

Tower Power Station
 Licence Number: 5357
 Licence Holder: EDL CSM (NSW) PTY LTD
 Licensee Address: Tower Coal Seam Methane Power Station
 Month: FY 2018-19



| Month | Location of monitoring point | Sampled | Obtained | Published | Pollutant | Units | Monitoring Frequency (Licence) | Licence Limit | Measurement during month | Min | Mean | Max | Exceedance (Yes/No) | |
|---|---|---|----------|-----------|-----------|------------|--------------------------------|---------------|--------------------------|------------|------------|-----|---------------------|--|
| Jul-18 | Point 10 - Ambient air and weather monitoring station | | 8/08/18 | 22/08/18 | NOx | ppb | Continuous | | Continuous | 1 | 11 | 65 | | |
| | | | 8/08/18 | 22/08/18 | O3 | ppb | Continuous | | Continuous | -1 | 19 | 31 | | |
| | Point 11 - Air emissions monitoring | | 30/07/18 | 1/08/18 | NOx | ppm | Continuous | 2132g/min | Continuous | | <2132g/min | | No | |
| | | | 30/07/18 | 1/08/18 | O&G | mg/L | Weekly during any discharge | | 0 | | | | | |
| | Point 8 - First Flush Effluent quality monitoring | | 30/07/18 | 1/08/18 | pH | | Weekly during any discharge | | 0 | | | | | |
| | | | 2/07/18 | 23/07/18 | 1/08/18 | TSS | mg/L | Monthly | 0 | | | | | |
| | | | 2/07/18 | 23/07/18 | 1/08/18 | Salinity | ppt | Monthly | 0 | | | | | |
| | | | 2/07/18 | 23/07/18 | 1/08/18 | O&G | mg/L | Monthly | 1 | | <5 | | | |
| | | | 2/07/18 | 23/07/18 | 1/08/18 | pH | Monthly | 1 | | 7.35 | | | | |
| | | | 2/07/18 | 23/07/18 | 1/08/18 | TDS | mg/L | Monthly | 1 | 147 | | | | |
| | Point 9 - Process Water Effluent quality monitoring | | 2/07/18 | 23/07/18 | 1/08/18 | TSS | mg/L | Monthly | 1 | 2 | | | | |
| | | | 2/07/18 | 23/07/18 | 1/08/18 | Salinity | ppt | Monthly | 1 | 0.176 | | | | |
| | | 12/09/18 | 14/09/18 | NOx | ppb | Continuous | | Continuous | 1 | 7 | 85 | | | |
| | | 12/09/18 | 14/09/18 | O3 | ppb | Continuous | | Continuous | 0 | 21 | 35 | | | |
| Aug-18 | Point 10 - Ambient air and weather monitoring station | | 3/09/18 | 14/09/18 | NOx | ppm | Continuous | 2132g/min | Continuous | | <2132g/min | | No | |
| | | | 3/09/18 | 14/09/18 | O&G | mg/L | Weekly during any discharge | | 1 | | nil | | | |
| | Point 8 - First Flush Effluent quality monitoring | | 3/09/18 | 14/09/18 | pH | | Weekly during any discharge | | 1 | 7.1 | 7.1 | 7.1 | | |
| | | | 2/08/18 | 29/08/18 | 14/09/18 | TSS | mg/L | Monthly | 0 | | | | | |
| | | | 2/08/18 | 29/08/18 | 14/09/18 | Salinity | ppt | Monthly | 0 | | | | | |
| | | | 2/08/18 | 29/08/18 | 14/09/18 | O&G | mg/L | Monthly | 1 | <5 | | | | |
| | Point 9 - Process Water Effluent quality monitoring | | 2/08/18 | 29/08/18 | 14/09/18 | pH | Monthly | 1 | 7.35 | | | | | |
| | | | 2/08/18 | 29/08/18 | 14/09/18 | TDS | mg/L | Monthly | 1 | 164 | | | | |
| | | | 2/08/18 | 29/08/18 | 14/09/18 | TSS | mg/L | Monthly | 1 | 2 | | | | |
| | | | 2/08/18 | 29/08/18 | 14/09/18 | Salinity | ppt | Monthly | 1 | 0.195 | | | | |
| | Sep-18 | Point 10 - Ambient air and weather monitoring station | | 12/10/18 | 22/10/18 | NOx | ppb | Continuous | | Continuous | 1 | 7 | 109 | |
| | | | | 12/10/18 | 22/10/18 | O3 | ppb | Continuous | | Continuous | 0 | 21 | 36 | |
| Point 11 - Air emissions monitoring | | | 18/10/18 | 22/10/18 | NOx | ppm | Continuous | 2132g/min | Continuous | | <2132g/min | | No | |
| | | | 7/06/19 | 13/06/19 | O&G | mg/L | Weekly during any discharge | | 1 | | nil | | | |
| Point 8 - First Flush Effluent quality monitoring | | | 7/06/19 | 13/06/19 | pH | | Weekly during any discharge | | 1 | 7.1 | 7.1 | 7.1 | | |
| | | | 4/09/18 | 21/09/18 | 10/10/18 | TSS | mg/L | Monthly | 0 | | | | | |
| | | | 4/09/18 | 21/09/18 | 10/10/18 | Salinity | ppt | Monthly | 0 | | | | | |
| | | | 4/09/18 | 21/09/18 | 10/10/18 | O&G | mg/L | Monthly | 1 | <5 | | | | |
| Point 9 - Process Water Effluent quality monitoring | | | 4/09/18 | 21/09/18 | 10/10/18 | pH | Monthly | 1 | 6.96 | | | | | |
| | | | 4/09/18 | 21/09/18 | 10/10/18 | TDS | mg/L | Monthly | 1 | 146 | | | | |
| | | | 4/09/18 | 21/09/18 | 10/10/18 | TSS | mg/L | Monthly | 1 | 3 | | | | |
| | | | 4/09/18 | 21/09/18 | 10/10/18 | Salinity | ppt | Monthly | 1 | 0.176 | | | | |
| Oct-18 | Point 10 - Ambient air and weather monitoring station | | 12/11/18 | 15/11/18 | NOx | ppb | Continuous | | Continuous | 1 | 16 | 128 | | |
| | | | 12/11/18 | 15/11/18 | O3 | ppb | Continuous | | Continuous | -1 | 19 | 49 | | |
| | Point 11 - Air emissions monitoring | | 5/11/18 | 7/11/18 | NOx | ppm | Continuous | 2132g/min | Continuous | | <2132g/min | | No | |
| | | | 7/06/19 | 13/06/19 | O&G | mg/L | Weekly during any discharge | | 10 | | nil | | | |
| | Point 8 - First Flush Effluent quality monitoring | | 7/06/19 | 13/06/19 | pH | | Weekly during any discharge | | 10 | 7.25 | 7.72 | 8.1 | | |
| | | | 3/10/18 | 23/10/18 | 7/11/18 | TSS | mg/L | Monthly | 0 | | | | | |
| | | | 3/10/18 | 23/10/18 | 7/11/18 | Salinity | ppt | Monthly | 0 | | | | | |
| | | | 3/10/18 | 23/10/18 | 7/11/18 | O&G | mg/L | Monthly | 1 | <5 | | | | |
| | Point 9 - Process Water Effluent quality monitoring | | 3/10/18 | 23/10/18 | 7/11/18 | pH | Monthly | 1 | 7.54 | | | | | |
| | | | 3/10/18 | 23/10/18 | 7/11/18 | TDS | mg/L | Monthly | 1 | 150 | | | | |
| | | | 3/10/18 | 23/10/18 | 7/11/18 | TSS | mg/L | Monthly | 1 | 1 | | | | |
| | | | 3/10/18 | 23/10/18 | 7/11/18 | Salinity | ppt | Monthly | 1 | 0.182 | | | | |
| Nov-18 | Point 10 - Ambient air and weather monitoring station | | 11/12/18 | 14/11/18 | NOx | ppb | Continuous | | Continuous | 1 | 10 | 105 | | |
| | | | 11/12/18 | 14/11/18 | O3 | ppb | Continuous | | Continuous | -3 | 17 | 60 | | |
| | Point 11 - Air emissions monitoring | | 29/11/18 | 14/11/18 | NOx | ppm | Continuous | 2132g/min | Continuous | | <2132g/min | | No | |
| | | | 7/06/19 | 13/06/19 | O&G | mg/L | Weekly during any discharge | | 5 | | nil | | | |
| | Point 8 - First Flush Effluent quality monitoring | | 7/06/19 | 13/06/19 | pH | | Weekly during any discharge | | 5 | 6.77 | 7.72 | 8.2 | | |
| | | | 5/11/18 | 28/11/18 | 14/11/18 | TSS | mg/L | Monthly | 0 | | | | | |
| | | | 5/11/18 | 28/11/18 | 14/11/18 | Salinity | ppt | Monthly | 0 | | | | | |
| | | | 5/11/18 | 28/11/18 | 14/11/18 | O&G | mg/L | Monthly | 1 | <5 | | | | |
| | Point 9 - Process Water Effluent quality monitoring | | 5/11/18 | 28/11/18 | 14/11/18 | pH | Monthly | 1 | 7.16 | | | | | |
| | | | 5/11/18 | 28/11/18 | 14/11/18 | TDS | mg/L | Monthly | 1 | 149 | | | | |
| | | | 5/11/18 | 28/11/18 | 14/11/18 | TSS | mg/L | Monthly | 1 | 11 | | | | |
| | | | 5/11/18 | 28/11/18 | 14/11/18 | Salinity | ppt | Monthly | 1 | 0.18 | | | | |
| Dec-18 | Point 10 - Ambient air and weather monitoring station | | 11/01/19 | 17/01/19 | NOx | ppb | Continuous | | Continuous | 1 | 10 | 138 | | |
| | | | 11/01/19 | 17/01/19 | O3 | ppb | Continuous | | Continuous | 0 | 18 | 84 | | |
| | Point 11 - Air emissions monitoring | | 3/01/19 | 17/01/19 | NOx | ppm | Continuous | 2132g/min | Continuous | | <2132g/min | | No | |
| | | | 7/06/19 | 13/06/19 | O&G | mg/L | Weekly during any discharge | | 11 | | nil | | | |
| | Point 8 - First Flush Effluent quality monitoring | | 7/06/19 | 13/06/19 | pH | | Weekly during any discharge | | 11 | 6.85 | 7.31 | 8 | | |
| | | | 4/12/18 | 17/12/18 | 21/12/18 | TSS | mg/L | Monthly | 0 | | | | | |
| | | | 4/12/18 | 17/12/18 | 21/12/18 | Salinity | ppt | Monthly | 0 | | | | | |
| | | | 4/12/18 | 17/12/18 | 21/12/18 | O&G | mg/L | Monthly | 1 | <5 | | | | |
| | Point 9 - Process Water Effluent quality monitoring | | 4/12/18 | 17/12/18 | 21/12/18 | pH | Monthly | 1 | 6.68 | | | | | |
| | | | 4/12/18 | 17/12/18 | 21/12/18 | TDS | mg/L | Monthly | 1 | 104 | | | | |
| | | | 4/12/18 | 17/12/18 | 21/12/18 | TSS | mg/L | Monthly | 1 | 13 | | | | |
| | | | 4/12/18 | 17/12/18 | 21/12/18 | Salinity | ppt | Monthly | 1 | 0.123 | | | | |

Note: Point 8 (First Flush) was dry during July. No water sampling conducted.

Note: First flush was empty during sampling

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| | | | | | | | | | | | | |
|---------|---|----------|----------|----------|----------|------------|-----------------------------|------------|----|-------|------------|------|
| Jan-19 | Point 10 - Ambient air and weather monitoring station | 12/02/19 | 15/02/19 | NOx | ppb | Continuous | | Continuous | 1 | 12 | 112 | |
| | | 12/02/19 | 15/02/19 | O3 | ppb | Continuous | | Continuous | -1 | 21 | 94 | |
| | Point 11 - Air emissions monitoring | 14/02/19 | 15/02/19 | NOx | ppm | Continuous | 2132g/min | Continuous | | | <2132g/min | No |
| | Point 8 - First Flush Effluent quality monitoring | | 7/06/19 | 13/06/19 | O&G | mg/L | Weekly during any discharge | | 9 | | nil | |
| | | | 7/06/19 | 13/06/19 | pH | | Weekly during any discharge | | 9 | 6.51 | 7.51 | 8.18 |
| | | 3/01/19 | 1/02/19 | 15/02/19 | TSS | mg/L | Monthly | | 1 | | 1 | |
| | Point 9 - Process Water Effluent quality monitoring | 3/01/19 | 1/02/19 | 15/02/19 | Salinity | ppt | Monthly | | 1 | | 0.387 | |
| | | 3/01/19 | 1/02/19 | 15/02/19 | O&G | mg/L | Monthly | | 1 | | <5 | |
| | | 3/01/19 | 1/02/19 | 15/02/19 | pH | | Monthly | | 1 | | 6.97 | |
| | | 3/01/19 | 1/02/19 | 15/02/19 | TDS | mg/L | Monthly | | 1 | | 165 | |
| 3/01/19 | | 1/02/19 | 15/02/19 | TSS | mg/L | Monthly | | 1 | | 22 | | |
| 3/01/19 | | 1/02/19 | 15/02/19 | Salinity | ppt | Monthly | | 1 | | 0.198 | | |
| Feb-19 | Point 10 - Ambient air and weather monitoring station | 12/03/19 | 15/03/19 | NOx | ppb | Continuous | | Continuous | 1 | 16 | 145 | |
| | | 12/03/19 | 15/03/19 | O3 | ppb | Continuous | | Continuous | -1 | 18 | 95 | |
| | Point 11 - Air emissions monitoring | 1/03/19 | 15/03/19 | NOx | ppm | Continuous | 2132g/min | Continuous | | | <2132g/min | No |
| | Point 8 - First Flush Effluent quality monitoring | | 7/06/19 | 13/06/19 | O&G | mg/L | Weekly during any discharge | | 3 | | nil | |
| | | | 7/06/19 | 13/06/19 | pH | | Weekly during any discharge | | 3 | 7.18 | 7.48 | 7.9 |
| | | 6/02/19 | 27/02/19 | 15/03/19 | TSS | mg/L | Monthly | | 1 | | 4 | |
| | Point 9 - Process Water Effluent quality monitoring | 6/02/19 | 27/02/19 | 15/03/19 | Salinity | ppt | Monthly | | 1 | | 0.297 | |
| | | 6/02/19 | 27/02/19 | 15/03/19 | O&G | mg/L | Monthly | | 1 | | <5 | |
| | | 6/02/19 | 27/02/19 | 15/03/19 | pH | | Monthly | | 1 | | 7.39 | |
| | | 6/02/19 | 27/02/19 | 15/03/19 | TDS | mg/L | Monthly | | 1 | | 117 | |
| 6/02/19 | | 27/02/19 | 15/03/19 | TSS | mg/L | Monthly | | 1 | | 19 | | |
| 6/02/19 | | 27/02/19 | 15/03/19 | Salinity | ppt | Monthly | | 1 | | 0.143 | | |
| Mar-19 | Point 10 - Ambient air and weather monitoring station | 12/04/19 | 12/04/19 | NOx | ppb | Continuous | | Continuous | 1 | 12 | 201 | |
| | | 12/04/19 | 12/04/19 | O3 | ppb | Continuous | | Continuous | -2 | 17 | 70 | |
| | Point 11 - Air emissions monitoring | 2/04/19 | 12/04/19 | NOx | ppm | Continuous | 2132g/min | Continuous | | | <2132g/min | No |
| | Point 8 - First Flush Effluent quality monitoring | | 7/06/19 | 13/06/19 | O&G | mg/L | Weekly during any discharge | | 13 | | nil | |
| | | | 7/06/19 | 13/06/19 | pH | | Weekly during any discharge | | 13 | 6.6 | 7.42 | 7.93 |
| | | 7/03/19 | 26/03/19 | 12/04/19 | TSS | mg/L | Monthly | | 0 | | | |
| | Point 9 - Process Water Effluent quality monitoring | 7/03/19 | 26/03/19 | 12/04/19 | Salinity | ppt | Monthly | | 0 | | | |
| | | 7/03/19 | 26/03/19 | 12/04/19 | O&G | mg/L | Monthly | | 1 | | <5 | |
| | | 7/03/19 | 26/03/19 | 12/04/19 | pH | | Monthly | | 1 | | 4.26 | |
| | | 7/03/19 | 26/03/19 | 12/04/19 | TDS | mg/L | Monthly | | 1 | | 68 | |
| 7/03/19 | | 26/03/19 | 12/04/19 | TSS | mg/L | Monthly | | 1 | | 20 | | |
| 7/03/19 | | 26/03/19 | 12/04/19 | Salinity | ppt | Monthly | | 1 | | 0.078 | | |
| Apr-19 | Point 10 - Ambient air and weather monitoring station | 10/05/19 | 13/05/19 | NOx | ppb | Continuous | | Continuous | 1 | 16 | 359 | |
| | | 10/05/19 | 13/05/19 | O3 | ppb | Continuous | | Continuous | -2 | 15 | 68 | |
| | Point 11 - Air emissions monitoring | 29/04/19 | 13/05/19 | NOx | ppm | Continuous | 2132g/min | Continuous | | | <2132g/min | No |
| | Point 8 - First Flush Effluent quality monitoring | | 7/06/19 | 13/06/19 | O&G | mg/L | Weekly during any discharge | | 9 | | nil | |
| | | | 7/06/19 | 13/06/19 | pH | | Weekly during any discharge | | 9 | 7.01 | 7.2 | 8.4 |
| | | 2/04/19 | 24/04/19 | 13/05/19 | TSS | mg/L | Monthly | | 1 | | 1 | |
| | Point 9 - Process Water Effluent quality monitoring | 2/04/19 | 24/04/19 | 13/05/19 | Salinity | ppt | Monthly | | 1 | | 0.286 | |
| | | 2/04/19 | 24/04/19 | 13/05/19 | O&G | mg/L | Monthly | | 1 | | <5 | |
| | | 2/04/19 | 24/04/19 | 13/05/19 | pH | | Monthly | | 1 | | 7.6 | |
| | | 2/04/19 | 24/04/19 | 13/05/19 | TDS | mg/L | Monthly | | 1 | | 374 | |
| 2/04/19 | | 24/04/19 | 13/05/19 | TSS | mg/L | Monthly | | 1 | | 15 | | |
| 2/04/19 | | 24/04/19 | 13/05/19 | Salinity | ppt | Monthly | | 1 | | 0.432 | | |
| May-19 | Point 10 - Ambient air and weather monitoring station | 12/06/19 | 13/06/19 | NOx | ppb | Continuous | | Continuous | 0 | 13 | 188 | |
| | | 12/06/19 | 13/06/19 | O3 | ppb | Continuous | | Continuous | -2 | 16 | 37 | |
| | Point 11 - Air emissions monitoring | 29/05/19 | 13/06/19 | NOx | ppm | Continuous | 2132g/min | Continuous | | | <2132g/min | No |
| | Point 8 - First Flush Effluent quality monitoring | | 12/06/19 | 13/06/19 | O&G | mg/L | Weekly during any discharge | | 4 | | nil | |
| | | | 12/06/19 | 13/06/19 | pH | | Weekly during any discharge | | 4 | 7.2 | 7.49 | 8.00 |
| | | 3/05/19 | 27/05/19 | 13/06/19 | TSS | mg/L | Monthly | | 1 | | 2 | |
| | Point 9 - Process Water Effluent quality monitoring | 3/05/19 | 27/05/19 | 13/06/19 | Salinity | ppt | Monthly | | 1 | | 0.332 | |
| | | 3/05/19 | 27/05/19 | 13/06/19 | O&G | mg/L | Monthly | | 1 | | <5 | |
| | | 3/05/19 | 27/05/19 | 13/06/19 | pH | | Monthly | | 1 | | 7.18 | |
| | | 3/05/19 | 27/05/19 | 13/06/19 | TDS | mg/L | Monthly | | 1 | | 128 | |
| 3/05/19 | | 27/05/19 | 13/06/19 | TSS | mg/L | Monthly | | 1 | | 4 | | |
| 3/05/19 | | 27/05/19 | 13/06/19 | Salinity | ppt | Monthly | | 1 | | 0.15 | | |
| Jun-19 | Point 10 - Ambient air and weather monitoring station | 12/07/19 | 17/07/19 | NOx | ppb | Continuous | | Continuous | 0 | 15 | 165 | |
| | | 12/07/19 | 17/07/19 | O3 | ppb | Continuous | | Continuous | -1 | 16 | 31 | |
| | Point 11 - Air emissions monitoring | 24/06/19 | 9/07/19 | NOx | ppm | Continuous | 2132g/min | Continuous | | | <2132g/min | No |
| | Point 8 - First Flush Effluent quality monitoring | | 8/07/19 | 9/07/19 | O&G | mg/L | Weekly during any discharge | | 8 | | nil | |
| | | | 8/07/19 | 9/07/19 | pH | | Weekly during any discharge | | 8 | 6.75 | 7.19 | 7.60 |
| | | 4/06/19 | 21/06/19 | 9/07/19 | TSS | mg/L | Monthly | | 1 | | 4 | |
| | Point 9 - Process Water Effluent quality monitoring | 4/06/19 | 21/06/19 | 9/07/19 | Salinity | ppt | Monthly | | 1 | | 0.059 | |
| | | 4/06/19 | 21/06/19 | 9/07/19 | O&G | mg/L | Monthly | | 1 | | <5 | |
| | | 4/06/19 | 21/06/19 | 9/07/19 | pH | | Monthly | | 1 | | 7.48 | |
| | | 4/06/19 | 21/06/19 | 9/07/19 | TDS | mg/L | Monthly | | 1 | | 134 | |
| 4/06/19 | | 21/06/19 | 9/07/19 | TSS | mg/L | Monthly | | 1 | | 7 | | |
| 4/06/19 | | 21/06/19 | 9/07/19 | Salinity | ppt | Monthly | | 1 | | 0.161 | | |

Note: First flush was empty during sampling

Note: Process Water pH was low at the time of sampling. Process water was being stored and removed from site at this time due to maintenance being conducted on the holding pits. No process water irrigated while pH correction system was not in use.

Note: During the 2018-2019 Annual Return Compliance Review, additional Point 11 data (pH and O&G only) was identified for the September 2018 - April 2019 period. Additional data did not identify any water quality exceedances. Data identified 07/06/19. Data republished 13/06/19.