

Table 1 Water quality items and limits of discharge from the wafer and semiconductor manufacturing industry

| Item   |  | Limit  | Remarks                      |
|--|--|--|------------------------------|
| Water temperature  | Discharge into non-marine surface water bodies   | Lower than 38°C (for May to September)   |                              |
|  |  | Lower than 35°C (for October to next April)  |                              |
|  | Direct discharge to the ocean  | Water temperature at discharge point ≤ 42°C; temperature difference of surface water 500m from discharge point ≤ 4°C |                              |
| Hydrogen ion concentration index                             |  | 6.0—9.0  |                              |
| Villiumite   |  | 15   |                              |
| Nitrite nitrogen   |  | 50   |                              |
| Ammonia nitrogen   | Discharged into tap water quality and volume protection area   | 10   |                              |
|  | Discharged into places outside tap water quality and volume protection area  | Constructed, under construction or tendering procedures completed before Dec.1, 2011                                 | 30                           |
|  |  | Tendering procedures not completed before Dec.1, 2011  | 20                           |
| Orthophosphate (calculated based on trivalent phosphate ion) | Discharged into tap water quality and volume protection area   | 4.0  |                              |
| Phenols  |  | 1.0  |                              |
| Anion surfactant   |  | 10   |                              |
| Cyanide  |  | 1.0  |                              |
| Grease (Hexane extracts)                                     |  | 10   |                              |
| Dissolved iron   |  | 10   |                              |
| Dissolved manganese  |  | 10   |                              |
| Cadmium  | Constructed, under construction or tendering procedures completed before Dec.25, 2017  | 0.03   |                              |
|  | Constructed, under construction or tendering procedures completed before Dec.25, 2017 with an approved discharge volume more than 500m <sup>3</sup> /day | 0.02   | In effect from Jan. 1, 2021. |
|  | Tendering procedures not completed before Dec.25, 2017   | 0.02   |                              |
| Lead   | Constructed, under construction or tendering procedures completed before Dec.25, 2017  | 1.0  |                              |
|  | Constructed, under construction or tendering procedures completed before Dec.25, 2017 with an approved discharge volume more than 500m <sup>3</sup> /day | 0.5  | In effect from Jan. 1, 2021. |

|                     |  |      |                              |
|---------------------|--|------|------------------------------|
|                     | Tendering procedures not completed before Dec.25, 2017   | 0.5  |                              |
| Total chromium      | Constructed, under construction or tendering procedures completed before Dec.25, 2017  | 2.0  |                              |
|                     | Constructed, under construction or tendering procedures completed before Dec.25, 2017 with an approved discharge volume more than 500m <sup>3</sup> /day | 1.5  | In effect from Jan. 1, 2021. |
|                     | Tendering procedures not completed before Dec.25, 2017   | 1.5  |                              |
| Hexavalent chromium | Constructed, under construction or tendering procedures completed before Dec.25, 2017  | 0.5  |                              |
|                     | Constructed, under construction or tendering procedures completed before Dec.25, 2017 with an approved discharge volume more than 500m <sup>3</sup> /day | 0.35 | In effect from Jan. 1, 2021. |
|                     | Tendering procedures not completed before Dec.25, 2017   | 0.35 |                              |
| Copper              | Constructed, under construction or tendering procedures completed before Dec.25, 2017  | 3.0  |                              |
|                     | Constructed, under construction or tendering procedures completed before Dec.25, 2017 with an approved discharge volume more than 500m <sup>3</sup> /day | 1.5  | In effect from Jan. 1, 2021. |
|                     | Tendering procedures not completed before Dec.25, 2017   | 1.5  |                              |
| Zinc                | Constructed, under construction or tendering procedures completed before Dec.25, 2017  | 5.0  |                              |
|                     | Constructed, under construction or tendering procedures completed before Dec.25, 2017 with an approved discharge volume more than 500m <sup>3</sup> /day | 3.5  | In effect from Jan. 1, 2021. |
|                     | Tendering procedures not completed before Dec.25, 2017   | 3.5  |                              |
| Nickel              | Constructed, under construction or tendering procedures completed before Dec.25, 2017  | 1.0  |                              |
|                     | Constructed, under construction or tendering procedures completed before Dec.25, 2017 with an approved discharge volume more than 500m <sup>3</sup> /day | 0.7  | In effect from Jan. 1, 2021. |
|                     | Tendering procedures not completed before Dec.25, 2017   | 0.7  |                              |
| Selenium            | Constructed, under construction or tendering procedures completed before Dec.25, 2017  | 0.5  |                              |

|                        |  |       |                              |
|------------------------|--|-------|------------------------------|
|                        | Constructed, under construction or tendering procedures completed before Dec.25, 2017 with an approved discharge volume more than 500m <sup>3</sup> /day | 0.35  | In effect from Jan. 1, 2021. |
|                        | Tendering procedures not completed before Dec.25, 2017   | 0.35  |                              |
| Arsenic                | Constructed, under construction or tendering procedures completed before Dec.25, 2017  | 0.5   |                              |
|                        | Constructed, under construction or tendering procedures completed before Dec.25, 2017 with an approved discharge volume more than 500m <sup>3</sup> /day | 0.35  | In effect from Jan. 1, 2021. |
|                        | Tendering procedures not completed before Dec.25, 2017   | 0.35  |                              |
| Tin                    | Constructed, under construction or tendering procedures completed before Dec.25, 2017 with an approved discharge volume more than 500m <sup>3</sup> /day | 2.0   | In effect from Jan. 1, 2021. |
|                        | Tendering procedures not completed before Dec.25, 2017   | 1.0   |                              |
| Total mercury          |  | 0.005 |                              |
| Silver                 |  | 0.5   |                              |
| Boron                  | Discharged into tap water quality and volume protection area   | 1.0   |                              |
|                        | Discharged into places outside tap water quality and volume protection area  | 5.0   |                              |
| Molybdenum             | Constructed, under construction or tendering procedures completed before Dec.25, 2017  | 0.6   | In effect from Jan. 1, 2021. |
|                        | Tendering procedures not completed before Dec.25, 2017   | 0.6   |                              |
| Sulfide                |  | 1.0   |                              |
| Chemical oxygen demand |  | 100   |                              |
| Suspended solids       |  | 30    |                              |
| Total toxic organics   |  | 1.37  |                              |
| N-methylpyrrolidone    | Approved discharge volume more than 10,000 m <sup>3</sup> per day except for those only engaging in polishing, cutting, testing or packaging.            | 1.0   | In effect from Jan. 1, 2021. |
| 2-Methoxy-1-propano    |  | 0.1   |                              |
| Dimethylacetamide      |  | 0.1   |                              |
| Cobalt                 |  | 1.0   |                              |
| Antimony               |  | 1.0   |                              |