

**Indorama Ventures Oxides Australia – Botany Manufacturing Site**

**Pollution Monitoring data (24 Dec 2020 – 23 Dec 2021 EPA Licence 7494, 23-Dec-21 Licence Version  
Date Reporting Period)**

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

<b>Requirement</b>	<b>Limit</b>	<b>Monitoring Data</b>
<b>EPL Clause L3</b> 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 20 – Sep 2021)
Complied. The following were noted		
June 2021:		
<ul style="list-style-type: none"> <li>Monitoring location 9: Noise emissions from Indorama were observed between 50 and 52 dB(A). An LA90 (15 minute) of 51dB(A) was recorded.</li> <li>Monitoring location 10: Noise emissions from Indorama were observed between 49 and 51 dB(A). An LA90 (15 minute) of 50.2dB(A) was recorded.</li> </ul>		
July 2021:		
<ul style="list-style-type: none"> <li>Monitoring location 8: Noise emissions from Indorama were observed between 51 and 52 dB(A). An instantaneous peak of 53dB(A) was observed. An LA90 (15 minute) of 51.1 dB(A) was recorded.</li> <li>Monitoring location 9: Noise emissions from Indorama were observed between 49 and 51 dB(A). An LA90 (15 minute) of 49.6 dB(A) was recorded.</li> </ul>		
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.		

<b>Requirement</b>	<b>Limit</b>	<b>Compliance Statement</b>
<b>EPL Clause L4</b> 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

<b>Requirement</b>	<b>Reporting</b>	<b>Compliance Statement / Monitoring Data</b>
<b><u>EPL Clause R4.1 – Leak Detection &amp; Repair Program</u></b> 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.
<u>Summary of findings:</u> Number of tests points 5022 Number of Leaking Components 6 (All categorized as “Minor” leak)  Total Product loss rate during monitoring period 2021 = 354kg VOC/year (fugitive emissions)		

<b>Requirement</b>	<b>Reporting</b>	<b>Compliance Statement / Monitoring Data</b>									
<b><u>EPL Clause E2 &amp; E4– Vent Management System Annual Test</u></b> 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.									
<u>Summary of findings:</u> <table border="1" data-bbox="207 1048 917 1160"> <thead> <tr> <th><b>Component</b></th> <th><b>Licence Limit</b></th> <th><b>Test Result</b></th> </tr> </thead> <tbody> <tr> <td>Ethylene Oxide</td> <td>0.22 kg/hr</td> <td>&lt; 0.001 kg/hr</td> </tr> <tr> <td>Propylene Oxide</td> <td>6.05 kg/hr</td> <td>&lt; 0.001 kg/hr</td> </tr> </tbody> </table>			<b>Component</b>	<b>Licence Limit</b>	<b>Test Result</b>	Ethylene Oxide	0.22 kg/hr	< 0.001 kg/hr	Propylene Oxide	6.05 kg/hr	< 0.001 kg/hr
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<b>Requirement</b>	<b>Reporting</b>	<b>Compliance Statement / Monitoring Data</b>									
<b><u>EPL Clause E3 &amp; E4 – Vent Management System Performance</u></b> 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.									
<u>Summary of findings:</u> There were no breakdowns or failure of the Vent Management System during the reporting period. <table border="1" data-bbox="207 1653 1369 1975"> <thead> <tr> <th><b>Component</b></th> <th><b>Licence Limit</b></th> <th><b>Test Result</b></th> </tr> </thead> <tbody> <tr> <td>Conductivity</td> <td>&gt; 80 microsiemens per cm</td> <td>Compliant</td> </tr> <tr> <td>Flowrate</td> <td>&gt; 24 m3/hr</td> <td>Compliant with Clarification i.e. The report to the EPA includes clarification on 2 separate low flowrate conditions, which lasted approximately 40seconds in total, related to pump trip tests.</td> </tr> </tbody> </table>			<b>Component</b>	<b>Licence Limit</b>	<b>Test Result</b>	Conductivity	> 80 microsiemens per cm	Compliant	Flowrate	> 24 m3/hr	Compliant with Clarification i.e. The report to the EPA includes clarification on 2 separate low flowrate conditions, which lasted approximately 40seconds in total, related to pump trip tests.
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