

○ Results of Radioactive Material Monitoring of Aquatic Organisms (Locations L off Soma City)

<Location L off Soma City: Samples collected>

| Items | General items | | Radioactive materials | | | |
|-------|---------------|----------|-----------------------|------------|---------------|---------------|
| | Water | Sediment | Water (Cs) | Water (Sr) | Sediment (Cs) | Sediment (Sr) |
| L-1 | ○ | ○ | ○ | ○ | ○ | ○ |
| L-2 | ○ | ○ | ○ | ○ | ○ | ○ |
| L-3 | ○ | ○ | ○ | — | ○ | — |

<Location L off Soma City: Site measurement item>

| Items | Latitude and longitude of the location | | Survey date and time | | | Water | Sediment | | | | Other | | |
|-------|--|-------------|----------------------|--------------|-----------------|-------------------------------|----------------------------------|---------------------|---------|------|--------------|-----------------|------------------------|
| | Latitude | Longitude | Date | Time (water) | Time (sediment) | Water temperature (degrees C) | Sediment temperature (degrees C) | Property | Color | Odor | Contaminants | Water depth (m) | Secchi disk depth (m) |
| L-1 | 37.820983° | 140.960800° | 2013/7/31 | — | 9:45 | — | 21.3 | Fine sand with silt | 10Y4/1 | None | None | — | — |
| L-2 | 37.815583° | 140.976450° | | 8:23 | 9:17 | 21.5 | 20.9 | Fine sand | 7.5Y4/1 | None | Plant | 2.0 | Drifting to the bottom |
| L-3 | 37.821683° | 140.976567° | | 8:43 | 9:31 | 21.9 | 21.1 | Fine sand | 10Y5/1 | None | None | 1.0 | Drifting to the bottom |

<Location L off Soma City: General survey items/Analysis of radioactive materials Water>

| Items | Latitude and longitude of the location | | Survey date and time | | pH | BOD | COD | DO | Electrical conductivity | Salinity | TOC | SS | Turbidity | Cs-134 | Cs-137 | Sr-90 |
|-------|--|-------------|----------------------|------|-----|--------|--------|--------|-------------------------|----------|--------|--------|-----------|--------|--------|--------|
| | Latitude | Longitude | Date | Time | | (mg/L) | (mg/L) | (mg/L) | (mS/m) | | (mg/L) | (mg/L) | (FNU) | (Bq/L) | (Bq/L) | (Bq/L) |
| L-2 | 37.815583° | 140.976450° | 2013/7/31 | 8:23 | 8.1 | 1.0 | 1.8 | 7.6 | 4,130 | 25.50 | 2.0 | 1 | 0.9 | 0.016 | 0.035 | 0.0017 |
| L-3 | 37.821683° | 140.976567° | | 8:43 | 8.1 | 1.4 | 1.9 | 7.6 | 4,060 | 25.01 | 1.9 | <1 | 0.6 | 0.022 | 0.044 | — |

<Location L off Soma City: General survey items/Analysis of radioactive materials Sediment>

| Items | Latitude and longitude of the location | | Survey date and time | | pH | Redox potential E _{NHE} (mV) | Water content (%) | IL (%) | TOC (mg/g-dry) | Soil particle density (g/cm ³) | Grain size distribution | | | | | | | Cs-134 (Bq/kg-dry) | Cs-137 (Bq/kg-dry) | Sr-90 (Bq/kg-dry) | |
|-------|--|-------------|----------------------|------|-----|---------------------------------------|-------------------|--------|----------------|--|-------------------------|------------------------|---------------------------|--------------------------|----------------------|--------------------------|----------------------------|--------------------|--------------------|-------------------|-----------------------------|
| | Latitude | Longitude | Date | Time | | | | | | | 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) | Median grain diameter (mm) | | | | Maximum grain diameter (mm) |
| | | | | | | | | | | | (%) | (%) | (%) | (%) | (%) | (%) | (mm) | | | | (mm) |
| L-1 | 37.820983° | 140.960800° | 2013/7/31 | 9:45 | 8.1 | 114 | 27.7 | 2.5 | 4 | 2,733 | 6.5 | 11.6 | 40.8 | 19.7 | 9.2 | 12.2 | 0.33 | 9.5 | 46 | 100 | — |
| L-2 | 37.815583° | 140.976450° | | 9:17 | 7.9 | 99 | 27.1 | 1.9 | 2 | 2,723 | 0 | 0.2 | 23.2 | 68.7 | 0.6 | 7.3 | 0.18 | 2 | 26 | 53 | N.D. (<0.15) |
| L-3 | 37.821683° | 140.976567° | | 9:31 | 8.0 | 141 | 21.1 | 1.1 | <1 | 2,774 | 0 | 0.6 | 54.9 | 41.7 | 0.4 | 2.4 | 0.27 | 2 | 4.0 | 10 | — |

Note) N.D. means to be below the detection limit.

<Location L off Soma City: Survey items Aquatic organisms>

| Location | Latitude and longitude of the location | | Sampling Date | Division | Class | Order | Family | Species name | English name | Population | Sample weight (kg-wet) | Note | | Cs-134 (Bq/kg-wet) | Cs-137 (Bq/kg-wet) | Sr-90 (Bq/kg-wet) | | |
|-------------------------------------|--|---|---------------|---------------|------------------|-------------------|-----------------|--------------------------------|--------------------------------------|------------|------------------------|---------------------------|------------------|--------------------|--------------------|-------------------|-----|---|
| | Latitude | Longitude | | | | | | | | | | Growth stage | Stomach contents | | | | | |
| L-1 L-2 L-3 (Matsukawaura) | 37.820983° 37.815583° 37.821683° | 140.960800° 140.976450° 140.976567° | 2013/7/31 | Algae/seaweed | — | — | — | — | Floating algae | — | 0.049 | — | — | 6.4 | 15 | — | | |
| | | | | Chlorophyta | Ulvophyceae | Ulvales | Ulvaceae | <i>Ulva pertusa</i> | Ulva pertusa | — | 0.22 | — | — | — | 0.72 | 1.9 | — | |
| | | | | Angiospermae | Monocotyledoneae | Najadales | Zosteraceae | <i>Zostera marina</i> | eel grass | — | 0.54 | — | — | — | 0.28 | 0.37 | — | |
| | | | | Annelida | Polychaeta | — | — | <i>Polychaeta</i> | polychaetes | 221 | 0.021 | Imago | — | — | — | 3.6 | 6.8 | — |
| | | | | Arthropod | Malacostraca | Mysida | Mysidae | <i>Mysida</i> | Mysidae | Many | 0.19 | Imago | — | — | — | 1.1 | 1.5 | — |
| | | | | Arthropod | Malacostraca | Decapoda | Alpheidae | <i>Alpheus sp.</i> | Alpheus | 37 | 0.069 | Imago | — | — | — | 2.3 | 3.7 | — |
| | | | | Arthropod | Malacostraca | Decapoda | Grapsidae | <i>Eriocheir japonica</i> | Japanese mitten crab | 3 | 0.44 | Imago | — | — | — | 6.2 | 14 | — |
| | | | | Arthropod | Malacostraca | Decapoda | Portunidae | <i>Charybdis japonica</i> | Shore swimming crab | 10 | 0.37 | Imago | — | — | — | 2.4 | 5.5 | — |
| | | | | Arthropod | Malacostraca | Varunidae | Varunidae | <i>Hemigrapsus</i> | Hemigrapsus | 60 | 0.11 | Imago | — | — | — | 1.6 | 3.4 | — |
| | | | | Mollusca | Bivalvia | Pterioidea | Ostreidae | — | Japanese oyster (shell) | 9 | 0.94 | Imago | — | — | — | 4.6 | 10 | — |
| | | | | Mollusca | Bivalvia | Pterioidea | Ostreidae | <i>Crassostrea gigas</i> | Japanese oyster (molluscos part) | 9 | 3.1 | Imago | — | — | — | 0.79 | 1.4 | — |
| | | | | Mollusca | Bivalvia | Veneroidea | Veneridae | — | Japanese littleneck (shell) | 148 | 1.6 | Imago | — | — | — | 0.85 | 2.1 | — |
| | | | | Mollusca | Bivalvia | Veneroidea | Veneridae | <i>Ruditapes philippinarum</i> | Japanese littleneck (molluscos part) | 11 | 0.80 | Imago | — | — | — | 1.3 | 2.5 | — |
| | | | | Vertebrata | Osteichthyes | Pleuronectiformes | Pleuronectidae | — | Pleuronectidae | 11 | 0.048 | Yearling fish | — | — | — | 1.3 | 2.5 | — |
| | | | | Vertebrata | Osteichthyes | Perciformes | Gobiidae | <i>Favonigobius gymnauchen</i> | Favonigobius gymnauchen | 38 | 0.047 | Mature fish/Immature fish | — | — | — | 1.4 | 2.9 | — |
| | | | | Vertebrata | Osteichthyes | Pacific herring | Pacific herring | <i>Konosirus punctatus</i> | Dotted gizzard shad | 1 | 0.22 | 5-year-old fish | — | — | — | 1.9 | 4.5 | — |

Note) Deficit of growth stage, shows the results of the age assessment by the scale or otolith.