

NSW Department of Planning and Environment

2022 Annual Report

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Date: January 2023

Revision: 1.0

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1 Executive Summary

1.1 The following approvals are currently held or operated under by the Ixom Botany ChlorAlkali Plant

Table 1: Current approvals and licences

Approval No.	Date last varied	Details of any changes made during reporting period
DA 35/98	26-10-2018	No Change
EPL 20547	19-05-2020	No Change
MHF 10358-01	11-02-2014	No Change. Renewal.
DG 35/03500 (held by	07-07-2019	No Change. Renewal.
Botany Industrial Park)		

IXOM Operations Pty Ltd, Botany ChlorAlkali Plant (CAP) is required to provide an Annual report to DPIE as per condition 47 and 48 of DA 35/98. The last variation of the DA 35/98 was on 26 October 2018, MOD 5 – Repack Facility. CAP is located within the Botany Industrial Park (BIP) in Sydney, New South Wales.

This Annual report covers the period between 1 December 2021 to 30 November 2022 and is following the Compliance Reporting – Post Approval Requirements (CRPAR) guidelines issued May 2020. The report presents those relevant conditions pertaining to the current operations of the plant.

In summary, the self-assessment Annual report as follow;

- There were no reportable incidents associated with IXOM CAP during the reporting incident.
- No non-compliance in environmental monitoring points.
- A 3-year periodic Independent Environmental Audit was conducted during the reporting period. The audit identified four (4) non-compliances to the conditions of consent DA 35/98. One non-compliance was identified against EPL 20547.
- Actual production is slightly lower than the previous year. This is due to the reduced plant uptime driven by high number of shut (recovering from COVID-19 delayed Preventive Maintenance Activities) and a number of plant reliability issues (brine issues on start-up, Electrolyser downtime).
- Effluent discharge increased from last year due to the highest rainfall recorded in Sydney. The increased in effluent is also contributed by the brine purge from startups following a shut. Botany CAP increased the number of shuts during the reporting period.

2 Introduction

2.1 Site Overview

Table 2: Site Details

Project Name and DA	Replacement of Chlor-Alkali Plant at Botany, DA35/98 (Ref.
number	R98/00010)
Site Address	16-20 Beauchamp Road, Matraville NSW 2036
Industrial Complex	Botany Industrial Park (BIP)
Local Government Authority	City of Sydney
Site Area	BIP – 70 hectares
	Site – 23 hectares
Locality Map	Appendix A
Site Plan	Appendix A
Current Use	Botany ChlorAlkali Plant
Lot No.	LOT 1101 DP 1227173, LOT 1102 DP 1227173, LOT 1103 DP
	1227173, LOT 1104 DP 1227173, PART LOT 1115 DP 1227173
Site Owner	Orica Limited owns approximately 40% of land at the BIP
Reporting Period	1 December 2021 – 30 November 2022

The facility manufactures chlorine and caustic soda from the electrolysis of salt. Hydrogen is produced as a by-product. The four main products produced are sodium hypochlorite (referred to as 'Hypo'), hydrochloric acid, caustic soda and ferric chloride.

The chlorine produced on site is used in the manufacture of hydrochloric acid, hypo and ferric chloride, with these downstream processes being collectively referred to as product plants. All chlorine produced at Ixom Botany ChlorAlkali facility is consumed in the product plants.

The plant can produce 31,200 tonnes per annum (TPA) of chlorine assuming 95% uptime. All chlorine is reacted to produce the following product range:

- HCI (~45,000 TPA)
- Hypo (~60,000 KLPA)
- Ferric chloride (~15,000 TPA)
- Sodium hydroxide (Caustic ~36,000 TPA as 50%) (co-product of chlorine manufacturing process).

2.2 Key Contacts for Environmental Management

Table 3: Environmental Contacts for Ixom Botany ChlorAlkali Plant

Name	Position	Contact Details
lan Parker	Regional Manufacturing Manager	02 9352 2254
	 NEA and WA 	0400 686 047
		lan.Parker2@ixom.com
Ben Pagarigan	Compliance Manager NEWA	02 9352 2123
		0476 410 458
		Benedick.Pagarigan@ixom.com
Richard Benson	Environmental Advisor & BIP	02 8336 1357
	Operations Manager	0409 558 127
		Richard.Benson@qenos.com

3 Compliance Status Summary

Table 4: Summary of Non-compliances

Approval No.	Number of Non- Compliances	Identified During
DA 35/98	21	Independent Environmental Audit (4) Safework Visit (5)
		MHF Post Licence Verification (12)
EPL 20547	1	Independent Environmental Audit

Table 5: Monitoring Methodology (Relevant Conditions)

Approval No.	Conditions	Monitoring Methodology	Evidence and Comments
DA 35/98	11	Ongoing Hazards Management – Hazard Analysis due every 3 years	Non-Compliant – Completed in December 2021 (Due December 2020)
	12	Incident Reporting	Compliant - Refer to Section 6
	13	Hazard Audit – Required 3 every 3 years	Compliant – Completed in March 2021
	24	Independent Environmental Audit – Required every 3 years	Compliant – Audit conducted on December 2022
	47	Annual report - Commercial Traffic Movements	Compliant - See Appendix A
	48	Annual report - Environmental performance	Compliant - See Appendix B
	48	Annual report - Community Complaints	Compliant - Refer to section 7

Appendix C contains the Compliance Table. Section 4 shows the non-compliances identified during the reporting period.

4 Non-Compliances

Table 6: non-compliances during the reporting period

Condition	Compliance Requirement	Non-Compliance	Non- compliance Date	Date Identified	Source	Action	Due	Status
Schedule 2 CoA 10D	Prior to commissioning, the Applicant must update the Fire Safety Study under Condition 9, and the Emergency Plan and Safety Management System under Condition 10 to include all aspects relevant to MOD 5. Commissioning must not commence until Fire Safety Study recommendations have been considered and, where appropriate, acted upon.	Non-Compliance (2022 IEA NC 001) – The Fire Safety Study was not updated prior to the commissioning of MOD 5. It is noted that IXOM's Fire Risk Management Plan was updated prior to the commissioning of MOD 5, but it relied on the existing Fire Safety Studies undertaken in 2000 for Orica and the BIP.	October 10, 2022	October 10, 2022	2022 IEA	Update the Fire Safety Study and where necessary the IXOM Fire Risk Management Plan based on the updated Fire Safety Study.	June 30, 2024	Open
Schedule 2 CoA 11	ONGOING HAZARDS MANAGEMENT Three years after the commencement of operations of the proposed development or within such further period as the Secretary may agree, the Applicant shall update the hazard analysis for the Chlor-alkali and derivatives complex at the Applicant's expense. This analysis shall be forwarded to the Secretary for approval. Further updates will be required every three years or as may be requested by the Secretary. The analysis shall be prepared in accordance with the Department of Urban Affairs and Planning's Hazardous Industry planning Advisory Paper No. 6, Guidelines for Hazard Analysis. This report shall cover individual fatality, injury and irritation risk and societal risk using the most recently available population and meteorological data.	Non-Compliance (2022 IEA NC 002) - The 2020 Quantitative Risk Assessment (QRA) was not undertaken in 2020 as required. It was undertaken in 2021.	December 21, 2020	October 10, 2022	2022 IEA	This non-compliance was already addressed prior to the EIA. A Recurring velocity reminder was already set up for QRA to be conducted in 2024.	October 10, 2022	Closed
Schedule 2 CoA 18	All parking spaces must be drained, sealed and line marked to the satisfaction of Botany Bay City Council.	Non-Compliance (2022 IEA NC 003) - Site observations of the visitor's car parking area by the Auditor noted a number of areas where the bitumen/asphalt paving has degraded and become potholed. In addition, the line markings have faded.	October 10, 2022	October 10, 2022	2022 IEA	IXOM to advise landlord (Orica) of non-compliance with respect to the sealing and line marking requirements of Schedule 2 CoA 18 in relation to the visitor's carpark and request maintenance be undertaken to address the identified non-compliance.	April 30, 2023	Open

Condition	Compliance Requirement	Non-Compliance	Non- compliance Date	Date Identified	Source	Action	Due	Status
Schedule 2, CoA 35	No later than one month prior to the start of operation, the Applicant must prepare to the satisfaction of the EPA, a Noise Management Plan to address operating the proposed development in accordance with the Site Noise Reduction Program.	Non-Compliance (2022 IEA NC 004) - The Auditor notes that IXOM has provided the EPA a copy of the Noise Management Plan on 7 June 2021 which is after the commencement of the Repack Facility (MOD 5) operations and not before as required by Schedule 2 CoA 35.	October 10, 2022	October 10, 2022	2022 IEA	The Noise Management Plan was already submitted to EPA on 7 th June 2021.	June 7, 2021	Closed
EPL 01.1	Licensed activities must be carried out in a competent manner. This includes: a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.	Non-Compliance (2022 IEA NC 005) - During the on-site component of the 2022 IEA, the caged chemical storage area attached to the Flammable Storage Room was not secure (i.e. cyclone wire mesh panel missing from frame of gate/door).	October 10, 2022	October 10, 2022	2022 IEA	Repair and secure the caged chemical storage area near the Flammable Storage Room (Completed on the day of the audit)	October 10, 2022	Closed

5 Previous report actions

Previous report actions which have been undertaken during the reporting period.

Table 7: Actions required from previous Annual Review

Actions required	Source	Progress	Comments
No actions required from previous report			

6 Incidents

During the reporting period there were no incidents or non-compliances against the conditions of any relevant permit, license or approval for the Ixom Botany ChlorAlkali Plant.

6.1 Incidents Register

Table 8: Incidents Register

Nature of incident	Relevant conditions	Date of incidents	Status of Report
No reportable incidents for the reporting period.			

7 Complaints

During the reporting period there were no incidents or non-compliances against the conditions of any relevant permit, license or approval for the Ixom Botany ChlorAlkali Plant

The Botany Industrial Park (BIP) maintains an up to date website for the public that provides the following information:

- Minutes of the BIP Community Consultative Committee (BIPCC)
- Community Hotline
- Contacts for Regulators
- Items of interest including updates where appropriate.
- Commitments to Safety

Ixom maintains an up to date public website that provides the following information:

- Information about the Botany ChlorAlkali plant
- Details of Licence conditions
- Contact details for more information on the facility
- Map of licensed discharge points
- Results of monthly air quality monitoring
- Safety Management system
- Emergency Response including PIRMP
- Actions for the public to take in the event of an emergency
- Pollution Notification Process

There were two BIPCCC meetings held in the reporting period, on 30th March 2022 and 19th October 2022. Ian Parker, Regional Manufacturing Manager for NEA and WA attended the meeting on March 2022, and Nick Brazil, Botany Operations Manager, attended as representative for Ixom on October 2022.

No public complaint recorded against Ixom via community hotline during the reporting period.

7.1 Complaints Register

Table 8: Complaints Register

Nature of complaints	Date of complaint	Status of Report
No complaints recorded against Ixom		

8 Independent Environmental Audit

A three yearly Independent Environmental Audit was conducted at the Botany CAP site by WSP on the 10th-11th of October 2022. The requirement of an Independent Environmental Audit forms part of the Conditions of Consent relevant for the Development Action (DA) number 35/98, which specifies that the Applicant must submit an independent environmental audit of the development in accordance with ISO 14011 – Procedures for Environmental Auditing (or equivalent).

There are 5 findings in this audit. The details of this findings can be found in Table 4. 3 of the recommendations were closed, while the 2 open actions will be included in the next reporting period.

9 Appendices

9.1 Appendix A – Production and Truck Movements

9.1.1 Production Metrics

The period covered by this report saw a slight decrease in production compared to the previous year and slightly below forecast. The plant achieved an uptime rate of 87%. Botany CAP conducted higher number of shutdowns during the reporting period to complete the delayed Preventive Maintenance activities impacted by COVID-19. A number of plant reliability issues were also encountered such as brine issues on start-up (2 weeks impact). The chemical composition of raw feed (salt) was changed due to the amount of rainfall received in March 2022. The salt is stored in an open area.

Truck movements (figures reported below include both inwards and outwards movements – i.e. one truck entering the facility to load then exiting is counted as two truck movements), the number of truck movements has increased in 2022. Table 9 and Figure 1 show a summary of key metrics for the facility over this reporting period compared to previous years.

Table 9: Production Metrics Summary

Reporting Requirement	Limit	Previous reporting period (2021 actual))	This reporting period (2022 actual)	Next reporting period (forecast)
Traffic movements into and out of site	N/A	18574	19504	19624
Hours spent by loaded chlorine road tankers on site	4380	0	0	0
Production (100% caustic)	N/A	30499	29798	29981

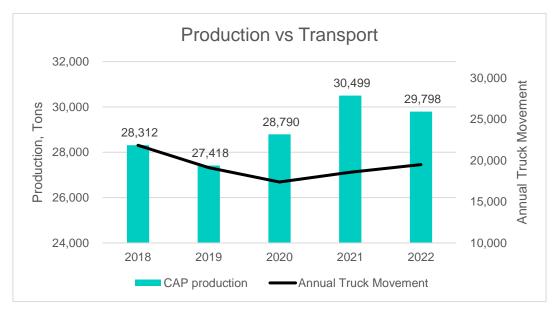


Figure 1: Truck Movements vs Production

9.2 Appendix B – Environment performance

9.2.1 Environmental Performance table

Table 10 details the key environmental performance parameters for the Ixom Botany ChlorAlkali Plant.

Table 10: Environmental Performance

Aspect	Approval criteria / EIS prediction	Performance during the reporting period	Trend / key management implications	Implemented/propos ed management actions
Noise	Day – 65 LAeq Evening – 55 LAeq Night - 50 LAeq (Limits from EPL 20547, Section L4.2). Monitoring location 8 in the noise report, is the only location the receiver is impacted by Ixom Operations	Compliant. Noise monitoring from December 2021 to November 2022 was undertaken by Wolfpeak Pty Ltd From the reports, the samplings at location 8 were observed to be below 50 dB(A) LAeq (15minute) when measured at the nearest residential receiver and complied with the applicable EPL conditions.	Based on the report comments the high results were dominated by sources not related to site Ixom operations. The main contributors were passing traffic (mostly dominant)	No action required
Air quality	There are 3 licenced discharge points at the Ixom Botany ChlorAlkali plant: Point 1 (Figure 2) Hypochlorite Backing Tower. Discharge limit = 200mg/m³ Chlorine, Monitored Continuously	Compliant. Air quality data is reported on the Ixom website each month and is included as the weblink in this section of the report.	Results are consistent with that of previous years. See graphs below.	No action required

	Point 2 Absorption Tail Tower. Discharge limit = 30mg/m³ Hydrogen Chloride. Measured quarterly Point 3 (Figure 3) Emergency Chlorine Vent. No discharge limit in EPL, statutory limit from Schedule 4 of the POEO act of 200mg/m³ used for reference. Monitored Continuously			
Biodiversity	The EIS identified that there was no expected impact on Biodiversity from the operation of the Ixom Botany ChlorAlkali Plant	No impact	None identified	No action required
Heritage	The EIS identified that there was no expected impact on Aboriginal, Natural or Urban Heritage items, relics or places from the operation of the Ixom Botany ChlorAlkali Plant	No impact	None identified	No action required
Flora and Fauna	The EIS indicated that no flora or fauna were expected to be directly affected by the operation of the Ixom Botany ChlorAlkali Plant	No impact	None identified	No action required
Amenity	The premises and operations shall be conducted in such a manner as not to interfere with, or materially affect, the amenity of the neighbourhood by reason of noise, vibration, smell, fumes, vapour, steam, soot, ash, dust, waste water, waste products, grit, oil, or otherwise. The occupier of the premises shall not cause, permit, or allow the emission of any odorous air impurity from the development such that it can be detected outside the property boundaries by its odour. (DA 35/98 conditions 37 and 38)	Compliant. There were no instances of material harm affecting the amenity of the neighbourhood by reason of noise, vibration, smell, fumes, vapour, steam, soot, ash, dust or waste products. There were no reports of odorous material from the development detected outside the property boundaries. There were no community complaints received in the reporting period related to the Ixom Botany ChlorAlkali Plant or its operation.	None identified	No action required

9.2.2 Air Monitoring

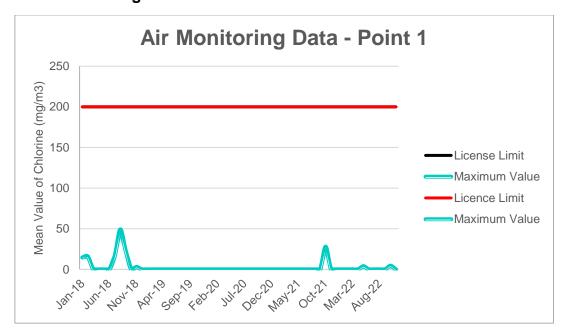


Figure 2: Point 1 Air Monitoring Data Jan 2018 - November 2022

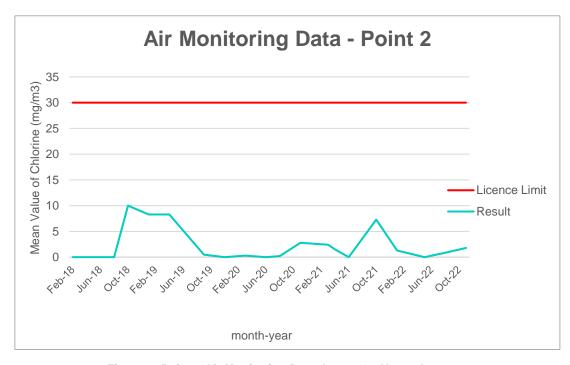


Figure 3: Point 2 Air Monitoring Data Jan 2018 - November 2022

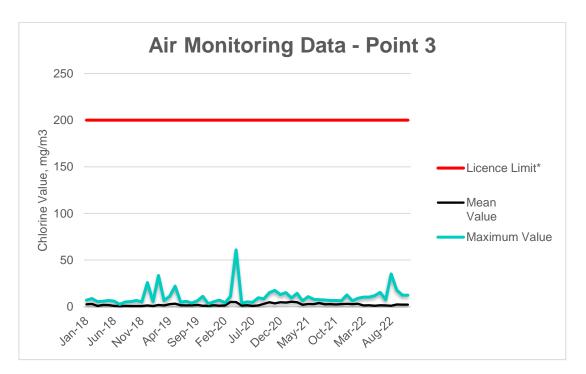


Figure 4: Point 3 Air Monitoring Data Jan 2018 - November 2022

Note: Historical data is available through the Ixom website: https://www.ixom.com/being-responsible/environmental-monitoring-data/botany

9.2.3 Water Usage

Potable water is supplied to the Ixom Botany site through the BIP Site Utilities. Water usage for the reporting period is shown in Table 11.

Table 11: Water Usage

	Previous Reporting Period (Dec 2020 – Nov 2021)	Current Reporting Period (Dec 2021 – Nov 2022)
Potable Water Consumed (KL)	106,336	116,089
Recycled Water Consumed (KL)	153,443	108,319
Water Incorporated in Product (KL)	137,028	136,914
Effluent Discharged to BIP Trade- Waste System (KL)	64,807	91,767

The effluent discharged increased significantly due to the amount of rainfall received in 2022. The number of brine purge coming from start-ups following a shut.

The Site Stormwater and Effluent System are managed by BIP Site Utilities.

Effluent from the Ixom ChlorAlkali Plant is collected and processed in one of two automated effluent treatment tanks. These tanks each accumulate the plant effluent then dose acid or caustic into the tanks to control the pH to a consistent and acceptable level. When the target pH is achieved, the tanks are discharged to the EP6 effluent collection pit where flow and pH are continuously measured and recorded. The effluent then joins the other effluent streams from the other facilities at the Botany Industrial Park and flows to the Site Utilities effluent

^{*} Statute limit as per Schedule 4 of POEO (Clean Air) Regulation

system. In this facility, the effluent is monitored, and the pH adjusted where required to achieve permissible effluent standards before discharge from site.

The stormwater from the facility is collected through clearly labelled stormwater drains and flows to the Site Utilities stormwater system. The stormwater is continuously monitored for flow and pH. If the pH of the stormwater exceeds the permissible limits, the stormwater is automatically diverted to the Site Utilities effluent system where is it further treated through a pH adjustment in order to meet the required specifications prior to discharge.

Figure 5 shows the monthly effluent discharge for the reporting period. There was a spike of the line which was due to number of days having heavy rainfalls. According to the Bureau of Meteorology, 2022 was Sydney's wettest year on record.

9.2.4 Effluent Discharge

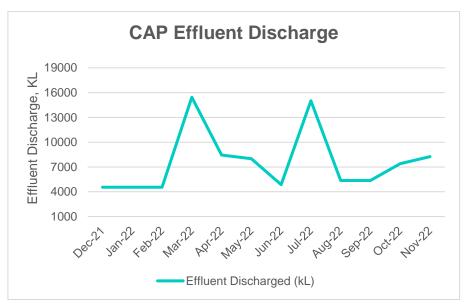


Figure 5: Effluent Discharged from Ixom CAP - Monthly

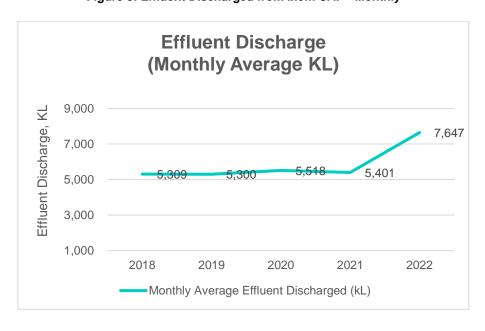


Figure 6: Year on year change in effluent discharged from site

9.3 Appendix C – Compliance Table

Compliance Status Descriptors

Compliant Sufficient verifiable evidence to demonstrate that all elements of the requirements have been complied with.

Non-compliant A non-compliant with one or more elements of the requirements

Not triggered A requirement has an activation or timing trigger that has not been met at the phase of the development when the compliance assessment is undertaken,

therefore an assessment of compliance is not relevant.

Condition of Consent	Compliance Requirement	Development Phase	Evidence and Comments	Compliance Status
Schedule 2 CoA 1	The Applicant must carry out the development generally in accordance with: a) the Environmental Impact Statement dated June 1998, prepared by Dames & Moore Pty Ltd and drawing number B73359 RevA; b) modification application MOD-180-11-2005-i with respect to replacement of the sodium hypochlorite loading bays; upgrade of sodium the hypochlorite tank farm; and replacement of the technicians' changing room; and c) modification application MOD-12-1-2006 with respect to the demolition of the decommissioned ChlorAlkali plant buildings at the Botany Industrial Park; d) the letter to the Department dated 4 May 2006 prepared by Robert Evans, Site Environment Engineer, Orica relating to hazard reduction measures; e) MOD 3 to relocate the sodium hypochlorite plant; (f) modification application 35/98 Mod 4, in relation to replacement of caustic tanks lodged with the Department of Planning and Infrastructure on 13 April 2012 and accompanied by an environmental assessment prepared by Parsons Brinckerhoff dated May 2012; and (g) modification request 35/98 MOD 5, including supporting documentation prepared by IXOM Operations Pty Ltd dated 27 June 2018, 31 August 2018 and 9 October 2018; and (h) the conditions of this consent.	At all times	Refer to audit evidence associated with the 2022 IEA as documented against each of the conditions of approval associated with Schedule 2 of Development Consent 35/98 as presented in this audit checklist.	Compliant
Schedule 2 CoA 1A	If there is any inconsistency between the plans and documentation listed under Condition 1 above, the most recent document shall prevail to the extent of the inconsistency. However, conditions of this consent prevail to the extent of any inconsistency.	At all times		Not Triggered
Schedule 2 CoA 1B	The Applicant must construct the spill containment area of the caustic tanks in accordance with: AS 3780-2008 The storage and handling of corrosive substances.	Construction		Not Triggered
Schedule 2 CoA 1C	In addition to meeting the specific performance criteria established under this consent, the Applicant must implement all reasonable and feasible measures to prevent and/or minimise harm to the environment that may result from the development.	At all times	EPA Annual Report submitted to the EPA. Internal procedure to conduct annual due diligence check and 3-yearly legal review of the report.	Compliant

Schedule 2 CoA 1D	The Applicant must comply with all written requirement(s) of the Planning Secretary arising from the Departments assessment of: (a) Any strategies, plans, programs, reviews, audits, reports or correspondence that are submitted in accordance with this consent (including any stages of these documents); and (b) The implementation of any actions or measures contained within these documents.	At all times	1. IXOM 2021 Annual Report for DPIE (January 2022, Rev 1.0). 2. IEA Report Submission through DPIE Major Projects Portal - document received 22/12/2022	Compliant
Schedule 2 CoA 1E	The Applicant must ensure all buildings and structures, and any alterations or additions to the existing buildings and structures are constructed in accordance with the relevant requirements of the National Construction Code.	Construction	IXOM Chlor-Alkali Facility Independent Environmental Audit 2019 (AECOM, 19 December 2019). Bayside Council Occupation Certificate dated 31 March 2020 (Certificate Number: CC- 2019/72) for Chemical Repack Facility.	Compliant
Schedule 2 CoA 2	At no time must the existing Chlor-alkali plant and the proposed Chlor- alkali plant operate simultaneously.	At all times		Not Triggered
Schedule 2 CoA 3	The existing bulk chlorine storage tanks must be purged no later than 6 months after the date of commissioning of the proposed development.	Within 6 Months After Commissioning		Not Triggered
Schedule 2 CoA 4	Within 6 months from the date of this consent, the Applicant must prepare for the approval of the Secretary a report detailing the proposed timetable and procedures for decommissioning the existing Chlor-alkali plant and commissioning of the proposed Chlor-alkali plant.	Within 6 Months After Commissioning		Not Triggered
COMPLIANC				
Condition of Consent	Compliance Requirement	Development Phase	Evidence and Comments	Compliance Status
Schedule 2 CoA 5	The Applicant must comply with all the reasonable requirements of the Secretary of Urban Affairs and Planning (the Secretary) in respect of the implementation of measures arising from the following conditions of development consent. Further, the Applicant must bring to the attention of the Secretary any matter that may require further investigation and the issuing of instructions from the Secretary. The Applicant must implement those instructions to the satisfaction of the Secretary within such time as the Secretary may specify.	At all times		Not Triggered
Schedule 2 CoA 6	The Applicant must meet reasonable requirements of all public authorities having statutory responsibilities in respect of the proposed developments.	At all times	IXOM – Risk Based Licensing Documents (7 June 2021 email with attachments sent to NSW EPA. NSW EPA issued Environment Protection Licence (EPL) 20547. SafeWork NSW Licence to operate a major hazard facility. Licence Number: 20-15-61, date granted 22 December 2020, expiry date 23 December 2023, facility number 20-15. Notification of Dangerous Goods on Premises Form FDG01 (dated 4 July 2022) by Botany Industrial Park (BIP).	Compliant

COMPLIANCE	E REPORTING			
Condition of Consent	Compliance Requirement	Development Phase	Evidence and Comments	Compliance Status
Schedule 2 CoA 7	PRE-CONSTRUCTION At least one month prior to the commencement of substantial construction, or within such period as otherwise agreed by the Secretary, the Applicant must submit for the approval of the Secretary a compliance report detailing compliance with all the relevant conditions that apply prior to the commencement of substantial construction. The pre-construction compliance report should include: (a) the dates of submissions of the various studies and. or requirements of various conditions, and of their approvals and terms of approvals; (b) action taken or proposed to implement the recommendations made in terms of approvals and/or studies.	Pre-construction		Not Triggered
Schedule 2 CoA 8	PRE-STARTUP The Applicant must submit to the Secretary a report detailing compliance with Conditions 9 and 10(a) one month prior to the commencement of operation of MOD 3.	Pre-startup		Not Triggered
HAZARD MAI	NAGEMENT			
Condition of Consent	Compliance Requirement	Development Phase	Evidence and Comments	Compliance Status
Schedule 2 CoA 9	PRE-CONSTRUCTION Prior to commencement of construction of MOD 4 the Applicant must prepare a Construction Safety Study consistent with the Department of Planning's Hazardous Industry Planning Advisory Paper No. 7 'Construction Safety Study Guidelines'.	Pre-construction		Not Triggered

Condition of Consent Schedule 2 CoA 10A	PRE-CONSTRUCTION Prior to the completion of detailed design, the applicant must consult with SafeWork NSW on the identification and implementation of the controls to reduce risks so far as reasonably practicable.	Development Phase Pre-construction	Evidence and Comments	Compliance Status Not Triggered
Schedule 2 CoA 10	period as the Planning Secretary may agree, the Applicant must prepare and submit for the approval of the Secretary: (a) Emergency Plan Prior to commissioning MOD 3, the Applicant must develop a new or updated Emergency Plan. The plan must be consistent with the Department of Planning's Hazardous Industry Planning Advisory Paper No. 1 'Industry Emergency Planning Guidelines'. (b) Safety Management System A comprehensive safety management system, covering all operations on- site and associated transport activities. The system should clearly specify all safety related procedures, responsibilities and polies, along with details of mechanisms for ensuring adherence to procedures. Records must be kept on-site and should be available for inspection by the Planning Secretary upon request. The Safety Management System should be developed in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 9, Safety Management. Where there is an existing plant or site system, the condition of consent will be considered satisfied by the updating of that system. The Safety Management System shall also detail the procedures for testing and ensuring continuous time and date functionality of all systems including embedded systems associated with the Chlor-alkali and Derivatives complex.	Pre-operation		Not Triggered
	PRE-OPERATION At least two months prior to the commencement of operation of the proposed development, or within such further			

Schedule 2 CoA 10B	The Applicant must prepare the studies set out under (a) and (b) below (the pre-construction studies). Construction, other than of preliminary works that are outside the scope of the hazard studies, must not commence until the study recommendations have been considered and, where appropriate, acted upon. The Applicant must submit the studies to the Planning Secretary no later than one month prior to the commencement of construction of MOD 5 (other than preliminary works), or within such further period as the Planning Secretary may agree: (a) CONSTRUCTION SAFETY STUDY Construction Safety Study for the MOD 5, prepared in accordance with the Department of Planning's Hazardous Industry Planning Advisory Paper No. 7, 'Construction Safety' guideline. The study must include and not be limited to identifying hazards and safeguards relevant to commissioning of the Repack facility. (b) HAZARD AND OPERABILITY STUDY A Hazard and Operability Study for MOD 5, chaired by a qualified person, independent of the modified development, approved by the Planning Secretary prior to the commencement of the study. The study must be consistent with the Department of Planning's Hazardous Industry Planning Advisory Paper No. 8, 'HAZOP Guidelines'. The study report must be accompanied by a program for the implementation of all recommendations made in the report. If the Applicant intends to defer the implementation of a recommendations made in the report. If the Applicant intends to defer the implementation of a recommendations made in the report. If the Applicant intends to defer the implementation of a recommendations made in the report. If the Applicant intends to defer the implementation of a recommendation smade in the report. If the Applicant intends to defer the implementation of a recommendation smade in the report. If the Applicant intends to defer the implementation of a recommendation smade in the report. If the Applicant intends to defer the implementation of a recommendation smade in the report. If the Applicant intends to de	Pre-construction		Not Triggered
Schedule 2 CoA 10C	PRE-COMMISSION Prior to operating the new operation under MOD 5, the Applicant must implement the controls required to reduce risk so far as is reasonably practicable.	Pre-commission		Not Triggered
Schedule 2 CoA 10D	Prior to commissioning, the Applicant must update the Fire Safety Study under Condition 9, and the Emergency Plan and Safety Management System under Condition 10 to include all aspects relevant to MOD 5. Commissioning must not commence until Fire Safety Study recommendations have been considered and, where appropriate, acted upon.	Pre- commissioning of MOD 5	Although not part of this year's reporting scope, the recent Independent Environmental Audit picked this as a non-compliance. Non-Compliance (2022 IEA NC 001) — The Fire Safety Study was not updated prior to the commissioning of MOD 5. It is noted that IXOM's Fire Risk Management Plan was updated prior to the commissioning of MOD 5, but it relied on the existing Fire Safety Studies undertaken in 2000 for Orica and the BIP.	Non- Compliant
Schedule 2 CoA 10E	The Applicant must comply with all reasonable requirements of the Planning Secretary on the implementation of any measures arising from the studies in respect of Conditions 10B and 10C within such time as the Planning Secretary may agree.	At all times	IXOM Chlor-Alkali Facility Independent Environmental Audit 2019 (AECOM, 19 December 2019). Velocity EHS (IXOM's database and task management system) for MOC-20181220-005 New Botany Repack Facility – Status Log.	Not Triggered

Condition of Consent	Compliance Requirement	Development Phase	Evidence and Comments	Compliance Status
BUILDING HE	EIGHT			
Schedule 2 CoA 13	HAZARD AUDIT Twelve months after the commencement of operations of the proposed development or within such further period as the Secretary may agree, the Applicant shall carry out a comprehensive hazard audit of the proposed development and submit a report on the audit to the Secretary. This audit is to be carried out at the Applicant's expense by a duly qualified independent person or team to be approved by the Secretary. Further audits will be required every three years or as may be requested by the Secretary. Hazard audits should be carried out in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 5, Hazard Audit Guidelines. The audit shall also contain confirmation that time and date functionality of all systems have been tested in accordance with the Safety management System specified in condition 10(b).	Post Approval - 3 Yearly	NSW DPIE (now DPE) letter dated 21 January 2021 re: Approval of 2021 Hazard Auditor for the IXOM Chloralkali facility at Botany Industrial Park (DA 35/98) Hazard Audit Report 2021 IXOM Chloralkali Facility at Orica Australia's Botany Industrial Park (Doc Number: 31-B573, Rev 0, Planager Pty Ltd). IXOM 2021 Annual Report for DPIE (January 2022, Rev 1.0).	Compliant
Schedule 2 CoA 12	INCIDENT REPORTING Within 24 hours of any incident or near incident with actual or potential significant off-site impacts on people or the biophysical environment, a report must be supplied to the Department outlining the basic facts. A further detailed report must be prepared and submitted following investigations of the causes and identification of necessary additional preventative measures.	At all times	Environmental Incidents Register (excel spreadsheet) IXOM Annual Returns (AR) submitted to EPA for EPL 20547: AR (19 Feb 2021 – 19 Feb 2022)	Not Triggered
Schedule 2 CoA 11	ONGOING HAZARDS MANAGEMENT Three years after the commencement of operations of the proposed development or within such further period as the Secretary may agree, the Applicant shall update the hazard analysis for the Chlor-alkali and derivatives complex at the Applicant's expense. This analysis shall be forwarded to the Secretary for approval. Further updates will be required every three years or as may be requested by the Secretary. The analysis shall be prepared in accordance with the Department of Urban Affairs and Planning's Hazardous Industry planning Advisory Paper No. 6, Guidelines for Hazard Analysis. This report shall cover individual fatality, injury and irritation risk and societal risk using the most recently available population and meteorological data. Note: the Applicant shall comply with all reasonable requirements of the Secretary in respect of the implementation of any measures arising from the studies undertaken as a result of Condition 11 and shall implement those instructions to the satisfaction of the Secretary within such time as the Secretary may specify.	Post Approval - 3 Yearly	Although not part of this year's reporting scope, the recent Independent Environmental Audit picked this as a non-compliance. Non-Compliance (2022 IEA NC 002) - The 2020 Quantitative Risk Assessment (QRA) was not undertaken in 2020 as required. It was undertaken in 2021. There was a discussion with DPIE to align the IXOM QRA study frequency to BIP frequency (3 years to 5 years), but this was not concluded.	Non- Compliant

Schedule 2 CoA 14	Prior to lodging an application for construction, the Applicant must seek the approval of Sydney Airport Corporation and the Civil Aviation Safety Authority (CASA) in respect of any structure, inclusive of vents, chimneys, aerials, TV antennae and construction which exceeds the height at which approval is required under the Civil Aviation (Buildings Control) Regulations. This includes any temporary structure and/or equipment planned to be used during construction. This application must include the following information: (a) The nature of the proposed structure/activity (b) The proposed location of the structure/activity relative to Mapping Grid of Australia 1994 (MGA94) (c) The maximum overall height of the proposed structure/activity relative to Australian Height Datum (AHD) (d) The purpose for which the structure/activity is intended to be used (e) The maximum height, relative to AHD of any temporary structure or equipment including construction cranes, intended to be used in the erection of the proposed building/structure (f) The period of the proposed operation and desired operating hours for any temporary structures.	Pre-approval		Not Triggered
TRAFFIC ANI	TRANSPORT			
Condition of Consent	Compliance Requirement	Development Phase	Evidence and Comments	Compliance Status
Schedule 2 CoA 15	No later than two months prior to the commencement of commissioning of the proposed development, or within such further period as the Secretary may agree, the Applicant must prepare and submit for the approval of the Secretary a Traffic Management Plan (TMP) outlining management measures to ensure that road tanker drivers will predominantly use the main arterial roads - namely Foreshore Drive, General Holmes Drive and Wentworth Avenue, except for local deliveries. The Applicant must endeavour to enter into contractual arrangements with transport companies to require their trucks to use the routes determined under the TMP.	2 months prior to commencement		Not Triggered
Schedule 2 CoA 16	On-site parking shall be provided for all vehicles associated with the operation and construction of the proposed development. This shall include vehicles transporting equipment, materials, contractors and workers. Under no circumstances shall vehicles transporting equipment or materials queue or park in neighbouring streets.	At all times	Site observations by IEA Auditor on 10 October 2022 BIP Complaints Register (Excel File – BIP 2016-2022 Complaints) IXOM Environmental Management Plan (Document Number: SHE-BOT- MGT-ENV- 001. Scope of Application: Botany CAP, Revision: 2, Issued: 23 rd September 2021). IXOM Botany Traffic Management Plan Work Instruction Number (MCW- BOT-WKI- CAP-0006), Rev 3.0 dated 19 February 2020.	Compliant
Schedule 2 CoA 17	No more than one full (13 tonne) road tanker of chlorine must be parked on site at any given time. The total amount of time a full road tanker is present on site must not exceed 4380 hours in any 12-month period. The tanker is to be parked in a dedicated area away from any main thoroughfare.	At all times	IXOM 2021 Annual Report for DPIE (January 2022, Rev 1.0). Chlorine Inventory Monitoring	Not Triggered

Schedule 2 CoA 18	All parking spaces must be drained, sealed and line marked to the satisfaction of Botany Bay City Council.	At all times	Site observations by Auditor on 10 October 2022	Non- Compliant
ENVIRONME	NTAL MANAGEMENT			
Condition of Consent	Compliance Requirement	Development Phase	Evidence and Comments	Compliance Status
Schedule 2 CoA 19	One month prior to commencement of construction work, the Applicant must prepare an Environmental Management Plan (EMP) in consultation with the Environmental Protection Authority (EPA) and Department of Land and Water Conservation (DLWC) for the approval of the Secretary. The EMP must be implemented during the construction phase of the upgrade to the satisfaction of the Secretary. The EMP should be submitted as a supporting document for the application of the Pollution Control Approval from the EPA.	Pre-construction		Not Triggered
Schedule 2 CoA 19A	Prior to the commencement of any demolition associated with MOD-12- 1-2006, the Applicant must update and implement the EMP (referred to in condition 19 above) to include a program for daily monitoring at atmospheric mercury concentrations for the demolition works. The program must include procedures for immediate stoppage of the offending activity on detection of emission levels exceeding the limit under the POEO (Clean Air) Regulations, of 0.2 mg/cubic metre. Work must not recommence until remedial measures have been initiated to the satisfaction of the Planning Secretary and the DEC.	Before demolition		Not Triggered
Schedule 2 CoA 19B	Prior to the commencement of the construction of MOD 4, the Applicant must prepare a Construction Environmental Management Plan (CEMP) (in consultation with the EPA and to the satisfaction of the Secretary). The CEMP must reflect the works proposed as part of MOD 4 and shall include: (a) the results of the recent soil sampling undertaken by Orica and documented in the Figure titled Orica Botany Caustic Tank Project and dated 02/08/2012; (b) measures, such as additional sampling and/or remedial measures, to manage any areas of shallow soil contamination; € details of the management strategy for the handling, treatment and disposal of any contaminated material; (d) a defined heavy vehicle route restricted to the arterial road network and contractor induction requiring the use the defined route; € construction noise and vibration management measures including; - monitoring of heritage listed items during the use of any vibration intensive equipment; and - safe working distances for the vibration intensive equipment; (f) Soil sedimentation and runoff control measures; (g) management measures to control dust; and (h) waste management measures.	Pre-construction		Not Triggered

Schedule 2 CoA 19C	Prior to the commencement of construction of MOD5, the Applicant must prepare a Construction Environmental Management Plan (CEMP) for the approval of the Planning Secretary, which details relevant construction methodology and key mitigation measures. The CEMP for MOD 5 must include: (a) Controls for the potential direct exposure to soil potentially impacted by mercury; (b) Erosion and sediment controls including the management of any stormwater or groundwater that may accumulate in the development footprint; (c) Details of the management strategy for handling, classification and disposal of any contaminated soil; (d) An unexpected finds protocol which is to be enacted where mercury concentrations in the soil excavated during construction of MOD5 exceed the 893 mg/kg mercury threshold; (e) Construction and demolition waste management; (f) Traffic management; and (g) Construction noise and vibration management.	Pre-construction related to MOD 5		Not Triggered
Schedule 2 CoA 19D	The Applicant must: (a) Not commence construction works required under MOD5 until the CEMP is approved by the Planning Secretary; and (b) Carry out the construction of MOD5 in accordance with the CEMP approved by the Planning Secretary.	Pre-construction related to MOD 5		Not Triggered
Schedule 2 CoA 20	The EMP should address but not be limited to: (a) Details of the soil and groundwater investigation to be carried out in the area proposed for earthworks (b) Details of the management strategy for the handling, treatment and disposal of any acid sulphate soils and any contaminated material (c) Soil sediment control measures (d) Surface run-off control (e) Dust management plan (f) Quality of excess water from construction site and monitoring (g) Methods and discharges or use of excess water including criteria for discharge of stormwater to sewer, stormwater or treatment (h) Groundwater protection (i) The manner in which air and noise management and environmental monitoring will be implemented in relation to the new facilities. No site works involving ground disturbance must commence prior to approval of the plan.	Pre-construction		Not Triggered
Schedule 2, CoA 21	(a) Excavated material must be screened, tested and disposed of in accordance with the Department of Education, Climate Change and Water's Waste Classification Guidelines 2008. Testing must include, but not be limited to, mercury and hexachlorobenzene. (b) Materials found to be contaminated must be disposed of to an appropriately licensed facility and not reused on site for any purpose.	Construction		Not Triggered
Schedule 2, CoA 22	The Applicant must ensure that the proposed development, during construction and operation, does not impact on the neighbouring rail embankments. Details of drainage and stormwater management must be discussed with Rail Access Corporation (RAC) and Rail Estate to ensure that there is no impact on the operation of rail.	At all times	BIP Complaints Register (Excel File – BIP 2016-2022 Complaints) IXOM Environmental Management Plan (Document Number: SHE-BOT- MGT-ENV-001. Scope of Application: Botany CAP, Revision: 2, Issued: 23 rd September 2021).	Compliant

			Site observations by Auditor on 10 October 2022	
Schedule 2, CoA 23	The Applicant must submit for the approval of the Secretary, evidence that the environmental management of the proposed facilities has been integrated into the existing site Safety, Health and Environment Procedures.			Not Triggered
Schedule 2, CoA 24	At 3-year intervals, from the date of commencement of operations of the development, or as required by the Secretary, the Applicant must submit an Independent environmental audit of the development in accordance with ISO 14011 - Procedures for Environmental Auditing (or equivalent). The audit must be carried out at the Applicant's expense and be undertaken by a duly qualified independent person or team approved by the Secretary. The Applicant must comply with all reasonable requirements of the Secretary in respect of the implementation of any measures arising from the studies undertaken as a result of Condition 22 and must implement those instructions to the satisfaction of the Secretary within such time as the Secretary may specify.	Post Approval - 3 Yearly	NSW DPE Letter dated 21 September 2022 (ref: DA 35/98-PA-9) NSW DPIE Letter dated 27 September 2019 (re: approval of AECOM to undertake the 2109 IEA). IXOM Chlor-Alkali Facility Independent Environmental Audit 2019 (AECOM, 19 December 2019). IXOM Chlor-Alkali Facility Independent Environmental Audit 2022 (WSP, 22 December 2022).	Compliant
POLLUTION	CONTROL APPROVAL AND LICENSES			
Condition of Consent	Compliance Requirement	Development Phase	Evidence and Comments	Compliance Status
Schedule 2, CoA 25	The Applicant must obtain from the EPA all statutory approvals and licences required under the Clean Air, Clean Waters, and Noise Control Acts and must renew and maintain the licences for the life of the development.	At all times	NSW EPA issued Environment Protection Licence (EPL) 20547.	Compliant
WORK COVE	R REQUIREMENTS			
Condition of Consent	Compliance Requirement	Development Phase	Evidence and Comments	Compliance Status
Schedule 2,	The Development must comply with the requirements of the Dangerous Goods Act 1975, as administered by	At all times	SafeWork NSW Licence to operate a major hazard facility. Licence Number: 20-15-61, date granted 22 December 2020, expiry date 23 December 2023, facility number 20-15.	Compliant
CoA 26	WorkCover NSW, and if necessary be licensed under this Act.		Notification of Dangerous Goods on Premises Form FDG01 (dated 4 July 2022) by Botany Industrial Park (BIP).	

Schedule 2, CoA 27	One month prior to the commencement of operation, the Applicant must inform the Secretary in writing of the dangerous goods requirements for the in-transit storage of Chlorine in bulk road tankers.	ng of the Pre- commencement No		Not Triggered
Schedule 2, CoA 27A	The Applicant must dispose of any asbestos contaminated materials in accordance with the requirements of WorkCover NSW.	At all times	IXOM Asbestos Survey (Hibbs & Associates Pty Ltd) Reference No: S1228-R01, July 2022). No disposal of asbestos during the reporting period.	Not Triggered
NOISE				
Condition of Consent	Compliance Requirement	Development Phase	Evidence and Comments	Compliance Status
Schedule 2, CoA 28	No later than one month prior to the start of construction, the Applicant must develop, to the satisfaction of the EPA, a Construction Noise Management Plan. This must provide details of noise control measures to be undertaken during construction. This plan must be developed in accordance with the requirements of the EPA Noise Control Manual.	Within 1 Month of Construction	IXOM Chlor-Alkali Facility Independent Environmental Audit 2019 (AECOM, 19 December 2019)	Not Triggered
Schedule 2, CoA 29	All construction activities, likely to generate perceivable noise offsite, must be restricted to the hours 7.00am to 6.00pm, Monday to Friday, and 7.00am to 1.00pm, Saturday, unless otherwise agreed to in writing by the EPA on a case by case basis.	Construction	IXOM Chlor-Alkali Facility Independent Environmental Audit 2019 (AECOM, 19 December 2019)	Not Triggered
Schedule 2, CoA 30	The technique used for piling during construction must be "auger piling" to ensure that there will be no vibration effects on nearby buildings or surrounding properties.	Construction	IXOM Chlor-Alkali Facility Independent Environmental Audit 2019 (AECOM, 19 December 2019)	Not Triggered
Schedule 2, CoA 31	During construction the Applicant must ensure that the L10 noise level (measures over a period of not less than 15 minutes when the construction site is in operation) does not exceed the background level by more than 5 dB(A) at residential boundaries and beyond, under prevailing meteorological conditions weather conditions.	Construction	IXOM Chlor-Alkali Facility Independent Environmental Audit 2019 (AECOM, 19 December 2019)	Not Triggered
Schedule 2, CoA 32	The Applicant shall ensure that the noise emission from the operation of all plant and equipment associated with the proposed development shall conform to the Orica Pollution Control Licence No 2148 noise conditions. In addition: (a) The operation of all new equipment in the Chlor-Alkali plant when assessed on any residential boundary shall not give rise to a sound pressure level that exceeds (LA10) 40bB(A) night time and (LA10) 50dB(A) day time. (b) The operation of all reused equipment in the Chlor-Alkali plant when assessed on any residential boundary shall not give risk to a sound pressure level that exceeds (LA90) 47dB(A) night time and (LA10) 60dB(A) day time. New and reused equipment is as defined in the EIS "Replacement Chlor- Alkali Plant" (Dames & Moore dated 25 June 1998).	At all times	IXOM 2021 Annual Report for DPIE (January 2022, Rev 1.0). BIP Complaints Register (Excel File – BIP 2016-2022 Complaints) NSW EPA issued Environment Protection Licence (EPL) 20547. Monthly Noise Monitoring Reports (WolfPeak Pty Ltd) Botany Industrial Park (BIP) and Port Botany (December 2021 to November 2022).	Compliant

Schedule CoA 33	The noise emission limits apply for prevailing meteorological conditions, except under conditions of temperature inversions. Noise impacts that may be enhanced by temperature inversions must be addressed by: (a) documenting noise complaints received to identify any higher level of impacts or patterns of temperature inversions; (b) where levels of noise complaints indicate a higher level of impact then actions to quantify any ameliorate any enhanced impacts under temperature inversions conditions should be detailed in the noise management protocol.	At all times	IXOM 2021 Annual Report for DPIE (January 2022, Rev 1.0). BIP Complaints Register (Excel File – BIP 2016-2022 Complaints) NSW EPA issued Environment Protection Licence (EPL) 20547. Monthly Noise Monitoring Reports (WolfPeak Pty Ltd) Botany Industrial Park (BIP) and Port Botany (December 2021 to November 2022).	Compliant
Schedule CoA 34	Where practicable, during the commissioning of the Chlor-alkali plant, the Applicant must ensure that test runs are conducted during daytime.	Commissioning		Not Triggered
Schedule CoA 35	No later than one month prior to the start of operation, the Applicant must prepare to the satisfaction of the EPA, a Noise Management Plan to address operating the proposed development in accordance with the Site Noise Reduction Program.	1 Month Prior to Start of Operation	Although not part of this year's reporting scope, the recent Independent Environmental Audit picked this as a non-compliance. Non-Compliance (2022 IEA NC 004) - The Auditor notes that IXOM has provided the EPA a copy of the Noise Management Plan on 7 June 2021 which is after the commencement of the Repack Facility (MOD 5) operations and not before as required by Schedule 2 CoA 35. IXOM Chlor-Alkali Facility Independent Environmental Audit 2019 (AECOM, 19 December 2019) NSW EPA letter (ref: DOC21/477011, dated 10 June 2021, re: Environment Protection Licence (EPL) No. 20547 – Ixom Operations Pty Ltd, 16-20 Beauchamp Road, Matraville, NSW, 2036) IXOM – Risk Based Licensing Documents (7 June 2021 email with attachments sent to NSW EPA. IXOM Environmental Management Plan (Document Number: SHE-BOT-MGT-ENV-001. Scope of Application: Botany CAP, Revision: 2, dated 19 May 2020). NSW EPA issued Environment Protection Licence (EPL) 20547.	Non- Compliant

Schedule 2, CoA 36	All machinery must be installed and/or housed in such a manner as to prevent the emission of noise and transmission of vibration outside the premises.	At all times	Site observations by Auditor on 10 October 2022 BIP Complaints Register (Excel File – BIP 2016-2022 Complaints) Monthly Noise Monitoring Reports (WolfPeak Pty Ltd) Botany Industrial Park (BIP) and Port Botany (October 2019 to September 2022).	Compliant
AMENITY				
Condition of Consent	Compliance Requirement	Development Phase	Evidence and Comments	Compliance Status
Schedule 2, CoA 37	The premises and operations must be conducted in such a manner as not to interfere with, or materially affect, the amenity of the neighbourhood by reason of noise, vibration, smell, fumes, vapour, steam, soot, ash, dust, wastewater, waste products, grit, oil or otherwise.	At all times	Site observations by IEA Auditor on 10 October 2022 BIP Complaints Register (Excel File – BIP 2016-2022 Complaints) IXOM Annual Returns (AR) submitted to EPA for EPL 20547: AR (19 Feb 2021 – 19 Feb 2022) IXOM Environmental Management Plan (Document Number: SHE-BOT-MGT-ENV-001. Scope of Application: Botany CAP, Revision: 2, Issued: 23 rd September 2021).	Compliant
Schedule 2, CoA 38	The occupier of the premises must not cause, permit, or allow the emission of any odorous air impurity from the development such that it can be detected outside the property boundaries by its odour.	At all times	Site observations by IEA Auditor on 10 October 2022 BIP Complaints Register (Excel File – BIP 2016-2022 Complaints) IXOM Annual Returns (AR) submitted to EPA for EPL 20547: AR (19 Feb 2021 – 19 Feb 2022) IXOM Environmental Management Plan (Document Number: SHE-BOT-MGT-ENV-001. Scope of Application: Botany CAP, Revision: 2, Issued: 23 rd September 2021).	Compliant
Schedule 2, CoA 39	All raw materials, manufactured goods and machinery must be stored wholly within the development and not in adjacent forecourts, yards, access ways, car parking areas, or on Council's footpath.	At all times	Site observations by IEA Auditor on 10 October 2022 BIP Complaints Register (Excel File – BIP 2016-2022 Complaints)	Compliant
Schedule 2, CoA 40	All work shall be carried out inside the development and not in adjacent forecourts, yards, access ways, car parking areas, or on Council's footpath.	At all times	Site observations by IEA Auditor on 10 October 2022 BIP Complaints Register (Excel File – BIP 2016-2022 Complaints)	Compliant

Schedule 2, CoA 41	The Applicant must screen or direct all on-site lighting away from residences and roadways to the satisfaction of Council.	At all times	At all times BIP Complaints Register (Excel File – BIP 2016-2022 Complaints) IXOM Annual Returns (AR) submitted to EPA for EPL 20547: AR (19 Feb 2021 – 19 Feb 2022)				
Schedule 2, CoA 42	Prior to construction, a colour scheme for the Chlor-alkali plant must be prepared by the Applicant consistent with the aims and objectives of the Botany Bay City Council's "Environmental Improvement Program - Banksmeadow Industrial Area" submitted to and approved by the Secretary.	Pre-construction	e-construction Not T				
Schedule 2, CoA 43	Any temporary structure on the southern or western side of the site must be removed within 3 months of being completed. Further, the temporary parking area for the contractors must cease being used within one month of the plant commissioning being completed.			Not Triggered			
LANDSCAPIN	NG						
Condition of Consent	Compliance Requirement	Development Phase	Evidence and Comments	Compliance Status			
Schedule 2, CoA 44	Prior to seeking a construction certificate, the Applicant must prepare a detailed landscape plan for the development to be implemented within 6 months of the commissioning of the proposed development to the satisfaction of Botany Bay City Council.	Prior to seeking construction certificate		Not Triggered			
UTILITY SER	VICES		UTILITY SERVICES				
Condition of Consent	Compliance Requirement	Development Phase	Evidence and Comments	Compliance Status			
	Compliance Requirement Any necessary alterations to public installations must be made at the Applicant's own expense and must meet the requirements of both the Council and the relevant authority/s.		Evidence and Comments				
of Consent Schedule 2,	Any necessary alterations to public installations must be made at the Applicant's own expense and must meet the	Phase Any Modification Affecting Conditions of	Evidence and Comments	Status			
of Consent Schedule 2, CoA 45	Any necessary alterations to public installations must be made at the Applicant's own expense and must meet the	Phase Any Modification Affecting Conditions of	Evidence and Comments Evidence and Comments	Status			
of Consent Schedule 2, CoA 45 HERITAGE Condition	Any necessary alterations to public installations must be made at the Applicant's own expense and must meet the requirements of both the Council and the relevant authority/s.	Phase Any Modification Affecting Conditions of Consent Development		Status Not Triggered Compliance			

ANNUAL REPORT				
Condition of Consent	Compliance Requirement	Development Phase	Evidence and Comments	Compliance Status
Schedule 2, CoA 47	The Applicant must submit an annual report to Secretary in respect of the implementation and effectiveness of the conditions contained in this consent and compliance with the EIS and shall bring to the notice of the Secretary those matters which the Applicant considers may require further investigation. The first report must be submitted one year from the date of this consent, and subsequent reports must be submitted on the anniversary of this date or such period as the Secretary may agree. This report must include a record of commercial traffic movements into and out of the site annually from the date of commencement of operation. The report must also include details of the hours spent by loaded chlorine road tankers on site.	Post Approval - Yearly	IXOM 2021 Annual Report for DPIE (January 2022, Rev 1.0). DPIE email dated 3 April 2020 re: re: 2019 Annual Environmental Management Report- IXOM Chlor-Alkali Plant to IXOM. Screenshot of IXOM's DPE Portal (Post Approval) for submission of 2020 Annual Report.	Compliant
Schedule 2, CoA 48	The applicant must prepare an annual report to be distributed to the public detailing environmental performance, details of annual vehicle movements including dangerous goods, and compliance with conditions of consent. This report must include details of the types and number of community complaints received during the year. Post Approval Yearly IXOM 2021 Annual Report for DPIE (January 2022, Rev 1.0). Botany (ixom.com)		Compliant	
YEAR 2000 C	ONFORMITY			
Condition of Consent	Compliance Requirement	Development Phase	Evidence and Comments	Compliance Status
Schedule 2, CoA 49	One month prior to the commencement of commissioning, the Applicant must provide to the Secretary a report confirming that all automated systems, including embedded systems, used for plant operation, pollution control, fire safety and monitoring have been tested in accordance with the most recent edition of BSI/DISC PD2000-1 to confirmed continuous time and date functionality of those systems.	1 Month Prior to Start of Operation	IXOM Chlor-Alkali Facility Independent Environmental Audit 2019 (AECOM, 19 December 2019)	Not Triggered
GENERAL				
Condition of Consent	Compliance Requirement	Development Phase	Evidence and Comments	Compliance Status
Schedule 2, CoA 50	Adequate provision must be made within the development for the storage, collection and disposal of waste and recyclable materials to the satisfaction of the Council of Botany Bay. A Waste Management Plan must be submitted to Council at the commencement of construction detailing the type and quantity of waste to be generated by the development; materials to be reused or recycled; facilities/procedures for the storage, collections and disposal of waste and on-going management of waste	Commencement of Construction		Not Triggered
Schedule 2, CoA 51	Prior to the commencement of construction, the Applicant must implement an advertised 24-hour telephone service to handle complaints from members of the public during the construction period.	Pre-construction		Not Triggered
Schedule 2, CoA 52	During the construction period the Applicant must maintain a Complaints Register which shall be used to record details of all complaints received and actions taken by the Applicant in response to such complaints. The Register must be available for inspection to all relevant approval/consent authorities.	Construction		Not Triggered

Schedule 2, CoA 53	The Applicant must ensure the facility is built to withstand rail related vibration from the neighbouring rail yards.	At all times	IXOM Chlor-Alkali Facility Independent Environmental Audit 2019 (AECOM, 19 December 2019)	Not Triggered
Schedule 2, CoA 54	The Applicant must also ensure that no adverse impacts from construction and operation of the development on the nearby rail corridor and railway land.	At all times	BIP Complaints Register (Excel File – BIP 2016-2022 Complaints) Environmental Incidents Register (excel spreadsheet)	Compliant
Schedule 2, CoA 55	Any dispute arising between any of the parties in respect to these conditions must be referred to the Secretary for resolution.	At all times		Not Triggered
Schedule 2, CoA 56	Before commencing construction, the Applicant must install and maintain vibration monitoring equipment in areas of vibration sensitive equipment on any neighbouring plants. This equipment must be maintained and monitored over the life of the construction and commissioning of the proposed development.	Pre-construction		Not Triggered
Schedule 2, CoA 57	This approval and consent does not relieve the Applicant of the obligation to obtain any other approval under the Local Government Act, 1993 as amended, the Ordinance made thereunder or any other Act.	At all times	IXOM Chlor-Alkali Facility Independent Environmental Audit 2019 (AECOM, 19 December 2019). Bayside Council Occupation Certificate dated 31 March 2020 (Certificate Number: CC- 2019/72) for Chemical Repack Facility.	Compliant

9.4 Appendix D – Declaration

Compliance Report Declaration form

Table 12: Declaration	
Name of operation/ project	Ixom Botany ChlorAlkali Plant
Development consent / project approval #	DA35/98 (ref R98/00010)
Description of consent/ project	Replacement of Chlor-Alkali plant at Botany
Development consent / project address	16-20 Beauchamp Road, Matraville NSW 2036
Name of Operator	Ixom Operations Pty Ltd
Compliance Report	Annual Report 2022
Annual Review End Date	30 November 2022

I declare that I have reviewed relevant evidence and prepared the contents of the attached Compliance Report and to the best of my knowledge:

- the Compliance Report has been prepared in accordance with all relevant conditions of consent;
- the Compliance Report has been prepared in accordance with the Compliance Reporting Post Approval Requirements;
- the findings of the Compliance Report are reported truthfully, accurately and completely;
- due diligence and professional judgement have been exercised in preparing the Compliance Report; and
- the Compliance Report is an accurate summary of the compliance status of the development.

 Note.
- a) Under section 10.6 of the Environmental Planning and Assessment Act 1979 a person must not include false or misleading information (or provide information for inclusion in) a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is false or misleading in a material respect. The proponent of an approved project must not fail to include information in (or provide information for inclusion in) a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is materially relevant to the monitoring or audit. The maximum penalty is, in the case of a corporation, \$1 million and for an individual, \$250,000; and
- b) The Crimes Act 1900 contains other offences relating to false and misleading information: section 307B (giving false or misleading information maximum penalty 2 years' imprisonment or 200 penalty units, or both).

Name of Authorising reporting officer	lan Parker
Title of Authorised Reporting Officer	Regional Manufacturing Manager NEA and WA
Signature of Authorised Reporting Officer	San Parker
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Company and Addiess	1 Nicholson Street, East Melbourne, VIC 3002