 years)	4,100	68	1,300	22	5,100	85	4,700	78	4,500	75	60
Cs-137 (approx. 30 years)	4,300	48	1,400	16	5,400	60	5,100	57	4,800	53	90
Mn-54 (approx. 313days)	ND	–	ND	–	ND	–	ND	–	ND	–	1,000
Co-60 (approx. 5years)	ND	–	ND	–	ND	–	ND	–	ND	–	200
Tc-99m (approx. 6hrs)	ND	–	ND	–	ND	–	ND	–	ND	–	40,000
Te-129 (approx. 70mins)	ND	–	ND	–	ND	–	ND	–	620	0.10	10,000
Cs-136 (approx. 13days)	19	0.06	ND	–	23	0.08	ND	–	21	0.07	300
Ba-140 (approx. 13days)	ND	–	ND	–	ND	–	ND	–	ND	–	300
La-140 (approx. 2days)	ND	–	ND	–	ND	–	11	0.03	ND	–	400

* Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L.

* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

* In this analysis, "ND" means that the results are bellow detection limits of seawater.

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【Definite Report】The Results of Nuclide Analyses of Radioactive Materials in the Seawater <2/3>
Fukushima Daiichi Nuclear Power Station; the shallow draft quay, Units 1-4 screen, and the water intake canal of Units 1-4

Place of Sampling	Screen of 1F's Unit 2 (inside the silt fence)		Screen of 1F's Unit 3 (outside the silt fence)		Screen of 1F's Unit 3 (inside the silt fence)		Screen of 1F's Unit 4 (outside the silt fence)		Screen of 1F's Unit 4 (inside the silt fence)		②Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
Date of sampling	07:07 Jun 29, 2011		07:10 Jun 29, 2011		07:13 Jun 29, 2011		07:17 Jun 29, 2011		07:19 Jun 29, 2011		
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (approx. 8 days)	270	6.8	49	1.2	98	2.5	40	1.0	40	1.0	40
Cs-134 (approx. 2 years)	860	14	230	3.8	4,500	75	270	4.5	1,200	20	60
Cs-137 (approx. 30 years)	940	10	270	3.0	4,800	53	280	3.1	1,300	14	90
Mn-54 (approx. 313days)	ND	–	ND	–	15	(3) 0.02	ND	–	ND	–	1,000
Co-60 (approx. 5years)	ND	–	ND	–	ND	–	ND	–	ND	–	200
Tc-99m (approx. 6hrs)	ND	–	ND	–	ND	–	ND	–	ND	–	40,000
Te-129m (approx. 34days)	ND	–	ND	–	ND	–	ND	–	ND	–	300
Te-129 (approx. 70mins)	ND	–	ND	–	ND	–	ND	–	ND	–	10,000
Cs-136 (approx. 13days)	ND	–	ND	–	ND	–	ND	–	ND	–	300
Ba-140 (approx. 13days)	ND	–	ND	–	ND	–	ND	–	ND	–	300
La-140 (approx. 2days)	ND	–	ND	–	ND	–	ND	–	ND	–	400

* Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L.
* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.
* In this analysis, "ND" means that the results are bellow detection limits of seawater.

ORIGINAL

【Definite Report】The Results of Nuclide Analyses of Radioactive Materials in the Seawater <2/3>
Fukushima Daiichi Nuclear Power Station; the shallow draft quay, Units 1-4 screen, and the water intake canal of Units 1-4

Place of Sampling	Screen of 1F's Unit 2 (inside the silt fence)		Screen of 1F's Unit 3 (outside the silt fence)		Screen of 1F's Unit 3 (inside the silt fence)		Screen of 1F's Unit 4 (outside the silt fence)		Screen of 1F's Unit 4 (inside the silt fence)		②Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
Date of sampling	07:07 Jun 29, 2011		07:10 Jun 29, 2011		07:13 Jun 29, 2011		07:17 Jun 29, 2011		07:19 Jun 29, 2011		
Time of Sampling	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (approx. 8 days)	270	6.8	49	1.2	98	2.5	40	1.0	40	1.0	40
Cs-134 (approx. 2 years)	860	14	230	3.8	4,500	75	270	4.5	1,200	20	60
Cs-137 (approx. 30 years)	940	10	270	3.0	4,800	53	280	3.1	1,300	14	90
Mn-54 (approx. 313days)	ND	–	ND	–	15	0.0	ND	–	ND	–	1,000
Co-60 (approx. 5years)	ND	–	ND	–	ND	–	ND	–	ND	–	200
Tc-99m (approx. 6hrs)	ND	–	ND	–	ND	–	ND	–	ND	–	40,000
Te-129m (approx. 34days)	ND	–	ND	–	ND	–	ND	–	ND	–	300
Te-129 (approx. 70mins)	ND	–	ND	–	ND	–	ND	–	ND	–	10,000
Cs-136 (approx. 13days)	ND	–	ND	–	ND	–	ND	–	ND	–	300
Ba-140 (approx. 13days)	ND	–	ND	–	ND	–	ND	–	ND	–	300
La-140 (approx. 2days)	ND	–	ND	–	ND	–	ND	–	ND	–	400

* Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L.

* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

* In this analysis, "ND" means that the results are bellow detection limits of seawater.

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【Definite Report】The Results of Nuclide Analyses of Radioactive Materials in the Seawater <3/3>
Fukushima Daiichi Nuclear Power Station; the shallow draft quay, Units 1-4 screen, and the water intake canal of Units 1-4

Place of Sampling	Inside the south of 1F's Units 1-4 Water Intake Canal										②Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
Date of sampling	07:25 Jun 29, 2011										
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (approx. 8 days)	47	(3) 1.2									40
Cs-134 (approx. 2 years)	200	3.3									60
Cs-137 (approx. 30 years)	220	2.4									90
Mn-54 (approx. 313days)	ND	–									1,000
Co-60 (approx. 5years)	ND	–									200
Tc-99m (approx. 6hrs)	ND	–									40,000
Te-129m (approx. 34days)	ND	–									300
Te-129 (approx. 70mins)	ND	–									10,000
Cs-136 (approx. 13days)	ND	–									300
Ba-140 (approx. 13days)	ND	–									300
La-140 (approx. 2days)	ND	–									400

* Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L.

* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

* In this analysis, "ND" means that the results are bellow detection limits of seawater.

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【Definite Report】The Results of Nuclide Analyses of Radioactive Materials in the Seawater <3/3>
Fukushima Daiichi Nuclear Power Station; the shallow draft quay, Units 1-4 screen, and the water intake canal of Units 1-4

Place of Sampling	Inside the south of 1F's Units 1-4 Water Intake Canal										②Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
Date of sampling	07:25 Jun 29, 2011										
Time of Sampling	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (approx. 8 days)	47	1.18									40
Cs-134 (approx. 2 years)	200	3.3									60
Cs-137 (approx. 30 years)	220	2.4									90
Mn-54 (approx. 313days)	ND	–									1,000
Co-60 (approx. 5years)	ND	–									200
Tc-99m (approx. 6hrs)	ND	–									40,000
Te-129m (approx. 34days)	ND	–									300
Te-129 (approx. 70mins)	ND	–									10,000
Cs-136 (approx. 13days)	ND	–									300
Ba-140 (approx. 13days)	ND	–									300
La-140 (approx. 2days)	ND	–									400

* Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L.

* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

* In this analysis, "ND" means that the results are bellow detection limits of seawater.

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【Definite Report】The Results of Nuclide Analyses of Radioactive Materials in the Seawater <1/3>
Fukushima Daiichi Nuclear Power Station; the shallow draft quay, Units 1-4 screen, and the water intake canal of Units 1-4

Place of Sampling	Shallow Draft Quay of 1F		Inside north water intake canal of 1F's Units 1-4		Screen of 1F's Unit 1 (outside the silt fence)		Screen of 1F's Unit 1 (inside the silt fence)		Screen of 1F's Unit 2 (outside the silt fence)		②Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
Date of sampling	07:16 Jul 06, 2011		07:28 Jul 06, 2011		07:35 Jul 06, 2011		07:35 Jul 06, 2011		07:45 Jul 06, 2011		
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (approx. 8 days)	ND	–	19	(3) 0.48	26	(3) 0.65	ND	–	34	(3) 0.85	40
Cs-134 (approx. 2 years)	77	1.3	350	5.8	320	5.3	320	5.3	380	6.3	60
Cs-137 (approx. 30 years)	87	(3) 0.97	380	4.2	360	4.0	340	3.8	380	4.2	90
Mn-54 (approx. 313days)	ND	–	ND	–	ND	–	ND	–	ND	–	1,000
Co-60 (approx. 5years)	ND	–	ND	–	ND	–	ND	–	ND	–	200
Tc-99m (approx. 6hrs)	ND	–	ND	–	ND	–	ND	–	ND	–	40,000
Te-129m (approx. 34days)	ND	–	ND	–	ND	–	ND	–	ND	–	300
Te-129 (approx. 70mins)	ND	–	ND	–	ND	–	ND	–	ND	–	10,000
Cs-136 (approx. 13days)	ND	–	ND	–	ND	–	ND	–	ND	–	300
Ba-140 (approx. 13days)	ND	–	ND	–	ND	–	ND	–	ND	–	300
La-140 (approx. 2days)	ND	–	ND	–	ND	–	ND	–	ND	–	400

* Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L.
* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.
* In this analysis, "ND" means that the results are bellow detection limits.
  Detection limits of the three main nuclides are as follows: I-131: approx. 21Bq/L.
  Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

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【Definite Report】The Results of Nuclide Analyses of Radioactive Materials in the Seawater <1/3>
Fukushima Daiichi Nuclear Power Station; the shallow draft quay, Units 1-4 screen, and the water intake canal of Units 1-4

Place of Sampling	Shallow Draft Quay of 1F		Inside north water intake canal of 1F's Units 1-4		Screen of 1F's Unit 1 (outside the silt fence)		Screen of 1F's Unit 1 (inside the silt fence)		Screen of 1F's Unit 2 (outside the silt fence)		②Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
Date of sampling	07:16 Jul 06, 2011		07:28 Jul 06, 2011		07:35 Jul 06, 2011		07:35 Jul 06, 2011		07:45 Jul 06, 2011		
Time of Sampling	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (approx. 8 days)	ND	–	19	0.5	26	0.7	ND	–	34	0.9	40
Cs-134 (approx. 2 years)	77	1.3	350	5.8	320	5.3	320	5.3	380	6.3	60
Cs-137 (approx. 30 years)	87	1.0	380	4.2	360	4.0	340	3.8	380	4.2	90
Mn-54 (approx. 313days)	ND	–	ND	–	ND	–	ND	–	ND	–	1,000
Co-60 (approx. 5years)	ND	–	ND	–	ND	–	ND	–	ND	–	200
Tc-99m (approx. 6hrs)	ND	–	ND	–	ND	–	ND	–	ND	–	40,000
Te-129m (approx. 34days)	ND	–	ND	–	ND	–	ND	–	ND	–	300
Te-129 (approx. 70mins)	ND	–	ND	–	ND	–	ND	–	ND	–	10,000
Cs-136 (approx. 13days)	ND	–	ND	–	ND	–	ND	–	ND	–	300
Ba-140 (approx. 13days)	ND	–	ND	–	ND	–	ND	–	ND	–	300
La-140 (approx. 2days)	ND	–	ND	–	ND	–	ND	–	ND	–	400

* Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L.
* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.
* In this analysis, "ND" means that the results are bellow detection limits.
  Detection limits of the three main nuclides are as follows: I-131: approx. 21Bq/L.
  Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

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【Definite Report】The Results of Nuclide Analyses of Radioactive Materials in the Seawater <2/3>
Fukushima Daiichi Nuclear Power Station; the shallow draft quay, Units 1-4 screen, and the water intake canal of Units 1-4

Place of Sampling	Screen of 1F's Unit 2 (inside the silt fence)		Screen of 1F's Unit 3 (outside the silt fence)		Screen of 1F's Unit 3 (inside the silt fence)		Screen of 1F's Unit 4 (outside the silt fence)		Screen of 1F's Unit 4 (inside the silt fence)		②Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
Date of sampling	07:46 Jul 06, 2011		07:56 Jul 06, 2011		07:59 Jul 06, 2011		07:57 Jul 06, 2011		07:58 Jul 06, 2011		
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (approx. 8 days)	45	1.1	26	(3) 0.65	ND	–	31	(3) 0.78	25	(3) 0.63	40
Cs-134 (approx. 2 years)	510	8.5	400	6.7	4,000	(3) 67	380	6.3	470	7.8	60
Cs-137 (approx. 30 years)	540	6.0	430	4.8	4,300	(3) 48	420	4.7	480	5.3	90
Mn-54 (approx. 313days)	ND	–	ND	–	ND	–	ND	–	ND	–	1,000
Co-60 (approx. 5years)	ND	–	ND	–	ND	–	ND	–	ND	–	200
Tc-99m (approx. 6hrs)	ND	–	ND	–	ND	–	ND	–	ND	–	40,000
Te-129m (approx. 34days)	ND	–	ND	–	ND	–	ND	–	ND	–	300
Te-129 (approx. 70mins)	ND	–	ND	–	ND	–	ND	–	ND	–	10,000
Cs-136 (approx. 13days)	ND	–	ND	–	ND	–	ND	–	ND	–	300
Ba-140 (approx. 13days)	ND	–	ND	–	ND	–	ND	–	ND	–	300
La-140 (approx. 2days)	ND	–	ND	–	ND	–	ND	–	ND	–	400

* Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L.

* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

* In this analysis, "ND" means that the results are bellow detection limits.
Detection limits of the three main nuclides are as follows: I-131: approx. 47Bq/L.
Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

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【Definite Report】The Results of Nuclide Analyses of Radioactive Materials in the Seawater <2/3>
Fukushima Daiichi Nuclear Power Station; the shallow draft quay, Units 1-4 screen, and the water intake canal of Units 1-4

Place of Sampling	Screen of 1F's Unit 2 (inside the silt fence)		Screen of 1F's Unit 3 (outside the silt fence)		Screen of 1F's Unit 3 (inside the silt fence)		Screen of 1F's Unit 4 (outside the silt fence)		Screen of 1F's Unit 4 (inside the silt fence)		②Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
Date of sampling	07:46 Jul 06, 2011		07:56 Jul 06, 2011		07:59 Jul 06, 2011		07:57 Jul 06, 2011		07:58 Jul 06, 2011		
Time of Sampling	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (approx. 8 days)	45	1.1	26	0.7	ND	–	31	0.8	25	0.6	40
Cs-134 (approx. 2 years)	510	8.5	400	6.7	4,000	66.7	380	6.3	470	7.8	60
Cs-137 (approx. 30 years)	540	6.0	430	4.8	4,300	47.8	420	4.7	480	5.3	90
Mn-54 (approx. 313days)	ND	–	ND	–	ND	–	ND	–	ND	–	1,000
Co-60 (approx. 5years)	ND	–	ND	–	ND	–	ND	–	ND	–	200
Tc-99m (approx. 6hrs)	ND	–	ND	–	ND	–	ND	–	ND	–	40,000
Te-129m (approx. 34days)	ND	–	ND	–	ND	–	ND	–	ND	–	300
Te-129 (approx. 70mins)	ND	–	ND	–	ND	–	ND	–	ND	–	10,000
Cs-136 (approx. 13days)	ND	–	ND	–	ND	–	ND	–	ND	–	300
Ba-140 (approx. 13days)	ND	–	ND	–	ND	–	ND	–	ND	–	300
La-140 (approx. 2days)	ND	–	ND	–	ND	–	ND	–	ND	–	400

* Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L.

* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

* In this analysis, "ND" means that the results are bellow detection limits.
Detection limits of the three main nuclides are as follows: I-131: approx. 47Bq/L.
Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

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(Attachment 3)

Fukushima Daiichi Nuclear Power Station: Uranium analysis result in the soil

1. Analysis result

(Unit: Bq/kg・Dry soil)

Sampling spot (): Distance from the stack of Unit 1, 2	Date of sampling/ Analyses organization	U-234	U-235	U-238
①Playground（west-northwest approx. 500m）	March 28/ Japan Chemical Analysis Center	12±0.6	0.50±0.086	12±0.6
③Adjacent to industrial waste disposal facility（south-southwest approx. 500m）		4.4±0.27	0.23±0.057	4.3±0.27
Natural Uranium specific radioactivity (Bq/g)		1.2×10^{4}	5.7×10^{2}	1.2×10^{4}
Natural Uranium abundance ratio (wt%)		0.0054	0.72	99.3

2. Evaluation

Uranium detected for this analysis is valued as the same level as in the natural condition for following reasons.

- Radioactive densities of U-234 and U-238 are same in the sample ① and the sample③, where Uranium in nature forms radioactive balance (same density between U-234 and U-238).
- U-235 abundance ratio is almost same as the natural U-235 abundance ratio, which is U-235/U-238＝0.0073.

U-235 abundance ratio of sample ①: 6.2×10^{-6}g(0.5Bq/kg Dry soil)

U-238 abundance ratio of sample ①: 9.6×10^{-4}g(12Bq/kg Dry soil)

U-235/U-238=0.0065 (2)　0.0073

U-235 abundance ratio of sample③: 2.9×10^{-6}g(0.23Bq/kg Dry soil)

U-238 abundance ratio of sample③: 3.5×10^{-4}g(4.3Bq/kg Dry soil)

U-235/U-238=0.0083 (2)　0.0072

End

ORIGINAL

(Attachment 3)

Fukushima Daiichi Nuclear Power Station: Uranium analysis result in the soil

1. Analysis result

(Unit: Bq/kg・Dry soil)

Sampling spot (): Distance from the stack of Unit 1, 2	Date of sampling/ Analyses organization	U-234	U-235	U-238
①Playground（west-northwest approx. 500m）	March 28/ Japan Chemical Analysis Center	12±0.6	0.50±0.086	12±0.6
③Adjacent to industrial waste disposal facility（south-southwest approx. 500m）		4.4±0.27	0.23±0.057	4.3±0.27
Natural Uranium specific radioactivity (Bq/g)		1.2×10^{4}	5.7×10^{2}	1.2×10^{4}
Natural Uranium abundance ratio (wt%)		0.0054	0.72	99.3

2. Evaluation

Uranium detected for this analysis is valued as the same level as in the natural condition for following reasons.

- Radioactive densities of U-234 and U-238 are same in the sample ① and the sample③, where Uranium in nature forms radioactive balance (same density between U-234 and U-238).
- U-235 abundance ratio is almost same as the natural U-235 abundance ratio, which is U-235/U-238＝0.0073.

U-235 abundance ratio of sample ①: 6.2×10^{-6}g(0.5Bq/kg Dry soil)

U-238 abundance ratio of sample ①: 9.6×10^{-4}g(12Bq/kg Dry soil)

U-235/U-238=0.0064　0.0073

U-235 abundance ratio of sample③: 2.9×10^{-6}g(0.23Bq/kg Dry soil)

U-238 abundance ratio of sample③: 3.5×10^{-4}g(4.3Bq/kg Dry soil)

U-235/U-238=0.0084　0.0072

End

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(Attachment 3)

Fukushima Daiichi Nuclear Power Station: Uranium analysis result in the soil

1. Analysis result

(Unit: Bq/kg・Dry soil)

Sampling spot (): Distance from the stack of Unit 1, 2	Date of sampling/ Analyses organization	U-234	U-235	U-238
①Playground（west-northwest approx. 500m）	April 11/ Japan Chemical Analysis Center	8.0±0.45	0.35±0.075	7.4±0.42
②Forest of wild birds（west approx. 500m）		7.5±0.44	0.43±0.090	6.7±0.41
③ Adjacent to industrial waste disposal facility（south-southwest approx. 500m）		3.9±0.29	N.D.	3.9±0.29
Natural Uranium specific radioactivity (Bq/g)		1.2×10^{4}	5.7×10^{2}	1.2×10^{4}
Natural Uranium abundance ratio (wt%)		0.0054	0.72	99.3

2. Evaluation

Uranium detected for this analysis is valued as the same level as in the natural condition for following reasons.

- Radioactive densities of U-234 and U-238 are same in all the samples, where Uranium in nature forms radioactive balance (same density between U-234 and U-238).
- U-235 abundance ratio is almost same as the natural U-235 abundance ratio, which is U-235/U-238＝0.0073.

  U-235 abundance ratio of sample ①: 4.4×10^{-6}g(0.35Bq/kg Dry soil)

  U-238 abundance ratio of sample ①: 5.9 (2)$\times10^{-4}$g (7.4Bq/kg Dry soil)

  U-235/U-238=0.0074 (2)　0.0073

  U-235 abundance ratio of sample②: 5.4×10^{-6}g(0.43Bq/kg Dry soil)

  U-238 abundance ratio of sample②: 5.4×10^{-4}g(6.7Bq/kg Dry soil)

  U-235/U-238=0.0100 (2)　0.0073

End

ORIGINAL

(Attachment 3)

Fukushima Daiichi Nuclear Power Station: Uranium analysis result in the soil

1. Analysis result

(Unit: Bq/kg・Dry soil)

Sampling spot (): Distance from the stack of Unit 1, 2	Date of sampling/ Analyses organization	U-234	U-235	U-238
①Playground（west-northwest approx. 500m）	April 11/ Japan Chemical Analysis Center	8.0±0.45	0.35±0.075	7.4±0.42
②Forest of wild birds（west approx. 500m）		7.5±0.44	0.43±0.090	6.7±0.41
③ Adjacent to industrial waste disposal facility（south-southwest approx. 500m）		3.9±0.29	N.D.	3.9±0.29
Natural Uranium specific radioactivity (Bq/g)		1.2×10^{4}	5.7×10^{2}	1.2×10^{4}
Natural Uranium abundance ratio (wt%)		0.0054	0.72	99.3

2. Evaluation

Uranium detected for this analysis is valued as the same level as in the natural condition for following reasons.

- Radioactive densities of U-234 and U-238 are same in all the samples, where Uranium in nature forms radioactive balance (same density between U-234 and U-238).
- U-235 abundance ratio is almost same as the natural U-235 abundance ratio, which is U-235/U-238＝0.0073.

  U-235 abundance ratio of sample ①: 4.4×10^{-6}g(0.35Bq/kg Dry soil)

  U-238 abundance ratio of sample ①: 6.0×10^{-4}g (7.4Bq/kg Dry soil)

  U-235/U-238=0.0080　0.0073

  U-235 abundance ratio of sample②: 5.4×10^{-6}g(0.43Bq/kg Dry soil)

  U-238 abundance ratio of sample②: 5.4×10^{-4}g(6.7Bq/kg Dry soil)

  U-235/U-238=0.0099　0.0073

End

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(Attachment 1)

Fukushima Daiichi Nuclear Power Station: Plutonium analysis result in the soil

1. Analysis result

(Unit: Bq/kg・Dry soil)

Sampling spot (): Distance from the stack of Unit 1, 2	Date of sampling/ Analyses organization	Pu-238	Pu-239, Pu-240
① Playground（west-northwest approx. 500m）	July 11/ Japan Chemical Analysis Center	（1.6±0.14）×10^{-1}	（6.7±0.85）×10^{-2}
②Forest of wild birds（west approx. 500m）		(2) N.D.(< 1.0×10^{-2})	N.D.(< 9.7×10^{-3})
③ Adjacent to industrial waste disposal facility（south-southwest approx. 500m）		N.D.(<1.1×10^{-2})	（4.1±0.69）×10^{-2}
Soil in Japan*		N.D.～1.5×10^{-1}	N.D.～4.5

* Ministry of Education, Culture, Sports, Science and Technology “Environmental Radiation Database, 1978 - 2008”

* Avoiding duplicates, we collected samples from adjacent area for ① Playground and ③ Adjacent to industrial waste disposal facility.

We collected samples depth direction at same point for ② Forest of wild birds. (In case we unable to collect samples at the same point, we will collect from new point.)

2. Evaluation

Detected density of Pu-238, Pu-239 and Pu-240 on July 11 are the same level as that of the measured fallouts in Japan in the cases of previous nuclear tests in the atmosphere. However, this can be considered to be caused by the nuclear accident of this time.

Meanwhile, although Pu-238, Pu-239, and Pu-240 are detected from some of the samples taken on and after March 21, those values have not been greatly changed.

End

ORIGINAL

(Attachment 1)

Fukushima Daiichi Nuclear Power Station: Plutonium analysis result in the soil

1. Analysis result

(Unit: Bq/kg・Dry soil)

Sampling spot (): Distance from the stack of Unit 1, 2	Date of sampling/ Analyses organization	Pu-238	Pu-239, Pu-240
① Playground（west-northwest approx. 500m）	July 11/ Japan Chemical Analysis Center	（1.6±0.14）×10^{-1}	（6.7±0.85）×10^{-2}
②Forest of wild birds（west approx. 500m）		N.D.(<9.7×10^{-3})	N.D.(<1.0×10^{-2})
③ Adjacent to industrial waste disposal facility（south-southwest approx. 500m）		N.D.(<1.1×10^{-2})	（4.1±0.69）×10^{-2}
Soil in Japan*		N.D.～1.5×10^{-1}	N.D.～4.5

* Ministry of Education, Culture, Sports, Science and Technology “Environmental Radiation Database, 1978 - 2008”

* Avoiding duplicates, we collected samples from adjacent area for ① Playground and ③ Adjacent to industrial waste disposal facility.

We collected samples depth direction at same point for ② Forest of wild birds. (In case we unable to collect samples at the same point, we will collect from new point.)

2. Evaluation

Detected density of Pu-238, Pu-239 and Pu-240 on July 11 are the same level as that of the measured fallouts in Japan in the cases of previous nuclear tests in the atmosphere. However, this can be considered to be caused by the nuclear accident of this time.

Meanwhile, although Pu-238, Pu-239, and Pu-240 are detected from some of the samples taken on and after March 21, those values have not been greatly changed.

End

REVISED

(Attachment 3)

Fukushima Daiichi Nuclear Power Station: Strontium analysis result in the soil

1. Analysis result

(Unit: Bq/kg・Dry soil)

Sampling spot (): Distance from the stack of Unit 1, 2	Date of sampling/ Analyses organization	Sr-89	Sr-90
① Playground (west-northwest approx. 500m)	June 13/ Japan Chemical Analysis Center	$(1.1\pm0.008)\times10^{3}$	$(3.0\pm0.04)\times10^{2}$
② Forest of wild birds (west approx. 500m)		$(1.5\pm0.11)\times10^{1}$	$(6.9\pm0.69)\times10^{0}$
(6) ③ Adjacent to industrial waste disposal facility (south-southwest approx. 500m)		$(1.1\pm0.008)\times10^{3}$	$(3.2\pm0.04)\times10^{2}$
Measured value range in the past*		-	N.D.～4.3

* Source: Environmental Radiation Measurement Result Report around Nuclear Power station, 2009 (1999 – 2008)

* Avoiding duplicates, we collected samples from adjacent area for ① Playground and ③ Adjacent to industrial waste disposal facility.

We collected samples depth direction at same point for ② Forest of wild birds. (In case we unable to collect samples at the same point, we will collect from new point.)

2. Evaluation

Because of the detected density of Sr-90 is higher than the measured fallouts in Japan in the cases of previous nuclear tests in the atmosphere, this can be considered to be caused by the nuclear accident of this time.

End

ORIGINAL

(Attachment 3)

Fukushima Daiichi Nuclear Power Station: Strontium analysis result in the soil

1. Analysis result

(Unit: Bq/kg・Dry soil)

Sampling spot (): Distance from the stack of Unit 1, 2	Date of sampling/ Analyses organization	Sr-89	Sr-90
① Playground (west-northwest approx. 500m)	June 13/ Japan Chemical Analysis Center	$(1.1\pm0.008)\times10^{3}$	$(3.0\pm0.04)\times10^{2}$
② Forest of wild birds (west approx. 500m)		$(1.5\pm0.11)\times10^{1}$	$(6.9\pm0.69)\times10^{0}$
③ Adjacent to industrial waste disposal facility (south approx. 500m)		$(1.1\pm0.008)\times10^{3}$	$(3.2\pm0.04)\times10^{2}$
Measured value range in the past*		-	N.D.～4.3

* Source: Environmental Radiation Measurement Result Report around Nuclear Power station, 2009 (1999 – 2008)

* Avoiding duplicates, we collected samples from adjacent area for ① Playground and ③ Adjacent to industrial waste disposal facility.

We collected samples depth direction at same point for ② Forest of wild birds. (In case we unable to collect samples at the same point, we will collect from new point.)

2. Evaluation

Because of the detected density of Sr-90 is higher than the measured fallouts in Japan in the cases of previous nuclear tests in the atmosphere, this can be considered to be caused by the nuclear accident of this time.

End

REVISED

(Attachment 3)

Fukushima Daiichi Nuclear Power Station: Strontium analysis result in the soil

1. Analysis result

(Unit: Bq/kg・Dry soil)

Sampling spot (): Distance from the stack of Unit 1, 2	Date of sampling/ Analyses organization	Sr-89	Sr-90
① Playground (west-northwest approx. 500m)	July 11/ Japan Chemical Analysis Center	(7.5±0.08) ×10^2	(3.2±0.04) ×10^2
② Forest of wild birds (west approx. 500m)		(1.3±0.10) ×10^1	(3.6±0.50) ×10^0
(6) ③ Adjacent to industrial waste disposal facility (south-southwest approx. 500m)		(9.3±0.30) ×10^1	(4.0±0.17) ×10^1
Soil in Japan*※		-	ND～4.3

* Ministry of Education, Culture, Sports, Science and Technology “Environmental Radiation Database, 1978 - 2008”
* Avoiding duplicates, we collected samples from adjacent area for ① Playground and ③ Adjacent to industrial waste disposal facility.
  We collected samples depth direction at same point for ② Forest of wild birds. (In case we unable to collect samples at the same point, we will collect from new point.)

2. Evaluation

Because of the detected density of Sr-90 is higher than the measured fallouts in Japan in the cases of previous nuclear tests in the atmosphere, this can be considered to be caused by the nuclear accident of this time.

End

ORIGINAL

(Attachment 3)

Fukushima Daiichi Nuclear Power Station: Strontium analysis result in the soil

1. Analysis result

(Unit: Bq/kg・Dry soil)

Sampling spot (): Distance from the stack of Unit 1, 2	Date of sampling/ Analyses organization	Sr-89	Sr-90
① Playground (west-northwest approx. 500m)	July 11/ Japan Chemical Analysis Center	(7.5±0.08) $\times 10^{2}$	(3.2±0.04) $\times 10^{2}$
② Forest of wild birds (west approx. 500m)		(1.3±0.10) $\times 10^{1}$	(3.6±0.50) $\times 10^{0}$
③ Adjacent to industrial waste disposal facility (south approx. 500m)		(9.3±0.30) $\times 10^{1}$	(4.0±0.17) $\times 10^{1}$
Soil in Japan*※		-	ND～4.3

* Ministry of Education, Culture, Sports, Science and Technology “Environmental Radiation Database, 1978 - 2008”
* Avoiding duplicates, we collected samples from adjacent area for ① Playground and ③ Adjacent to industrial waste disposal facility.
  We collected samples depth direction at same point for ② Forest of wild birds. (In case we unable to collect samples at the same point, we will collect from new point.)

2. Evaluation

Because of the detected density of Sr-90 is higher than the measured fallouts in Japan in the cases of previous nuclear tests in the atmosphere, this can be considered to be caused by the nuclear accident of this time.

End

REVISED

(Attachment 3)

Fukushima Daiichi Nuclear Power Station: Am and Cm analysis result in the soil

1. Analysis result

(Unit: Bq/kg・Dry soil)

Sampling spot (): Distance from the stack of Unit 1, 2	Date of sampling/ Analyses organization	Pu-238[*1]	Pu-239[*1] Pu-240[*1]	U-234[*2]	U-235[*2]	U-238[*2]	Am-241	Cm-242	Cm-243 Cm-244
①Playground（west-northwest approx. 500m）	March 28/ Japan Chemical Analysis Center	（2.6±0.22）$\times10^{-1}$	（1.2±0.14）$\times10^{-1}$	(12±0.6) $\times10^{0}$	(5.0±0.86) $\times10^{-1}$	(12±0.6) $\times10^{0}$	（3.3±0.64）$\times10^{-2}$	（4.0±0.15）$\times10^{0}$	（2.0±0.17）$\times10^{-1}$
③Adjacent to industrial waste disposal facility（south-southwest approx. 500m）		（5.1±0.83）$\times10^{-2}$	（2.6±0.58）$\times10^{-2}$	(4.4±0.27) $\times10^{0}$	(2.3±0.57) $\times10^{-1}$	(4.3±0.27) $\times10^{0}$	（1.8±0.51）$\times10^{-2}$	（1.4±0.07）$\times10^{0}$	（4.0±0.79）$\times10^{-2}$
Average density ratio of radioactive materials in Units 1-3(ratio when the ratio of Pu-238 is considered as 1)[*3]		**1**	–	–	–	–	0.1	10	1

*1：Released on April 6th, 2011　*2：Released on April 14th, 2011　*3：Figure by ORIGEN Code (round number)

2. Evaluation

Am and Cm detected for this analysis are considered to be caused by the nuclear accident of this time for following reasons.

- Radioactive densities of Cm-242, Cm-243 and Cm-244 do not exist in the natural world. In particular, Cm-242, whose half-life is relatively short (Half-life: approximately 160 days), was detected.
- The density ratio of each radioactive material in Pu-238 sample ① and ② is almost the same as the average composition ratio of Pu-238 in Units 1-3.

  Pu-238 of sample ①: （Am-241/Cm-242/Cm-243,Cm-244） **1**：(0.1/15/0.8 (2))

  Pu-238 of sample ②: （Am-241/Cm-242/Cm-243,Cm-244） **1**：(0.4/27/0.8)

End

ORIGINAL

(Attachment 3)

Fukushima Daiichi Nuclear Power Station: Am and Cm analysis result in the soil

1. Analysis result

(Unit: Bq/kg・Dry soil)

Sampling spot (): Distance from the stack of Unit 1, 2	Date of sampling/ Analyses organization	Pu-238[*1]	Pu-239[*1] Pu-240[*1]	U-234[*2]	U-235[*2]	U-238[*2]	Am-241	Cm-242	Cm-243 Cm-244
①Playground（west-northwest approx. 500m）	March 28/ Japan Chemical Analysis Center	（2.6±0.22）×10^{-1}	（1.2±0.14）×10^{-1}	(12±0.6) ×10^{0}	(5.0±0.86) ×10^{-1}	(12±0.6) ×10^{0}	（3.3±0.64）×10^{-2}	（4.0±0.15）×10^{0}	（2.0±0.17）×10^{-1}
③Adjacent to industrial waste disposal facility（south-southwest approx. 500m）		（5.1±0.83）×10^{-2}	（2.6±0.58）×10^{-2}	(4.4±0.27) ×10^{0}	(2.3±0.57) ×10^{-1}	(4.3±0.27) ×10^{0}	（1.8±0.51）×10^{-2}	（1.4±0.07）×10^{0}	（4.0±0.79）×10^{-2}
Average density ratio of radioactive materials in Unit 1-4(ratio when the ratio of Pu-238 is considered as 1)[*3]		**1**	–	–	–	–	0.1	10	1

*1：Released on April 6th, 2011　*2：Released on April 14th, 2011　*3：Figure by ORIGEN Code (round number)

2. Evaluation

Am and Cm detected for this analysis are considered to be caused by the nuclear accident of this time for following reasons.

- Radioactive densities of Cm-242, Cm-243 and Cm-244 do not exist in the natural world. In particular, Cm-242, whose half-life is relatively short (Half-life: approximately 160 days), was detected.
- The density ratio of each radioactive material in Pu-238 sample ① and ② is almost the same as the average composition ratio of Pu-238 in Units 1-3.

  Pu-238 of sample ①: （Am-241/Cm-242/Cm-243,Cm-244） **1**：(0.1/15/0.7)

  Pu-238 of sample ②: （Am-241/Cm-242/Cm-243,Cm-244） **1**：(0.4/27/0.8)

End

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(Attachment 4)

Fukushima Daiichi Nuclear Power Station: Am and Cm analysis result in the soil

1. Analysis result

(Unit: Bq/kg・Dry soil)

Sampling spot (): Distance from the stack of Unit 1, 2	Date of sampling/ Analyses organization	Pu-238[*1]	Pu-239[*1] Pu-240[*1]	U-234[*2]	U-235[*2]	U-238[*2]	Am-241	Cm-242	Cm-243 Cm-244
①Playground (west-northwest approx. 500m)	June 20/ Japan Chemical Analysis Center	(1.2±0.12) $\times 10^{-1}$	(5.8±0.77) $\times 10^{-2}$	(1.1±0.058) $\times 10^{1}$	(5.7±0.97) $\times 10^{-1}$	(1.2±0.059) $\times 10^{1}$	(2.0±0.45) $\times 10^{-2}$	(1.4±0.055) $\times 10^{0}$	(9.5±0.98) $\times 10^{-2}$
②Forest of wild birds (west approx. 500m)		N.D. [$<1.0\times 10^{-2}$]	(2.9±0.56) $\times 10^{-2}$	(6.4±0.37) $\times 10^{0}$	(4.0±0.79) $\times 10^{-1}$	(6.2±0.35) $\times 10^{0}$	N.D. [$<9.7\times 10^{-3}$]	N.D. [$<9.5\times 10^{-3}$]	N.D. [$<9.5\times 10^{-3}$]
③Adjacent to industrial waste disposal facility (south-southwest approx. 500m)		(1.7±0.15) $\times 10^{-1}$	(6.1±0.81) $\times 10^{-2}$	(5.7±0.33) $\times 10^{0}$	(2.2±0.55) $\times 10^{-1}$	(5.7±0.33) $\times 10^{0}$	(5.3±0.72) $\times 10^{-2}$	(2.1±0.079) $\times 10^{0}$	(1.0±0.11) $\times 10^{-1}$
Average nuclide density ratio of fuel in Units 1 to 3 (ratio in case the ratio of Pu-238 is considered as 1)[*3]		**1**	–	–	–	–	0.1	10	1

*1：Released on July 8th, 2011　*2：Released on July 21st, 2011　*3：Values calculated by ORIGEN Code (round number)

2. Evaluation

Detected Cm is considered to derive from the accident due to following reasons.

- Cm-242, Cm-243 and Cm-244 are nuclides that do not exist in the natural world. In particular, Cm-242 whose half-life is relatively short (approximately 160 days) was detected.
- The density ratio of each nuclides （Am-241/Cm-242/Cm-243,Cm-244）to Pu-238 in the sample① and ③ is almost the same as the average nuclide density ratio of fuel in Units 1 to 3.

  Pu-238 in the sample ①: （Am-241/Cm-242/Cm-243,Cm-244） 1：（0.2/12/0.8 (2)）

  Pu-238 in the sample ③: （Am-241/Cm-242/Cm-243,Cm-244） 1：(0.3/12/0.6)

End

ORIGINAL

(Attachment 4)

Fukushima Daiichi Nuclear Power Station: Am and Cm analysis result in the soil

1. Analysis result

(Unit: Bq/kg・Dry soil)

Sampling spot (): Distance from the stack of Unit 1, 2	Date of sampling/ Analyses organization	Pu-238[*1]	Pu-239[*1] Pu-240[*1]	U-234[*2]	U-235[*2]	U-238[*2]	Am-241	Cm-242	Cm-243 Cm-244
①Playground (west-northwest approx. 500m)	June 20/ Japan Chemical Analysis Center	(1.2±0.12) $\times 10^{-1}$	(5.8±0.77) $\times 10^{-2}$	(1.1±0.058) $\times 10^{1}$	(5.7±0.97) $\times 10^{-1}$	(1.2±0.059) $\times 10^{1}$	(2.0±0.45) $\times 10^{-2}$	(1.4±0.055) $\times 10^{0}$	(9.5±0.98) $\times 10^{-2}$
②Forest of wild birds (west approx. 500m)		N.D. [$<1.0\times 10^{-2}$]	(2.9±0.56) $\times 10^{-2}$	(6.4±0.37) $\times 10^{0}$	(4.0±0.79) $\times 10^{-1}$	(6.2±0.35) $\times 10^{0}$	N.D. [$<9.7\times 10^{-3}$]	N.D. [$<9.5\times 10^{-3}$]	N.D. [$<9.5\times 10^{-3}$]
③Adjacent to industrial waste disposal facility (south-southwest approx. 500m)		(1.7±0.15) $\times 10^{-1}$	(6.1±0.81) $\times 10^{-2}$	(5.7±0.33) $\times 10^{0}$	(2.2±0.55) $\times 10^{-1}$	(5.7±0.33) $\times 10^{0}$	(5.3±0.72) $\times 10^{-2}$	(2.1±0.079) $\times 10^{0}$	(1.0±0.11) $\times 10^{-1}$
Average nuclide density ratio of fuel in Units 1 to 3 (ratio in case the ratio of Pu-238 is considered as 1)[*3]		**1**	–	–	–	–	0.1	10	1

*1：Released on July 8th, 2011　*2：Released on July 21st, 2011　*3：Values calculated by ORIGEN Code (round number)

2. Evaluation

Detected Cm is considered to derive from the accident due to following reasons.

- Cm-242, Cm-243 and Cm-244 are nuclides that do not exist in the natural world. In particular, Cm-242 whose half-life is relatively short (approximately 160 days) was detected.
- The density ratio of each nuclides (Am-241/Cm-242/Cm-243,Cm-244) to Pu-238 in the sample① and ③ is almost the same as the average nuclide density ratio of fuel in Units 1 to 3.

  Pu-238 in the sample ①: (Am-241/Cm-242/Cm-243,Cm-244)　1：(0.2/12/0.6)

  Pu-238 in the sample ③: (Am-241/Cm-242/Cm-243,Cm-244)　1：(0.3/12/0.6)

End

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(Attachment 2)

Result of gamma ray nuclide analysis of soil

1.Result of measurement:
The results of gamma ray nuclide analysis are as follows. Analysis was conducted on all samples which we conducted plutonium analysis.

2. Evaluation:
The result of gamma ray nuclide analysis of soil conducted in Fukushima Prefecture during FY 2009 is shown below.
Compared to this, higher radioactivity density has been detected.

<Results of the soil analysis in Fukushima Prefecture conducted in FY 2009>
Cs-137: ND～21Bq/kg･dry soil, Others: ND

(6) (Unit：Bq/kg･dry soil【JCAC】
Bq/kg･wet soil【JAEA】)

Sampling spot		【Fixed point①】*1 Playground (west-northwest approx. 500m)*2			【Fixed point②】*1 Forest of wild birds (west approx. 500m)*2		【Fixed point③】*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m)*2		④Front of administration Building of Unit 5/6 (north approx. 1,000m)*2	⑤Adjacent to solid waste storage 1/2 (north approx. 500m)*2	⑥south-southwest approx. 500m*2	⑦south-southwest approx. 750m*2	⑧south-southwest approx. 1,000m*2
Date of sampling		3/21	3/25	3/28	3/25	3/28	3/25	3/28	3/25	3/22	3/22	3/22	3/22
Analytical body		JAEA	JAEA	Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3	JAEA	JAEA	JAEA	JAEA	JAEA
Date of analysis		3/24	3/28	3/30	3/28	3/30	3/28	3/30	3/28	3/25	3/25	3/24	3/25
Nuclide	I-131(approx. 8 days)	5.8E+06	5.7E+06	3.8E+06	3.0E+06	3.9E+04	1.2E+07	2.6E+06	4.6E+05	3.1E+06	7.9E+05	2.2E+06	5.4E+06
	I-132(approx. 2 hours)	*4	*4	2.3E+05	*4	1.3E+02	*4	1.5E+05	*4	*4	*4	*4	*4
	Cs-134(approx. 2 years)	3.4E+05	4.9E+05	5.3E+05	7.7E+04	3.2E+02	3.5E+06	9.7E+05	6.8E+04	9.5E+05	8.7E+03	1.7E+04	1.6E+05
	Cs-136(approx. 13 days)	7.2E+04	6.1E+04	3.3E+04	1.0E+04	2.8E+01	4.6E+05	6.9E+04	8.6E+03	1.1E+05	1.9E+03	2.2E+03	2.5E+04
	Cs-137(approx. 30 years)	3.4E+05	4.8E+05	5.1E+05	7.6E+04	3.2E+02	3.5E+06	9.3E+05	6.7E+04	1.0E+06	2.0E+04	1.6E+04	1.6E+05
	Te-129m(approx. 34 days)	2.5E+05	2.9E+05	8.5E+05	5.3E+04	ND	2.7E+06	6.0E+05	2.8E+04	8.9E+05	9.5E+03	1.9E+04	1.7E+05
	Te-132(approx. 3 days)	6.1E+05	3.4E+05	3.0E+05	6.5E+04	1.4E+02	3.1E+06	2.0E+05	3.2E+04	1.9E+06	2.1E+04	3.9E+04	3.8E+05
	Ba-140(approx. 13 days)	1.3E+04	1.5E+04	ND	2.5E+03	ND	ND	ND	ND	8.0E+04	ND	ND	ND
	Nb-95(approx. 35 days)	1.7E+03	2.4E+03	ND	ND	ND	5.3E+03	ND	ND	8.1E+03	ND	ND	7.9E+02
	Ru-106(approx. 370 days)	5.3E+04	ND	ND	6.4E+03	ND	2.7E+05	ND	ND	6.8E+04	1.9E+03	ND	3.2E+04
	Mo-99(approx. 66 hours)	2.1E+04	ND	ND	ND	ND	6.6E+04	ND	ND	ND	ND	ND	ND
	Tc-99m(approx. 6 hours)	2.3E+04	2.0E+04	ND	ND	ND	4.5E+04	ND	1.8E+03	2.3E+04	ND	ND	8.3E+03
	La-140(approx. 2 days)	3.3E+04	3.7E+04	ND	2.3E+03	ND	9.7E+04	ND	2.5E+03	2.1E+05	4.2E+02	6.2E+02	7.8E+03
	Be-7(approx. 53 days)	ND	ND	ND	ND	ND	ND	ND	ND	3.2E+04	ND	ND	ND
	Ag-110m(approx. 250 days)	1.1E+03	2.6E+03	ND	ND	ND	ND	ND	1.7E+02	1.8E+04	ND	ND	ND

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap. In regard to fixed point "forest of wild birds", sampling was conducted on the same sampling point but in deeper direction.

*2 Distance from the stack of Unit 1/2

*3 Analysis results from Japan Chemical Analysis Center do not consider half-life until the sampling date.

*4 Regarding parent nuclide and daughter nuclides forming radiative balance, radioactive concentrations of both are checked. When they are similar (the difference is within one order of magnitude), both are described in the table. In case that the daughter nuclide (esp. short half-life nuclide) is much larger than the parent nuclide (more than 2 orders of magnitude), the parent nuclide is stated in the table. I-132 is evaluated by their parent nuclide Te-132.)

ORIGINAL

(Attachment 2)

Result of gamma ray nuclide analysis of soil

1.Result of measurement:
The results of gamma ray nuclide analysis are as follows. Analysis was conducted on all samples which we conducted plutonium analysis.
2. Evaluation:
The result of gamma ray nuclide analysis of soil conducted in Fukushima Prefecture during FY 2009 is shown below.
Compared to this, higher radioactivity density has been detected.
<Results of the soil analysis in Fukushima Prefecture conducted in FY 2009>
Cs-137: ND～21Bq/kg･dry soil, Others: ND

(unit: Bq/kg･dry soil)

Sampling spot		【Fixed point①】*1 Playground (west-northwest approx. 500m)*2			【Fixed point②】*1 Forest of wild birds (west approx. 500m)*2		【Fixed point③】*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m)*2		④Front of administration Building of Unit 5/6 (north approx. 1,000m)*2	⑤Adjacent to solid waste storage 1/2 (north approx. 500m)*2	⑥south-southwest approx. 500m*2	⑦south-southwest approx. 750m*2	⑧south-southwest approx. 1,000m*2
Date of sampling		3/21	3/25	3/28	3/25	3/28	3/25	3/28	3/25	3/22	3/22	3/22	3/22
Analytical body		JAEA	JAEA	Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3	JAEA	JAEA	JAEA	JAEA	JAEA
Date of analysis		3/24	3/28	3/30	3/28	3/30	3/28	3/30	3/28	3/25	3/25	3/24	3/25
Nuclide	I-131(approx. 8 days)	5.8E+06	5.7E+06	3.8E+06	3.0E+06	3.9E+04	1.2E+07	2.6E+06	4.6E+05	3.1E+06	7.9E+05	2.2E+06	5.4E+06
	I-132(approx. 2 hours)	*4	*4	2.3E+05	*4	1.3E+02	*4	1.5E+05	*4	*4	*4	*4	*4
	Cs-134(approx. 2 years)	3.4E+05	4.9E+05	5.3E+05	7.7E+04	3.2E+02	3.5E+06	9.7E+05	6.8E+04	9.5E+05	8.7E+03	1.7E+04	1.6E+05
	Cs-136(approx. 13 days)	7.2E+04	6.1E+04	3.3E+04	1.0E+04	2.8E+01	4.6E+05	6.9E+04	8.6E+03	1.1E+05	1.9E+03	2.2E+03	2.5E+04
	Cs-137(approx. 30 years)	3.4E+05	4.8E+05	5.1E+05	7.6E+04	3.2E+02	3.5E+06	9.3E+05	6.7E+04	1.0E+06	2.0E+04	1.6E+04	1.6E+05
	Te-129m(approx. 34 days)	2.5E+05	2.9E+05	8.5E+05	5.3E+04	ND	2.7E+06	6.0E+05	2.8E+04	8.9E+05	9.5E+03	1.9E+04	1.7E+05
	Te-132(approx. 3 days)	6.1E+05	3.4E+05	3.0E+05	6.5E+04	1.4E+02	3.1E+06	2.0E+05	3.2E+04	1.9E+06	2.1E+04	3.9E+04	3.8E+05
	Ba-140(approx. 13 days)	1.3E+04	1.5E+04	ND	2.5E+03	ND	ND	ND	ND	8.0E+04	ND	ND	ND
	Nb-95(approx. 35 days)	1.7E+03	2.4E+03	ND	ND	ND	5.3E+03	ND	ND	8.1E+03	ND	ND	7.9E+02
	Ru-106(approx. 370 days)	5.3E+04	ND	ND	6.4E+03	ND	2.7E+05	ND	ND	6.8E+04	1.9E+03	ND	3.2E+04
	Mo-99(approx. 66 hours)	2.1E+04	ND	ND	ND	ND	6.6E+04	ND	ND	ND	ND	ND	ND
	Tc-99m(approx. 6 hours)	2.3E+04	2.0E+04	ND	ND	ND	4.5E+04	ND	1.8E+03	2.3E+04	ND	ND	8.3E+03
	La-140(approx. 2 days)	3.3E+04	3.7E+04	ND	2.3E+03	ND	9.7E+04	ND	2.5E+03	2.1E+05	4.2E+02	6.2E+02	7.8E+03
	Be-7(approx. 53 days)	ND	ND	ND	ND	ND	ND	ND	ND	3.2E+04	ND	ND	ND
	Ag-110m(approx. 250 days)	1.1E+03	2.6E+03	ND	ND	ND	ND	ND	1.7E+02	1.8E+04	ND	ND	ND

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap. In regard to fixed point "forest of wild birds", sampling was conducted on the same sampling point but in deeper direction.

*2 Distance from the stack of Unit 1/2

*3 Analysis results from Japan Chemical Analysis Center do not consider half-life until the sampling date.

*4 Regarding parent nuclide and daughter nuclides forming radiative balance, radioactive concentrations of both are checked. When they are similar (the difference is within one order of magnitude), both are described in the table. In case that the daughter nuclide (esp. short half-life nuclide) is much larger than the parent nuclide (more than 2 orders of magnitude), the parent nuclide is stated in the table. I-132 is evaluated by their parent nuclide Te-132.)

REVISED

(Attachment 2)

Result of gamma ray nuclide analysis of soil

1.Result of measurement:
The results of gamma ray nuclide analysis are as follows. Analysis was conducted on all samples which we conducted plutonium analysis.

2. Evaluation:
The result of gamma ray nuclide analysis of soil conducted in Fukushima Prefecture during FY 2009 is shown below.
Compared to this, higher radioactivity density has been detected.

<Results of the soil analysis in Fukushima Prefecture conducted in FY 2009>
Cs-137: ND～21Bq/kg･dry soil, Others: ND

(6) (Unit:Bq/kg･dry soil【JCAC】
Bq/kg･wet soil【JAEA】)

Sampling spot		【Fixed point①】*1 Playground (west-northwest approx. 500m)*2		【Fixed point②】*1 Forest of wild birds (west approx. 500m)*2		【Fixed point③】*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m)*2	
Date of sampling		3/31	4/4	3/31	4/4	3/31	4/4
Analytical body		JAEA	Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3
Date of analysis		4/1	4/6	4/1	4/6	4/1	4/6
Nuclide	I-131(approx. 8 days)	2.6E+06	8.1E+05	9.5E+03	1.4E+04	5.9E+06	1.6E+06
	I-132(approx. 2 hours)	*4	2.8E+04	*4	2.9E+01	*4	5.2E+04
	Cs-134(approx. 2 years)	5.0E+05	3.8E+05	1.2E+03	6.7E+02	3.8E+06	8.1E+05
	Cs-136(approx. 13 days)	4.6E+04	2.0E+04	1.2E+02	3.7E+01	3.7E+05	4.3E+04
	Cs-137(approx. 30 years)	4.9E+05	3.8E+05	1.2E+03	6.7E+02	3.8E+06	7.9E+05
	Te-129m(approx. 34 days)	3.2E+05	4.0E+05	ND	4.2E+02	2.2E+06	7.0E+05
	Te-132(approx. 3 days)	1.2E+05	3.6E+04	2.7E+02	3.2E+01	8.4E+05	6.6E+04
	Ba-140(approx. 13 days)	1.0E+04	ND	ND	ND	3.3E+04	ND
	Nb-95(approx. 35 days)	ND	ND	ND	ND	ND	ND
	Ru-106(approx. 370 days)	2.1E+04	ND	ND	ND	6.1E+04	ND
	Mo-99(approx. 66 hours)	ND	ND	ND	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND	ND	1.1E+04	ND
	La-140(approx. 2 days)	1.3E+04	ND	ND	ND	4.7E+04	ND
	Be-7(approx. 53 days)	ND	ND	ND	ND	ND	ND
	Ag-110m(approx. 250 days)	3.2E+03	ND	ND	ND	ND	ND

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ORIGINAL

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Cs-137: ND～21Bq/kg･dry soil, Others: ND

(unit: Bq/kg･dry soil)

Sampling spot		【Fixed point①】*1 Playground (west-northwest approx. 500m)*2		【Fixed point②】*1 Forest of wild birds (west approx. 500m)*2		【Fixed point③】*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m)*2	
Date of sampling		3/31	4/4	3/31	4/4	3/31	4/4
Analytical body		JAEA	Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3
Date of analysis		4/1	4/6	4/1	4/6	4/1	4/6
Nuclide	I-131(approx. 8 days)	2.6E+06	8.1E+05	9.5E+03	1.4E+04	5.9E+06	1.6E+06
	I-132(approx. 2 hours)	*4	2.8E+04	*4	2.9E+01	*4	5.2E+04
	Cs-134(approx. 2 years)	5.0E+05	3.8E+05	1.2E+03	6.7E+02	3.8E+06	8.1E+05
	Cs-136(approx. 13 days)	4.6E+04	2.0E+04	1.2E+02	3.7E+01	3.7E+05	4.3E+04
	Cs-137(approx. 30 years)	4.9E+05	3.8E+05	1.2E+03	6.7E+02	3.8E+06	7.9E+05
	Te-129m(approx. 34 days)	3.2E+05	4.0E+05	ND	4.2E+02	2.2E+06	7.0E+05
	Te-132(approx. 3 days)	1.2E+05	3.6E+04	2.7E+02	3.2E+01	8.4E+05	6.6E+04
	Ba-140(approx. 13 days)	1.0E+04	ND	ND	ND	3.3E+04	ND
	Nb-95(approx. 35 days)	ND	ND	ND	ND	ND	ND
	Ru-106(approx. 370 days)	2.1E+04	ND	ND	ND	6.1E+04	ND
	Mo-99(approx. 66 hours)	ND	ND	ND	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND	ND	1.1E+04	ND
	La-140(approx. 2 days)	1.3E+04	ND	ND	ND	4.7E+04	ND
	Be-7(approx. 53 days)	ND	ND	ND	ND	ND	ND
	Ag-110m(approx. 250 days)	3.2E+03	ND	ND	ND	ND	ND

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<Results of the soil analysis in Fukushima Prefecture conducted in FY 2009>
Cs-137: ND～21Bq/kg･dry soil, Others: ND

(6) (Unit:Bq/kg･dry soil【JCAC】
Bq/kg･wet soil【JAEA】)

Sampling spot		【Fixed point①】*1 Playground (west-northwest approx. 500m)*2		【Fixed point②】*1 Forest of wild birds (west approx. 500m)*2		【Fixed point③】*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m)*2	
Date of sampling		4/7	4/11	4/7	4/11	4/7	4/11
Analytical body		JAEA	Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3
Date of analysis		4/11	4/13	4/11	4/13	4/11	4/13
Nuclide	I-131(approx. 8 days)	7.4E+05	3.0E+05	1.6E+04	1.2E+04	2.3E+06	1.1E+06
	I-132(approx. 2 hours)	*4	1.1E+03	(2) ND	ND	*4	1.0E+04
	Cs-134(approx. 2 years)	3.4E+05	1.4E+05	7.5E+02	6.5E+02	2.0E+06	2.3E+06
	Cs-136(approx. 13 days)	2.3E+04	5.7E+03	6.9E+01	2.5E+01	1.5E+05	7.9E+04
	Cs-137(approx. 30 years)	3.4E+05	1.4E+05	7.4E+02	6.8E+02	2.1E+06	2.2E+06
	Te-129m(approx. 34 days)	3.1E+05	6.6E+04	ND	3.4E+02	1.3E+06	1.1E+06
	Te-132(approx. 3 days)	2.6E+04	1.4E+03	ND	ND	1.1E+05	2.3E+04
	Ba-140(approx. 13 days)	3.1E+03	ND	ND	ND	ND	ND
	Nb-95(approx. 35 days)	1.2E+03	ND	ND	ND	4.5E+03	ND
	Ru-106(approx. 370 days)	ND	ND	ND	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND	ND	ND	ND
	La-140(approx. 2 days)	*4	ND	ND	ND	ND	ND
	Be-7(approx. 53 days)	ND	ND	ND	ND	ND	ND
	Ag-110m(approx. 250 days)	(2) ND	ND	ND	ND	ND	ND

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap. In regard to fixed point "forest of wild birds", sampling was conducted on the same sampling point but in deeper direction.

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<Results of the soil analysis in Fukushima Prefecture conducted in FY 2009:
Cs-137: ND～21Bq/kg･dry soil, Others: ND

(unit: Bq/kg･dry soil)

Sampling spot		【Fixed point①】*1 Playground (west-northwest approx. 500m)*2		【Fixed point②】*1 Forest of wild birds (west approx. 500m)*2		【Fixed point③】*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m)*2	
Date of sampling		4/7	4/11	4/7	4/11	4/7	4/11
Analytical body		JAEA	Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3
Date of analysis		4/11	4/13	4/11	4/13	4/11	4/13
Nuclide	I-131(approx. 8 days)	7.4E+05	3.0E+05	1.6E+04	1.2E+04	2.3E+06	1.1E+06
	I-132(approx. 2 hours)	*4	1.1E+03	*4	ND	*4	1.0E+04
	Cs-134(approx. 2 years)	3.4E+05	1.4E+05	7.5E+02	6.5E+02	2.0E+06	2.3E+06
	Cs-136(approx. 13 days)	2.3E+04	5.7E+03	6.9E+01	2.5E+01	1.5E+05	7.9E+04
	Cs-137(approx. 30 years)	3.4E+05	1.4E+05	7.4E+02	6.8E+02	2.1E+06	2.2E+06
	Te-129m(approx. 34 days)	3.1E+05	6.6E+04	ND	3.4E+02	1.3E+06	1.1E+06
	Te-132(approx. 3 days)	2.6E+04	1.4E+03	ND	ND	1.1E+05	2.3E+04
	Ba-140(approx. 13 days)	3.1E+03	ND	ND	ND	ND	ND
	Nb-95(approx. 35 days)	1.2E+03	ND	ND	ND	4.5E+03	ND
	Ru-106(approx. 370 days)	ND	ND	ND	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND	ND	ND	ND
	La-140(approx. 2 days)	*4	ND	ND	ND	ND	ND
	Be-7(approx. 53 days)	ND	ND	ND	ND	ND	ND
	Ag-110m(approx. 250 days	3.2E+03	ND	ND	ND	ND	ND

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap. In regard to fixed point "forest of wild birds", sampling was conducted on the same sampling point but in deeper direction.

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Cs-137: ND～21Bq/kg･dry soil, Others: ND

(6) (Unit：Bq/kg･dry soil)

Sampling spot		【Fixed point①】*1 Playground (west-northwest approx. 500m) *2	【Fixed point②】*1 Forest of wild birds (west approx. 500m)*2	【Fixed point③】*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m)*2
Date of sampling		4/25	4/25	4/25
Analytical body		apan Chemical Analysis Cente	apan Chemical Analysis Cente	Japan Chemical Analysis Center
Date of analysis		4/27	4/27	4/27
Nuclide	I-131(approx. 8 days)	1.8E+05	1.1E+04	1.1E+05
	I-132(approx. 2 hours)	ND	ND	ND
	Cs-134(approx. 2 years)	4.0E+05	4.9E+03	1.5E+05
	Cs-136(approx. 13 days)	6.7E+03	8.8E+01	2.5E+03
	Cs-137(approx. 30 years)	3.9E+05	5.1E+03	1.5E+05
	Te-129m(approx. 34 days)	1.1E+05	1.4E+03	8.3E+04
	Te-132(approx. 3 days)	ND	ND	ND
	Ba-140(approx. 13 days)	ND	ND	ND
	Nb-95(approx. 35 days)	ND	ND	ND
	Ru-106(approx. 370 days)	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND
	La-140(approx. 2 days)	ND	ND	ND
	Be-7(approx. 53 days)	ND	ND	ND
	Ag-110m(approx. 250 days)	ND	ND	ND

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap. In regard to fixed point "forest of wild birds", sampling was conducted on the same sampling point but in deeper direction.

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Cs-137: ND～21Bq/kg･dry soil, Others: ND

(6) (Unit：Bq/kg･wet soil)

Sampling spot		【Fixed point①】*1 Playground (west-northwest approx. 500m) *2	【Fixed point②】*1 Forest of wild birds (west approx. 500m)*2	【Fixed point③】*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m)*2
Date of sampling		4/25	4/25	4/25
Analytical body		Japan Chemical Analysis Center	Japan Chemical Analysis Center	Japan Chemical Analysis Center
Date of analysis		4/27	4/27	4/27
Nuclide	I-131(approx. 8 days)	1.8E+05	1.1E+04	1.1E+05
	I-132(approx. 2 hours)	ND	ND	ND
	Cs-134(approx. 2 years)	4.0E+05	4.9E+03	1.5E+05
	Cs-136(approx. 13 days)	6.7E+03	8.8E+01	2.5E+03
	Cs-137(approx. 30 years)	3.9E+05	5.1E+03	1.5E+05
	Te-129m(approx. 34 days)	1.1E+05	1.4E+03	8.3E+04
	Te-132(approx. 3 days)	ND	ND	ND
	Ba-140(approx. 13 days)	ND	ND	ND
	Nb-95(approx. 35 days)	ND	ND	ND
	Ru-106(approx. 370 days)	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND
	La-140(approx. 2 days)	ND	ND	ND
	Be-7(approx. 53 days)	ND	ND	ND
	Ag-110m(approx. 250 days)	ND	ND	ND

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap. In regard to fixed point "forest of wild birds", sampling was conducted on the same sampling point but in deeper direction.

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Cs-137: ND～21Bq/kg･dry soil, Others: ND

(Unit：Bq/kg･wet soil)

Sampling spot		【Fixed point①】*1 Playground (west-northwest approx. 500m) *2	【Fixed point②】*1 Forest of wild birds (west approx. 500m)*2	【Fixed point③】*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m)*2
Date of sampling		4/28	4/28	4/28
Analytical body		Japan Atomic Energy Agency	Japan Atomic Energy Agency	Japan Atomic Energy Agency
Date of analysis		5/6	(2) 5/6	5/6
Nuclide	I-131(approx. 8 days)	2.6E+05	7.0E+03	(2) 2.0E+05
	I-132(approx. 2 hours)	ND	ND	ND
	Cs-134(approx. 2 years)	5.3E+05	4.9E+03	6.2E+05
	Cs-136(approx. 13 days)	1.1E+04	1.2E+02	1.4E+04
	Cs-137(approx. 30 years)	5.4E+05	4.9E+03	6.4E+05
	Te-129m(approx. 34 days)	1.7E+05	ND	2.5E+05
	Te-132(approx. 3 days)	ND	ND	ND
	Ba-140(approx. 13 days)	ND	ND	ND
	Nb-95(approx. 35 days)	9.1E+02	ND	1.2E+03
	Ru-106(approx. 370 days)	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND
	La-140(approx. 2 days)	ND	ND	ND
	Be-7(approx. 53 days)	ND	ND	ND
	Ag-110m(approx. 250 days)	2.7E+03	ND	ND

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap. In regard to fixed point "forest of wild birds", sampling was conducted on the same sampling point but in deeper direction.

*2 Distance from the stack of Unit 1, 2

ORIGINAL

(Attachment 2)

Result of gamma ray nuclide analysis of soil

1.Result of measurement:
The results of gamma ray nuclide analysis are as follows. Analysis was conducted on all samples which we conducted plutonium analysis.

2. Evaluation:
The result of gamma ray nuclide analysis of soil conducted in Fukushima Prefecture during FY 2009 is shown below.
Compared to this, higher radioactivity density has been detected.

<Results of the soil analysis in Fukushima Prefecture conducted in FY 2009>
Cs-137: ND～21Bq/kg･dry soil, Others: ND

(Unit：Bq/kg･wet soil)

Sampling spot		【Fixed point①】*1 Playground (west-northwest approx. 500m)*2	【Fixed point②】*1 Forest of wild birds (west approx. 500m)*2	【Fixed point③】*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m)*2
Date of sampling		4/28	4/28	4/28
Analytical body		Japan Atomic Energy Agency	Japan Atomic Energy Agency	Japan Atomic Energy Agency
Date of analysis		5/6	5/6	5/6
Nuclide	I-131(approx. 8 days)	2.6E+05	7.0E+03	2.2E+05
	I-132(approx. 2 hours)	ND	ND	ND
	Cs-134(approx. 2 years)	5.3E+05	4.9E+03	6.2E+05
	Cs-136(approx. 13 days)	1.1E+04	1.2E+02	1.4E+04
	Cs-137(approx. 30 years)	5.4E+05	4.9E+03	6.4E+05
	Te-129m(approx. 34 days)	1.7E+05	ND	2.5E+05
	Te-132(approx. 3 days)	ND	ND	ND
	Ba-140(approx. 13 days)	ND	ND	ND
	Nb-95(approx. 35 days)	9.1E+02	ND	1.2E+03
	Ru-106(approx. 370 days)	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND
	La-140(approx. 2 days)	ND	ND	ND
	Be-7(approx. 53 days)	ND	ND	ND
	Ag-110m(approx. 250 days)	2.7E+03	ND	ND

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap. In regard to fixed point "forest of wild birds", sampling was conducted on the same sampling point but in deeper direction.

*2 Distance from the stack of Unit 1, 2

REVISED

(Attachment 2)

Result of gamma ray nuclide analysis of soil

1.Result of measurement:
The results of gamma ray nuclide analysis are as follows. Analysis was conducted on all samples which we conducted plutonium analysis.

2. Evaluation:
The result of gamma ray nuclide analysis of soil conducted in Fukushima Prefecture during FY 2009 is shown below.
Compared to this, higher radioactivity density has been detected.

<Results of the soil analysis in Fukushima Prefecture conducted in FY 2009>
Cs-137: ND～21Bq/kg･dry soil, Others: ND

(6) (Unit:Bq/kg･dry soil【JCAC】
Bq/kg･wet soil【JAEA】)

Sampling spot		【Fixed point①】*1 Playground (west-northwest approx. 500m)*2		【Fixed point②】*1 Forest of wild birds (west approx. 500m)*2		【Fixed point③】*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m)*2	
Date of sampling		May 02, 2011	May 05, 2011	May 02, 2011	May 05, 2011	May 02, 2011	May 05, 2011
Analytical body		Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3	JAEA
Date of analysis		5/3	5/6	5/3	5/6	5/3	5/6
Nuclide	I-131(approx. 8 days)	6.7E+04	1.7E+05	2.7E+04	3.5E+04	1.0E+05	2.7E+05
	I-132(approx. 2 hours)	ND	ND	ND	ND	ND	ND
	Cs-134(approx. 2 years)	1.9E+05	5.3E+05	4.5E+03	1.3E+04	3.3E+05	2.2E+06
	Cs-136(approx. 13 days)	2.3E+03	7.4E+03	ND	2.3E+02	4.0E+03	3.5E+04
	Cs-137(approx. 30 years)	1.7E+05	5.5E+05	4.5E+03	1.4E+04	3.2E+05	2.3E+06
	Te-129m(approx. 34 days)	ND	1.6E+05	2.5E+03	5.2E+03	1.3E+05	7.5E+05
	Te-132(approx. 3 days)	ND	ND	ND	ND	ND	ND
	Ba-140(approx. 13 days)	ND	ND	ND	ND	ND	ND
	Nb-95(approx. 35 days)	ND	1.5E+03	ND	ND	ND	3.0E+03
	Ru-106(approx. 370 days)	ND	ND	ND	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND	ND	ND	ND
	La-140(approx. 2 days)	ND	ND	ND	ND	ND	ND
	Be-7(approx. 53 days)	ND	ND	ND	ND	ND	ND
	Ag-110m(approx. 250 days)	ND	3.0E+03	ND	ND	ND	ND

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap. In regard to fixed point "forest of wild birds", sampling was conducted on the same sampling point but in deeper direction.

*2 Distance from the stack of Unit 1, 2

*3 Analysis results from Japan Chemical Analysis Center do not consider half-life until the sampling date.

*4 Regarding parent nuclide and daughter nuclides forming radiative balance, radioactive concentrations of both are checked. When they are similar (the difference is within one order of magnitude), both are described in the table. In case that the daughter nuclide (esp. short half-life nuclide) is much larger than the parent nuclide (more than 2 orders of magnitude), the parent nuclide is stated in the table. I-132 and La-140 are evaluated by their parent nuclides Te-132 and Ba-140 respectively.)

ORIGINAL

(Attachment 2)

Result of gamma ray nuclide analysis of soil

1.Result of measurement:
The results of gamma ray nuclide analysis are as follows. Analysis was conducted on all samples which we conducted plutonium analysis.

2. Evaluation:
The result of gamma ray nuclide analysis of soil conducted in Fukushima Prefecture during FY 2009 is shown below.
Compared to this, higher radioactivity density has been detected.

<Results of the soil analysis in Fukushima Prefecture conducted in FY 2009>
Cs-137: ND～21Bq/kg･dry soil, Others: ND

(Unit：Bq/kg･dry soil)

Sampling spot		【Fixed point①】*1 Playground (west-northwest approx. 500m)*2		【Fixed point②】*1 Forest of wild birds (west approx. 500m)*2		【Fixed point③】*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m)*2	
Date of sampling		May 02, 2011	May 05, 2011	May 02, 2011	May 05, 2011	May 02, 2011	May 05, 2011
Analytical body		Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3	JAEA
Date of analysis		5/3	5/6	5/3	5/6	5/3	5/6
Nuclide	I-131(approx. 8 days)	6.7E+04	1.7E+05	2.7E+04	3.5E+04	1.0E+05	2.7E+05
	I-132(approx. 2 hours)	ND	ND	ND	ND	ND	ND
	Cs-134(approx. 2 years)	1.9E+05	5.3E+05	4.5E+03	1.3E+04	3.3E+05	2.2E+06
	Cs-136(approx. 13 days)	2.3E+03	7.4E+03	ND	2.3E+02	4.0E+03	3.5E+04
	Cs-137(approx. 30 years)	1.7E+05	5.5E+05	4.5E+03	1.4E+04	3.2E+05	2.3E+06
	Te-129m(approx. 34 days)	ND	1.6E+05	2.5E+03	5.2E+03	1.3E+05	7.5E+05
	Te-132(approx. 3 days)	ND	ND	ND	ND	ND	ND
	Ba-140(approx. 13 days)	ND	ND	ND	ND	ND	ND
	Nb-95(approx. 35 days)	ND	1.5E+03	ND	ND	ND	3.0E+03
	Ru-106(approx. 370 days)	ND	ND	ND	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND	ND	ND	ND
	La-140(approx. 2 days)	ND	ND	ND	ND	ND	ND
	Be-7(approx. 53 days)	ND	ND	ND	ND	ND	ND
	Ag-110m(approx. 250 days)	ND	3.0E+03	ND	ND	ND	ND

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap. In regard to fixed point "forest of wild birds", sampling was conducted on the same sampling point but in deeper direction.

*2 Distance from the stack of Unit 1, 2

*3 Analysis results from Japan Chemical Analysis Center do not consider half-life until the sampling date.

*4 Regarding parent nuclide and daughter nuclides forming radiative balance, radioactive concentrations of both are checked. When they are similar (the difference is within one order of magnitude), both are described in the table. In case that the daughter nuclide (esp. short half-life nuclide) is much larger than the parent nuclide (more than 2 orders of magnitude), the parent nuclide is stated in the table. I-132 and La-140 are evaluated by their parent nuclides Te-132 and Ba-140 respectively.)

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(Attachment 2)

Result of gamma ray nuclide analysis of soil

1.Result of measurement:
The results of gamma ray nuclide analysis are as follows. Analysis was conducted on all samples which we conducted plutonium analysis.

2. Evaluation:
The result of gamma ray nuclide analysis of soil conducted in Fukushima Prefecture during FY 2009 is shown below.
Compared to this, higher radioactivity density has been detected.

<Results of the soil analysis in Fukushima Prefecture conducted in FY 2009>
Cs-137: ND～21Bq/kg･dry soil, Others: ND

(6) (Unit:Bq/kg･dry soil【JCAC】
Bq/kg･wet soil【JAEA】)

Sampling spot		【Fixed point①】*1 Playground (west-northwest approx. 500m) *2		【Fixed point②】*1 Forest of wild birds (west approx. 500m)*2		【Fixed point③】*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m)	
Date of sampling		5/9	5/12	5/9	5/12	5/9	5/12
Analytical body		JCAC *3	JAEA	JCAC *3	JAEA	JCAC *3	JAEA
Date of analysis		5/11	5/13	5/11	5/13	5/11	5/13
Nuclide	I-131(approx. 8 days)	9.4E+04	9.4E+04	2.0E+04	9.9E+03	9.1E+04	1.1E+05
	I-132(approx. 2 hours)	ND	ND	ND	ND	ND	ND
	Cs-134(approx. 2 years)	5.0E+05	5.0E+05	3.8E+04	1.4E+04	1.1E+05	1.4E+06
	Cs-136(approx. 13 days)	5.3E+03	5.4E+03	5.7E+02	1.9E+02	8.6E+03	1.5E+04
	Cs-137(approx. 30 years)	5.0E+05	5.2E+05	4.0E+04	1.5E+04	1.1E+06	1.4E+06
	Te-129m(approx. 34 days)	1.2E+05	1.3E+05	7.0E+04	3.9E+03	2.7E+05	4.3E+05
	Te-132(approx. 3 days)	ND	ND	ND	ND	ND	ND
	Ba-140(approx. 13 days)	ND	ND	ND	ND	ND	ND
	Nb-95(approx. 35 days)	ND	1.3E+03	ND	ND	ND	1.2E+03
	Ru-106(approx. 370 days)	ND	ND	ND	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND	ND	ND	ND
	La-140(approx. 2 days)	ND	ND	ND	ND	ND	ND
	Be-7(approx. 53 days)	ND	ND	ND	ND	ND	ND
	Ag-110m(approx. 250 days)	ND	ND	ND	ND	ND	3.3E+03

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap. In regard to fixed point "forest of wild birds", sampling was conducted on the same sampling point but in deeper direction.

*2 Distance from the stack of Unit 1, 2

*3 Analysis results from Japan Chemical Analysis Center do not consider half-life until the sampling date.

*4 Regarding parent nuclide and daughter nuclides forming radiative balance, radioactive concentrations of both are checked. When they are similar (the difference is within one order of magnitude), both are described in the table. In case that the daughter nuclide (esp. short half-life nuclide) is much larger than the parent nuclide (more than 2 orders of magnitude), the parent nuclide is stated in the table. I-132 and La-140 are evaluated by their parent nuclides Te-132 and Ba-140 respectively.)

ORIGINAL

(Attachment 2)

Result of gamma ray nuclide analysis of soil

1.Result of measurement:
The results of gamma ray nuclide analysis are as follows. Analysis was conducted on all samples which we conducted plutonium analysis.

2. Evaluation:
The result of gamma ray nuclide analysis of soil conducted in Fukushima Prefecture during FY 2009 is shown below.
Compared to this, higher radioactivity density has been detected.

<Results of the soil analysis in Fukushima Prefecture conducted in FY 2009>
Cs-137: ND～21Bq/kg･dry soil, Others: ND

(Unit：Bq/kg･dry soil)

Sampling spot		【Fixed point①】*1 Playground (west-northwest approx. 500m) *2		【Fixed point②】*1 Forest of wild birds (west approx. 500m)*2		【Fixed point③】*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m)	
Date of sampling		5/9	5/12	5/9	5/12	5/9	5/12
Analytical body		JCAC *3	JAEA	JCAC *3	JAEA	JCAC *3	JAEA
Date of analysis		5/11	5/13	5/11	5/13	5/11	5/13
Nuclide	I-131(approx. 8 days)	9.4E+04	9.4E+04	2.0E+04	9.9E+03	9.1E+04	1.1E+05
	I-132(approx. 2 hours)	ND	ND	ND	ND	ND	ND
	Cs-134(approx. 2 years)	5.0E+05	5.0E+05	3.8E+04	1.4E+04	1.1E+05	1.4E+06
	Cs-136(approx. 13 days)	5.3E+03	5.4E+03	5.7E+02	1.9E+02	8.6E+03	1.5E+04
	Cs-137(approx. 30 years)	5.0E+05	5.2E+05	4.0E+04	1.5E+04	1.1E+06	1.4E+06
	Te-129m(approx. 34 days)	1.2E+05	1.3E+05	7.0E+04	3.9E+03	2.7E+05	4.3E+05
	Te-132(approx. 3 days)	ND	ND	ND	ND	ND	ND
	Ba-140(approx. 13 days)	ND	ND	ND	ND	ND	ND
	Nb-95(approx. 35 days)	ND	1.3E+03	ND	ND	ND	1.2E+03
	Ru-106(approx. 370 days)	ND	ND	ND	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND	ND	ND	ND
	La-140(approx. 2 days)	ND	ND	ND	ND	ND	ND
	Be-7(approx. 53 days)	ND	ND	ND	ND	ND	ND
	Ag-110m(approx. 250 days)	ND	ND	ND	ND	ND	3.3E+03

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap. In regard to fixed point "forest of wild birds", sampling was conducted on the same sampling point but in deeper direction.

*2 Distance from the stack of Unit 1, 2

*3 Analysis results from Japan Chemical Analysis Center do not consider half-life until the sampling date.

*4 Regarding parent nuclide and daughter nuclides forming radiative balance, radioactive concentrations of both are checked. When they are similar (the difference is within one order of magnitude), both are described in the table. In case that the daughter nuclide (esp. short half-life nuclide) is much larger than the parent nuclide (more than 2 orders of magnitude), the parent nuclide is stated in the table. I-132 and La-140 are evaluated by their parent nuclides Te-132 and Ba-140 respectively.)

REVISED

(Attachment 2)

Result of gamma ray nuclide analysis of soil

1.Result of measurement:
The results of gamma ray nuclide analysis are as follows. Analysis was conducted on all samples which we conducted plutonium analysis.

2. Evaluation:
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Compared to this, higher radioactivity density has been detected.

<Results of the soil analysis in Fukushima Prefecture conducted in FY 2009>
Cs-137: ND～21Bq/kg･dry soil, Others: ND

(6) (Unit:Bq/kg･dry soil【JCAC】
Bq/kg･wet soil【JAEA】)

Sampling spot		【Fixed point①】*1 Playground (west-northwest approx. 500m)*2			【Fixed point②】*1 Forest of wild birds (west approx. 500m)*2			【Fixed point③】*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m)*2		
Date of sampling		5/16	5/19	5/23	5/16	5/19	5/23	5/16	5/19	5/23
Analytical body		Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3
Date of analysis		5/25	5/24	5/25	5/25	5/24	5/25	5/25	5/24	5/25
Nuclide	I-131(approx. 8 days)	2.6E+04	1.9E+04	3.4E+04	1.9E+03	2.3E+02	6.8E+02	3.2E+04	3.9E+04	3.6E+04
	I-132(approx. 2 hours)	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cs-134(approx. 2 years)	4.9E+05	1.6E+05	5.8E+05	7.4E+03	3.9E+02	3.1E+03	7.8E+05	9.4E+05	1.4E+06
	Cs-136(approx. 13 days)	2.2E+03	1.2E+03	2.6E+03	ND	ND	ND	3.2E+03	7.4E+03	5.6E+03
	Cs-137(approx. 30 years)	4.9E+05	1.7E+05	5.8E+05	8.0E+03	4.2E+02	3.4E+03	7.9E+05	9.8E+05	1.4E+06
	Te-129m(approx. 34 days)	1.4E+05	4.2E+04	1.1E+05	1.2E+03	ND	8.8E+02	1.9E+05	2.9E+05	3.7E+05
	Te-132(approx. 3 days)	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ba-140(approx. 13 days)	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nb-95(approx. 35 days)	ND	4.3E+02	ND	ND	ND	ND	ND	1.2E+03	ND
	Ru-106(approx. 370 days)	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND	ND	ND	ND	ND	ND	ND
	La-140(approx. 2 days)	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Be-7(approx. 53 days)	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ag-110m(approx. 250 days)	ND	ND	ND	ND	ND	ND	ND	ND	ND

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap.

*2 Distance from the stack of Unit 1, 2

*3 Analysis results from Japan Chemical Analysis Center do not consider half-life until the sampling date.

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(Attachment 2)

Result of gamma ray nuclide analysis of soil

1.Result of measurement:
The results of gamma ray nuclide analysis are as follows. Analysis was conducted on all samples which we conducted plutonium analysis.

2. Evaluation:
The result of gamma ray nuclide analysis of soil conducted in Fukushima Prefecture during FY 2009 is shown below.
Compared to this, higher radioactivity density has been detected.

<Results of the soil analysis in Fukushima Prefecture conducted in FY 2009>
Cs-137: ND～21Bq/kg･dry soil, Others: ND

(Unit：Bq/kg･dry soil)

Sampling spot		【Fixed point①】*1 Playground (west-northwest approx. 500m)*2			【Fixed point②】*1 Forest of wild birds (west approx. 500m)*2			【Fixed point③】*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m)*2		
Date of sampling		5/16	5/19	5/23	5/16	5/19	5/23	5/16	5/19	5/23
Analytical body		Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3
Date of analysis		5/25	5/24	5/25	5/25	5/24	5/25	5/25	5/24	5/25
Nuclide	I-131(approx. 8 days)	2.6E+04	1.9E+04	3.4E+04	1.9E+03	2.3E+02	6.8E+02	3.2E+04	3.9E+04	3.6E+04
	I-132(approx. 2 hours)	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cs-134(approx. 2 years)	4.9E+05	1.6E+05	5.8E+05	7.4E+03	3.9E+02	3.1E+03	7.8E+05	9.4E+05	1.4E+06
	Cs-136(approx. 13 days)	2.2E+03	1.2E+03	2.6E+03	ND	ND	ND	3.2E+03	7.4E+03	5.6E+03
	Cs-137(approx. 30 years)	4.9E+05	1.7E+05	5.8E+05	8.0E+03	4.2E+02	3.4E+03	7.9E+05	9.8E+05	1.4E+06
	Te-129m(approx. 34 days)	1.4E+05	4.2E+04	1.1E+05	1.2E+03	ND	8.8E+02	1.9E+05	2.9E+05	3.7E+05
	Te-132(approx. 3 days)	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ba-140(approx. 13 days)	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nb-95(approx. 35 days)	ND	4.3E+02	ND	ND	ND	ND	ND	1.2E+03	ND
	Ru-106(approx. 370 days)	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND	ND	ND	ND	ND	ND	ND
	La-140(approx. 2 days)	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Be-7(approx. 53 days)	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ag-110m(approx. 250 days)	ND	ND	ND	ND	ND	ND	ND	ND	ND

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap.

*2 Distance from the stack of Unit 1, 2

*3 Analysis results from Japan Chemical Analysis Center do not consider half-life until the sampling date.

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（Attachment 2）

Result of gamma ray nuclide analysis of soil - Fukushima Daiichi Nuclear Power Station

1.Result of measurement:
The results of gamma ray nuclide analysis are as follows. Analysis was conducted on all samples which we conducted plutonium analysis.

2. Evaluation:
The result of gamma ray nuclide analysis of soil conducted in Fukushima Prefecture during FY 2009 is shown below.
Compared to this, higher radioactivity density has been detected.

<Results of the soil analysis in Fukushima Prefecture conducted in FY 2009>
Cs-137: ND～21Bq/kg･dry soil, Others: ND

(6) (Unit：Bq/kg･wet soil)

Sampling spot		【Fixed point①】*1 Playground （west-northwest approx. 500m）*2	【Fixed point②】*1 Forest of wild birds （west approx. 500m）*2	【Fixed point③】*1 Adjacent to industrial waste disposal facility （south-southwest approx. 500m）*2
Date of sampling		5/26	5/26	5/26
Analytical body		JAEA	JAEA	JAEA
Date of analysis		5/30	5/30	5/30
Nuclide	I-131(approx. 8 days)	2.6E+04	4.8E+02	2.9E+04
	I-132(approx. 2 hours)	ND	ND	ND
	Cs-134(approx. 2 years)	4.9E+05	1.3E+03	1.2E+06
	Cs-136(approx. 13 days)	2.6E+03	ND	7.3E+03
	Cs-137(approx. 30 years)	5.1E+05	1.3E+03	1.3E+06
	Te-129m(approx. 34 days)	1.2E+05	ND	2.3E+05
	Te-132(approx. 3 days)	ND	ND	ND
	Ba-140(approx. 13 days)	ND	ND	ND
	Nb-95(approx. 35 days)	5.0E+02	ND	1.4E+03
	Ru-106(approx. 370 days)	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND
	La-140(approx. 2 days)	ND	ND	ND
	Be-7(approx. 53 days)	ND	ND	ND
	Ag-110m(approx. 250 days)	2.4E+03	ND	ND

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap.

*2 Distance from the stack of Unit 1, 2

ORIGINAL

(Attachment 2)

Result of gamma ray nuclide analysis of soil - Fukushima Daiichi Nuclear Power Station

1.Result of measurement:
The results of gamma ray nuclide analysis are as follows. Analysis was conducted on all samples which we conducted plutonium analysis.

2. Evaluation:
The result of gamma ray nuclide analysis of soil conducted in Fukushima Prefecture during FY 2009 is shown below.
Compared to this, higher radioactivity density has been detected.

<Results of the soil analysis in Fukushima Prefecture conducted in FY 2009>
Cs-137: ND～21Bq/kg･dry soil, Others: ND

(6) (Unit：Bq/kg・soil)

Sampling spot		【Fixed point①】*1 Playground (west-northwest approx. 500m)*2	【Fixed point②】*1 Forest of wild birds (west approx. 500m)*2	【Fixed point③】*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m)*2
Date of sampling		5/26	5/26	5/26
Analytical body		JAEA	JAEA	JAEA
Date of analysis		5/30	5/30	5/30
Nuclide	I-131(approx. 8 days)	2.6E+04	4.8E+02	2.9E+04
	I-132(approx. 2 hours)	ND	ND	ND
	Cs-134(approx. 2 years)	4.9E+05	1.3E+03	1.2E+06
	Cs-136(approx. 13 days)	2.6E+03	ND	7.3E+03
	Cs-137(approx. 30 years)	5.1E+05	1.3E+03	1.3E+06
	Te-129m(approx. 34 days)	1.2E+05	ND	2.3E+05
	Te-132(approx. 3 days)	ND	ND	ND
	Ba-140(approx. 13 days)	ND	ND	ND
	Nb-95(approx. 35 days)	5.0E+02	ND	1.4E+03
	Ru-106(approx. 370 days)	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND
	La-140(approx. 2 days)	ND	ND	ND
	Be-7(approx. 53 days)	ND	ND	ND
	Ag-110m(approx. 250 days)	2.4E+03	ND	ND

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap.

*2 Distance from the stack of Unit 1, 2

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(Attachment 2)

Result of gamma ray nuclide analysis of soil - Fukushima Daiichi Nuclear Power Station

1.Result of measurement:
The results of gamma ray nuclide analysis are as follows. Analysis was conducted on all samples which we conducted plutonium analysis.

2. Evaluation:
The result of gamma ray nuclide analysis of soil conducted in Fukushima Prefecture during FY 2009 is shown below.
Compared to this, higher radioactivity density has been detected.

<Results of the soil analysis in Fukushima Prefecture conducted in FY 2009>
Cs-137: ND～21Bq/kg･dry soil, Others: ND

(6) (Unit：Bq/kg･dry soil)

Sampling spot		【Fixed point①】*1 Playground (west-northwest approx. 500m)*2	【Fixed point②】*1 Forest of wild birds (west approx. 500m)*2	【Fixed point③】*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m)*2
Date of sampling		5/30	5/30	5/30
Analytical body		Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3
Date of analysis		6/1	6/1	6/1
Nuclide	I-131(approx. 8 days)	1.3E+04	7.3E+01	1.5E+04
	I-132(approx. 2 hours)	ND	ND	ND
	Cs-134(approx. 2 years)	3.6E+05	1.9E+02	7.7E+05
	Cs-136(approx. 13 days)	1.0E+03	ND	1.6E+03
	Cs-137(approx. 30 years)	3.7E+05	2.2E+02	8.1E+05
	Te-129m(approx. 34 days)	4.1E+04	ND	2.2E+05
	Te-132(approx. 3 days)	ND	ND	ND
	Ba-140(approx. 13 days)	ND	ND	ND
	Nb-95(approx. 35 days)	ND	ND	ND
	Ru-106(approx. 370 days)	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND
	La-140(approx. 2 days)	ND	ND	ND
	Be-7(approx. 53 days)	ND	ND	ND
	Ag-110m(approx. 250 days)	ND	ND	ND

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap. In regard to fixed point "forest of wind birds", sampling was conducted on the same sampling point but in deeper direction. (In case we are unable to collect samples at the sampling point, the sampling point will be changed.)

*2 Distance from the stack of Unit 1, 2

*3 Analysis results from Japan Chemical Analysis Center do not consider half-life until the sampling date.

ORIGINAL

(Attachment 2)

Result of gamma ray nuclide analysis of soil - Fukushima Daiichi Nuclear Power Station

1.Result of measurement:
The results of gamma ray nuclide analysis are as follows. Analysis was conducted on all samples which we conducted plutonium analysis.

2. Evaluation:
The result of gamma ray nuclide analysis of soil conducted in Fukushima Prefecture during FY 2009 is shown below.
Compared to this, higher radioactivity density has been detected.

<Results of the soil analysis in Fukushima Prefecture conducted in FY 2009>
Cs-137: ND～21Bq/kg･dry soil, Others: ND

(Unit：Bq/kg･soil)

Sampling spot		【Fixed point①】*1 Playground (west-northwest approx. 500m)*2	【Fixed point②】*1 Forest of wild birds (west approx. 500m)*2	【Fixed point③】*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m)*2
Date of sampling		5/30	5/30	5/30
Analytical body		Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3
Date of analysis		6/1	6/1	6/1
Nuclide	I-131(approx. 8 days)	1.3E+04	7.3E+01	1.5E+04
	I-132(approx. 2 hours)	ND	ND	ND
	Cs-134(approx. 2 years)	3.6E+05	1.9E+02	7.7E+05
	Cs-136(approx. 13 days)	1.0E+03	ND	1.6E+03
	Cs-137(approx. 30 years)	3.7E+05	2.2E+02	8.1E+05
	Te-129m(approx. 34 days)	4.1E+04	ND	2.2E+05
	Te-132(approx. 3 days)	ND	ND	ND
	Ba-140(approx. 13 days)	ND	ND	ND
	Nb-95(approx. 35 days)	ND	ND	ND
	Ru-106(approx. 370 days)	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND
	La-140(approx. 2 days)	ND	ND	ND
	Be-7(approx. 53 days)	ND	ND	ND
	Ag-110m(approx. 250 days	ND	ND	ND

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap. In regard to fixed point "forest of wind birds", sampling was conducted on the same sampling point but in deeper direction. (In case we are unable to collect samples at the sampling point, the sampling point will be changed.)

*2 Distance from the stack of Unit 1, 2

*3 Analysis results from Japan Chemical Analysis Center do not consider half-life until the sampling date.

REVISED

(Attachment 2)

Result of gamma ray nuclide analysis of soil - Fukushima Daiichi Nuclear Power Station

1.Result of measurement:
The results of gamma ray nuclide analysis are as follows. Analysis was conducted on all samples which we conducted plutonium analysis.

2. Evaluation:
The result of gamma ray nuclide analysis of soil conducted in Fukushima Prefecture during FY 2009 is shown below.
Compared to this, higher radioactivity density has been detected.

<Results of the soil analysis in Fukushima Prefecture conducted in FY 2009>
Cs-137: ND～21Bq/kg･dry soil, Others: ND

(6) (Unit：Bq/kg･wet soil)

Sampling spot		【Fixed point①】*1 Playground (west-northwest approx. 500m)*2	【Fixed point②】*1 Forest of wild birds (west approx. 500m)*2	【Fixed point③】*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m)*2
Date of sampling		6/2	6/2	6/2
Analytical body		JAEA	JAEA	JAEA
Date of analysis		6/3	6/3	6/3
Nuclide	I-131(approx. 8 days)	1.8E+04	3.3E+02	2.0E+04
	I-132(approx. 2 hours)	ND	ND	ND
	Cs-134(approx. 2 years)	6.7E+05	2.2E+03	1.7E+06
	Cs-136(approx. 13 days)	2.7E+03	ND	6.1E+03
	Cs-137(approx. 30 years)	7.1E+05	2.4E+03	1.8E+06
	Te-129m(approx. 34 days)	8.3E+04	ND	3.1E+05
	Te-132(approx. 3 days)	ND	ND	ND
	Ba-140(approx. 13 days)	ND	ND	ND
	Nb-95(approx. 35 days)	8.8E+02	ND	1.4E+03
	Ru-106(approx. 370 days)	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND
	La-140(approx. 2 days)	ND	ND	ND
	Be-7(approx. 53 days)	ND	ND	ND
	Ag-110m(approx. 250 days)	3.3E+03	ND	2.5E+03

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap. In regard to fixed point "forest of wind birds", sampling was conducted on the same sampling point but in deeper direction. (In case we are unable to collect samples at the sampling point, the sampling point will be changed.)

*2 Distance from the stack of Unit 1, 2

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(Attachment 2)

Result of gamma ray nuclide analysis of soil - Fukushima Daiichi Nuclear Power Station

1.Result of measurement:
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2. Evaluation:
The result of gamma ray nuclide analysis of soil conducted in Fukushima Prefecture during FY 2009 is shown below.
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<Results of the soil analysis in Fukushima Prefecture conducted in FY 2009>
Cs-137: ND～21Bq/kg･dry soil, Others: ND

(Unit：Bq/kg・soil)

Sampling spot		【Fixed point①】*1 Playground (west-northwest approx. 500m)*2	【Fixed point②】*1 Forest of wild birds (west approx. 500m)*2	【Fixed point③】*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m)*2
Date of sampling		6/2	6/2	6/2
Analytical body		JAEA	JAEA	JAEA
Date of analysis		6/3	6/3	6/3
Nuclide	I-131(approx. 8 days)	1.8E+04	3.3E+02	2.0E+04
	I-132(approx. 2 hours)	ND	ND	ND
	Cs-134(approx. 2 years)	6.7E+05	2.2E+03	1.7E+06
	Cs-136(approx. 13 days)	2.7E+03	ND	6.1E+03
	Cs-137(approx. 30 years)	7.1E+05	2.4E+03	1.8E+06
	Te-129m(approx. 34 days)	8.3E+04	ND	3.1E+05
	Te-132(approx. 3 days)	ND	ND	ND
	Ba-140(approx. 13 days)	ND	ND	ND
	Nb-95(approx. 35 days)	8.8E+02	ND	1.4E+03
	Ru-106(approx. 370 days)	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND
	La-140(approx. 2 days)	ND	ND	ND
	Be-7(approx. 53 days)	ND	ND	ND
	Ag-110m(approx. 250 days)	3.3E+03	ND	2.5E+03

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap. In regard to fixed point "forest of wind birds", sampling was conducted on the same sampling point but in deeper direction. (In case we are unable to collect samples at the sampling point, the sampling point will be changed.)

*2 Distance from the stack of Unit 1, 2

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(Appendix 2)

Result of gamma ray nuclide analysis of soil - Fukushima Daiichi Nuclear Power Station

1.Result of measurement:
The results of gamma ray nuclide analysis are as follows. Analysis was conducted on all samples which we conducted plutonium analysis.

2. Evaluation:
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<Results of the soil analysis in Fukushima Prefecture conducted in FY 2009>
Cs-137: ND～21Bq/kg･dry soil, Others: ND

(6) (Unit:Bq/kg･dry soil【JCAC】
Bq/kg･wet soil【JAEA】)

Sampling spot		【Fixed point①】*1 Playground (west-northwest approx. 500m)*2		【Fixed point②】*1 Forest of wild birds (west approx. 500m)*2		【Fixed point③】*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m)*2	
Date of sampling		6/6	6/9	6/6	6/9	6/6	6/9
Analytical body		Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3	JAEA
Date of analysis		6/8	6/10	6/8	6/10	6/8	6/10
Nuclide	I-131(approx. 8 days)	7.2E+03	9.3E+03	3.6E+01	5.2E+01	6.8E+03	7.9E+03
	I-132(approx. 2 hours)	ND	ND	ND	ND	ND	ND
	Cs-134(approx. 2 years)	4.5E+05	5.8E+05	3.5E+02	4.6E+02	6.7E+05	1.2E+06
	Cs-136(approx. 13 days)	1.4E+03	1.5E+03	ND	ND	1.9E+03	3.3E+03
	Cs-137(approx. 30 years)	4.6E+05	6.2E+05	3.5E+02	4.8E+02	7.0E+05	1.3E+06
	Te-129m(approx. 34 days)	8.6E+04	5.6E+04	ND	ND	1.8E+05	2.0E+05
	Te-132(approx. 3 days)	ND	ND	ND	ND	ND	ND
	Ba-140(approx. 13 days)	ND	ND	ND	ND	ND	ND
	Nb-95(approx. 35 days)	ND	6.9E+02	ND	ND	ND	ND
	Ru-106(approx. 370 days)	ND	ND	ND	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND	ND	ND	ND
	La-140(approx. 2 days)	ND	ND	ND	ND	ND	ND
	Be-7(approx. 53 days)	ND	ND	ND	ND	ND	ND
	Ag-110m(approx. 250 days)	ND	2.5E+03	ND	ND	ND	1.6E+03

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap. In regard to fixed point "forest of wind birds", sampling was conducted on the same sampling point but in deeper direction. (In case we are unable to collect samples at the sampling point, the sampling point will be changed.)

*2 Distance from the stack of Unit 1, 2

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ORIGINAL

(Appendix 2)

Result of gamma ray nuclide analysis of soil - Fukushima Daiichi Nuclear Power Station

1.Result of measurement:
The results of gamma ray nuclide analysis are as follows. Analysis was conducted on all samples which we conducted plutonium analysis.

2. Evaluation:
The result of gamma ray nuclide analysis of soil conducted in Fukushima Prefecture during FY 2009 is shown below.
Compared to this, higher radioactivity density has been detected.

<Results of the soil analysis in Fukushima Prefecture conducted in FY 2009>
Cs-137: ND～21Bq/kg･dry soil, Others: ND

(Unit：Bq/kg･soil)

Sampling spot		【Fixed point①】*1 Playground (west-northwest approx. 500m)*2		【Fixed point②】*1 Forest of wild birds (west approx. 500m)*2		【Fixed point③】*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m)*2	
Date of sampling		6/6	6/9	6/6	6/9	6/6	6/9
Analytical body		Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3	JAEA
Date of analysis		6/8	6/10	6/8	6/10	6/8	6/10
Nuclide	I-131(approx. 8 days)	7.2E+03	9.3E+03	3.6E+01	5.2E+01	6.8E+03	7.9E+03
	I-132(approx. 2 hours)	ND	ND	ND	ND	ND	ND
	Cs-134(approx. 2 years)	4.5E+05	5.8E+05	3.5E+02	4.6E+02	6.7E+05	1.2E+06
	Cs-136(approx. 13 days)	1.4E+03	1.5E+03	ND	ND	1.9E+03	3.3E+03
	Cs-137(approx. 30 years)	4.6E+05	6.2E+05	3.5E+02	4.8E+02	7.0E+05	1.3E+06
	Te-129m(approx. 34 days)	8.6E+04	5.6E+04	ND	ND	1.8E+05	2.0E+05
	Te-132(approx. 3 days)	ND	ND	ND	ND	ND	ND
	Ba-140(approx. 13 days)	ND	ND	ND	ND	ND	ND
	Nb-95(approx. 35 days)	ND	6.9E+02	ND	ND	ND	ND
	Ru-106(approx. 370 days)	ND	ND	ND	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND	ND	ND	ND
	La-140(approx. 2 days)	ND	ND	ND	ND	ND	ND
	Be-7(approx. 53 days)	ND	ND	ND	ND	ND	ND
	Ag-110m(approx. 250 days)	ND	2.5E+03	ND	ND	ND	1.6E+03

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap. In regard to fixed point "forest of wind birds", sampling was conducted on the same sampling point but in deeper direction. (In case we are unable to collect samples at the sampling point, the sampling point will be changed.)

*2 Distance from the stack of Unit 1, 2

*3 Analysis results from Japan Chemical Analysis Center do not consider half-life until the sampling date.

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(Appendix 2)

Result of gamma ray nuclide analysis of soil - Fukushima Daiichi Nuclear Power Station

1.Result of measurement:
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2. Evaluation:
The result of gamma ray nuclide analysis of soil conducted in Fukushima Prefecture during FY 2009 is shown below.
Compared to this, higher radioactivity density has been detected.

<Results of the soil analysis in Fukushima Prefecture conducted in FY 2009>
Cs-137: ND～21Bq/kg･dry soil, Others: ND

(6) (Unit:Bq/kg･dry soil【JCAC】
Bq/kg･wet soil【JAEA】)

Sampling spot		【Fixed point①】*1 Playground (west-northwest approx. 500m)*2				【Fixed point②】*1 Forest of wild birds (west approx. 500m)*2				【Fixed point③】*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m)*2			
Date of sampling		6/13	6/16	6/20	6/23	6/13	6/16	6/20	6/23	6/13	6/16	6/20	6/23
Analytical body		Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3	JAEA
Date of analysis		6/16	6/17	6/22	6/24	6/16	6/17	6/22	6/24	6/16	6/17	6/22	6/24
Nuclide	I-131(approx. 8 days)	3.5E+03	4.6E+03	2.9E+03	1.5E+03	7.8E+01	ND	ND	ND	3.2E+03	7.6E+03	ND	ND
	I-132(approx. 2 hours)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cs-134(approx. 2 years)	4.6E+05	6.4E+05	4.6E+05	4.8E+05	3.8E+03	2.6E+03	9.9E+02	3.7E+03	4.8E+05	2.2E+06	2.1E+06	1.1E+06
	Cs-136(approx. 13 days)	ND	1.6E+03	9.9E+02	7.0E+02	ND	ND	ND	ND	ND	3.5E+03	2.7E+03	1.6E+03
	Cs-137(approx. 30 years)	4.7E+05	6.9E+05	4.8E+05	5.2E+05	4.1E+03	2.7E+03	1.1E+03	4.2E+03	5.0E+05	2.3E+06	2.2E+06	1.2E+06
	Te-129m(approx. 34 days)	8.0E+04	1.1E+05	6.4E+04	9.1E+04	ND	ND	ND	ND	7.4E+04	3.2E+05	3.8E+05	1.6E+05
	Te-132(approx. 3 days)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ba-140(approx. 13 days)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nb-95(approx. 35 days)	ND	9.4E+02	ND	9.2E+02	ND	ND	ND	ND	ND	ND	ND	ND
	Ru-106(approx. 370 days)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	La-140(approx. 2 days)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Be-7(approx. 53 days)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ag-110m(approx. 250 days)	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.0E+03	ND	1.9E+03

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap. In regard to fixed point "forest of wind birds", sampling was conducted on the same sampling point but in deeper direction. (In case we are unable to collect samples at the sampling point, the sampling point will be changed.)

*2 Distance from the stack of Unit 1, 2

*3 Analysis results from Japan Chemical Analysis Center do not consider half-life until the sampling date.

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(Appendix 2)

Result of gamma ray nuclide analysis of soil - Fukushima Daiichi Nuclear Power Station

1.Result of measurement:
The results of gamma ray nuclide analysis are as follows. Analysis was conducted on all samples which we conducted plutonium analysis.

2. Evaluation:
The result of gamma ray nuclide analysis of soil conducted in Fukushima Prefecture during FY 2009 is shown below.
Compared to this, higher radioactivity density has been detected.

<Results of the soil analysis in Fukushima Prefecture conducted in FY 2009>
Cs-137: ND～21Bq/kg･dry soil, Others: ND

(Unit：Bq/kg･soil)

Sampling spot		【Fixed point①】*1 Playground (west-northwest approx. 500m)*2				【Fixed point②】*1 Forest of wild birds (west approx. 500m)*2				【Fixed point③】*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m)*2			
Date of sampling		6/13	6/16	6/20	6/23	6/13	6/16	6/20	6/23	6/13	6/16	6/20	6/23
Analytical body		Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3	JAEA	Japan Chemical Analysis Center*3	JAEA
Date of analysis		6/16	6/17	6/22	6/24	6/16	6/17	6/22	6/24	6/16	6/17	6/22	6/24
Nuclide	I-131(approx. 8 days)	3.5E+03	4.6E+03	2.9E+03	1.5E+03	7.8E+01	ND	ND	ND	3.2E+03	7.6E+03	ND	ND
	I-132(approx. 2 hours)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cs-134(approx. 2 years)	4.6E+05	6.4E+05	4.6E+05	4.8E+05	3.8E+03	2.6E+03	9.9E+02	3.7E+03	4.8E+05	2.2E+06	2.1E+06	1.1E+06
	Cs-136(approx. 13 days)	ND	1.6E+03	9.9E+02	7.0E+02	ND	ND	ND	ND	ND	3.5E+03	2.7E+03	1.6E+03
	Cs-137(approx. 30 years)	4.7E+05	6.9E+05	4.8E+05	5.2E+05	4.1E+03	2.7E+03	1.1E+03	4.2E+03	5.0E+05	2.3E+06	2.2E+06	1.2E+06
	Te-129m(approx. 34 days)	8.0E+04	1.1E+05	6.4E+04	9.1E+04	ND	ND	ND	ND	7.4E+04	3.2E+05	3.8E+05	1.6E+05
	Te-132(approx. 3 days)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ba-140(approx. 13 days)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nb-95(approx. 35 days)	ND	9.4E+02	ND	9.2E+02	ND	ND	ND	ND	ND	ND	ND	ND
	Ru-106(approx. 370 days)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	La-140(approx. 2 days)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Be-7(approx. 53 days)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ag-110m(approx. 250 days)	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.0E+03	ND	1.9E+03

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap. In regard to fixed point "forest of wind birds", sampling was conducted on the same sampling point but in deeper direction. (In case we are unable to collect samples at the sampling point, the sampling point will be changed.)

*2 Distance from the stack of Unit 1, 2

*3 Analysis results from Japan Chemical Analysis Center do not consider half-life until the sampling date.

REVISED

(Appendix 2)

Result of gamma ray nuclide analysis of soil - Fukushima Daiichi Nuclear Power Station

1.Result of measurement:
The results of gamma ray nuclide analysis are as follows. Analysis was conducted on all samples which we conducted plutonium analysis.

2. Evaluation:
The result of gamma ray nuclide analysis of soil conducted in Fukushima Prefecture during FY 2009 is shown below.
Compared to this, higher radioactivity density has been detected.

<Results of the soil analysis in Fukushima Prefecture conducted in FY 2009>
Cs-137: ND～21Bq/kg･dry soil, Others: ND

(6) (Unit：Bq/kg･dry soil)

Sampling spot		【Fixed point①】*1 Playground (west-northwest approx. 500m)*2	【Fixed point②】*1 Forest of wild birds (west approx. 500m)*2	【Fixed point③】*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m)*2
Date of sampling		6/27	6/27	6/27
Analytical body		Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3
Date of analysis		7/4	7/4	7/4
Nuclide	I-131(approx. 8 days)	ND	ND	ND
	I-132(approx. 2 hours)	ND	ND	ND
	Cs-134(approx. 2 years)	5.3E+05	7.1E+03	2.4E+05
	Cs-136(approx. 13 days)	ND	ND	ND
	Cs-137(approx. 30 years)	5.4E+05	7.8E+03	2.5E+05
	Te-129m(approx. 34 days)	ND	ND	6.2E+04
	Te-132(approx. 3 days)	ND	ND	ND
	Ba-140(approx. 13 days)	ND	ND	ND
	Nb-95(approx. 35 days)	ND	ND	ND
	Ru-106(approx. 370 days)	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND
	La-140(approx. 2 days)	ND	ND	ND
	Be-7(approx. 53 days)	ND	ND	ND
	Ag-110m(approx. 250 days)	ND	ND	ND

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap. In regard to fixed point "forest of wind birds", sampling was conducted on the same sampling point but in deeper direction. (In case we are unable to collect samples at the sampling point, the sampling point will be changed.)

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<Results of the soil analysis in Fukushima Prefecture conducted in FY 2009>
Cs-137: ND～21Bq/kg･dry soil, Others: ND

(Unit：Bq/kg・soil)

Sampling spot		【Fixed point①】*1 Playground (west-northwest approx. 500m)*2	【Fixed point②】*1 Forest of wild birds (west approx. 500m)*2	【Fixed point③】*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m)*2
Date of sampling		6/27	6/27	6/27
Analytical body		Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3
Date of analysis		7/4	7/4	7/4
Nuclide	I-131(approx. 8 days)	ND	ND	ND
	I-132(approx. 2 hours)	ND	ND	ND
	Cs-134(approx. 2 years)	5.3E+05	7.1E+03	2.4E+05
	Cs-136(approx. 13 days)	ND	ND	ND
	Cs-137(approx. 30 years)	5.4E+05	7.8E+03	2.5E+05
	Te-129m(approx. 34 days)	ND	ND	6.2E+04
	Te-132(approx. 3 days)	ND	ND	ND
	Ba-140(approx. 13 days)	ND	ND	ND
	Nb-95(approx. 35 days)	ND	ND	ND
	Ru-106(approx. 370 days)	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND
	La-140(approx. 2 days)	ND	ND	ND
	Be-7(approx. 53 days)	ND	ND	ND
	Ag-110m(approx. 250 days)	ND	ND	ND

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap. In regard to fixed point "forest of wind birds", sampling was conducted on the same sampling point but in deeper direction. (In case we are unable to collect samples at the sampling point, the sampling point will be changed.)

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<Results of the soil analysis in Fukushima Prefecture conducted in FY 2009>
Cs-137: ND～21Bq/kg･dry soil, Others: ND

(6) (Unit：Bq/kg･dry soil)

Sampling spot		【Fixed point①】*1 Playground （west-northwest approx. 500m）*2	【Fixed point②】*1 Forest of wild birds （west approx. 500m）*2	【Fixed point③】*1 Adjacent to industrial waste disposal facility （south-southwest approx. 500m）*2
Date of sampling		7/4	7/4	7/4
Analytical body		Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3
Date of analysis		7/8	7/8	7/8
Nuclide	I-131(approx. 8 days)	ND	1.1E+02	ND
	I-132(approx. 2 hours)	ND	ND	ND
	Cs-134(approx. 2 years)	4.2E+05	4.5E+03	1.1E+05
	Cs-136(approx. 13 days)	ND	ND	ND
	Cs-137(approx. 30 years)	4.4E+05	5.1E+03	1.1E+05
	Te-129m(approx. 34 days)	ND	ND	ND
	Te-132(approx. 3 days)	ND	ND	ND
	Ba-140(approx. 13 days)	ND	ND	ND
	Nb-95(approx. 35 days)	ND	ND	ND
	Ru-106(approx. 370 days)	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND
	La-140(approx. 2 days)	ND	ND	ND
	Be-7(approx. 53 days)	ND	ND	ND
	Ag-110m(approx. 250 days)	ND	ND	ND

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap. In regard to fixed point "forest of wind birds", sampling was conducted on the same sampling point but in deeper direction. (In case we are unable to collect samples at the sampling point, the sampling point will be changed.)

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(Appendix 2)

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2. Evaluation:
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<Results of the soil analysis in Fukushima Prefecture conducted in FY 2009>
Cs-137: ND～21Bq/kg･dry soil, Others: ND

(Unit：Bq/kg・soil)

Sampling spot		【Fixed point①】*1 Playground （west-northwest approx. 500m）*2	【Fixed point②】*1 Forest of wild birds （west approx. 500m）*2	【Fixed point③】*1 Adjacent to industrial waste disposal facility （south-southwest approx. 500m）*2
Date of sampling		7/4	7/4	7/4
Analytical body		Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3
Date of analysis		7/8	7/8	7/8
Nuclide	I-131(approx. 8 days)	ND	1.1E+02	ND
	I-132(approx. 2 hours)	ND	ND	ND
	Cs-134(approx. 2 years)	4.2E+05	4.5E+03	1.1E+05
	Cs-136(approx. 13 days)	ND	ND	ND
	Cs-137(approx. 30 years)	4.4E+05	5.1E+03	1.1E+05
	Te-129m(approx. 34 days)	ND	ND	ND
	Te-132(approx. 3 days)	ND	ND	ND
	Ba-140(approx. 13 days)	ND	ND	ND
	Nb-95(approx. 35 days)	ND	ND	ND
	Ru-106(approx. 370 days)	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND
	La-140(approx. 2 days)	ND	ND	ND
	Be-7(approx. 53 days)	ND	ND	ND
	Ag-110m(approx. 250 days)	ND	ND	ND

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap. In regard to fixed point "forest of wind birds", sampling was conducted on the same sampling point but in deeper direction. (In case we are unable to collect samples at the sampling point, the sampling point will be changed.)

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<Results of the soil analysis in Fukushima Prefecture conducted in FY 2009>
Cs-137: ND～21Bq/kg･dry soil, Others: ND

(6)　(Unit：Bq/kg･dry soil)

Sampling spot		【Fixed point①】*1 Playground （west-northwest approx. 500m）*2	【Fixed point②】*1 Forest of wild birds （west approx. 500m）*2	【Fixed point③】*1 Adjacent to industrial waste disposal facility （south-southwest approx. 500m）*2
Date of sampling		7/11	7/11	7/11
Analytical body		Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3
Date of analysis		7/14	7/14	7/14
Nuclide	I-131(approx. 8 days)	ND	ND	ND
	I-132(approx. 2 hours)	ND	ND	ND
	Cs-134(approx. 2 years)	4.0E+05	1.4E+03	2.4E+05
	Cs-136(approx. 13 days)	ND	ND	ND
	Cs-137(approx. 30 years)	4.3E+05	1.4E+03	2.6E+05
	Te-129m(approx. 34 days)	ND	ND	4.0E+04
	Te-132(approx. 3 days)	ND	ND	ND
	Ba-140(approx. 13 days)	ND	ND	ND
	Nb-95(approx. 35 days)	ND	ND	ND
	Ru-106(approx. 370 days)	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND
	La-140(approx. 2 days)	ND	ND	ND
	Be-7(approx. 53 days)	ND	ND	ND
	Ag-110m(approx. 250 days)	1.9E+03	ND	6.4E+03

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap. In regard to fixed point "forest of wind birds", sampling was conducted on the same sampling point but in deeper direction. (In case we are unable to collect samples at the sampling point, the sampling point will be changed.)

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<Results of the soil analysis in Fukushima Prefecture conducted in FY 2009>
Cs-137: ND～21Bq/kg･dry soil, Others: ND

(Unit：Bq/kg・soil)

Sampling spot		【Fixed point①】*1 Playground （west-northwest approx. 500m）*2	【Fixed point②】*1 Forest of wild birds （west approx. 500m）*2	【Fixed point③】*1 Adjacent to industrial waste disposal facility （south-southwest approx. 500m）*2
Date of sampling		7/11	7/11	7/11
Analytical body		Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3
Date of analysis		7/14	7/14	7/14
Nuclide	I-131(approx. 8 days)	ND	ND	ND
	I-132(approx. 2 hours)	ND	ND	ND
	Cs-134(approx. 2 years)	4.0E+05	1.4E+03	2.4E+05
	Cs-136(approx. 13 days)	ND	ND	ND
	Cs-137(approx. 30 years)	4.3E+05	1.4E+03	2.6E+05
	Te-129m(approx. 34 days)	ND	ND	4.0E+04
	Te-132(approx. 3 days)	ND	ND	ND
	Ba-140(approx. 13 days)	ND	ND	ND
	Nb-95(approx. 35 days)	ND	ND	ND
	Ru-106(approx. 370 days)	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND
	La-140(approx. 2 days)	ND	ND	ND
	Be-7(approx. 53 days)	ND	ND	ND
	Ag-110m(approx. 250 days)	1.9E+03	ND	6.4E+03

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap. In regard to fixed point "forest of wind birds", sampling was conducted on the same sampling point but in deeper direction. (In case we are unable to collect samples at the sampling point, the sampling point will be changed.)

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Sampling spot		【Fixed point①】*1 Playground (west-northwest approx. 500m)*2	【Fixed point②】*1 Forest of wild birds (west approx. 500m)*2	【Fixed point③】*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m)*2
Date of sampling		7/18	7/18	7/18
Analytical body		Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3
Date of analysis		7/21	7/21	7/21
Nuclide	I-131(approx. 8 days)	ND	ND	ND
	I-132(approx. 2 hours)	ND	ND	ND
	Cs-134(approx. 2 years)	6.7E+05	2.0E+02	2.3E+05
	Cs-136(approx. 13 days)	ND	ND	ND
	Cs-137(approx. 30 years)	7.1E+05	2.8E+02	2.4E+05
	Sb-125(approx. 3 years)	1.3E+04	ND	ND
	Te-129m(approx. 34 days)	4.8E+05	ND	ND
	Te-132(approx. 3 days)	ND	ND	ND
	Ba-140(approx. 13 days)	ND	ND	ND
	Nb-95(approx. 35 days)	ND	ND	ND
	Ru-106(approx. 370 days)	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND
	La-140(approx. 2 days)	ND	ND	ND
	Be-7(approx. 53 days)	ND	ND	ND
	Ag-110m(approx. 250 days)	3.3E+03	ND	ND

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap. In regard to fixed point "forest of wind birds", sampling was conducted on the same sampling point but in deeper direction. (In case we are unable to collect samples at the sampling point, the sampling point will be changed.)

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Sampling spot		【Fixed point①】*1 Playground (west-northwest approx. 500m)*2	【Fixed point②】*1 Forest of wild birds (west approx. 500m)*2	【Fixed point③】*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m)*2
Date of sampling		7/18	7/18	7/18
Analytical body		Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3
Date of analysis		7/21	7/21	7/21
Nuclide	I-131(approx. 8 days)	ND	ND	ND
	I-132(approx. 2 hours)	ND	ND	ND
	Cs-134(approx. 2 years)	6.7E+05	2.0E+02	2.3E+05
	Cs-136(approx. 13 days)	ND	ND	ND
	Cs-137(approx. 30 years)	7.1E+05	2.8E+02	2.4E+05
	Sb-125(approx. 3 years)	1.3E+04	ND	ND
	Te-129m(approx. 34 days)	4.8E+05	ND	ND
	Te-132(approx. 3 days)	ND	ND	ND
	Ba-140(approx. 13 days)	ND	ND	ND
	Nb-95(approx. 35 days)	ND	ND	ND
	Ru-106(approx. 370 days)	ND	ND	ND
	Mo-99(approx. 66 hours)	ND	ND	ND
	Tc-99m(approx. 6 hours)	ND	ND	ND
	La-140(approx. 2 days)	ND	ND	ND
	Be-7(approx. 53 days)	ND	ND	ND
	Ag-110m(approx. 250 days)	3.3E+03	ND	ND

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap. In regard to fixed point "forest of wind birds", sampling was conducted on the same sampling point but in deeper direction. (In case we are unable to collect samples at the sampling point, the sampling point will be changed.)

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