

Indorama Ventures Oxides Australia – Botany Manufacturing Site

Pollution Monitoring data (24 Dec 2021 – 23 Dec 2022)

EPA Licence 7494 Reporting Period

Requirement	Limit	Compliance Statement
<u>EPL Clause L2.2</u> Quantity of Hazardous and/or Liquid waste stored on the premise	< 1500te	Complied

Requirement	Limit	Monitoring Data
<u>EPL Clause L3</u> Noise emanating from all active plants in the BIP (Botany Industrial Park) premises	Day = 65 LAeq Evening = 55 LAeq Night = 50 LAeq	Compliance Report submitted as part of QENOS Pty Ltd Annual Return (Note: Reporting period is Oct 21 – Sep 2022)
<p>Complied. The following were noted</p> <p>May 2022:</p> <ul style="list-style-type: none"> At Points 8, 9, and 10, background noise emissions from Indorama observed between 50 – 52 dB(A) for the duration of the measurement which is marginally above the 50 dB(A) LA90 (15minute) criteria. <p>June 2022:</p> <ul style="list-style-type: none"> noise emissions were observed to range between 49 and 51 dB(A) at Point 8. An LA90 (15minute) of 50.2 dB(A) was recorded at this location. <p>October 2022:</p> <ul style="list-style-type: none"> Noise emissions were observed to range between 49 and 52 dB(A) at Points 8, 9 and 10, with LA90 (15 minute) measurements of 50.5, 50.4 and 50.6 respectively. <p>As set out in Section 11.1.3 of the NSW EPA’s INP, a development is deemed to be in non-compliance with a noise consent or licence condition if the monitored noise level is more than 2dB(A) above the statutory noise limit specified in the consent or licence conditions. In each of the instances above, noise emissions were not more than 2dB(A) above the criteria.</p>		

Requirement	Limit	Compliance Statement
<u>EPL Clause L4</u> Must not cause or permit the emission of any offensive odour from the premises	None	There were no offensive offsite odour incidents attributable to our plant during the reporting period

Requirement	Reporting	Compliance Statement / Monitoring Data
<u>EPL Clause R4.1 – Leak Detection & Repair Program</u> Performance Report must be submitted to EPA as part of EPA Annual Return	To be submitted as part of EPA Annual Return	Submitted as part of EPA Annual Return.
Summary of findings: Number of tests points 5022 Number of Leaking Components 10 (None of which were classified as a Major leak) Total Product loss rate during monitoring period 2021 = 310kg VOC/year (fugitive emissions)		

Requirement	Reporting	Compliance Statement / Monitoring Data									
<u>EPL Clause E2 & E4– Vent Management System Annual Test</u> Annual test must be done to ensure the Vent Management System (VMS) is operating in a proper and efficient manner	To be submitted as part of EPA Annual Return	Submitted as part of EPA Annual Return.									
Summary of findings: <table border="1" data-bbox="209 1081 916 1196"> <thead> <tr> <th>Component</th> <th>Licence Limit</th> <th>Test Result</th> </tr> </thead> <tbody> <tr> <td>Ethylene Oxide</td> <td>0.22 kg/hr</td> <td>< 0.001 kg/hr</td> </tr> <tr> <td>Propylene Oxide</td> <td>6.05 kg/hr</td> <td>< 0.001 kg/hr</td> </tr> </tbody> </table>			Component	Licence Limit	Test Result	Ethylene Oxide	0.22 kg/hr	< 0.001 kg/hr	Propylene Oxide	6.05 kg/hr	< 0.001 kg/hr
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Requirement	Reporting	Compliance Statement / Monitoring Data
<p><u>EPL Clause E3 & E4 – Vent Management System Performance</u></p> <p>Annual test must be done to ensure the Vent Management System (VMS) is operating in a proper and efficient manner</p>	<p>To be submitted as part of EPA Annual Return.</p>	<p>Submitted as part of EPA Annual Return.</p>
<p><u>Summary of findings:</u> There were no breakdowns or failure of the Vent Management System during the reporting period.</p>		
Component	Licence Limit	Test Result
Conductivity	> 80 microsiemens per cm	Compliant
Flowrate	> 24 m3/hr	Compliant with Clarification i.e. The report to the EPA includes clarification on 7 separate low flowrate conditions (pump tests, system test and stoppage during major turnaround)