



## SUMMARY OF SUNRICE ENVIRONMENTAL MONITORING DATA

### June 2019 to May 2020

| Licence Number<br>1830 |                                 | LEETON RICE MILL, CALROSE STREET LEETON NSW 2705 |                                    |           |                        |                         |            |                |            |
|------------------------|---------------------------------|--|------------------------------------|-----------|------------------------|-------------------------|------------|----------------|------------|
| Monitoring Point       | Pollutant                       | Units  | 100 percentile Concentration Limit | Frequency | No of Samples Required | No of Samples Collected | Min Result | Average Result | Max Result |
| 36†                    | Phosphine                       | mg/m3  | 27                                 | Annually  | 220                    | 220                     | 0.0        | 2.7            | 20.3       |
|                        | Carbon Dioxide                  | %  |                                    | Annually  |                        |                         | 0.0        | 8.6            | 29.8       |
|                        | Dry gas density                 | kg/m3  |                                    | Annually  |                        |                         | 1.1        | 1.2            | 1.3        |
|                        | Moisture                        | %  |                                    | Annually  |                        |                         | 0.9        | 6.6            | 53.8       |
|                        | Molecular weight of stack gases | g/gram mole                                      |                                    | Annually  |                        |                         | 28.8       | 28.9           | 28.9       |
|                        | Temperature                     | Degrees C  |                                    | Annually  |                        |                         | 0.0        | 19.2           | 43.6       |
|                        | Velocity                        | m/s  |                                    | Annually  |                        |                         | 4.9        | 6.0            | 7.0        |
|                        | Volumetric flow rate            | m3/s   |                                    | Annually  |                        |                         | 0.2        | 0.2            | 0.2        |
| 37†                    | Phosphine                       | mg/m3  | 29                                 | Annually  | 69                     | 69                      | 0.0        | 0.2            | 2.0        |
|                        | Carbon Dioxide                  | %  |                                    | Annually  |                        |                         | 3.0        | 4.7            | 9.5        |
|                        | Dry gas density                 | kg/m3  |                                    | Annually  |                        |                         | 1.1        | 1.2            | 1.2        |
|                        | Moisture                        | %  |                                    | Annually  |                        |                         | 4.7        | 10.2           | 13.3       |
|                        | Molecular weight of stack gases | g/gram mole                                      |                                    | Annually  |                        |                         | 28.8       | 28.8           | 28.8       |
|                        | Temperature                     | Degrees C  |                                    | Annually  |                        |                         | 21.3       | 29.6           | 31.8       |
|                        | Velocity                        | m/s  |                                    | Annually  |                        |                         | 9.1        | 9.8            | 10.7       |
|                        | Volumetric flow rate            | m3/s   |                                    | Annually  |                        |                         | 1.0        | 1.1            | 1.2        |
| 38†                    | Phosphine                       | mg/m3  | 29                                 | Annually  | 69                     | 69                      | 0.0        | 0.2            | 2.0        |
|                        | Carbon Dioxide                  | %  |                                    | Annually  |                        |                         | 3.0        | 4.7            | 9.5        |
|                        | Dry gas density                 | kg/m3  |                                    | Annually  |                        |                         | 1.1        | 1.2            | 1.2        |
|                        | Moisture                        | %  |                                    | Annually  |                        |                         | 4.7        | 10.2           | 13.3       |
|                        | Molecular weight of stack gases | g/gram mole                                      |                                    | Annually  |                        |                         | 28.8       | 28.8           | 28.8       |
|                        | Temperature                     | Degrees C  |                                    | Annually  |                        |                         | 21.3       | 29.6           | 31.8       |
|                        | Velocity                        | m/s  |                                    | Annually  |                        |                         | 9.1        | 9.8            | 10.7       |
|                        | Volumetric flow rate            | m3/s   |                                    | Annually  |                        |                         | 1.0        | 1.1            | 1.2        |
| 39†                    | Phosphine                       | mg/m3  | 12                                 | Annually  | 72                     | 72                      | 0.0        | 0.1            | 0.7        |
|                        | Carbon Dioxide                  | %  |                                    | Annually  |                        |                         | 2.1        | 5.3            | 8.7        |
|                        | Dry gas density                 | kg/m3  |                                    | Annually  |                        |                         | 1.1        | 1.2            | 1.2        |
|                        | Moisture                        | %  |                                    | Annually  |                        |                         | 7.8        | 9.9            | 12.8       |
|                        | Molecular weight of stack gases | g/gram mole                                      |                                    | Annually  |                        |                         | 28.8       | 28.8           | 28.8       |
|                        | Temperature                     | Degrees C  |                                    | Annually  |                        |                         | 22.7       | 28.6           | 30.7       |
|                        | Velocity                        | m/s  |                                    | Annually  |                        |                         | 0.1        | 1.4            | 2.5        |
|                        | Volumetric flow rate            | m3/s   |                                    | Annually  |                        |                         | 0.0        | 0.2            | 0.3        |
| 40†                    | Phosphine                       | mg/m3  | 10                                 | Annually  | 107                    | 107                     | 0.1        | 0.2            | 4.7        |
|                        | Carbon Dioxide                  | %  |                                    | Annually  |                        |                         | 2.3        | 3.6            | 6.9        |
|                        | Dry gas density                 | kg/m3  |                                    | Annually  |                        |                         | 1.2        | 1.2            | 1.2        |
|                        | Moisture                        | %  |                                    | Annually  |                        |                         | 3.8        | 5.4            | 7.2        |
|                        | Molecular weight of stack gases | g/gram mole                                      |                                    | Annually  |                        |                         | 28.8       | 28.8           | 28.8       |
|                        | Temperature                     | Degrees C  |                                    | Annually  |                        |                         | 16.9       | 20.9           | 24.9       |
|                        | Velocity                        | m/s  |                                    | Annually  |                        |                         | 6.5        | 8.0            | 8.5        |
|                        | Volumetric flow rate            | m3/s   |                                    | Annually  |                        |                         | 1.1        | 1.3            | 1.4        |
| 41†                    | Phosphine                       | mg/m3  | 9                                  | Annually  | 86                     | 86                      | 0.0        | 0.2            | 2.7        |
|                        | Carbon Dioxide                  | %  |                                    | Annually  |                        |                         | 1.0        | 2.4            | 4.7        |
|                        | Dry gas density                 | kg/m3  |                                    | Annually  |                        |                         | 1.1        | 1.2            | 1.2        |
|                        | Moisture                        | %  |                                    | Annually  |                        |                         | 7.0        | 10.5           | 13.4       |
|                        | Molecular weight of stack gases | g/gram mole                                      |                                    | Annually  |                        |                         | 28.3       | 28.7           | 28.8       |
|                        | Temperature                     | Degrees C  |                                    | Annually  |                        |                         | 25.4       | 28.6           | 32.1       |
|                        | Velocity                        | m/s  |                                    | Annually  |                        |                         | 1.4        | 3.3            | 4.7        |
|                        | Volumetric flow rate            | m3/s   |                                    | Annually  |                        |                         | 0.1        | 0.2            | 0.3        |
| 43†                    | Phosphine                       | mg/m3  | 8                                  | Annually  | 99                     | 99                      | 0.0        | 0.1            | 0.1        |
|                        | Carbon Dioxide                  | %  |                                    | Annually  |                        |                         | 2.6        | 4.1            | 5.9        |
|                        | Dry gas density                 | kg/m3  |                                    | Annually  |                        |                         | 1.2        | 1.2            | 1.2        |
|                        | Moisture                        | %  |                                    | Annually  |                        |                         | 6.4        | 9.8            | 12.2       |
|                        | Molecular weight of stack gases | g/gram mole                                      |                                    | Annually  |                        |                         | 28.6       | 28.8           | 28.8       |
|                        | Temperature                     | Degrees C  |                                    | Annually  |                        |                         | 23.1       | 25.5           | 27.6       |
|                        | Velocity                        | m/s  |                                    | Annually  |                        |                         | 2.4        | 3.4            | 4.8        |
|                        | Volumetric flow rate            | m3/s   |                                    | Annually  |                        |                         | 0.3        | 0.4            | 0.6        |
| 42†                    | Phosphine                       | mg/m3  | 8                                  | Annually  | 74                     | 74                      | 0.0        | 0.3            | 3.1        |
|                        | Carbon Dioxide                  | %  |                                    | Annually  |                        |                         | 3.9        | 5.1            | 9.1        |
|                        | Dry gas density                 | kg/m3  |                                    | Annually  |                        |                         | 1.2        | 1.2            | 1.2        |
|                        | Moisture                        | %  |                                    | Annually  |                        |                         | 5.2        | 6.5            | 10.6       |
|                        | Molecular weight of stack gases | g/gram mole                                      |                                    | Annually  |                        |                         | 28.8       | 28.8           | 28.8       |
|                        | Temperature                     | Degrees C  |                                    | Annually  |                        |                         | 20.5       | 21.8           | 26.2       |
|                        | Velocity                        | m/s  |                                    | Annually  |                        |                         | 5.0        | 5.7            | 6.0        |
|                        | Volumetric flow rate            | m3/s   |                                    | Annually  |                        |                         | 0.6        | 0.7            | 0.8        |

| Licence Number<br>1833 DENILIQUIN RICE MILL, SALE YARDS ROAD DENILIQUIN NSW 2710 |                                 |             |                                    |           |                        |                         |            |                |            |
|--|---------------------------------|-------------|------------------------------------|-----------|------------------------|-------------------------|------------|----------------|------------|
| Monitoring Point   | Pollutant                       | Units       | 100 percentile Concentration Limit | Frequency | No of Samples Required | No of Samples Collected | Min Result | Average Result | Max Result |
| 1  | Methyl Bromide                  | mg/m3       | 0.35                               | Annually  | 1                      | 2                       | 0.02       | 0.03           | 0.04       |
| 2‡   | Phosphine                       | mg/m3       | 29                                 | Annually  | 58                     | 58                      | 0.00       | 0.13           | 0.44       |
|  | Carbon Dioxide                  | %           |                                    | Annually  |                        |                         | 4.8        | 8.0            | 15.2       |
|  | Dry gas density                 | kg/m3       |                                    | Annually  |                        |                         | 1.2        | 1.2            | 1.2        |
|  | Moisture                        | %           |                                    | Annually  |                        |                         | 2.0        | 3.2            | 4.7        |
|  | Molecular weight of stack gases | g/gram mole |                                    | Annually  |                        |                         | 28.8       | 28.8           | 28.8       |
|  | Temperature                     | Degrees C   |                                    | Annually  |                        |                         | 8.6        | 14.1           | 15.7       |
|  | Velocity                        | m/s         |                                    | Annually  |                        |                         | 9.5        | 17.6           | 18.9       |
|  | Volumetric flow rate            | m3/s        |                                    | Annually  |                        |                         | 0.5        | 0.9            | 0.9        |
| 3‡   | Phosphine                       | mg/m3       | 29                                 | Annually  | 58                     | 58                      | 0.00       | 0.13           | 0.44       |
|  | Carbon Dioxide                  | %           |                                    | Annually  |                        |                         | 4.8        | 8.0            | 15.2       |
|  | Dry gas density                 | kg/m3       |                                    | Annually  |                        |                         | 1.2        | 1.2            | 1.2        |
|  | Moisture                        | %           |                                    | Annually  |                        |                         | 2.0        | 3.2            | 4.7        |
|  | Molecular weight of stack gases | g/gram mole |                                    | Annually  |                        |                         | 28.8       | 28.8           | 28.8       |
|  | Temperature                     | Degrees C   |                                    | Annually  |                        |                         | 8.6        | 14.1           | 15.7       |
|  | Velocity                        | m/s         |                                    | Annually  |                        |                         | 9.5        | 17.6           | 18.9       |
|  | Volumetric flow rate            | m3/s        |                                    | Annually  |                        |                         | 0.5        | 0.9            | 0.9        |
| 4‡   | Phosphine                       | mg/m3       | 29                                 | Annually  | 51                     | 51                      | 0.00       | 0.01           | 0.02       |
|  | Carbon Dioxide                  | %           |                                    | Annually  |                        |                         | 3.9        | 5.5            | 13.1       |
|  | Dry gas density                 | kg/m3       |                                    | Annually  |                        |                         | 1.2        | 1.2            | 1.2        |
|  | Moisture                        | %           |                                    | Annually  |                        |                         | 5.6        | 7.8            | 17.6       |
|  | Molecular weight of stack gases | g/gram mole |                                    | Annually  |                        |                         | 29.0       | 29.2           | 29.2       |
|  | Temperature                     | Degrees C   |                                    | Annually  |                        |                         | 10.9       | 10.9           | 10.9       |
|  | Velocity                        | m/s         |                                    | Annually  |                        |                         | 11.7       | 17.8           | 18.3       |
|  | Volumetric flow rate            | m3/s        |                                    | Annually  |                        |                         | 0.6        | 0.9            | 0.9        |
| 5‡   | Phosphine                       | mg/m3       | 29                                 | Annually  | 74                     | 74                      | 0.0        | 0.3            | 1.2        |
|  | Carbon Dioxide                  | %           |                                    | Annually  |                        |                         | 6.8        | 10.4           | 25.4       |
|  | Dry gas density                 | kg/m3       |                                    | Annually  |                        |                         | 1.2        | 1.2            | 1.2        |
|  | Moisture                        | %           |                                    | Annually  |                        |                         | 1.4        | 2.2            | 3.1        |
|  | Molecular weight of stack gases | g/gram mole |                                    | Annually  |                        |                         | 28.8       | 28.8           | 28.8       |
|  | Temperature                     | Degrees C   |                                    | Annually  |                        |                         | 9.6        | 12.1           | 13.7       |
|  | Velocity                        | m/s         |                                    | Annually  |                        |                         | 8.0        | 8.4            | 9.0        |
|  | Volumetric flow rate            | m3/s        |                                    | Annually  |                        |                         | 0.4        | 0.4            | 0.4        |

\*Yanco BOM Data used for some records of Temperature and Humidity

‡Deniliquin BOM Data used for Temperature