

**Benedict Industries Pty Limited**

Moorebank - 146 Newbridge Road, Moorebank NSW 2170

EPA Licence No: 4612

2021 Annual

**Water Monitoring Requirements:**

Grab samples are required to be taken every 3/6 months.

**Location of Monitoring Points:**

Monitoring Point 1: Boreholes labelled on map titled "Location Plan" submitted to the EPA on 14 March 2003.

**Summary of Results:**

| Pollutant                             | Unit of Measure | 100 Percentile Concentration Limit                      | No. of Samples Required by Licence | No. of Samples Collected & Analysed | Lowest sample value | Highest sample value | Mean of samples | Sample Date |            |            |            |            |           |           |            |            |            |     |         |  |
|---------------------------------------|-----------------|---|------------------------------------|-------------------------------------|---------------------|----------------------|-----------------|-------------|------------|------------|------------|------------|-----------|-----------|------------|------------|------------|-----|---------|--|
|                                       |                 |   |                                    |                                     |                     |                      |                 | 14/01/2021  | 12/02/2021 | 12/03/2021 | 16/04/2021 | 14/05/2021 | 9/06/2021 | 9/07/2021 | 20/08/2021 | 22/09/2021 | 18/10/2021 |     |         |  |
| Alkalinity (as CaCO <sub>3</sub> )    | mg/L            | No limits apply - sampling for monitoring purposes only | 4                                  | 4                                   | 125                 | 175                  | 148             | 125         |            |            |            | 130        |           |           | 175        |            |            | 160 |         |  |
| Aluminium (Al)                        | mg/L            |   | 2                                  | 2                                   | 0.05                | 0.05                 | 0               | 0.05        |            |            |            |            |           |           | 0.05       |            |            |     |         |  |
| Arsenic (As)                          | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |     |         |  |
| Barium (Ba)                           | mg/L            |   | 2                                  | 2                                   | 0.05                | 0.05                 | 0               | 0.05        |            |            |            |            |           |           | 0.05       |            |            |     |         |  |
| Cadmium (Cd)                          | mg/L            |   | 2                                  | 2                                   | 0.0005              | 0.0005               | 0               | 0.0005      |            |            |            |            |           |           | 0.0005     |            |            |     |         |  |
| Chromium (Cr)                         | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |     |         |  |
| Conductivity                          | uS/cm           |   | 4                                  | 4                                   | 7290                | 14500                | 10860           | 9650        |            | 7290       |            |            |           |           | 12000      |            |            |     | 14500   |  |
| Copper (Cu)                           | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.05                 | 0               | 0.05        |            |            |            |            |           |           | 0.005      |            |            |     |         |  |
| Iron (Fe)                             | mg/L            |   | 2                                  | 2                                   | 0.02                | 0.02                 | 0               | 0.02        |            |            |            |            |           |           | 0.02       |            |            |     |         |  |
| Lead (Pb)                             | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |     |         |  |
| Manganese (Mn)                        | mg/L            |   | 4                                  | 4                                   | 0.04                | 0.29                 | 0               | 0.04        |            | 0.1        |            |            |           |           | 0.29       |            |            |     | 0.11    |  |
| Mercury (Hg)                          | mg/L            |   | 4                                  | 4                                   | 0.00005             | 0.00005              | 0               | 0.00005     |            | 0.00005    |            |            |           |           | 0.00005    |            |            |     | 0.00005 |  |
| Nitrate + Nitrite (oxidised Nitrogen) | mg/L            |   | 4                                  | 4                                   | 0.05                | 0.16                 | 0               | 0.05        |            | 0.16       |            |            |           |           | 0.12       |            |            |     | 0.05    |  |
| Nitrogen-Ammonia                      | mg/L            |   | 4                                  | 4                                   | 0.1                 | 0.9                  | 0               | 0.1         |            | 0.2        |            |            |           |           | 0.9        |            |            |     | 0.1     |  |
| Organochlorine Pesticides             | ug/L            |   | 2                                  | 2                                   | 0.1                 | 0.1                  | 0               | 0.1         |            |            |            |            |           |           | 0.1        |            |            |     |         |  |
| Phenols                               | mg/L            |   | 2                                  | 2                                   | 0.05                | 0.05                 | 0               | 0.05        |            |            |            |            |           |           | 0.05       |            |            |     |         |  |
| Polycyclic Aromatic Hydrocarbons      | ug/L            |   | 2                                  | 2                                   | 2.5                 | 2.5                  | 3               | 2.5         |            |            |            |            |           |           | 2.5        |            |            |     |         |  |
| Selenium (Se)                         | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |     |         |  |
| Total Dissolved Solids                | mg/L            |   | 4                                  | 4                                   | 4770                | 9470                 | 7105            | 6310        |            | 4770       |            |            |           |           | 7870       |            |            |     | 9470    |  |
| Total Organic Carbon                  | mg/L            |   | 4                                  | 4                                   | 6                   | 10                   | 8               | 6           |            | 7          |            |            |           |           | 9          |            |            |     | 10      |  |
| Total Petroleum Hydrocarbons          | ug/L            |   | 2                                  | 2                                   | 50                  | 50                   | 50              | 50          |            |            |            |            |           |           | 50         |            |            |     |         |  |
| Zinc (Zn)                             | mg/L            |   | 2                                  | 2                                   | 0.02                | 0.05                 | 0               | 0.05        |            |            |            |            |           |           | 0.02       |            |            |     |         |  |
| pH                                    | pH              |   |                                    | 10                                  | 10                  | 7.2                  | 7.9             | 7           | 7.4        | 7.3        | 7.6        | 7.5        | 7.2       | 7.3       | 7.2        | 7.4        | 7.7        | 7.9 |         |  |

**Sampling frequency**

|                |
|----------------|
| Every month    |
| Every 3 months |
| Every 6 months |

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**Water Monitoring Requirements:**

Grab samples are required to be taken every 3/6 months.

**Location of Monitoring Points:**

Monitoring Point 2: Boreholes labelled on map titled "Location Plan" submitted to the EPA on 14 March 2003.

**Summary of Results:**

| Pollutant                             | Unit of Measure | 100 Percentile Concentration Limit                      | No. of Samples Required by Licence | No. of Samples Collected & Analysed | Lowest sample value | Highest sample value | Mean of samples | Sample Date |            |            |            |            |           |           |            |            |            |     |         |  |
|---------------------------------------|-----------------|---|------------------------------------|-------------------------------------|---------------------|----------------------|-----------------|-------------|------------|------------|------------|------------|-----------|-----------|------------|------------|------------|-----|---------|--|
|                                       |                 |   |                                    |                                     |                     |                      |                 | 14/01/2021  | 12/02/2021 | 12/03/2021 | 16/04/2021 | 14/05/2021 | 9/06/2021 | 9/07/2021 | 20/08/2021 | 22/09/2021 | 18/10/2021 |     |         |  |
| Alkalinity (as CaCO <sub>3</sub> )    | mg/L            | No limits apply - sampling for monitoring purposes only | 4                                  | 4                                   | 115                 | 160                  | 138             | 115         |            |            |            | 125        |           |           | 150        |            |            | 160 |         |  |
| Aluminium (Al)                        | mg/L            |   | 2                                  | 2                                   | 0.05                | 0.05                 | 0               | 0.05        |            |            |            |            |           | 0.05      |            |            |            |     |         |  |
| Arsenic (As)                          | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           | 0.005     |            |            |            |     |         |  |
| Barium (Ba)                           | mg/L            |   | 2                                  | 2                                   | 0.05                | 0.05                 | 0               | 0.05        |            |            |            |            |           | 0.05      |            |            |            |     |         |  |
| Cadmium (Cd)                          | mg/L            |   | 2                                  | 2                                   | 0.0005              | 0.0005               | 0               | 0.0005      |            |            |            |            |           | 0.0005    |            |            |            |     |         |  |
| Chromium (Cr)                         | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.05                 | 0               | 0.05        |            |            |            |            |           | 0.005     |            |            |            |     |         |  |
| Conductivity                          | uS/cm           |   | 4                                  | 4                                   | 7450                | 14500                | 11080           | 9370        |            |            | 7450       |            |           | 13000     |            |            |            |     | 14500   |  |
| Copper (Cu)                           | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           | 0.005     |            |            |            |     |         |  |
| Iron (Fe)                             | mg/L            |   | 2                                  | 2                                   | 0.01                | 0.01                 | 0               | 0.01        |            |            |            |            |           | 0.01      |            |            |            |     |         |  |
| Lead (Pb)                             | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.05                 | 0               | 0.05        |            |            |            |            |           | 0.005     |            |            |            |     |         |  |
| Manganese (Mn)                        | mg/L            |   | 4                                  | 4                                   | 0.04                | 0.28                 | 0               | 0.04        |            |            | 0.09       |            |           | 0.28      |            |            |            |     | 0.11    |  |
| Mercury (Hg)                          | mg/L            |   | 4                                  | 4                                   | 0.00005             | 0.00005              | 0               | 0.00005     |            |            | 0.00005    |            |           | 0.00005   |            |            |            |     | 0.00005 |  |
| Nitrate + Nitrite (oxidised Nitrogen) | mg/L            |   | 4                                  | 4                                   | 0.05                | 0.17                 | 0               | 0.05        |            |            | 0.17       |            |           | 0.12      |            |            |            |     | 0.05    |  |
| Nitrogen-Ammonia                      | mg/L            |   | 4                                  | 4                                   | 0.1                 | 0.8                  | 0               | 0.1         |            |            | 0.2        |            |           | 0.8       |            |            |            |     | 0.2     |  |
| Organochlorine Pesticides             | ug/L            |   | 2                                  | 2                                   | 0.1                 | 0.1                  | 0               | 0.1         |            |            |            |            |           | 0.1       |            |            |            |     |         |  |
| Phenols                               | mg/L            |   | 2                                  | 2                                   | 0.05                | 0.05                 | 0               | 0.05        |            |            |            |            |           | 0.05      |            |            |            |     |         |  |
| Polycyclic Aromatic Hydrocarbons      | ug/L            |   | 2                                  | 2                                   | 2.5                 | 2.5                  | 3               | 2.5         |            |            |            |            |           | 2.5       |            |            |            |     |         |  |
| Selenium (Se)                         | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           | 0.005     |            |            |            |     |         |  |
| Total Dissolved Solids                | mg/L            |   | 4                                  | 4                                   | 4880                | 9460                 | 7253            | 6140        |            |            | 4880       |            |           | 8530      |            |            |            |     | 9460    |  |
| Total Organic Carbon                  | mg/L            |   | 4                                  | 4                                   | 7                   | 10                   | 9               | 8           |            |            | 9          |            |           | 7         |            |            |            |     | 10      |  |
| Total Petroleum Hydrocarbons          | ug/L            |   | 2                                  | 2                                   | 50                  | 50                   | 50              | 50          |            |            |            |            |           | 50        |            |            |            |     |         |  |
| Zinc (Zn)                             | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.05                 | 0               | 0.05        |            |            |            |            |           | 0.005     |            |            |            |     |         |  |
| pH                                    | pH              |   |                                    | 10                                  | 10                  | 6.9                  | 7.8             | 7           | 7.6        | 7.3        | 7.4        | 7.4        | 7.1       | 7.2       | 6.9        | 7.5        | 7.7        | 7.8 |         |  |

**Sampling frequency**

|                |
|----------------|
| Every month    |
| Every 3 months |
| Every 6 months |

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2021 Annual

**Water Monitoring Requirements:**

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**Location of Monitoring Points:**

Monitoring Point 3: Boreholes labelled on map titled "Location Plan" submitted to the EPA on 14 March 2003.

**Summary of Results:**

| Pollutant                             | Unit of Measure | 100 Percentile Concentration Limit                             | No. of Samples Required by Licence | No. of Samples Collected & Analysed | Lowest sample value | Highest sample value | Mean of samples | Sample Date |            |            |            |            |           |           |            |            |            |    |         |  |
|---------------------------------------|-----------------|--|------------------------------------|-------------------------------------|---------------------|----------------------|-----------------|-------------|------------|------------|------------|------------|-----------|-----------|------------|------------|------------|----|---------|--|
|                                       |                 |  |                                    |                                     |                     |                      |                 | 14/01/2021  | 12/02/2021 | 12/03/2021 | 16/04/2021 | 14/05/2021 | 9/06/2021 | 9/07/2021 | 20/08/2021 | 22/09/2021 | 18/10/2021 |    |         |  |
| Alkalinity (as CaCO <sub>3</sub> )    | mg/L            | <i>No limits apply - sampling for monitoring purposes only</i> | 4                                  | 4                                   | 29                  | 36                   | 32              | 34          |            |            |            | 30         |           |           | 29         |            |            | 36 |         |  |
| Aluminium (Al)                        | mg/L            |  | 2                                  | 2                                   | 0.05                | 0.05                 | 0               | 0.05        |            |            |            |            |           |           | 0.05       |            |            |    |         |  |
| Arsenic (As)                          | mg/L            |  | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |    |         |  |
| Barium (Ba)                           | mg/L            |  | 2                                  | 2                                   | 0.05                | 0.05                 | 0               | 0.05        |            |            |            |            |           |           | 0.05       |            |            |    |         |  |
| Cadmium (Cd)                          | mg/L            |  | 2                                  | 2                                   | 0.0005              | 0.0005               | 0               | 0.0005      |            |            |            |            |           |           | 0.0005     |            |            |    |         |  |
| Chromium (Cr)                         | mg/L            |  | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |    |         |  |
| Conductivity                          | uS/cm           |  | 4                                  | 4                                   | 12200               | 25800                | 16825           | 12200       |            |            | 15300      |            |           |           | 14000      |            |            |    | 25800   |  |
| Copper (Cu)                           | mg/L            |  | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |    |         |  |
| Iron (Fe)                             | mg/L            |  | 2                                  | 2                                   | 0.01                | 0.27                 | 0               | 0.01        |            |            |            |            |           |           | 0.27       |            |            |    |         |  |
| Lead (Pb)                             | mg/L            |  | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |    |         |  |
| Manganese (Mn)                        | mg/L            |  | 4                                  | 4                                   | 0.14                | 0.35                 | 0               | 0.2         |            |            | 0.21       |            |           |           | 0.14       |            |            |    | 0.35    |  |
| Mercury (Hg)                          | mg/L            |  | 4                                  | 4                                   | 0.00005             | 0.00005              | 0               | 0.00005     |            |            | 0.00005    |            |           |           | 0.00005    |            |            |    | 0.00005 |  |
| Nitrate + Nitrite (oxidised Nitrogen) | mg/L            |  | 4                                  | 4                                   | 0.05                | 0.05                 | 0               | 0.05        |            |            | 0.05       |            |           |           | 0.05       |            |            |    | 0.05    |  |
| Nitrogen-Ammonia                      | mg/L            |  | 4                                  | 4                                   | 0.3                 | 0.6                  | 0               | 0.3         |            |            | 0.5        |            |           |           | 0.6        |            |            |    | 0.4     |  |
| Organochlorine Pesticides             | ug/L            |  | 2                                  | 2                                   | 0.1                 | 0.1                  | 0               | 0.1         |            |            |            |            |           |           | 0.1        |            |            |    |         |  |
| Phenols                               | mg/L            |  | 2                                  | 2                                   | 0.05                | 0.05                 | 0               | 0.05        |            |            |            |            |           |           | 0.05       |            |            |    |         |  |
| Polycyclic Aromatic Hydrocarbons      | ug/L            |  | 2                                  | 2                                   | 2.5                 | 2.5                  | 3               | 2.5         |            |            |            |            |           |           | 2.5        |            |            |    |         |  |
| Selenium (Se)                         | mg/L            |  | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |    |         |  |
| Total Dissolved Solids                | mg/L            |  | 4                                  | 4                                   | 7880                | 16800                | 10930           | 7880        |            |            | 9980       |            |           |           | 9060       |            |            |    | 16800   |  |
| Total Organic Carbon                  | mg/L            |  | 4                                  | 4                                   | 3                   | 4                    | 4               | 4           |            |            | 3          |            |           |           | 4          |            |            |    | 4       |  |
| Total Petroleum Hydrocarbons          | ug/L            | 2  | 2                                  | 50                                  | 50                  | 50                   | 50              |             |            |            |            |            |           | 50        |            |            |            |    |         |  |
| Zinc (Zn)                             | mg/L            | 2  | 2                                  | 0.05                                | 0.05                | 0                    | 0.05            |             |            |            |            |            |           | 0.05      |            |            |            |    |         |  |
| pH                                    | pH              |  | 10                                 | 10                                  | 5.7                 | 6.4                  | 6               | 6.1         | 6.2        | 6.4        | 6.2        | 5.7        | 6.1       | 6.1       | 6.2        | 6.1        | 5.9        |    |         |  |

**Sampling frequency**

|                |
|----------------|
| Every month    |
| Every 3 months |
| Every 6 months |

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2021 Annual

**Water Monitoring Requirements:**

Grab samples are required to be taken every 3/6 months.

**Location of Monitoring Points:**

Monitoring Point 4: Boreholes labelled on map titled "Location Plan" submitted to the EPA on 14 March 2003.

**Summary of Results:**

| Pollutant                             | Unit of Measure | 100 Percentile Concentration Limit                      | No. of Samples Required by Licence | No. of Samples Collected & Analysed | Lowest sample value | Highest sample value | Mean of samples | Sample Date |            |            |            |            |           |           |            |            |            |     |         |  |
|---------------------------------------|-----------------|---|------------------------------------|-------------------------------------|---------------------|----------------------|-----------------|-------------|------------|------------|------------|------------|-----------|-----------|------------|------------|------------|-----|---------|--|
|                                       |                 |   |                                    |                                     |                     |                      |                 | 14/01/2021  | 12/02/2021 | 12/03/2021 | 16/04/2021 | 14/05/2021 | 7/06/2021 | 9/07/2021 | 20/08/2021 | 22/09/2021 | 18/10/2021 |     |         |  |
| Alkalinity (as CaCO <sub>3</sub> )    | mg/L            | No limits apply - sampling for monitoring purposes only | 4                                  | 4                                   | 60                  | 92                   | 78              | 85          |            |            |            | 74         |           |           | 60         |            |            | 92  |         |  |
| Aluminium (Al)                        | mg/L            |   | 2                                  | 2                                   | 0.05                | 0.05                 | 0               | 0.05        |            |            |            |            |           |           | 0.05       |            |            |     |         |  |
| Arsenic (As)                          | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |     |         |  |
| Barium (Ba)                           | mg/L            |   | 2                                  | 2                                   | 0.05                | 0.05                 | 0               | 0.05        |            |            |            |            |           |           | 0.05       |            |            |     |         |  |
| Cadmium (Cd)                          | mg/L            |   | 2                                  | 2                                   | 0.0005              | 0.0005               | 0               | 0.0005      |            |            |            |            |           |           | 0.0005     |            |            |     |         |  |
| Chromium (Cr)                         | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |     |         |  |
| Conductivity                          | uS/cm           |   | 4                                  | 4                                   | 13700               | 27300                | 21600           | 27300       |            |            | 23400      |            |           |           | 13700      |            |            |     | 22000   |  |
| Copper (Cu)                           | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.05                 | 0               | 0.005       |            |            |            |            |           |           | 0.05       |            |            |     |         |  |
| Iron (Fe)                             | mg/L            |   | 2                                  | 2                                   | 0.16                | 2.2                  | 1               | 2.2         |            |            |            |            |           |           | 0.16       |            |            |     |         |  |
| Lead (Pb)                             | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |     |         |  |
| Manganese (Mn)                        | mg/L            |   | 4                                  | 4                                   | 0.12                | 0.41                 | 0               | 0.41        |            |            | 0.3        |            |           |           | 0.12       |            |            |     | 0.23    |  |
| Mercury (Hg)                          | mg/L            |   | 4                                  | 4                                   | 0.00005             | 0.00005              | 0               | 0.00005     |            |            | 0.00005    |            |           |           | 0.00005    |            |            |     | 0.00005 |  |
| Nitrate + Nitrite (oxidised Nitrogen) | mg/L            |   | 4                                  | 4                                   | 0.05                | 0.05                 | 0               | 0.05        |            |            | 0.05       |            |           |           | 0.05       |            |            |     | 0.05    |  |
| Nitrogen-Ammonia                      | mg/L            |   | 4                                  | 4                                   | 0.6                 | 2.8                  | 2               | 2.8         |            |            | 2.2        |            |           |           | 0.6        |            |            |     | 2.3     |  |
| Organochlorine Pesticides             | ug/L            |   | 2                                  | 2                                   | 0.1                 | 0.1                  | 0               | 0.1         |            |            |            |            |           |           | 0.1        |            |            |     |         |  |
| Phenols                               | mg/L            |   | 2                                  | 2                                   | 0.05                | 0.05                 | 0               | 0.05        |            |            |            |            |           |           | 0.05       |            |            |     |         |  |
| Polycyclic Aromatic Hydrocarbons      | ug/L            |   | 2                                  | 2                                   | 2.5                 | 2.5                  | 3               | 2.5         |            |            |            |            |           |           | 2.5        |            |            |     |         |  |
| Selenium (Se)                         | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |     |         |  |
| Total Dissolved Solids                | mg/L            |   | 4                                  | 4                                   | 8970                | 17800                | 14093           | 17800       |            |            | 15200      |            |           |           | 8970       |            |            |     | 14400   |  |
| Total Organic Carbon                  | mg/L            |   | 4                                  | 4                                   | 4                   | 5                    | 4               | 4           |            |            | 4          |            |           |           | 5          |            |            |     | 4       |  |
| Total Petroleum Hydrocarbons          | ug/L            |   | 2                                  | 2                                   | 50                  | 50                   | 50              | 50          |            |            |            |            |           |           | 50         |            |            |     |         |  |
| Zinc (Zn)                             | mg/L            |   | 2                                  | 2                                   | 0.02                | 0.03                 | 0               | 0.02        |            |            |            |            |           |           | 0.03       |            |            |     |         |  |
| pH                                    | pH              |   |                                    | 10                                  | 10                  | 6.1                  | 6.6             | 6           | 6.2        | 6.2        | 6.3        | 6.2        | 6.1       | 6.6       | 6.3        | 6.3        | 6.3        | 6.4 |         |  |

**Sampling frequency**

|                |
|----------------|
| Every month    |
| Every 3 months |
| Every 6 months |

**Benedict Industries Pty Limited**

Moorebank - 146 Newbridge Road, Moorebank NSW 2170

EPA Licence No: 4612

2021 Annual

**Water Monitoring Requirements:**

Grab samples are required to be taken every 3/6 months.

**Location of Monitoring Points:**

Monitoring Point 5: Boreholes labelled on map titled "Location Plan" submitted to the EPA on 14 March 2003.

**Summary of Results:**

| Pollutant                             | Unit of Measure | 100 Percentile Concentration Limit                      | No. of Samples Required by Licence | No. of Samples Collected & Analysed | Lowest sample value | Highest sample value | Mean of samples | Sample Date |            |            |            |            |           |           |            |            |            |     |         |  |  |
|---------------------------------------|-----------------|---|------------------------------------|-------------------------------------|---------------------|----------------------|-----------------|-------------|------------|------------|------------|------------|-----------|-----------|------------|------------|------------|-----|---------|--|--|
|                                       |                 |   |                                    |                                     |                     |                      |                 | 14/01/2021  | 12/02/2021 | 12/03/2021 | 16/04/2021 | 14/05/2021 | 9/06/2021 | 9/07/2021 | 20/08/2021 | 22/09/2021 | 18/10/2021 |     |         |  |  |
| Alkalinity (as CaCO <sub>3</sub> )    | mg/L            | No limits apply - sampling for monitoring purposes only | 4                                  | 4                                   | 0.5                 | 0.5                  | 1               | 0.5         |            |            |            | 0.5        |           |           |            |            |            | 0.5 |         |  |  |
| Aluminium (Al)                        | mg/L            |   | 2                                  | 2                                   | 4.2                 | 4.5                  | 4               | 4.2         |            |            |            |            | 4.5       |           |            |            |            |     |         |  |  |
| Arsenic (As)                          | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            | 0.005     |           |            |            |            |     |         |  |  |
| Barium (Ba)                           | mg/L            |   | 2                                  | 2                                   | 0.05                | 0.05                 | 0               | 0.05        |            |            |            |            | 0.05      |           |            |            |            |     |         |  |  |
| Cadmium (Cd)                          | mg/L            |   | 2                                  | 2                                   | 0.0005              | 0.0005               | 0               | 0.0005      |            |            |            |            | 0.0005    |           |            |            |            |     |         |  |  |
| Chromium (Cr)                         | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            | 0.005     |           |            |            |            |     |         |  |  |
| Conductivity                          | uS/cm           |   | 4                                  | 4                                   | 8600                | 13400                | 11875           | 13400       |            | 13100      |            |            | 12400     |           |            |            |            |     | 8600    |  |  |
| Copper (Cu)                           | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            | 0.005     |           |            |            |            |     |         |  |  |
| Iron (Fe)                             | mg/L            |   | 2                                  | 2                                   | 88                  | 92                   | 90              | 88          |            |            |            |            | 92        |           |            |            |            |     |         |  |  |
| Lead (Pb)                             | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            | 0.005     |           |            |            |            |     |         |  |  |
| Manganese (Mn)                        | mg/L            |   | 4                                  | 4                                   | 0.14                | 26                   | 13              | 26          |            | 0.14       |            |            | 19        |           |            |            |            |     | 7.5     |  |  |
| Mercury (Hg)                          | mg/L            |   | 4                                  | 4                                   | 0.00005             | 0.00005              | 0               | 0.00005     |            | 0.00005    |            |            | 0.00005   |           |            |            |            |     | 0.00005 |  |  |
| Nitrate + Nitrite (oxidised Nitrogen) | mg/L            |   | 4                                  | 4                                   | 0.05                | 0.05                 | 0               | 0.05        |            | 0.05       |            |            | 0.05      |           |            |            |            |     | 0.05    |  |  |
| Nitrogen-Ammonia                      | mg/L            |   | 4                                  | 4                                   | 4                   | 14                   | 8               | 4           |            | 14         |            |            | 6.1       |           |            |            |            |     | 7.2     |  |  |
| Organochlorine Pesticides             | ug/L            |   | 2                                  | 2                                   | 0.1                 | 0.1                  | 0               | 0.1         |            |            |            |            | 0.1       |           |            |            |            |     |         |  |  |
| Phenols                               | mg/L            |   | 2                                  | 2                                   | 0.05                | 0.05                 | 0               | 0.05        |            |            |            |            | 0.05      |           |            |            |            |     |         |  |  |
| Polycyclic Aromatic Hydrocarbons      | ug/L            |   | 2                                  | 2                                   | 2.5                 | 2.5                  | 3               | 2.5         |            |            |            |            | 2.5       |           |            |            |            |     |         |  |  |
| Selenium (Se)                         | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            | 0.005     |           |            |            |            |     |         |  |  |
| Total Dissolved Solids                | mg/L            |   | 4                                  | 4                                   | 5590                | 8780                 | 7743            | 8780        |            | 8550       |            |            | 8050      |           |            |            |            |     | 5590    |  |  |
| Total Organic Carbon                  | mg/L            |   | 4                                  | 4                                   | 22                  | 29                   | 26              | 25          |            | 29         |            |            | 22        |           |            |            |            |     | 29      |  |  |
| Total Petroleum Hydrocarbons          | ug/L            |   | 2                                  | 2                                   | 50                  | 50                   | 50              | 50          |            |            |            |            | 50        |           |            |            |            |     |         |  |  |
| Zinc (Zn)                             | mg/L            |   | 2                                  | 2                                   | 1.4                 | 2.5                  | 2               | 2.5         |            |            |            |            | 1.4       |           |            |            |            |     |         |  |  |
| pH                                    | pH              |   |                                    | 10                                  | 10                  | 3.5                  | 4.4             | 4           | 4.2        | 4.1        | 4.4        | 4.2        | 3.5       | 3.9       | 3.7        | 4.2        | 4.1        | 4   |         |  |  |

**Sampling frequency**

|                |
|----------------|
| Every month    |
| Every 3 months |
| Every 6 months |

**Benedict Industries Pty Limited**

Moorebank - 146 Newbridge Road, Moorebank NSW 2170

EPA Licence No: 4612

2021 Annual

**Water Monitoring Requirements:**

Grab samples are required to be taken every 3/6 months.

**Location of Monitoring Points:**

Monitoring Point 7: Boreholes labelled on map titled "Location Plan" submitted to the EPA on 14 March 2003.

**Summary of Results:**

| Pollutant                             | Unit of Measure | 100 Percentile Concentration Limit                      | No. of Samples Required by Licence | No. of Samples Collected & Analysed | Lowest sample value | Highest sample value | Mean of samples | Sample Date |            |            |            |            |           |           |            |            |            |     |         |  |
|---------------------------------------|-----------------|---|------------------------------------|-------------------------------------|---------------------|----------------------|-----------------|-------------|------------|------------|------------|------------|-----------|-----------|------------|------------|------------|-----|---------|--|
|                                       |                 |   |                                    |                                     |                     |                      |                 | 14/01/2021  | 12/02/2021 | 12/03/2021 | 16/04/2021 | 14/05/2021 | 7/06/2021 | 9/07/2021 | 20/08/2021 | 22/09/2021 | 18/10/2021 |     |         |  |
| Alkalinity (as CaCO <sub>3</sub> )    | mg/L            | No limits apply - sampling for monitoring purposes only | 4                                  | 4                                   | 125                 | 170                  | 150             | 125         |            |            |            | 140        |           |           | 165        |            |            | 170 |         |  |
| Aluminium (Al)                        | mg/L            |   | 2                                  | 2                                   | 0.05                | 0.05                 | 0               | 0.05        |            |            |            |            |           |           | 0.05       |            |            |     |         |  |
| Arsenic (As)                          | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |     |         |  |
| Barium (Ba)                           | mg/L            |   | 2                                  | 2                                   | 0.05                | 0.05                 | 0               | 0.1         |            |            |            |            |           |           | 0.05       |            |            |     |         |  |
| Cadmium (Cd)                          | mg/L            |   | 2                                  | 2                                   | 0.0005              | 0.0005               | 0               | 0.0005      |            |            |            |            |           |           | 0.0005     |            |            |     |         |  |
| Chromium (Cr)                         | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |     |         |  |
| Conductivity                          | uS/cm           |   | 4                                  | 4                                   | 7100                | 11800                | 9690            | 8860        |            | 7100       |            |            |           | 11800     |            |            |            |     | 11000   |  |
| Copper (Cu)                           | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |     |         |  |
| Iron (Fe)                             | mg/L            |   | 2                                  | 2                                   | 0.05                | 0.11                 | 0               | 0.05        |            |            |            |            |           |           | 0.11       |            |            |     |         |  |
| Lead (Pb)                             | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |     |         |  |
| Manganese (Mn)                        | mg/L            |   | 4                                  | 4                                   | 0.1                 | 41                   | 10              | 0.10        |            | 41         |            |            |           | 0.32      |            |            |            |     | 0.13    |  |
| Mercury (Hg)                          | mg/L            |   | 4                                  | 4                                   | 0.00005             | 0.00005              | 0               | 0.00005     |            | 0.00005    |            |            |           | 0.00005   |            |            |            |     | 0.00005 |  |
| Nitrate + Nitrite (oxidised Nitrogen) | mg/L            |   | 4                                  | 4                                   | 0.05                | 0.13                 | 0               | 0.05        |            | 0.13       |            |            |           | 0.13      |            |            |            |     | 0.05    |  |
| Nitrogen-Ammonia                      | mg/L            |   | 4                                  | 4                                   | 0.1                 | 0.9                  | 0               | 0.1         |            | 0.3        |            |            |           | 0.9       |            |            |            |     | 0.2     |  |
| Organochlorine Pesticides             | ug/L            |   | 2                                  | 2                                   | 0.1                 | 0.1                  | 0               | 0.1         |            |            |            |            |           | 0.1       |            |            |            |     |         |  |
| Phenols                               | mg/L            |   | 2                                  | 2                                   | 0.05                | 0.05                 | 0               | 0.05        |            |            |            |            |           | 0.05      |            |            |            |     |         |  |
| Polycyclic Aromatic Hydrocarbons      | ug/L            |   | 2                                  | 2                                   | 2.5                 | 2.5                  | 3               | 2.5         |            |            |            |            |           | 2.5       |            |            |            |     |         |  |
| Selenium (Se)                         | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           | 0.005     |            |            |            |     |         |  |
| Total Dissolved Solids                | mg/L            |   | 4                                  | 4                                   | 4670                | 7750                 | 6340            | 5780        |            | 4670       |            |            |           | 7750      |            |            |            |     | 7160    |  |
| Total Organic Carbon                  | mg/L            |   | 4                                  | 4                                   | 8                   | 10                   | 9               | 8           |            | 9          |            |            |           | 8         |            |            |            |     | 10      |  |
| Total Petroleum Hydrocarbons          | ug/L            |   | 2                                  | 2                                   | 50                  | 50                   | 50              | 50          |            |            |            |            |           | 50        |            |            |            |     |         |  |
| Zinc (Zn)                             | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           | 0.005     |            |            |            |     |         |  |
| pH                                    | pH              |   |                                    | 10                                  | 10                  | 6.7                  | 7.7             | 7           | 7.3        | 6.8        | 7.1        | 7.1        | 6.7       | 6.8       | 6.8        | 6.9        | 7.3        | 7.7 |         |  |

**Sampling frequency**

|                |
|----------------|
| Every month    |
| Every 3 months |
| Every 6 months |

**Benedict Industries Pty Limited**

Moorebank - 146 Newbridge Road, Moorebank NSW 2170

EPA Licence No: 4612

2021 Annual

**Water Monitoring Requirements:**

Grab samples are required to be taken every 3/6 months.

**Location of Monitoring Points:**

Monitoring Point 8: Boreholes labelled on map titled "Location Plan" submitted to the EPA on 14 March 2003.

**Summary of Results:**

| Pollutant                             | Unit of Measure | 100 Percentile Concentration Limit                      | No. of Samples Required by Licence | No. of Samples Collected & Analysed | Lowest sample value | Highest sample value | Mean of samples | Sample Date |            |            |            |            |           |           |            |            |            |     |         |  |
|---------------------------------------|-----------------|---|------------------------------------|-------------------------------------|---------------------|----------------------|-----------------|-------------|------------|------------|------------|------------|-----------|-----------|------------|------------|------------|-----|---------|--|
|                                       |                 |   |                                    |                                     |                     |                      |                 | 14/01/2021  | 12/02/2021 | 12/03/2021 | 16/04/2021 | 14/05/2021 | 7/06/2021 | 9/07/2021 | 20/08/2021 | 22/09/2021 | 18/10/2021 |     |         |  |
| Alkalinity (as CaCO <sub>3</sub> )    | mg/L            | No limits apply - sampling for monitoring purposes only | 4                                  | 4                                   | 52                  | 74                   | 67              | 72          |            |            |            | 52         |           |           | 70         |            |            | 74  |         |  |
| Aluminium (Al)                        | mg/L            |   | 2                                  | 2                                   | 0.05                | 0.05                 | 0               | 0.05        |            |            |            |            |           |           | 0.05       |            |            |     |         |  |
| Arsenic (As)                          | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |     |         |  |
| Barium (Ba)                           | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.05                 | 0               | 0.05        |            |            |            |            |           |           | 0.005      |            |            |     |         |  |
| Cadmium (Cd)                          | mg/L            |   | 2                                  | 2                                   | 0.0005              | 0.0005               | 0               | 0.0005      |            |            |            |            |           |           | 0.0005     |            |            |     |         |  |
| Chromium (Cr)                         | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |     |         |  |
| Conductivity                          | uS/cm           |   | 4                                  | 4                                   | 5450                | 20000                | 15888           | 19300       |            |            | 5450       |            |           |           | 18800      |            |            |     | 20000   |  |
| Copper (Cu)                           | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |     |         |  |
| Iron (Fe)                             | mg/L            |   | 2                                  | 2                                   | 0.02                | 0.02                 | 0               | 0.02        |            |            |            |            |           |           | 0.02       |            |            |     |         |  |
| Lead (Pb)                             | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |     |         |  |
| Manganese (Mn)                        | mg/L            |   | 4                                  | 4                                   | 0.02                | 0.2                  | 0               | 0.02        |            |            | 0.2        |            |           |           | 0.02       |            |            |     | 0.04    |  |
| Mercury (Hg)                          | mg/L            |   | 4                                  | 4                                   | 0.00005             | 0.00005              | 0               | 0.00005     |            |            | 0.00005    |            |           |           | 0.00005    |            |            |     | 0.00005 |  |
| Nitrate + Nitrite (oxidised Nitrogen) | mg/L            |   | 4                                  | 4                                   | 0.005               | 0.63                 | 0               | 0.35        |            |            | 0.63       |            |           |           | 0.005      |            |            |     | 0.26    |  |
| Nitrogen-Ammonia                      | mg/L            |   | 4                                  | 4                                   | 0.05                | 0.9                  | 0               | 0.05        |            |            | 0.2        |            |           |           | 0.05       |            |            |     | 0.9     |  |
| Organochlorine Pesticides             | ug/L            |   | 2                                  | 2                                   | 0.1                 | 0.1                  | 0               | 0.1         |            |            |            |            |           |           | 0.1        |            |            |     |         |  |
| Phenols                               | mg/L            |   | 2                                  | 2                                   | 0.05                | 0.05                 | 0               | 0.05        |            |            |            |            |           |           | 0.05       |            |            |     |         |  |
| Polycyclic Aromatic Hydrocarbons      | ug/L            |   | 2                                  | 2                                   | 2.5                 | 2.5                  | 3               | 2.5         |            |            |            |            |           |           | 2.5        |            |            |     |         |  |
| Selenium (Se)                         | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |     |         |  |
| Total Dissolved Solids                | mg/L            |   | 4                                  | 4                                   | 3600                | 13000                | 10350           | 12600       |            |            | 3600       |            |           |           | 12200      |            |            |     | 13000   |  |
| Total Organic Carbon                  | mg/L            |   | 4                                  | 4                                   | 2                   | 9                    | 4               | 3           |            |            | 9          |            |           |           | 3          |            |            |     | 2       |  |
| Total Petroleum Hydrocarbons          | ug/L            |   | 2                                  | 2                                   | 50                  | 50                   | 50              | 50          |            |            |            |            |           |           | 50         |            |            |     |         |  |
| Zinc (Zn)                             | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |     |         |  |
| pH                                    | pH              |   |                                    | 10                                  | 10                  | 6.8                  | 7.3             | 7           | 7.2        | 6.8        | 7          | 7          | 6.9       | 7         | 7.2        | 7          | 7.0        | 7.3 |         |  |

**Sampling frequency**

|                |
|----------------|
| Every month    |
| Every 3 months |
| Every 6 months |

**Benedict Industries Pty Limited**

Moorebank - 146 Newbridge Road, Moorebank NSW 2170

EPA Licence No: 4612

2021 Annual

**Water Monitoring Requirements:**

Grab samples are required to be taken every 3/6 months.

**Location of Monitoring Points:**

Monitoring Point 9: Boreholes labelled on map titled "Location Plan" submitted to the EPA on 14 March 2003.

**Summary of Results:**

| Pollutant                             | Unit of Measure | 100 Percentile Concentration Limit                      | No. of Samples Required by Licence | No. of Samples Collected & Analysed | Lowest sample value | Highest sample value | Mean of samples | Sample Date |            |            |            |            |           |           |            |            |            |     |         |  |
|---------------------------------------|-----------------|---|------------------------------------|-------------------------------------|---------------------|----------------------|-----------------|-------------|------------|------------|------------|------------|-----------|-----------|------------|------------|------------|-----|---------|--|
|                                       |                 |   |                                    |                                     |                     |                      |                 | 14/01/2021  | 12/02/2021 | 12/03/2021 | 16/04/2021 | 14/05/2021 | 7/06/2021 | 9/07/2021 | 20/08/2021 | 22/09/2021 | 18/10/2021 |     |         |  |
| Alkalinity (as CaCO <sub>3</sub> )    | mg/L            | No limits apply - sampling for monitoring purposes only | 4                                  | 4                                   | 60                  | 78                   | 71              | 78          |            |            |            | 60         |           |           | 70         |            |            | 77  |         |  |
| Aluminium (Al)                        | mg/L            |   | 2                                  | 2                                   | 0.05                | 0.05                 | 0               | 0.05        |            |            |            |            |           |           | 0.05       |            |            |     |         |  |
| Arsenic (As)                          | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |     |         |  |
| Barium (Ba)                           | mg/L            |   | 2                                  | 2                                   | 0.05                | 0.05                 | 0               | 0.05        |            |            |            |            |           |           | 0.05       |            |            |     |         |  |
| Cadmium (Cd)                          | mg/L            |   | 2                                  | 2                                   | 0.0005              | 0.0005               | 0               | 0.0005      |            |            |            |            |           |           | 0.0005     |            |            |     |         |  |
| Chromium (Cr)                         | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |     |         |  |
| Conductivity                          | uS/cm           |   | 4                                  | 4                                   | 6990                | 27600                | 18923           | 27600       |            | 6990       |            |            |           |           | 19600      |            |            |     | 21500   |  |
| Copper (Cu)                           | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |     |         |  |
| Iron (Fe)                             | mg/L            |   | 2                                  | 2                                   | 0.01                | 0.01                 | 0               | 0.01        |            |            |            |            |           |           | 0.01       |            |            |     |         |  |
| Lead (Pb)                             | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.05                 | 0               | 0.005       |            |            |            |            |           |           | 0.05       |            |            |     |         |  |
| Manganese (Mn)                        | mg/L            |   | 4                                  | 4                                   | 0.01                | 0.08                 | 0               | 0.01        |            | 0.08       |            |            |           |           | 0.02       |            |            |     | 0.03    |  |
| Mercury (Hg)                          | mg/L            |   | 4                                  | 4                                   | 0.00005             | 0.00005              | 0               | 0.00005     |            | 0.00005    |            |            |           |           | 0.00005    |            |            |     | 0.00005 |  |
| Nitrate + Nitrite (oxidised Nitrogen) | mg/L            |   | 4                                  | 4                                   | 0.05                | 0.6                  | 0               | 0.31        |            | 0.6        |            |            |           |           | 0.05       |            |            |     | 0.28    |  |
| Nitrogen-Ammonia                      | mg/L            |   | 4                                  | 4                                   | 0.05                | 0.7                  | 0               | 0.05        |            | 0.1        |            |            |           |           | 0.05       |            |            |     | 0.7     |  |
| Organochlorine Pesticides             | ug/L            |   | 2                                  | 2                                   | 0.1                 | 0.1                  | 0               | 0.1         |            |            |            |            |           |           | 0.1        |            |            |     |         |  |
| Phenols                               | mg/L            |   | 2                                  | 2                                   | 0.05                | 0.05                 | 0               | 0.05        |            |            |            |            |           |           | 0.05       |            |            |     |         |  |
| Polycyclic Aromatic Hydrocarbons      | ug/L            |   | 2                                  | 2                                   | 2.5                 | 2.5                  | 3               | 2.5         |            |            |            |            |           |           | 2.5        |            |            |     |         |  |
| Selenium (Se)                         | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |     |         |  |
| Total Dissolved Solids                | mg/L            |   | 4                                  | 4                                   | 4530                | 18000                | 12358           | 18000       |            | 4530       |            |            |           |           | 12800      |            |            |     | 14100   |  |
| Total Organic Carbon                  | mg/L            |   | 4                                  | 4                                   | 2                   | 10                   | 4               | 2           |            | 10         |            |            |           |           | 2          |            |            |     | 2       |  |
| Total Petroleum Hydrocarbons          | ug/L            |   | 2                                  | 2                                   | 50                  | 50                   | 50              | 50          |            |            |            |            |           |           | 50         |            |            |     |         |  |
| Zinc (Zn)                             | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |     |         |  |
| pH                                    | pH              |   |                                    | 10                                  | 10                  | 6.8                  | 7.3             | 7           | 7.2        | 7          | 7.0        | 6.9        | 6.8       | 7.1       | 7.3        | 7.1        | 7.0        | 7.3 |         |  |

**Sampling frequency**

|                |
|----------------|
| Every month    |
| Every 3 months |
| Every 6 months |



**Benedict Industries Pty Limited**

Moorebank - 146 Newbridge Road, Moorebank NSW 2170

EPA Licence No: 4612

2021 Annual

**Water Monitoring Requirements:**

Grab samples are required to be taken every 3/6 months.

**Location of Monitoring Points:**

Monitoring Point 10: Boreholes labelled on map titled "Location Plan" submitted to the EPA on 14 March 2003.

**Summary of Results:**

| Pollutant                             | Unit of Measure | 100 Percentile Concentration Limit                      | No. of Samples Required by Licence | No. of Samples Collected & Analysed | Lowest sample value | Highest sample value | Mean of samples | Sample Date |            |            |            |            |           |           |            |            |            |     |         |  |
|---------------------------------------|-----------------|---|------------------------------------|-------------------------------------|---------------------|----------------------|-----------------|-------------|------------|------------|------------|------------|-----------|-----------|------------|------------|------------|-----|---------|--|
|                                       |                 |   |                                    |                                     |                     |                      |                 | 14/01/2021  | 12/02/2021 | 12/03/2021 | 16/04/2021 | 14/05/2021 | 9/06/2021 | 9/07/2021 | 20/08/2021 | 22/09/2021 | 18/10/2021 |     |         |  |
| Alkalinity (as CaCO <sub>3</sub> )    | mg/L            | No limits apply - sampling for monitoring purposes only | 4                                  | 4                                   | 115                 | 170                  | 151             | 170         |            |            |            | 170        |           |           | 115        |            |            | 150 |         |  |
| Aluminium (Al)                        | mg/L            |   | 2                                  | 2                                   | 0.05                | 0.05                 | 0               | 0.05        |            |            |            |            |           |           | 0.05       |            |            |     |         |  |
| Arsenic (As)                          | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |     |         |  |
| Barium (Ba)                           | mg/L            |   | 2                                  | 2                                   | 0.05                | 0.05                 | 0               | 0.05        |            |            |            |            |           |           | 0.05       |            |            |     |         |  |
| Cadmium (Cd)                          | mg/L            |   | 2                                  | 2                                   | 0.0005              | 0.0005               | 0               | 0.0005      |            |            |            |            |           |           | 0.0005     |            |            |     |         |  |
| Chromium (Cr)                         | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |     |         |  |
| Conductivity                          | uS/cm           |   | 4                                  | 4                                   | 1230                | 1770                 | 1470            | 1230        |            |            | 1370       |            |           |           | 1510       |            |            |     | 1770    |  |
| Copper (Cu)                           | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |     |         |  |
| Iron (Fe)                             | mg/L            |   | 2                                  | 2                                   | 0.02                | 0.04                 | 0               | 0.02        |            |            |            |            |           |           | 0.04       |            |            |     |         |  |
| Lead (Pb)                             | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |     |         |  |
| Manganese (Mn)                        | mg/L            |   | 4                                  | 4                                   | 0.01                | 0.05                 | 0               | 0.03        |            |            | 0.03       |            |           |           | 0.01       |            |            |     | 0.05    |  |
| Mercury (Hg)                          | mg/L            |   | 4                                  | 4                                   | 0.00005             | 0.00005              | 0               | 0.00005     |            |            | 0.00005    |            |           |           | 0.00005    |            |            |     | 0.00005 |  |
| Nitrate + Nitrite (oxidised Nitrogen) | mg/L            |   | 4                                  | 4                                   | 0.62                | 3.1                  | 1               | 0.69        |            |            | 0.9        |            |           |           | 3.1        |            |            |     | 0.62    |  |
| Nitrogen-Ammonia                      | mg/L            |   | 4                                  | 4                                   | 0.05                | 0.2                  | 0               | 0.05        |            |            | 0.1        |            |           |           | 0.1        |            |            |     | 0.2     |  |
| Organochlorine Pesticides             | ug/L            |   | 2                                  | 2                                   | 0.1                 | 0.1                  | 0               | 0.1         |            |            |            |            |           |           | 0.1        |            |            |     |         |  |
| Phenols                               | mg/L            |   | 2                                  | 2                                   | 0.05                | 0.05                 | 0               | 0.05        |            |            |            |            |           |           | 0.05       |            |            |     |         |  |
| Polycyclic Aromatic Hydrocarbons      | ug/L            |   | 2                                  | 2                                   | 2.5                 | 2.5                  | 3               | 2.5         |            |            |            |            |           |           | 2.5        |            |            |     |         |  |
| Selenium (Se)                         | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.005                | 0               | 0.005       |            |            |            |            |           |           | 0.005      |            |            |     |         |  |
| Total Dissolved Solids                | mg/L            |   | 4                                  | 4                                   | 800                 | 1160                 | 958             | 800         |            |            | 890        |            |           |           | 980        |            |            |     | 1160    |  |
| Total Organic Carbon                  | mg/L            |   | 4                                  | 4                                   | 6                   | 12                   | 9               | 10          |            |            | 12         |            |           |           | 6          |            |            |     | 7       |  |
| Total Petroleum Hydrocarbons          | ug/L            |   | 2                                  | 2                                   | 50                  | 50                   | 50              | 50          |            |            |            |            |           |           | 50         |            |            |     |         |  |
| Zinc (Zn)                             | mg/L            |   | 2                                  | 2                                   | 0.005               | 0.01                 | 0               | 0.005       |            |            |            |            |           |           | 0.01       |            |            |     |         |  |
| pH                                    | pH              |   |                                    | 10                                  | 10                  | 7.1                  | 8.9             | 8           | 7.9        | 8.4        | 7.2        | 7.6        | 7.1       | 8.1       | 8.9        | 7.5        | 7.6        | 7.9 |         |  |

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