

Results of Radioactive Material Monitoring of Groundwater (Report No. 10)

Friday, February 15, 2013
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In accordance with the Comprehensive Monitoring Plan determined by the Monitoring Coordination Meeting of the national government, the Ministry of the Environment (MOE) is continuing to monitor radioactive materials in groundwater.

The analysis results of the measurement of activity concentrations in groundwater samples collected in Iwate, Miyagi, Fukushima, Ibaraki, Tochigi, Gunma, and Chiba Prefectures are released here as Report No. 10 (for samples collected in Iwate from November 27 to 30, in Miyagi from December 3 to 5, in Fukushima from November 26 to December 4, in Ibaraki from November 27 to 30, in Tochigi from November 30 to December 5, in Gunma from November 26 to 29, and in Chiba from December 3 to 6).

○ Outline of Results

Measurement of I-131, Cs-134, and Cs-137 was conducted at all predetermined locations (287 locations). In Fukushima Prefecture, measurement of Sr-89 and Sr-90 was also conducted at 19 locations. (Detection limit for all these measurements: 1 Bq/L)

(1) Iwate Prefecture

I-131, Cs-134, and Cs-137 were not detectable at any of the 22 locations surveyed. (See Annex 1 for details.)

(2) Miyagi Prefecture

I-131, Cs-134, and Cs-137 were not detectable at any of the 22 locations surveyed. (See Annex 2 for details.)

(3) Fukushima Prefecture

I-131, Cs-134, and Cs-137, as well as Sr-89 and Sr-90, were not detectable at any of the 146 locations surveyed. (See Annex 3 for details.)

(4) Ibaraki Prefecture

I-131, Cs-134, and Cs-137 were not detectable at any of the 27 locations surveyed. (See Annex

4 for details.)

(5) Tochigi Prefecture

I-131, Cs-134, and Cs-137 were not detectable at any of the 27 locations surveyed. (See Annex 5 for details.)

(6) Gunma Prefecture

I-131, Cs-134, and Cs-137 were not detectable at any of the 20 locations surveyed. (See Annex 6 for details.)

(7) Chiba Prefecture

I-131, Cs-134, and Cs-137 were not detectable at any of the 23 locations surveyed. (See Annex 7 for details.)

* Specification and Standards for Food, Food Additives, etc. in Accordance with the Food Sanitation Act (Drinking Water) (Ministry of Health, Labour and Welfare Public Notice No.130, March 15, 2012)

Radioactive cesium (total for Cs-134+Cs-137): 10 Bq/kg

* Reference Values for Radioactive Materials in Tap Water (Management Target for Water Supply Facilities) (March 5, 2012; 0305 Notice No.1 from the Director of the Water Supply Division, Health Service Bureau, Ministry of Health, Labour and Welfare)

Radioactive cesium (total for Cs-134+Cs-137): 10 Bq/kg

○ Future Plans

In and around Fukushima Prefecture, MOE intends to continue to monitor activity concentrations in groundwater, in coordination with the prefectural government, municipalities, and other relevant organizations.

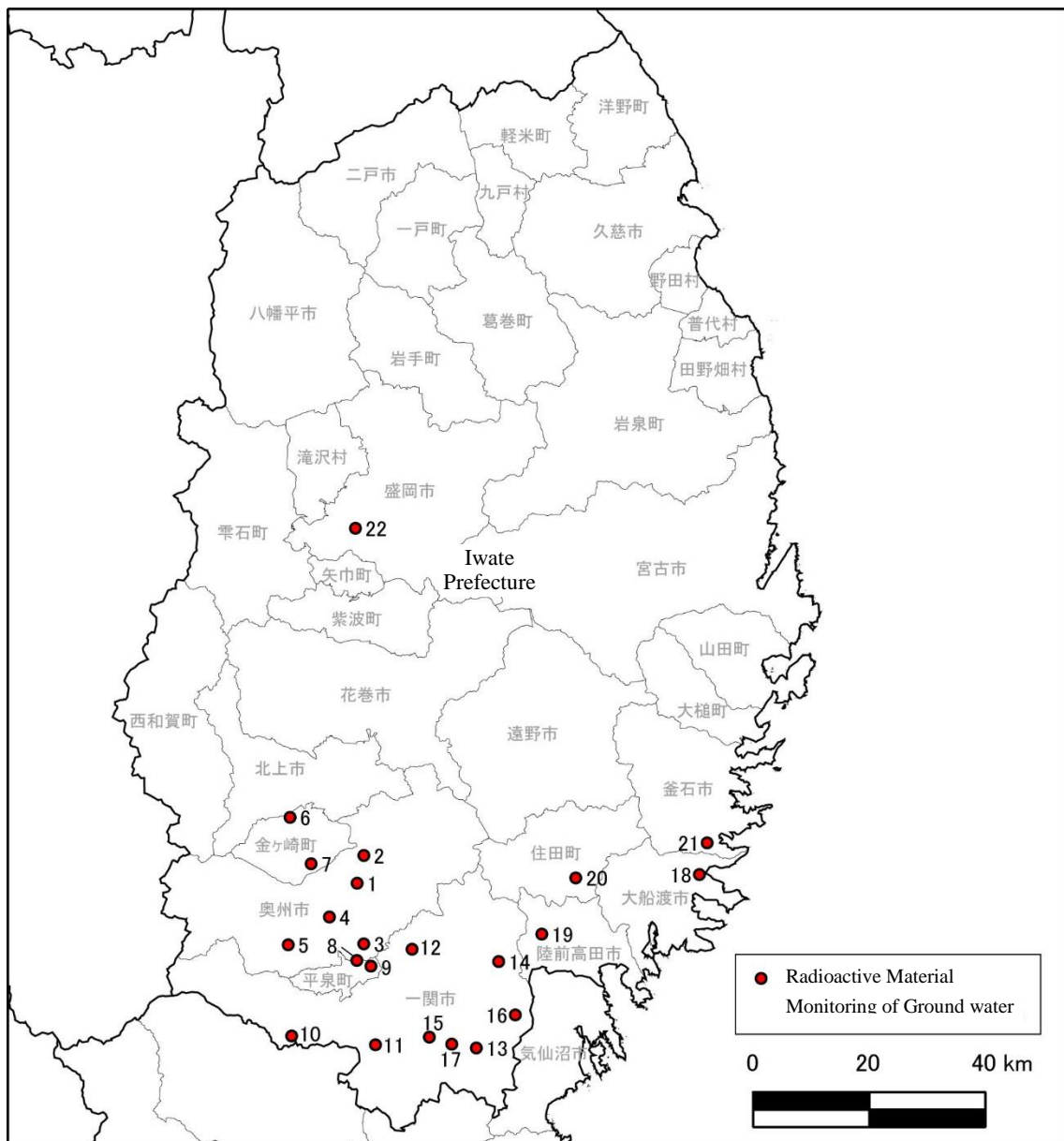
Results of Groundwater Monitoring [Iwate Prefecture]

(Annex 1)

No.	District	Sampling Date	Activity concentration (Bq/L)			Remarks
			I-131	Cs		
				Cs-134	Cs-137	
1	Oshu City Mizusawa Ward Higashiuwano Town	2012/11/28	ND	ND	ND	
2	Oshu City Esashi Ward Odaki	2012/11/28	ND	ND	ND	
3	Oshu City Maesawa Ward Seibo	2012/11/28	ND	ND	ND	
4	Oshu City Isawa Ward Oyama	2012/11/28	ND	ND	ND	
5	Oshu City Koromogawa Ward Shimoomori	2012/11/28	ND	ND	ND	
6	Kanegasaki Town Nishine	2012/11/27	ND	ND	ND	
7	Kanegasaki Town Nagasawa	2012/11/27	ND	ND	ND	
8	Hiraizumi Town Nagashima	2012/11/29	ND	ND	ND	
9	Hiraizumi Town Nagashima	2012/11/29	ND	ND	ND	
10	Ichinoseki City Hagisho	2012/11/29	ND	ND	ND	
11	Ichinoseki City Hanaizumi Town Kazawa	2012/11/29	ND	ND	ND	
12	Ichinoseki City Higashiyama Town Takouzu	2012/11/29	ND	ND	ND	
13	Ichinoseki City Senmaya Town Konashi	2012/11/29	ND	ND	ND	
14	Ichinoseki City Daito Town Ohara	2012/11/29	ND	ND	ND	
15	Ichinoseki City Kawasaki Town Usuginu	2012/11/29	ND	ND	ND	
16	Ichinoseki City Nemuro Town Orikabe	2012/11/29	ND	ND	ND	
17	Ichinoseki City Fujisawa Town Masuzawa	2012/11/29	ND	ND	ND	
18	Ofunato City Sanriku Town	2012/11/30	ND	ND	ND	
19	Rikuzentakata City Yahagi Town	2012/11/30	ND	ND	ND	
20	Sumita Town Setamai	2012/11/30	ND	ND	ND	
21	Kamaishi City Toni Town	2012/11/30	ND	ND	ND	
22	Morioka City Mukainakano	2012/11/27	ND	ND	ND	

Note) Measurement results are indicated as ND when detected values were below the detection limit of activity concentrations (1 Bq/L).

(Map attached)



No.	District	No.	District	No.	District
1	Oshu City Mizusawa Ward Higashiuwano Town	9	Hirazumi Town Nagashima	17	Ichinoseki City Fujisawa Town Masuzawa
2	Oshu City Esashi Ward Odaki	10	Ichinoseki City Hagisho	18	Ofunato City Sanriku Town
3	Oshu City Maesawa Ward Seibo	11	Ichinoseki City Hanaizumi Town Kazawa	19	Rikuzentakata City Yahagi Town
4	Oshu City Isawa Ward Oyama	12	Ichinoseki City Higashiyama Town Takouzu	20	Sumita Town Setamai
5	Oshu City Koromogawa Ward Shimomori	13	Ichinoseki City Senmaya Town Konashi	21	Kamaishi City Toni Town
6	Kanegasaki Town Nishine	14	Ichinoseki City Daito Town Ohara	22	Morioka City Mukainakano
7	Kanegasaki Town Nagasawa	15	Ichinoseki City Kawasaki Town Usuginu		
8	Hirazumi Town Nagashima	16	Ichinoseki City Nemuro Town Oriabe		

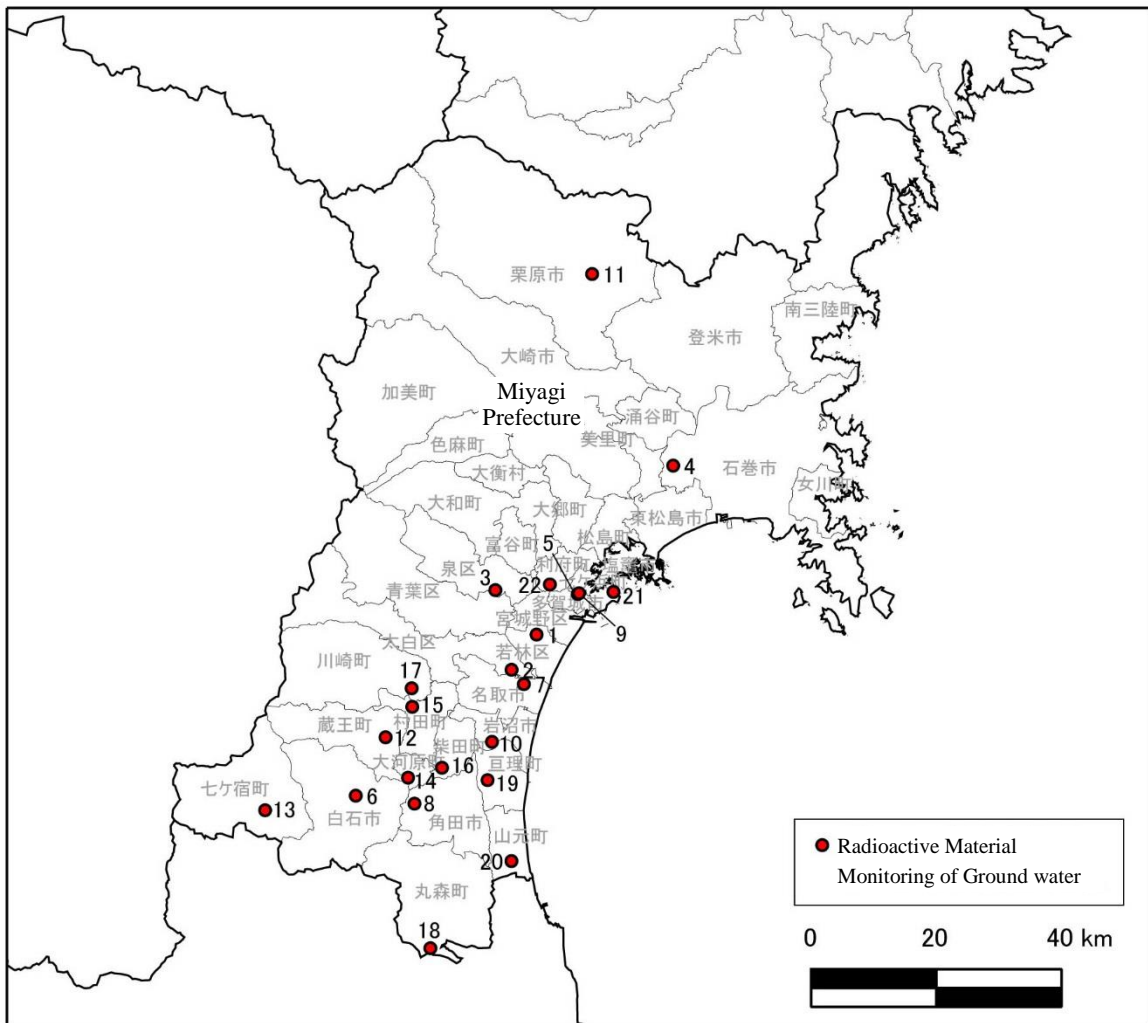
Results of Groundwater Monitoring [Miyagi Prefecture]

(Annex 2)

No.	District	Sampling Date	Activity concentration (Bq/L)			Remarks
			I-131	Cs		
				Cs-134	Cs-137	
1	Sendai City Wakabayashi Ward	2012/12/3	ND	ND	ND	
2	Sendai City Taihaku Ward	2012/12/3	ND	ND	ND	
3	Sendai City Izumi Ward	2012/12/3	ND	ND	ND	
4	Ishinomaki City Kitamura	2012/12/3	ND	ND	ND	
5	Shiogama City Minaminishiki Town	2012/12/4	ND	ND	ND	
6	Shiroishi City Fukuokanagabukuro	2012/12/5	ND	ND	ND	
7	Natori City Omagari	2012/12/4	ND	ND	ND	
8	Kakuda City Takakura	2012/12/5	ND	ND	ND	
9	Tagajo City Geba	2012/12/4	ND	ND	ND	
10	Iwanu City Fukiage	2012/12/4	ND	ND	ND	
11	Kurihara City Tsukidate	2012/12/3	ND	ND	ND	
12	Zao Town Enda	2012/12/5	ND	ND	ND	
13	Shichikashuku-machi Aza Seki	2012/12/5	ND	ND	ND	
14	Ogawara Town Kanagase	2012/12/5	ND	ND	ND	
15	Tamura Town Ashitate	2012/12/5	ND	ND	ND	
16	Shibata Town Funaokachuo	2012/12/5	ND	ND	ND	
17	Kawasaki Town Hasekura	2012/12/5	ND	ND	ND	
18	Marumori Town Hippo	2012/12/5	ND	ND	ND	
19	Watari Town Iwaida	2012/12/4	ND	ND	ND	
20	Yamamoto Town Sakamoto	2012/12/4	ND	ND	ND	
21	Shichigahama Town Yoshidahama	2012/12/4	ND	ND	ND	
22	Rifu Town Sugaya	2012/12/4	ND	ND	ND	

Note) Measurement results are indicated as ND when detected values were below the detection limit of activity concentrations (1 Bq/L).

(Map attached)



No.	District	No.	District	No.	District
1	Sendai City Wakabayashi Ward	9	Tagajo City Geba	17	Kawasaki Town Hasekura
2	Sendai City Taihaku Ward	10	Iwanu City Fukiage	18	Marumori Town Hippo
3	Sendai City Izumi Ward	11	Kurihara City Tsukidate	19	Watari Town Iwaida
4	Ishinomaki City Kitamura	12	Zao Town Enda	20	Yamamoto Town Sakamoto
5	Shiogama City Minaminishiki Town	13	Shichikashuku-machi Aza Seki	21	Shichigahama Town Yoshidahama
6	Shiroishi City Fukuokanagabukuro	14	Ogawara Town Kanagase	22	Rifu Town Sugaya
7	Natori City Omagari	15	Tamura Town Ashitate		
8	Kakuda City Takakura	16	Shibata Town Funaokachuo		

Results of Groundwater Monitoring [Fukushima Prefecture]

(Annex 3 - 1/4)

No.	District	Sampling Date	Activity concentration (Bq/L)					Remarks
			I-131	Cs		Sr		
				Cs-134	Cs-137	Sr-89	Sr-90	
1	Nihonmatsu City Satsuki Town	2012/12/3	ND	ND	ND	—	—	
2	Nihonmatsu City Shimokawasaki	2012/12/3	ND	ND	ND	—	—	
3	Nihonmatsu City Kamikawasaki	2012/12/3	ND	ND	ND	—	—	
4	Nihonmatsu City Narita	2012/12/3	ND	ND	ND	—	—	
5	Motomiya City Niita	2012/12/3	ND	ND	ND	—	—	
6	Motomiya City Inazawa	2012/12/3	ND	ND	ND	—	—	
7	Kawamata Town Yamakiya	2012/11/28	ND	ND	ND	—	—	Deliberate Evacuation Areas
8	Kawamata Town Yamakiya	2012/11/28	ND	ND	ND	—	—	Deliberate Evacuation Areas
9	Kawamata Town Kotsunagi	2012/11/28	ND	ND	ND	—	—	
10	Kawamata Town Kotsunagi	2012/11/28	ND	ND	ND	—	—	
11	Kawamata Town Kotsunagi	2012/11/28	ND	ND	ND	—	—	
12	Kawamata Town Kotsunagi	2012/11/28	ND	ND	ND	—	—	
13	Kawamata Town Kotsunagi	2012/11/28	ND	ND	ND	—	—	
14	Otama Village Oyama	2012/12/3	ND	ND	ND	—	—	
15	Tamura City Takine Town Kanmata	2012/11/30	ND	ND	ND	—	—	
16	Tamura City Takine Town Hirose	2012/11/30	ND	ND	ND	—	—	
17	Tamura City Ogoe Town Magino	2012/11/30	ND	ND	ND	—	—	
18	Tamura City Ogoe Town Shimo-ogoe	2012/11/30	ND	ND	ND	—	—	
19	Tamura City Miyakojii Town Iwaizawa	2012/11/29	ND	ND	ND	—	—	
20	Tamura City Miyakojii Town Iwaizawa	2012/11/29	ND	ND	ND	ND	ND	
21	Tamura City Miyakoji Town Furumichi	2012/11/29	ND	ND	ND	ND	ND	Areas being prepared for removal of evacuation orders
22	Tamura City Miyakoji Town Furumichi	2012/11/29	ND	ND	ND	ND	ND	
23	Tamura City Tokiwa Town	2012/11/29	ND	ND	ND	—	—	
24	Tamura City Funehiki Town Okura	2012/11/29	ND	ND	ND	—	—	
25	Tamura City Funehiki Town Nakayama	2012/11/29	ND	ND	ND	ND	ND	
26	Tamura City Funehiki Town Funehiki	2012/11/29	ND	ND	ND	—	—	
27	Koriyama City Nakata Town Nakatsugawa	2012/12/4	ND	ND	ND	—	—	
28	Koriyama City Tamura Town Tamogami	2012/12/4	ND	ND	ND	—	—	
29	Koriyama City Hiwada Town Hiwada	2012/12/1	ND	ND	ND	ND	ND	
30	Koriyama City Nishita Town Oniuta	2012/12/4	ND	ND	ND	ND	ND	
31	Koriyama City Sakuta	2012/12/1	ND	ND	ND	ND	ND	
32	Koriyama City Tamura Town Moriyama	2012/12/4	ND	ND	ND	ND	ND	
33	Koriyama City Atami Town Ishimushiro	2012/12/1	ND	ND	ND	ND	ND	
34	Koriyama City Fukuyama Town Fukuhara	2012/12/4	ND	ND	ND	—	—	
35	Koriyama City Kikuta Town Maetazawa	2012/12/1	ND	ND	ND	—	—	
36	Koriyama City Katahira Town	2012/12/1	ND	ND	ND	—	—	
37	Koriyama City Asaka Town Narita	2012/12/4	ND	ND	ND	—	—	
38	Koriyama City Otsuki Town	2012/12/1	ND	ND	ND	—	—	
39	Koriyama City Konan Town Hamaji	2012/12/1	ND	ND	ND	ND	ND	
40	Koriyama City Ose Town Tadano	2012/12/1	ND	ND	ND	ND	ND	

Note) Measurement results are indicated as ND when detected values were below the detection limit of activity concentrations (1 Bq/L).

(Map attached)

Results of Groundwater Monitoring [Fukushima Prefecture]

(Annex 3 - 2/4)

No.	District	Sampling Date	Activity concentration (Bq/L)					Remarks
			I-131	Cs		Sr		
				Cs-134	Cs-137	Sr-89	Sr-90	
41	Koriyama City Mihota Town Shimomoriya	2012/12/4	ND	ND	ND	ND	ND	
42	Koriyama City Konan Town Fukura	2012/12/1	ND	ND	ND	—	—	
43	Sukagawa City Namegawa	2012/11/30	ND	ND	ND	—	—	
44	Sukagawa City Iwabuchi	2012/11/30	ND	ND	ND	—	—	
45	Sukagawa City Ogura	2012/12/1	ND	ND	ND	—	—	
46	Sukagawa City Tategaoka	2012/11/30	ND	ND	ND	—	—	
47	Sukagawa City Hokotuski	2012/11/30	ND	ND	ND	—	—	
48	Sukagawa City Konaka	2012/11/30	ND	ND	ND	—	—	
49	Sukagawa City Hatada	2012/11/30	ND	ND	ND	—	—	
50	Tamakawa Village Yottsujishinden	2012/12/1	ND	ND	ND	—	—	
51	Hirarta Village Nagata	2012/12/1	ND	ND	ND	—	—	
52	Hirarta Village Tonoko	2012/12/1	ND	ND	ND	—	—	
53	Asakawa Town Shiraiishi	2012/12/1	ND	ND	ND	—	—	
54	Furudono Town Takanuki	2012/12/1	ND	ND	ND	—	—	
55	Furudono Town Yamakami	2012/12/1	ND	ND	ND	—	—	
56	Miharu Town Serigasawa	2012/11/30	ND	ND	ND	—	—	
57	Miharu Town Shimomogi	2012/11/30	ND	ND	ND	—	—	
58	Ono Town Ukigane	2012/11/30	ND	ND	ND	—	—	
59	Ono Town Ononii Town	2012/11/30	ND	ND	ND	—	—	
60	Shirakawa City Aizu Town	2012/11/29	ND	ND	ND	—	—	
61	Shirakawa City Omotegonaimatsu	2012/11/29	ND	ND	ND	—	—	
62	Shirakawa City Higashi-Shimonodejima	2012/11/29	ND	ND	ND	—	—	
63	Shirakawa City Taishinshimokoya	2012/11/30	ND	ND	ND	—	—	
64	Shirakawa City Taishin Shimoshinjo	2012/11/30	ND	ND	ND	—	—	
65	Nishigo Village Tsuruyu	2012/11/30	ND	ND	ND	—	—	
66	Nishigou Village Habuto	2012/11/30	ND	ND	ND	—	—	
67	Tanagura Town Nakayamamoto	2012/11/29	ND	ND	ND	—	—	
68	Yamatsuri Town Houzaka	2012/11/29	ND	ND	ND	—	—	
69	Hanawa Town Kawakami	2012/11/29	ND	ND	ND	—	—	
70	Samegawa Village Akasaka Higashino	2012/11/29	ND	ND	ND	—	—	
71	Inawashiro Town Yamagata	2012/12/1	ND	ND	ND	—	—	
72	Minamisoma City Kashima Ward Jisabara	2012/11/26	ND	ND	ND	—	—	
73	Minamisoma City Kashima Ward Kamitochikubo	2012/11/26	ND	ND	ND	—	—	
74	Minamisoma City Haramachi Ward Okido	2012/11/28	ND	ND	ND	—	—	
75	Minamisoma City Haramachi Ward Okido	2012/11/28	ND	ND	ND	—	—	
76	Minamisoma City Haramachi Ward Ishigami	2012/11/28	ND	ND	ND	—	—	
77	Minamisoma City Haramachi Ward Shidazawa	2012/11/28	ND	ND	ND	—	—	
78	Minamisoma City Haramachi Ward Fukono	2012/11/28	ND	ND	ND	—	—	
79	Minamisoma City Haramachi Ward Ota	2012/11/28	ND	ND	ND	—	—	
80	Minamisoma City Odaka Ward Otomi	2012/11/28	ND	ND	ND	ND	ND	Areas being prepared for removal of evacuation orders

Note) Measurement results are indicated as ND when detected values were below the detection limit of activity concentrations (1 Bq/L).

(Map attached)

Results of Groundwater Monitoring [Fukushima Prefecture]

(Annex 3 - 3/4)

No.	District	Sampling Date	Activity concentration (Bq/L)					Remarks
			I-131	Cs		Sr		
				Cs-134	Cs-137	Sr-89	Sr-90	
81	Minamisoma City Odaka Ward Koyagi	2012/11/28	ND	ND	ND	—	—	Areas being prepared for removal of evacuation orders
82	Hirono Town Shimokitaba	2012/11/28	ND	ND	ND	—	—	
83	Hirono Town Kamiasamigawa	2012/11/28	ND	ND	ND	—	—	
84	Hirono Town Oriki	2012/11/28	ND	ND	ND	—	—	
85	Hirono Town Oriki	2012/11/28	ND	ND	ND	—	—	
86	Hirono Town Kamikitaba	2012/11/28	ND	ND	ND	—	—	
87	Naraha Town Oya	2012/11/29	ND	ND	ND	—	—	Areas being prepared for removal of evacuation orders
88	Naraha Town Kamikobana	2012/11/29	ND	ND	ND	—	—	Areas being prepared for removal of evacuation orders
89	Naraha Town Kamikobana	2012/11/29	ND	ND	ND	—	—	Areas being prepared for removal of evacuation orders
90	Naraha Town Yamadaoka	2012/11/29	ND	ND	ND	—	—	Areas being prepared for removal of evacuation orders
91	Naraha Town Shimokobana	2012/11/29	ND	ND	ND	—	—	Areas being prepared for removal of evacuation orders
92	Naraha Town Kamishigeoka	2012/11/29	ND	ND	ND	ND	ND	Areas being prepared for removal of evacuation orders
93	Naraha Town Kamikobana	2012/11/29	ND	ND	ND	—	—	Areas being prepared for removal of evacuation orders
94	Naraha Town Oya	2012/11/29	ND	ND	ND	—	—	Areas being prepared for removal of evacuation orders
95	Tomioka Town Motooka	2012/11/30	ND	ND	ND	ND	ND	Restricted Areas
96	Tomioka Town Motooka	2012/11/30	ND	ND	ND	—	—	Restricted Areas
97	Tomioka Town Motooka	2012/11/30	ND	ND	ND	—	—	Restricted Areas
98	Kawauchi Village Shimokawauchi	2012/11/27	ND	ND	ND	—	—	Areas being prepared for removal of evacuation orders
99	Kawauchi Village Shimokawauchi	2012/11/27	ND	ND	ND	—	—	
100	Kawauchi Village Kamikawauchi	2012/11/27	ND	ND	ND	—	—	
101	Kawauchi Village Kamikawauchi	2012/11/27	ND	ND	ND	—	—	
102	Okuma Town Kuma	2012/12/3	ND	ND	ND	ND	ND	Restricted Areas
103	Okuma Town Nogami	2012/12/3	ND	ND	ND	—	—	Restricted Areas
104	Okuma Town Kuma	2012/12/3	ND	ND	ND	ND	ND	Restricted Areas
105	Okuma Town Ogawara	2012/12/3	ND	ND	ND	—	—	Restricted Areas
106	Futaba Town Mizusawa	2012/11/30	ND	ND	ND	—	—	Restricted Areas
107	Futaba Town Shibukawa	2012/11/30	ND	ND	ND	—	—	Restricted Areas
108	Namie Town Onoda	2012/11/27	ND	ND	ND	—	—	Restricted Areas
109	Namie Town Murohara	2012/11/27	ND	ND	ND	—	—	Restricted Areas
110	Namie Town Yatsuda	2012/11/27	ND	ND	ND	ND	ND	Restricted Areas
111	Namie Town Obori	2012/11/27	ND	ND	ND	—	—	Restricted Areas
112	Katsurao Village Ochiai	2012/11/27	ND	ND	ND	—	—	Deliberate Evacuation Areas
113	Katsurao Village Ochiai	2012/11/27	ND	ND	ND	—	—	Deliberate Evacuation Areas
114	Katsurao Village Ochiai	2012/11/27	ND	ND	ND	—	—	Deliberate Evacuation Areas
115	Katsurao Village Nogawa	2012/11/27	ND	ND	ND	—	—	Deliberate Evacuation Areas
116	Katsurao Village Katsurao	2012/11/27	ND	ND	ND	—	—	Deliberate Evacuation Areas
117	Katsurao Village Katsurao	2012/11/27	ND	ND	ND	ND	ND	Restricted Areas
118	Katsurao Village Katsurao	2012/11/27	ND	ND	ND	—	—	Deliberate Evacuation Areas
119	Katsurao Village Ochiai	2012/11/26	ND	ND	ND	—	—	Deliberate Evacuation Areas
120	Katsurao Village Katsurao	2012/11/26	ND	ND	ND	—	—	Deliberate Evacuation Areas

Note) Measurement results are indicated as ND when detected values were below the detection limit of activity concentrations (1 Bq/L).

(Map attached)

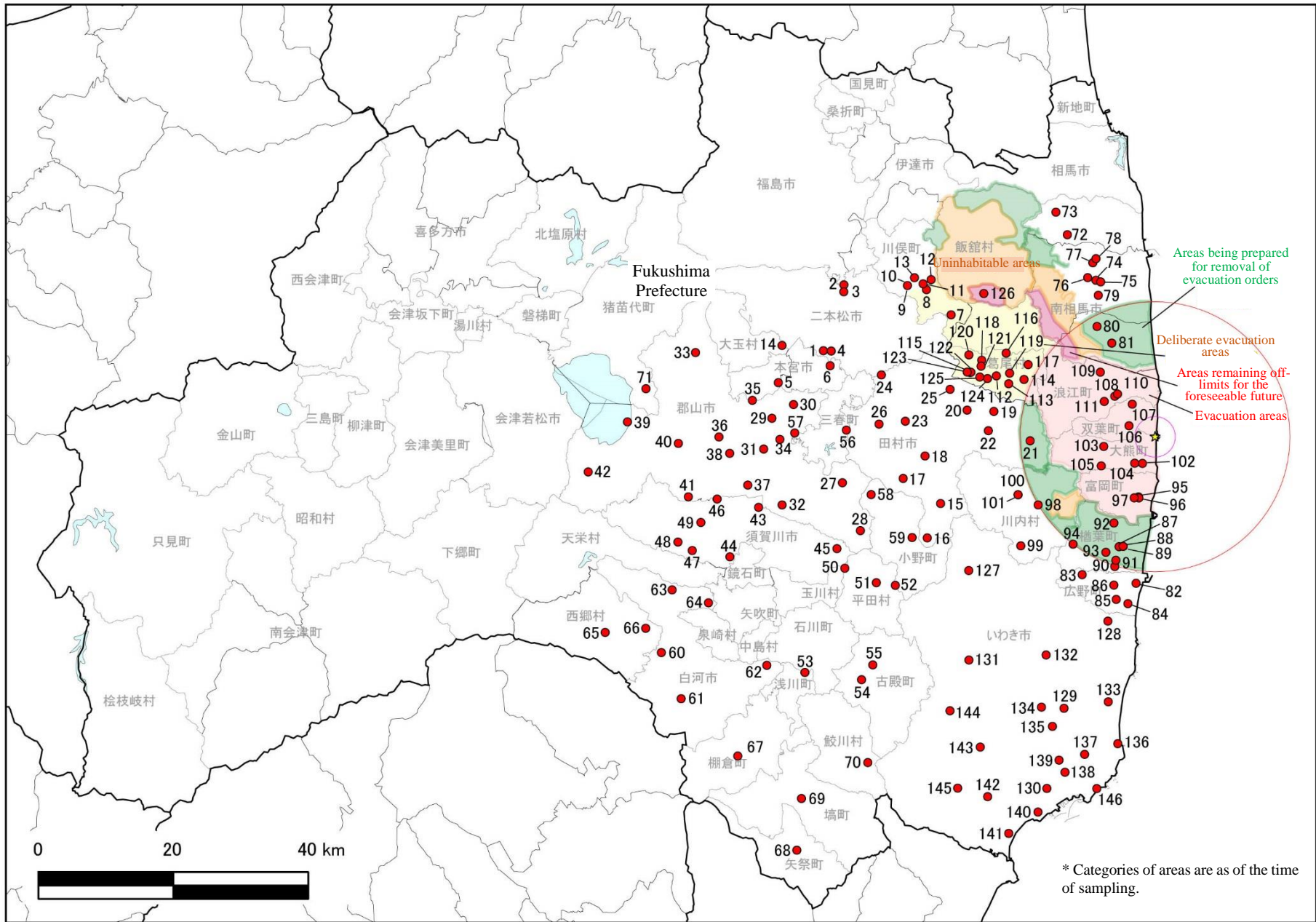
Results of Groundwater Monitoring [Fukushima Prefecture]

(Annex 3 - 4/4)

No.	District	Sampling Date	Activity concentration (Bq/L)				Remarks	
			I-131	Cs		Sr		
				Cs-134	Cs-137	Sr-89		Sr-90
121	Katsurao Village Katsurao	2012/11/26	ND	ND	ND	—	—	Deliberate Evacuation Areas
122	Katsurao Village Nogawa	2012/11/26	ND	ND	ND	—	—	Deliberate Evacuation Areas
123	Katsurao Village Nogawa	2012/11/26	ND	ND	ND	—	—	Deliberate Evacuation Areas
124	Katsurao Village Nogawa	2012/11/26	ND	ND	ND	—	—	Deliberate Evacuation Areas
125	Katsurao Village Nogawa	2012/11/26	ND	ND	ND	—	—	Deliberate Evacuation Areas
126	Iitate Village Nagadoro	2012/11/26	ND	ND	ND	—	—	Areas being prepared for removal of evacuation orders
127	Iwaki City Kawamae Town	2012/11/27	ND	ND	ND	—	—	
128	Iwaki City Ohisa Town Ohisa	2012/11/28	ND	ND	ND	—	—	
129	Iwaki City Taira	2012/11/28	ND	ND	ND	—	—	
130	Iwaki City Izumi Town	2012/11/26	ND	ND	ND	—	—	
131	Iwaki City Miwa Town	2012/11/27	ND	ND	ND	—	—	
132	Iwaki City Ogawa Town	2012/11/27	ND	ND	ND	—	—	
133	Iwaki City Tairashimokabeya	2012/11/28	ND	ND	ND	—	—	
134	Iwaki City Yoshima Town	2012/11/27	ND	ND	ND	—	—	
135	Iwaki City Uchigotsuzura Town	2012/11/27	ND	ND	ND	—	—	
136	Iwaki City Tairanumanouchi	2012/11/27	ND	ND	ND	—	—	
137	Iwaki City Kashima Town	2012/11/27	ND	ND	ND	—	—	
138	Iwaki City Onahama	2012/11/26	ND	ND	ND	—	—	
139	Iwaki City Joban	2012/11/26	ND	ND	ND	—	—	
140	Iwaki City Obama Town	2012/11/26	ND	ND	ND	—	—	
141	Iwaki City Nishiki Town	2012/11/26	ND	ND	ND	—	—	
142	Iwaki City Yamada Town	2012/11/26	ND	ND	ND	—	—	
143	Iwaki City Tono Town Katono	2012/11/26	ND	ND	ND	—	—	
144	Iwaki City Iritono	2012/11/26	ND	ND	ND	—	—	
145	Iwaki City Tabito Town	2012/11/26	ND	ND	ND	—	—	
146	Iwaki City Nagasaki	2012/11/27	ND	ND	ND	—	—	

Note) Measurement results are indicated as ND when detected values were below the detection limit of activity concentrations (1 Bq/L).

(Map attached)



No.	District	No.	District	No.	District	No.	District
1	Nihonmatsu City Satsuki Town	41	Koriyama City Mihota Town Shimomoriya	81	Minamisoma City Odaka Ward Koyagi	121	Katsurao Village Katsurao
2	Nihonmatsu City Shimokawasaki	42	Koriyama City Konan Town Fukura	82	Hirono Town Shimokitaba	122	Katsurao Village Nogawa
3	Nihonmatsu City Kamikawasaki	43	Sukagawa City Namegawa	83	Hirono Town Kamiasamigawa	123	Katsurao Village Nogawa
4	Nihonmatsu City Narita	44	Sukagawa City Iwabuchi	84	Hirono Town Oriki	124	Katsurao Village Nogawa
5	Motomiya City Niita	45	Sukagawa City Ogura	85	Hirono Town Oriki	125	Katsurao Village Nogawa
6	Motomiya City Inazawa	46	Sukagawa City Tategaoka	86	Hirono Town Kamikitaba	126	Iitate Village Nagadoro
7	Kawamata Town Yamakiya	47	Sukagawa City Hokotuski	87	Naraha Town Oya	127	Iwaki City Kawamae Town
8	Kawamata Town Yamakiya	48	Sukagawa City Konaka	88	Naraha Town Kamikobana	128	Iwaki City Ohisa Town Ohisa
9	Kawamata Town Kotsunagi	49	Sukagawa City Hatada	89	Naraha Town Kamikobana	129	Iwaki City Taira
10	Kawamata Town Kotsunagi	50	Tamakawa Village Yottsujishinden	90	Naraha Town Yamadaoka	130	Iwaki City Izumi Town
11	Kawamata Town Kotsunagi	51	Hirarta Village Nagata	91	Naraha Town Shimokobana	131	Iwaki City Miwa Town
12	Kawamata Town Kotsunagi	52	Hirarta Village Tonoko	92	Naraha Town Kamishigeoka	132	Iwaki City Ogawa Town
13	Kawamata Town Kotsunagi	53	Asakawa Town Shiraishi	93	Naraha Town Kamikobana	133	Iwaki City Tairashimokabeya
14	Otama Village Oyama	54	Furudono Town Takanuki	94	Naraha Town Oya	134	Iwaki City Yoshima Town
15	Tamura City Takine Town Kanmata	55	Furudono Town Yamakami	95	Tomioka Town Motooka	135	Iwaki City Uchigotsuzura Town
16	Tamura City Takine Town Hirose	56	Miharu Town Serigasawa	96	Tomioka Town Motooka	136	Iwaki City Tairanumanouchi
17	Tamura City Ogoe Town Magino	57	Miharu Town Shimomogi	97	Tomioka Town Motooka	137	Iwaki City Kashima Town
18	Tamura City Ogoe Town Shimo-ogoe	58	Ono Town Ukigane	98	Kawauchi Village Shimokawauchi	138	Iwaki City Onahama
19	Tamura City Miyakojii Town Iwaizawa	59	Ono Town Ononii Town	99	Kawauchi Village Shimokawauchi	139	Iwaki City Joban
20	Tamura City Miyakojii Town Iwaizawa	60	Shirakawa City Aizu Town	100	Kawauchi Village Kamikawauchi	140	Iwaki City Obama Town
21	Tamura City Miyakoji Town Furumichi	61	Shirakawa City Omotegonaimatsu	101	Kawauchi Village Kamikawauchi	141	Iwaki City Nishiki Town
22	Tamura City Miyakoji Town Furumichi	62	Shirakawa City Higashi-Shimonodejima	102	Okuma Town Kuma	142	Iwaki City Yamada Town
23	Tamura City Tokiwa Town	63	Shirakawa City Taishinshimokoya	103	Okuma Town Nogami	143	Iwaki City Tono Town Katono
24	Tamura City Funehiki Town Okura	64	Shirakawa City Taishin Shimoshinjo	104	Okuma Town Kuma	144	Iwaki City Iritono
25	Tamura City Funehiki Town Nakayama	65	Nishigo Village Tsuruyu	105	Okuma Town Ogawara	145	Iwaki City Tabito Town
26	Tamura City Funehiki Town Funehiki	66	Nishigou Village Habuto	106	Futaba Town Mizusawa	146	Iwaki City Nagasaki
27	Koriyama City Nakata Town Nakatsugawa	67	Tanagura Town Nakayamamoto	107	Futaba Town Shibukawa		
28	Koriyama City Tamura Town Tamogami	68	Yamatsuri Town Houzaka	108	Namie Town Onoda		
29	Koriyama City Hiwada Town Hiwada	69	Hanawa Town Kawakami	109	Namie Town Murohara		
30	Koriyama City Nishita Town Oniuta	70	Samegawa Village Akasaka Higashino	110	Namie Town Yatsuda		
31	Koriyama City Sakuta	71	Inawashiro Town Yamagata	111	Namie Town Obori		
32	Koriyama City Tamura Town Moriyama	72	Minamisoma City Kashima Ward Jisabara	112	Katsurao Village Ochiai		
33	Koriyama City Atami Town Ishimushiro	73	Minamisoma City Kashima Ward Kamitochikubo	113	Katsurao Village Ochiai		
34	Koriyama City Fukuyama Town Fukuhara	74	Minamisoma City Haramachi Ward Okido	114	Katsurao Village Ochiai		
35	Koriyama City Kikuta Town Maetazawa	75	Minamisoma City Haramachi Ward Okido	115	Katsurao Village Nogawa		
36	Koriyama City Katahira Town	76	Minamisoma City Haramachi Ward Ishigami	116	Katsurao Village Katsurao		
37	Koriyama City Asaka Town Narita	77	Minamisoma City Haramachi Ward Shidazawa	117	Katsurao Village Katsurao		
38	Koriyama City Otsuki Town	78	Minamisoma City Haramachi Ward Fukono	118	Katsurao Village Katsurao		
39	Koriyama City Konan Town Hamaji	79	Minamisoma City Haramachi Ward Ota	119	Katsurao Village Ochiai		
40	Koriyama City Ose Town Tadano	80	Minamisoma City Odaka Ward Otomi	120	Katsurao Village Katsurao		

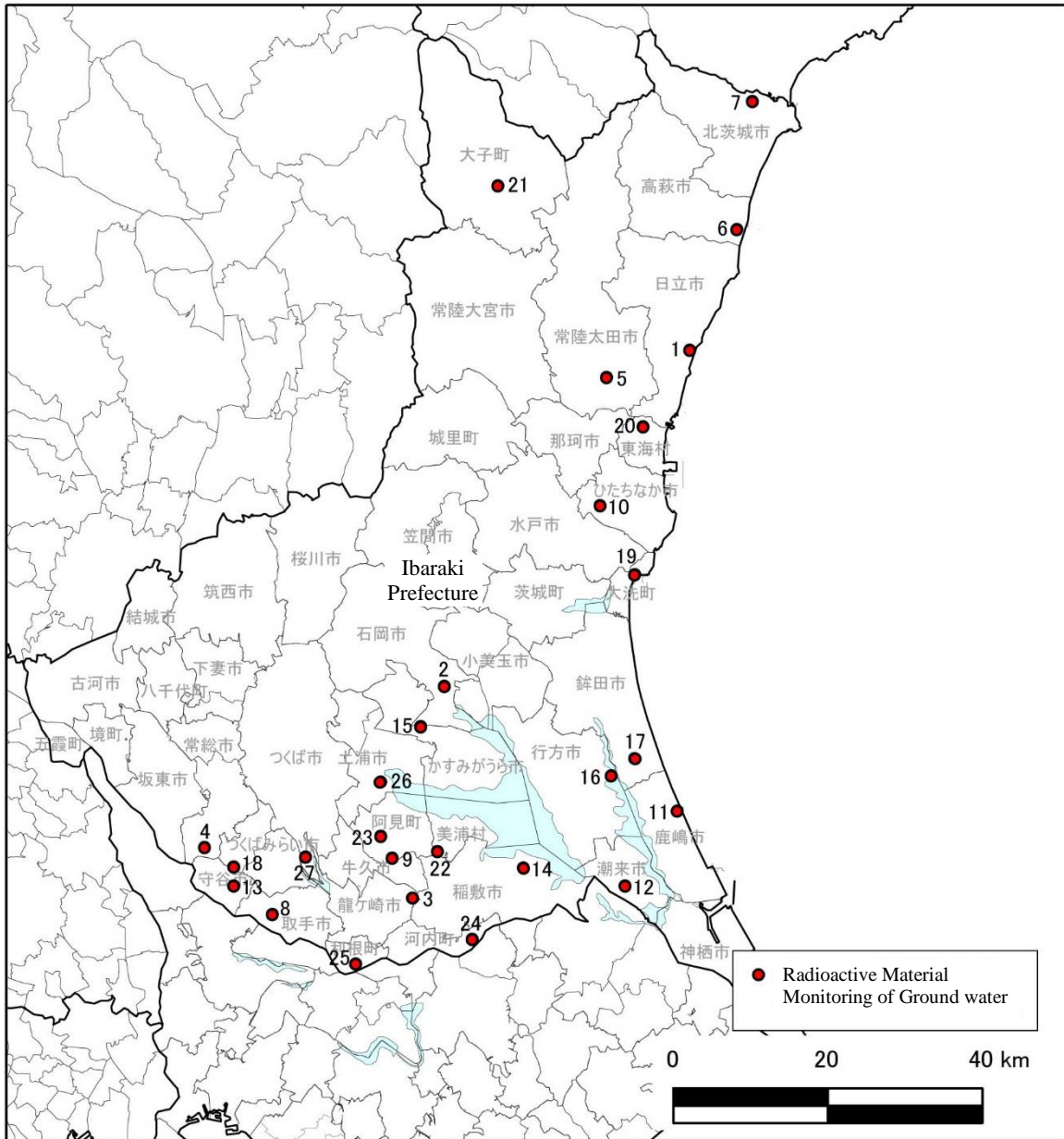
Results of Groundwater Monitoring [Ibaraki Prefecture]

(Annex 4)

No.	District	Sampling Date	Activity concentration (Bq/L)			Remarks
			I-131	Cs		
				Cs-134	Cs-137	
1	Hitachi City Higashi-Narusawa Town	2012/11/27	ND	ND	ND	
2	Ishioka City Oyatsu	2012/11/29	ND	ND	ND	
3	Ryugasaki City Itabashi Town	2012/11/30	ND	ND	ND	
4	Joso City Uchimoriya Town	2012/11/30	ND	ND	ND	
5	Hitachiota City Kanai Town	2012/11/27	ND	ND	ND	
6	Takahagi City Yamato Town	2012/11/27	ND	ND	ND	
7	Kitaibaraki City Sekimoto Town Fujigaoka	2012/11/27	ND	ND	ND	
8	Toride City Terada	2012/11/30	ND	ND	ND	
9	Ushiku City Kuno Town	2012/11/29	ND	ND	ND	
10	Hitachinaka City Horiguchi	2012/11/28	ND	ND	ND	
11	kashima City Tsunoore	2012/11/28	ND	ND	ND	
12	Itako City Tsuji	2012/11/28	ND	ND	ND	
13	Moriya City Hon Town	2012/11/30	ND	ND	ND	
14	Inashiki City Sukazu	2012/11/29	ND	ND	ND	
15	Kasumigaura City Shimoinayoshi	2012/11/29	ND	ND	ND	
16	Namegata City Yamada	2012/11/28	ND	ND	ND	
17	Hokota City Okura	2012/11/28	ND	ND	ND	
18	Tsukubamirai City Tsutsudo	2012/11/30	ND	ND	ND	
19	Oarai Town Onuki Town	2012/11/28	ND	ND	ND	
20	Tokai Village Ishigamiuchijuku	2012/11/27	ND	ND	ND	
21	Daigo Town Kitatage	2012/11/27	ND	ND	ND	
22	Miho Village	2012/11/29	ND	ND	ND	
23	Ami Town Kaminaga	2012/11/29	ND	ND	ND	
24	Kawachi Town Kanaetsu	2012/11/30	ND	ND	ND	
25	Tone Town Fukawa	2012/11/30	ND	ND	ND	
26	Tsuchiura City Komatsu	2012/11/29	ND	ND	ND	
27	Tsukuba City Iwasaki	2012/11/30	ND	ND	ND	

Note) Measurement results are indicated as ND when detected values were below the detection limit of activity concentrations (1 Bq/L).

(Map attached)



No.	District	No.	District	No.	District
1	Hitachi City Higashi-Narusawa Town	10	Hitachinaka City Horiguchi	19	Oarai Town Onuki Town
2	Ishioka City Oyatsu	11	kashima City Tsunoore	20	Tokai Village Ishigamiuchijuku
3	Ryugasaki City Itabashi Town	12	Itako City Tsuji	21	Daigo Town Kitatage
4	Joso City Uchimoriya Town	13	Moriya City Hon Town	22	Miho Village
5	Hitachiota City Kanai Town	14	Inashiki City Sukazu	23	Ani Town Kaminaga
6	Takahagi City Yamato Town	15	Kasumigaura City Shimoinayoshi	24	Kawachi Town Kanaetsu
7	Kitabaraki City Sekimoto Town Fujioka	16	Namegata City Yamada	25	Tone Town Fukawa
8	Toride City Terada	17	Hokota City Okura	26	Tsuchiura City Komatsu
9	Ushiku City Kuno Town	18	Tsukubamirai City Tsutsudo	27	Tsukuba City Iwasaki

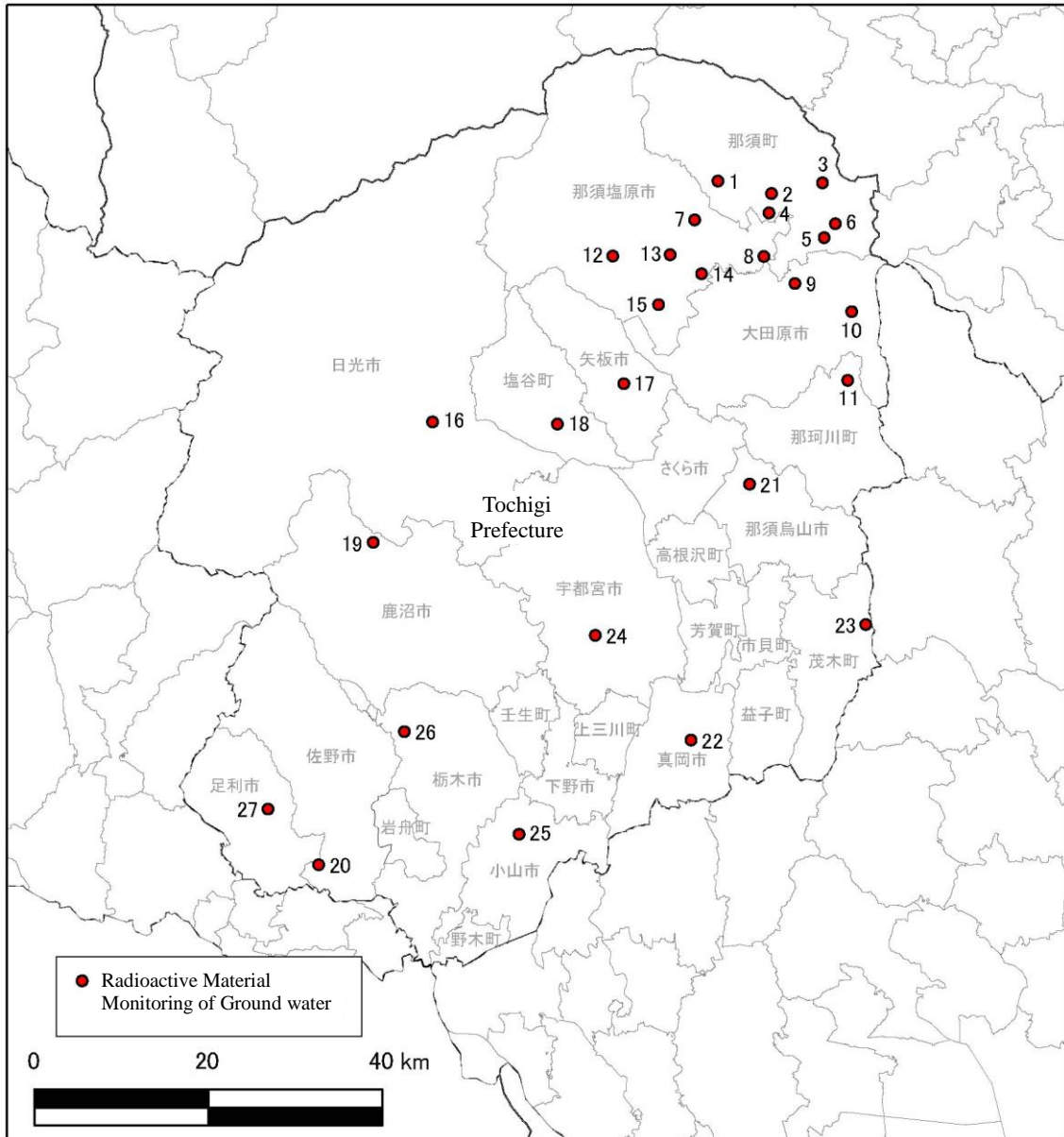
Results of Groundwater Monitoring [Tochigi Prefecture]

(Annex 5)

No.	District	Sampling Date	Activity concentration (Bq/L)			Remarks
			I-131	Cs		
				Cs-134	Cs-137	
1	Nasu Town Takakuko	2012/12/4	ND	ND	ND	
2	Nasu Town Terakotsu	2012/12/4	ND	ND	ND	
3	Nasu Town Yokoka	2012/12/4	ND	ND	ND	
4	Nasu Town Terakotsu	2012/12/4	ND	ND	ND	
5	Nasu Town Owasu	2012/12/4	ND	ND	ND	
6	Nasu Town Azusa	2012/12/4	ND	ND	ND	
7	Nasushiobara City Sakitama	2012/12/5	ND	ND	ND	
8	Nasushiobara City Nabekake	2012/12/5	ND	ND	ND	
9	Otawara City Nakanouchi	2012/12/4	ND	ND	ND	
10	Otawara City Kawakami	2012/12/4	ND	ND	ND	
11	Nakagawa Town Oyamada Kamigo	2012/12/4	ND	ND	ND	
12	Nasushiobara City Shimotano	2012/12/5	ND	ND	ND	
13	Nasushiobara City Sasanuma	2012/12/5	ND	ND	ND	
14	Nasushiobara City Numanotawa	2012/12/5	ND	ND	ND	
15	Nasushiobara City Nishimishima	2012/12/5	ND	ND	ND	
16	Nikko City Kobayaku	2012/11/30	ND	ND	ND	
17	Yaita City Honcho Town	2012/12/5	ND	ND	ND	
18	Shioya Town Iioka	2012/11/30	ND	ND	ND	
19	Kanuma City Kusagyū	2012/12/3	ND	ND	ND	
20	Sano City Murakami Town	2012/11/30	ND	ND	ND	
21	Nasukarasuyama City Shimokawai	2012/12/5	ND	ND	ND	
22	Moka City Aramachi Town	2012/12/3	ND	ND	ND	
23	Motegi Town Iino	2012/12/3	ND	ND	ND	
24	Utsunomiya City Yanaze Town	2012/12/3	ND	ND	ND	
25	Oyama City Shimada	2012/12/3	ND	ND	ND	
26	Tochigi City Umenozawa Town	2012/11/30	ND	ND	ND	
27	Ashikaga City Sugeta Town	2012/11/30	ND	ND	ND	

Note) Measurement results are indicated as ND when detected values were below the detection limit of activity concentrations (1 Bq/L).

(Map attached)



No.	District	No.	District	No.	District
1	Nasu Town Takakuko	10	Otawara City Kawakami	19	Kanuma City Kusagyu
2	Nasu Town Terakotsu	11	Nakagawa Town Oyamada Kamigo	20	Sano City Murakami Town
3	Nasu Town Yokoka	12	Nasushiobara City Shimotano	21	Nasukarasuyama City Shimokawai
4	Nasu Town Terakotsu	13	Nasushiobara City Sasanuma	22	Moka City Aramachi Town
5	Nasu Town Owasu	14	Nasushiobara City Numanotawa	23	Motegi Town Iino
6	Nasu Town Azusa	15	Nasushiobara City Nishimishima	24	Utsunomiya City Yanaze Town
7	Nasushiobara City Sakitama	16	Nikko City Kobayaku	25	Oyama City Shimada
8	Nasushiobara City Nabekake	17	Yaita City Honcho Town	26	Tochigi City Umenozawa Town
9	Otawara City Nakanouchi	18	Shioya Town Ioka	27	Ashikaga City Sugeta Town

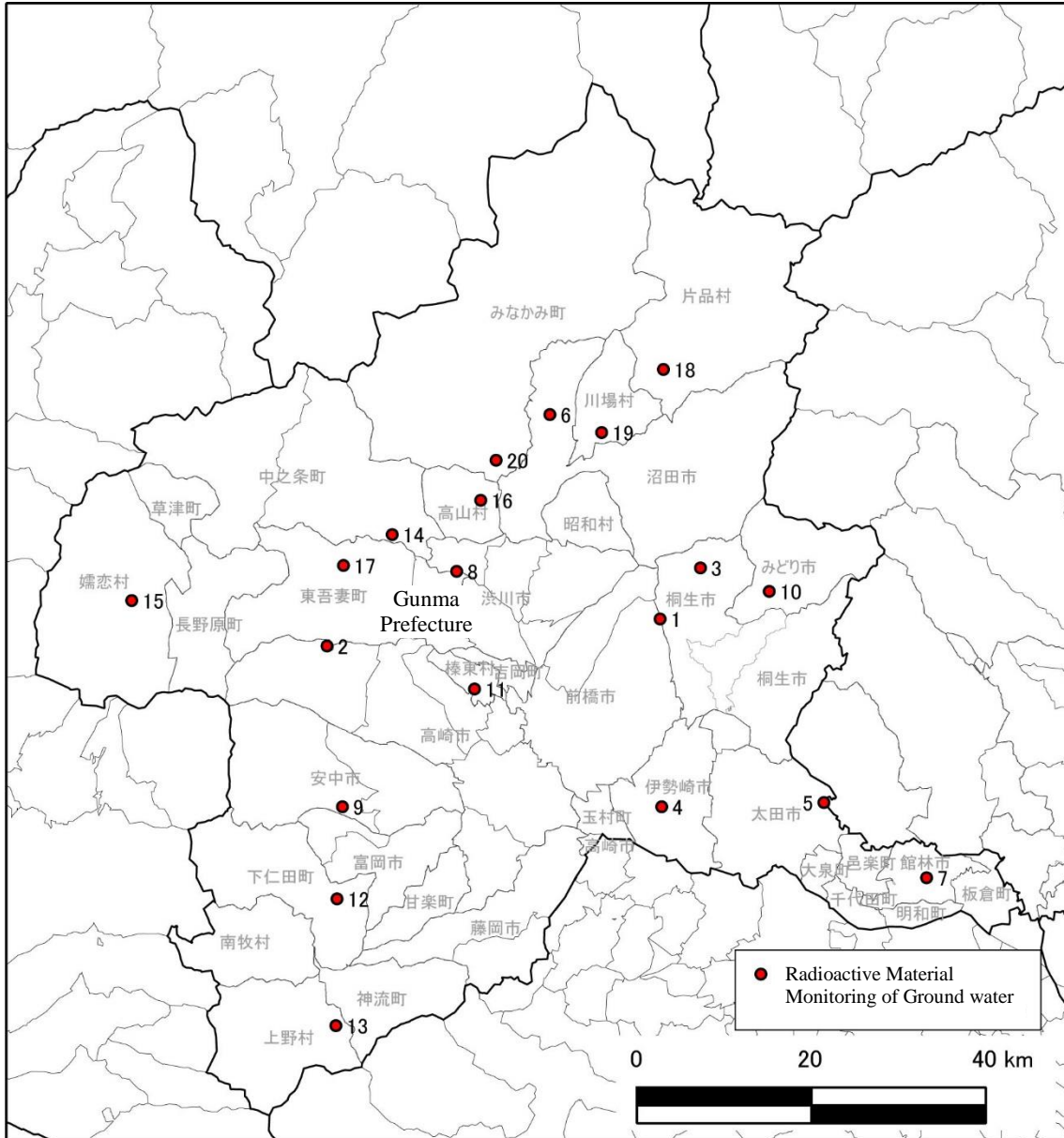
Results of Groundwater Monitoring [Gunma Prefecture]

(Annex 6)

No.	District	Sampling Date	Activity concentration (Bq/L)			Remarks
			I-131	Cs		
				Cs-134	Cs-137	
1	Maebashi City Kasukawa Town Nakanosawa	2012/11/29	ND	ND	ND	
2	Takasaki City Kurabu Town Gonda	2012/11/26	ND	ND	ND	
3	Kiryu City Kurohone Town Shimotazawa	2012/11/28	ND	ND	ND	
4	Isesaki City Imaizumi Town I cho-me	2012/11/29	ND	ND	ND	
5	Ota City Uekino Town	2012/11/29	ND	ND	ND	
6	Numata City Sayama Town	2012/11/28	ND	ND	ND	
7	Tatebayashi City Shiro Town	2012/11/29	ND	ND	ND	
8	Shibukawa City Onoko	2012/11/27	ND	ND	ND	
9	Annaka City Matsuida Town Yashiro	2012/11/26	ND	ND	ND	
10	Midori City Azuma Town Konaka	2012/11/29	ND	ND	ND	
11	Shinto Village Hirobaba	2012/11/27	ND	ND	ND	
12	Shimonita Town Shimonita	2012/11/26	ND	ND	ND	
13	Ueno Village Katsuyama	2012/11/26	ND	ND	ND	
14	Nakajyo Town Ise Town	2012/11/27	ND	ND	ND	
15	Tsumagoi Village Omae	2012/11/27	ND	ND	ND	
16	Takayama Village Nakayama	2012/11/27	ND	ND	ND	
17	Higashi-Agatsuma Town Gobara	2012/11/27	ND	ND	ND	
18	Katashina Village Hanasaku	2012/11/28	ND	ND	ND	
19	Kawaba Village Nakano	2012/11/28	ND	ND	ND	
20	Minakami Town Shimozu	2012/11/28	ND	ND	ND	

Note) Measurement results are indicated as ND when detected values were below the detection limit of activity concentrations (1 Bq/L).

(Map attached)



No.	District	No.	District	No.	District
1	Maebashi City Kasukawa Town Nakanosawa	8	Shibukawa City Onoko	15	Tsumagoi Village Omae
2	Takasaki City Kurabu Town Gonda	9	Annaka City Matsuida Town Yashiro	16	Takayama Village Nakayama
3	Kiryu City Kurohone Town Shimotazawa	10	Midori City Azuma Town Konaka	17	Higashi-Agatsuma Town Gobara
4	Isesaki City Imaizumi Town 1 cho-me	11	Shinto Village Hirobaba	18	Katashina Village Hanasaku
5	Ota City Uekino Town	12	Shimonita Town Shimonita	19	Kawaba Village Nakano
6	Numata City Sayama Town	13	Ueno Village Katsuyama	20	Minakami Town Shimozu
7	Tatebayashi City Shiro Town	14	Nakajyo Town Ise Town		

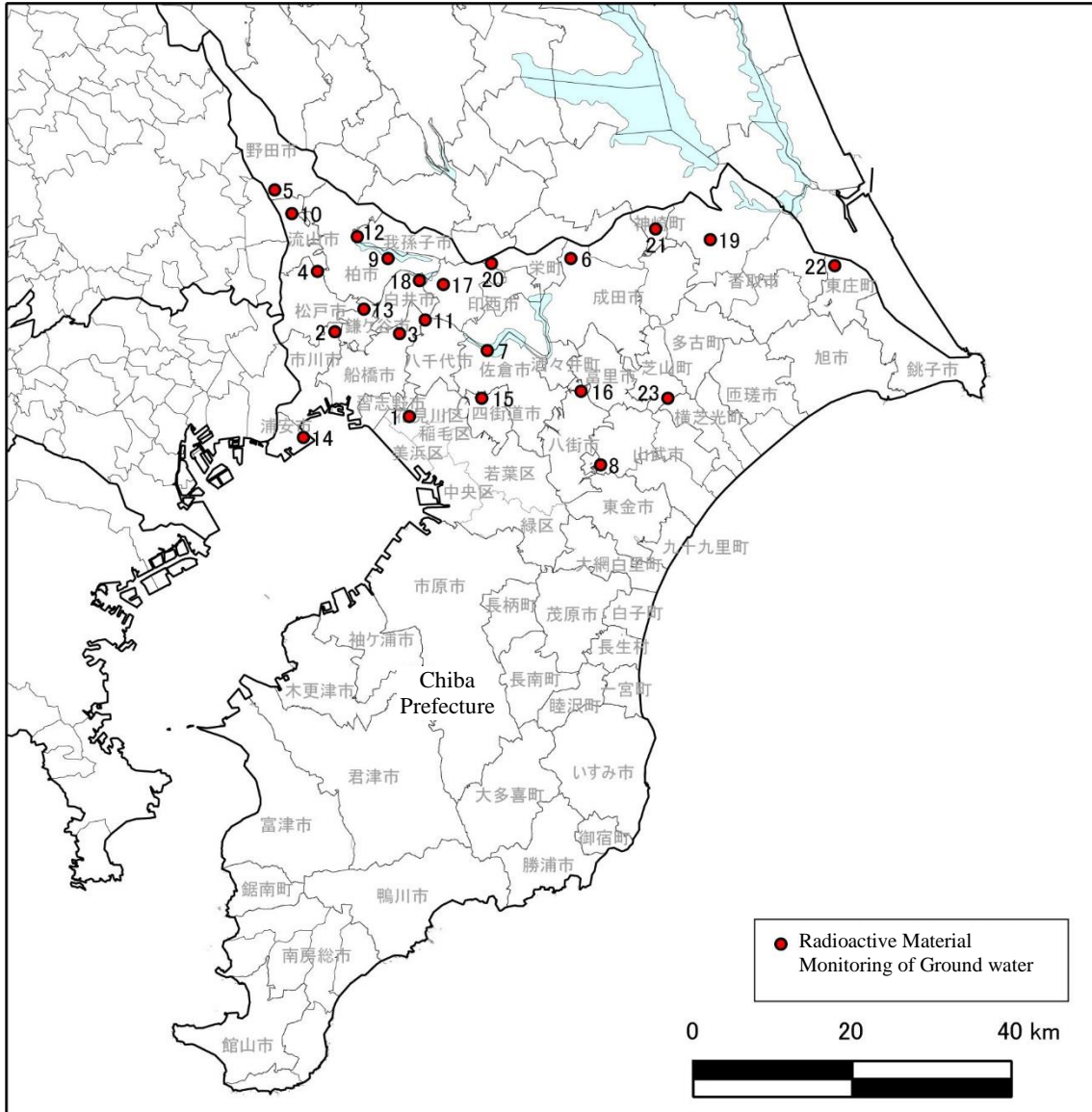
Results of Groundwater Monitoring [Chiba Prefecture]

(Annex 7)

No.	District	Sampling Date	Activity concentration (Bq/L)			Remarks
			I-131	Cs		
				Cs-134	Cs-137	
1	Chiba City Hanamigawa Ward Hata Town	2012/12/5	ND	ND	ND	
2	Ichikawa City Omachi Town	2012/12/3	ND	ND	ND	
3	Funabashi City Jinbo Town	2012/12/5	ND	ND	ND	
4	Matsudo City Negiuchi	2012/12/3	ND	ND	ND	
5	Noda City Imagami	2012/12/3	ND	ND	ND	
6	Narita City Kitahadori	2012/12/4	ND	ND	ND	
7	Sakura City Usuidai	2012/12/5	ND	ND	ND	
8	Togane City Kamifuda	2012/12/6	ND	ND	ND	
9	Kashiwa City Washinoya	2012/12/3	ND	ND	ND	
10	Nagareyama City Mihara	2012/12/3	ND	ND	ND	
11	Yachiyo City Koike	2012/12/5	ND	ND	ND	
12	Abiko City Funado	2012/12/3	ND	ND	ND	
13	Kamagaya City Awano	2012/12/3	ND	ND	ND	
14	Urayasu City Hinode	2012/12/5	ND	ND	ND	
15	Yotsukaido City Uchikuroda	2012/12/5	ND	ND	ND	
16	Yachimata City Yachimataha	2012/12/5	ND	ND	ND	
17	Inzai City Ogura	2012/12/4	ND	ND	ND	
18	Shiroishi City Hiratsuka	2012/12/4	ND	ND	ND	
19	Katori City Osaki	2012/12/4	ND	ND	ND	
20	Sakae Town Nishi	2012/12/4	ND	ND	ND	
21	Kanzaki Town Tachino	2012/12/4	ND	ND	ND	
22	Tonosho Town Sasagawa	2012/12/4	ND	ND	ND	
23	Shibayama Town Shibayama	2012/12/6	ND	ND	ND	

Note) Measurement results are indicated as ND when detected values were below the detection limit of activity concentrations (1 Bq/L).

(Map attached)



No.	District	No.	District	No.	District
1	Chiba City Hanamigawa Ward Hata Town	9	Kashiwa City Washinoya	17	Inzai City Ogura
2	Ichikawa City Omachi Town	10	Nagareyama City Mihara	18	Shiroishi City Hiratsuka
3	Funabashi City Jinbo Town	11	Yachiyo City Koike	19	Katori City Osaki
4	Matsudo City Negiuchi	12	Abiko City Funado	20	Sakae Town Nishi
5	Noda City Imagami	13	Kamagaya City Awano	21	Kanzaki Town Tachino
6	Narita City Kitahadori	14	Urayasu City Hinode	22	Tonosho Town Sasagawa
7	Sakura City Usuidai	15	Yotsukaido City Uchikuroda	23	Shibayama Town Shibayama
8	Togane City Kamifuda	16	Yachimata City Yachimataha		