

**○Results of Radioactive Material Monitoring of Aquatic Organisms (Location G in Lake Hayama)**

<Location G in Lake Hayama: Samples collected>

| Items<br>Locations | General items |          | Radioactive materials |           |              |              |
|--------------------|---------------|----------|-----------------------|-----------|--------------|--------------|
|                    | Water         | Sediment | Water(Cs)             | Water(Sr) | Sediment(Cs) | Sediment(Sr) |
| G-1                | ○             | ○        | ○                     | ○         | ○            | ○            |
| G-2                | —             | —        | —                     | —         | —            | —            |
| G-3                | ○             | ○        | ○                     | —         | ○            | —            |
| G-4                | —             | —        | —                     | —         | —            | —            |
| G-5                | ○             | ○        | ○                     | —         | ○            | —            |

<Location G in Lake Hayama:Site measurement item >

| Items<br>Locations | Survey date and time |             |                | Latitude and longitude of the location |             | Water                         |                                  |                      |          |                        | Sediment     |                 |                  | Other |  |
|--------------------|----------------------|-------------|----------------|--|-------------|-------------------------------|----------------------------------|----------------------|----------|------------------------|--------------|-----------------|------------------|-------|--|
|                    | Date                 | Time(Water) | Time(Sediment) | Latitude                               | Longitude   | Water temperature (degrees C) | Sediment temperature (degrees C) | Property             | Color    | Odor                   | Contaminants | Water depth (m) | Transparency (m) |       |  |
| G-1                | 2012/12/12           | 12:40       | 13:04          | 37.732050°                             | 140.812717° | 7.2                           | 7.2                              | Ooze                 | 7.5Y-4/2 | None                   | Plant        | 3.8             | 3.1              |       |  |
| G-2                | 2012/12/12           | —           | 11:24          | 37.726733°                             | 140.822333° | 7.3                           | 7.0                              | Ooze                 | 7.5Y-3/2 | Faint hydrogen sulfide | Plant        | 9.9             | 3.1              |       |  |
| G-3                | 2012/12/12           | 9:46        | 10:02          | 37.730167°                             | 140.830667° | 7.4                           | 8.2                              | Sand/gravel          | 7.5Y-3/1 | None                   | None         | 5.2             | 3.0              |       |  |
| G-4                | 2012/12/10           | —           | 15:00          | 37.738200°                             | 140.803450° | 7.2                           | 3.1                              | Sand/gravel/sediment | 5Y-4/2   | None                   | Plant        | 0.5             | >100cm※          |       |  |
| G-5                | 2012/12/12           | 12:17       | 12:05          | 37.734117°                             | 140.808833° | 7.2                           | 6.5                              | Ooze                 | 7.5Y-2/2 | Faint hydrogen sulfide | Plant        | 6.0             | 2.9              |       |  |

\*Show transparency (cm). <

<Location G in Lake Hayama: General survey items/Analysis of radioactive materials Water >

| Items<br>Locations  | Survey date and time |       | Latitude and longitude of the location |             | pH  | BOD (mg/L) | COD (mg/L) | DO (mg/L) | Electrical conductivity (mS/m) | Salinity | TOC (mg/L) | SS (mg/L) | Turbidity (FNU) | Cs-134 (Bq/L) | Cs-137 (Bq/L) | Sr-90 (Bq/L) |
|---------------------|----------------------|-------|--|-------------|-----|------------|------------|-----------|--------------------------------|----------|------------|-----------|-----------------|---------------|---------------|--------------|
|                     | Date                 | Time  | Latitude                               | Longitude   |     |            |            |           |                                |          |            |           |                 |               |               |              |
| G-1 (Surface layer) | 2012/12/12           | 12:40 | 37.732050°                             | 140.812717° | 7.2 | <0.5       | 3.5        | 10.4      | 7.0                            | 0.04     | 1.5        | 2         | 1.4             | 0.064         | 0.11          | —            |
| G-1 (Deep layer)    | —                    | —     | —                                      | —           | —   | —          | —          | —         | —                              | —        | —          | —         | —               | —             | —             | —            |
| G-3 (Surface layer) | 2012/12/12           | 9:46  | 37.730167°                             | 140.830667° | 7.3 | <0.5       | 3.8        | 10.4      | 7.1                            | 0.03     | 1.5        | 2         | 1.6             | 0.070         | 0.12          | 0.0025       |
| G-3 (Deep layer)    | —                    | —     | —                                      | —           | —   | —          | —          | —         | —                              | —        | —          | —         | —               | —             | —             | —            |
| G-5 (Surface layer) | 2012/12/12           | 12:17 | 37.734117°                             | 140.808833° | 7.4 | <0.5       | 3.9        | 10.3      | 7.1                            | 0.03     | 1.6        | 2         | 1.6             | 0.091         | 0.16          | —            |
| G-5 (Deep layer)    | —                    | —     | —                                      | —           | —   | —          | —          | —         | —                              | —        | —          | —         | —               | —             | —             | —            |

<Location G in Lake Hayama: General survey items/Analysis of radioactive materials Sediment >

| Items<br>Locations | Survey date and time |       | Latitude and longitude of the location |             | pH  | Redox potential E <sub>NHE</sub> (mV) | Water content (%) | IL (%) | TOC mg/g-dry | Soil particle density (g/cm <sup>3</sup> ) | Grain size distribution |                            |                               |                              |                          |                              | Median grain diameter (mm) | Maximum grain diameter (mm) | Cs-134 (Bq/kg-dry) | Cs-137 (Bq/kg-dry) | Sr-90 (Bq/kg-dry) |
|--------------------|----------------------|-------|--|-------------|-----|---------------------------------------|-------------------|--------|--------------|--|-------------------------|----------------------------|-------------------------------|------------------------------|--------------------------|------------------------------|----------------------------|-----------------------------|--------------------|--------------------|-------------------|
|                    | Date                 | Time  | Latitude                               | Longitude   |     |                                       |                   |        |              |  | Gravel (2-75mm) (%)     | Coarse sand (0.85-2mm) (%) | Medium sand (0.25-0.85mm) (%) | Fine sand (0.075-0.25mm) (%) | Silt (0.005-0.075mm) (%) | Clay (Less than 0.005mm) (%) |                            |                             |                    |                    |                   |
|                    |                      |       |  |             |     |                                       |                   |        |              |  |                         |                            |                               |                              |                          |                              |                            |                             |                    |                    |                   |
| G-1                | 2012/12/12           | 13:04 | 37.732050°                             | 140.812717° | 6.8 | 117                                   | 61.8              | 20.6   | 62           | 2.577                                      | 1.5                     | 0.7                        | 5.9                           | 36.6                         | 25.3                     | 30.0                         | 0.051                      | 4.75                        | 7,700              | 14,000             | 7.7               |
| G-2                | 2012/12/12           | 11:24 | 37.726733°                             | 140.822333° | 6.8 | 22                                    | 73.9              | 15.7   | 44           | 2.511                                      | 2.3                     | 1.0                        | 1.8                           | 1.7                          | 43.4                     | 49.8                         | 0.005                      | 4.75                        | 4,700              | 8,000              | —                 |
| G-3                | 2012/12/12           | 10:02 | 37.730167°                             | 140.830667° | 6.9 | 43                                    | 42.6              | 6.1    | 16           | 2.636                                      | 12.7                    | 11.7                       | 23.4                          | 16.8                         | 15.3                     | 20.1                         | 0.220                      | 9.50                        | 1,600              | 2,900              | —                 |
| G-4                | 2012/12/10           | 15:00 | 37.738200°                             | 140.803450° | 7.1 | 189                                   | 25.5              | 2.6    | 2            | 2.670                                      | 15.8                    | 24.7                       | 39.1                          | 10.7                         | 4.7                      | 5.0                          | 0.670                      | 19.00                       | 2,000              | 3,400              | —                 |
| G-5                | 2012/12/12           | 12:05 | 37.734117°                             | 140.808833° | 6.9 | 53                                    | 75.4              | 20.0   | 71           | 2.389                                      | —                       | 0.1                        | 0.2                           | 5.2                          | 42.7                     | 51.8                         | 0.004                      | 2.00                        | 16,000             | 28,000             | —                 |

<Location G in Lake Hayama:Analysis items Aquatic organisms >

| Location | Sampling Date | Latitude and longitude of the location |             | Division     | Class            | Order         | Family        | Species name                 | English name                  | Population | Sample weight (kg-wet) | Cs-134 (Bq/kg-wet) | Cs-137 (Bq/kg-wet) | Sr-90 (Bq/kg-wet) | Note          |                        |
|----------|---------------|--|-------------|--------------|------------------|---------------|---------------|------------------------------|-------------------------------|------------|------------------------|--------------------|--------------------|-------------------|---------------|------------------------|
|          |               | Latitude                               | Longitude   |              |                  |               |               |                              |                               |            |                        |                    |                    |                   | Growth stage  | Stomach contents       |
| G-1      | 2013/1/18     | 37.732050°                             | 140.812717° | Vertebrata   | Osteichthyes     | Cypriniformes | Cypriniformes | <u>Carassius auratus</u>     | Carassius auratus langsdorffi | 1          | 0.89                   | 290                | 530                | —                 | Mature fish   | Some (details unknown) |
| G-2      |               | 37.726733°                             | 140.822333° | Vertebrata   | Osteichthyes     | Cypriniformes | Cyprinidae    | <u>Tribolodon sp.</u>        | Tribolodon                    | 3          | 1.5                    | 370                | 640                | 0.54              | Mature fish   | Some (details unknown) |
| G-3      |               | 37.730167°                             | 140.830667° | Vertebrata   | Osteichthyes     | Perciformes   | Perciformes   | <u>Micropterus dolomieu</u>  | Small mouth bass              | 1          | 1.3                    | 900                | 1,700              | —                 | Mature fish   | Some (details unknown) |
| G-4      | 2012/12/10    | 37.738200°                             | 140.803450° | Streptophyta | Zygnematophyceae | Zygnematales  | Zygnematales  | <u>Spirogyra sp.</u>         | Spirogyra                     | —          | 0.081                  | 35                 | 59                 | —                 | —             | —                      |
|          |               |  |             | Arthropod    | Insecta          | Trichoptera   | Trichoptera   | <u>Stenopsyche marmorata</u> | Stenopsyche marmorata         | 261        | 0.037                  | 210                | 370                | —                 | Larva         | —                      |
|          |               |  |             | Arthropod    | Insecta          | Trichoptera   | Trichoptera   | <u>Stenopsyche sauteri</u>   | Parastenopsyche sauteri       | 4          | 0.080                  | 180                | 300                | —                 | Immature fish | —                      |
|          |               |  |             | Vertebrata   | Osteichthyes     | Salmoniformes | Salmoniformes | <u>Oncorhynchus masou</u>    | Yamame trout                  | —          | —                      | —                  | —                  | —                 | —             | —                      |
| —        | —             | —                                      | —           | —            | —                | —             | —             | CPOM (liter)                 | —                             | 1.1        | 76                     | 130                | —                  | —                 | —             |                        |

(Note) Underlined names in the English name column indicate species largest in number in the respective samples.