



Government of **Western Australia**
Department of **Environment and Conservation**

Your ref: L5089/1989/9
Our ref: 2010/004609
Enquiries: P. Knol
Phone: 9411 1777
Fax:
Email:

The Manager
Kwinana Chlor Alkali Pty Ltd
PO Box 5051
ROCKINGHAM WA 6968

Dear Sir/Madam

Environmental Protection Act 1986
Licence

Occupier: Kwinana Chlor Alkali Pty Ltd

Premises: Kwinana Chlor Alkali Pty Ltd, Part Lot 22 on Diagram 88339 Mason Rd, Kwinana Beach WA 6167

You are hereby advised that a licence under the *Environmental Protection Act 1986* (the Act) has been granted for the above premises. The Department of Environment and Conservation will advertise the issuing of this licence in the public notices section of The West Australian newspaper.

The licence is subject to the attached conditions. Under section 58 of the Act, it is an offence to contravene a licence condition. This offence carries a penalty of up to \$125,000, with a daily penalty of up to \$25,000.

In accordance with section 102(1)(c) of the Act, you are afforded 21 days to appeal the conditions of the licence. Under section 102(3)(a) of the Act, any other person may also appeal the conditions of the licence.

To make an appeal or check if any appeals have been made, contact the Office of the Appeals Convenor on 6467 5190. Please direct all other inquiries to the Licensing Officer above.

Yours faithfully,

Peter Vassel
Manager, Works Approval & Emissions Licensing Section

Date: Thursday 14 July 2011

enc: Environmental Protection Act 1986 Licence L5089/1989/9
copy to: Local Government Authority: Town of Kwinana

DIRECTOR GENERAL AND ENVIRONMENTAL SERVICES DIVISIONS: The Atrium, 168 St Georges Terrace, Perth, Western Australia 6000
Phone: (08) 6467 5000 Fax: (08) 6467 5562 TTY: 1880 555 630

PARKS AND CONSERVATION SERVICES DIVISIONS: Executive: Corner of Australia II Drive and Hackett Drive, Crawley, Western Australia 6009
Phone: (08) 9442 0300 Fax: (08) 9386 1578 Operations: 17 Dick Perry Avenue, Technology Park, Kensington, Western Australia 6151
Phone: (08) 9219 8000 Fax: (08) 9334 0498 TTY: 9334 0546

POSTAL ADDRESS FOR ALL DIVISIONS: Locked Bag 104, Bentley Delivery Centre, Western Australia 6983

www.dec.wa.gov.au
wa.gov.au

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ISSUED LICENCE FOR PRESCRIBED PREMISES *Environmental Protection Act 1986*

LICENCE NUMBER: L5089/1989/9

FILE NUMBER 2010/004609

LICENSEE AND OCCUPIER OF PREMISES

Kwinana Chlor Alkali Pty Ltd
PO Box 5051
ROCKINGHAM WA 6968
ACN: 130 483 395

NAME AND LOCATION OF PREMISES

Kwinana Chlor Alkali Pty Ltd
Part Lot 22 on Diagram 88339 Mason Rd
KWINANA BEACH WA 6167

PRESCRIBED PREMISES CATEGORY

Schedule 1 of the *Environmental Protection Regulations 1987*

CATEGORY	DESCRIPTION	CAPACITY
31	Chemical manufacturing	90,000 tonnes per year

CONDITIONS OF LICENCE

Subject to the conditions of licence set out in the attached pages.

**Officer delegated under Section 20
of the *Environmental Protection Act 1986***

ISSUE DATE Thursday, 14 July 2011

COMMENCEMENT DATE: Wednesday, 27 July 2011

EXPIRY DATE: Tuesday, 26 July 2016

CONDITIONS OF LICENCE

Environmental Protection Act 1986

LICENCE NUMBER: L5089/1989/9

FILE NUMBER 2010/004609

DEFINITIONS

In these conditions of licence, unless inconsistent with the text or subject matter:

"Director" for the purpose of correspondence means-
Regional Leader, Kwinana

Department of Environment and Conservation

2 Stidworthy Ct

Kwinana WA 6966

Telephone: +61 8 9411 1777

Facsimile: +61 8 9419 5897;

"licensed" means licensed under the *Environmental Protection Act 1986*;

"NATA" means the National Association of Testing Authorities;

"AS/NZS5667 or Australian Standard 5667" means the most recent version and the relevant parts of the Australian and New Zealand series of guidance standards on Water Quality Sampling;

"premises" means Part Lot 22 on Diagram 88339, Mason Road, KWINANA BEACH, WA, 6167 as depicted in Attachment 1; and

"quarterly" means each 3 calendar month period commencing on 1 January, 1 April, 1 July, and 1 October each year.

All other terms take their meaning from the *Environmental Protection Act 1986*.

GENERAL CONDITIONS

- 1(a) The licensee shall advise the Director in writing within 24 hours of becoming aware of an exceedance of any measurement which indicates that any discharge limit specified in these conditions of licence has been exceeded.
- 1(b) The licensee shall provide a full report on its investigations into any exceedance reported under condition 1(a) within 7 days of that exceedance, and it shall include, but not be limited to:
- (i) the date, time, and reason for the exceedance;
 - (ii) the period over which the exceedance occurred;
 - (iii) the nature and extent of the discharge over that period and potential or known environmental consequences;
 - (iv) corrective action taken or planned to mitigate adverse environmental consequences; and
 - (v) corrective action taken or planned to prevent a recurrence of the exceedance.

EMISSION TO AIR

2. The licensee shall ensure that, during normal operation, waste gases from the premises are only discharged to the environment through the following discharge points:
- (i) major gaseous waste through the chlorine absorption tower vents, HCl gas scrubbers, steam boiler chimneys, and hydrogen safety seal vents; and
 - (ii) minor process waste gases through various tank and process vessel vents.
- 3(a) The licensee shall ensure that all emission monitoring required by any condition of this licence is conducted in accordance with Table 1.

CONDITIONS OF LICENCE

Environmental Protection Act 1986

LICENCE NUMBER: L5089/1989/9

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Table 1: Pollution control equipment emission monitoring

Equipment	Parameter	Monitoring frequency
Chlorine Scrubber Vents ⁽¹⁾	Chlorine concentration as ppm	continuous

Notes: 1. Range of the chlorine monitor shall be 0-100 ppm

- 3(b) The licensee shall record results of monitoring required by condition 3(a) of this licence and shall retain those records on site for at least six months after the emission occurred.
- 3(c) The licensee shall maintain the continuous emissions monitoring systems specified in this licence to provide reliable and accurate data for:
- (i) greater than 90 percent of the time that waste gasses are emitted from the specified stack in every calendar month period; and
 - (ii) greater than 95 percent of the time that waste gasses are emitted from the specified equipment in any period of twelve consecutive calendar months.
- 4 The licensee shall ensure that discharges of chlorine from the sources listed in column 1 of Table 2, for the concentration ranges specified in column 2 of Table 2, do not occur for continuous time periods longer than those specified in column 3 of Table 2.

Table 2: Chlorine discharge concentration limits

Emission source	Concentration (ppm)	Permitted time period (min)
Chlorine Scrubbers	5 to less than 20	no longer than 60
	20 to less than 65	no longer than 5
	65 and greater	not to be exceeded

- 5 The licensee shall operate the HCl synthesis units with hydrogen to chlorine feed to the burner ratio between 10% and 15% excess hydrogen over the stoichiometric requirement so that there is no free chlorine in the vent gas.
- 6 The licensee shall operate the HCl synthesis units so that any over-pressure caused by an internal ignition will invoke an automatic shutdown and isolation of the chlorine and hydrogen feeds.

MONITORING CONDITIONS

7. The licensee shall, on a quarterly basis, take representative groundwater samples from the monitoring bores shown in Attachment 3 and analyse the samples for pH and conductivity.
8. The licensee shall ensure that all groundwater samples, that are required by this licence, are collected in accordance with Australian Standard 5667.
9. The licensee shall ensure that all groundwater samples, that are required by this licence, are submitted to a laboratory with current NATA registration for the analyses specified.

CONDITIONS OF LICENCE

Environmental Protection Act 1986

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REPORTING CONDITIONS

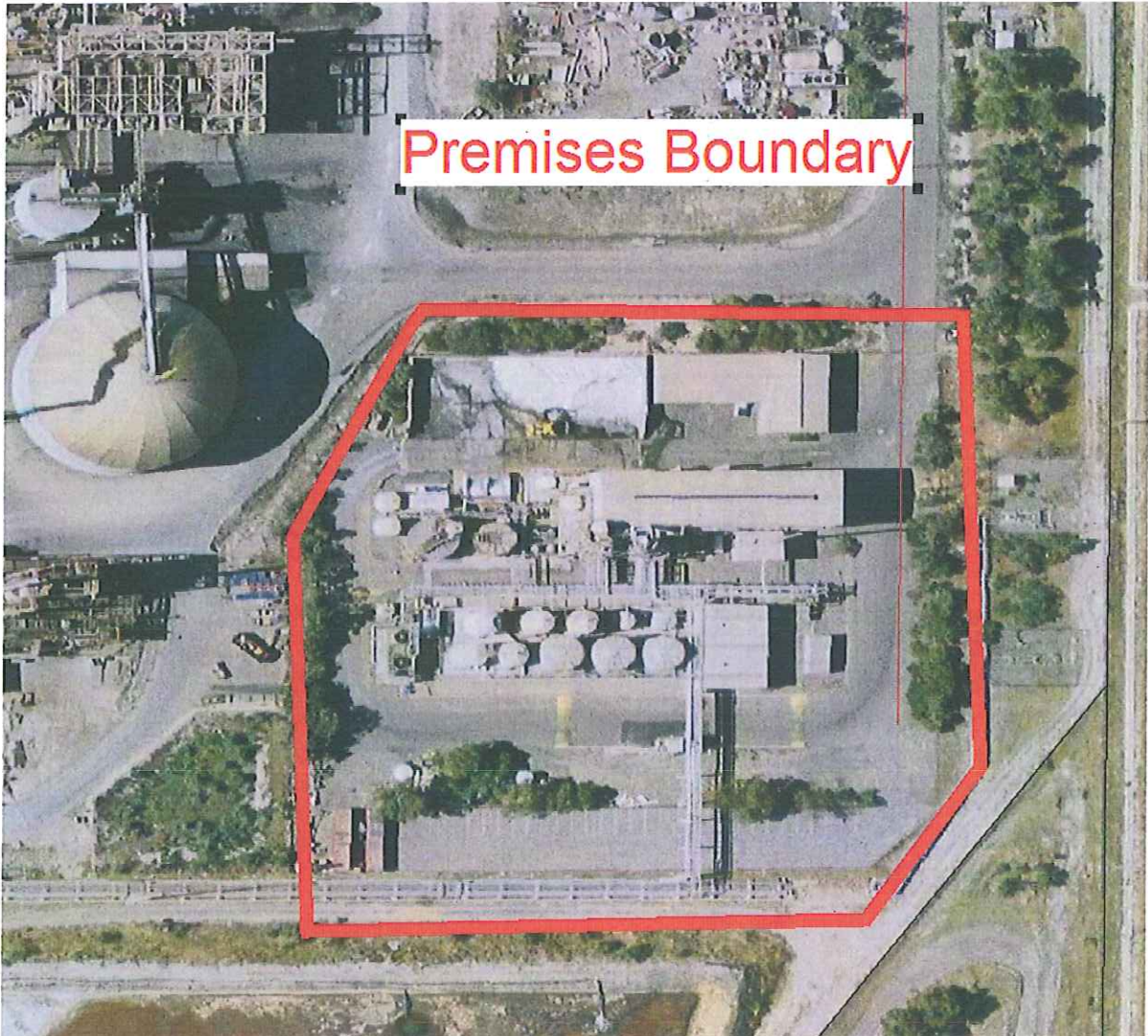
10. The licensee shall by 1 July in each year, provide to the Director an Annual Audit Compliance Report in the form in Attachment 4 to this licence, signed and certified in the manner required by Section C of the form, indicating the extent to which the licensee has complied with the conditions of this licence, and any previous licence issued under Part V of the Act for the premises, during the period beginning 1 May the previous year and ending on 30 April in that year.
11. The licensee shall provide to the Director, by 1 July each year, an Annual Monitoring Report. This report shall cover the previous 12 month period from 1 May to 30 April containing the monitoring data or other collected data required by any condition of this licence and be submitted to the Director.
12. The report required by condition 1(a) shall include an assessment of the data against any limits set in this licence or other environmental guidelines or policies and data from previous years' monitoring. It shall identify any data exceeding those limits, guidelines or policies and provide information on why the exceedance occurred (if known) and action taken by the licensee to prevent recurrence of such exceedances.

ATTACHMENT 1

LICENCE NUMBER: 5089/1989/9

FILE NUMBER: 2010/004609

PLAN OF PREMISES - KWINANA CHLOR-ALKALI PLANT
(Part Lot 22 on Diagram 88339)

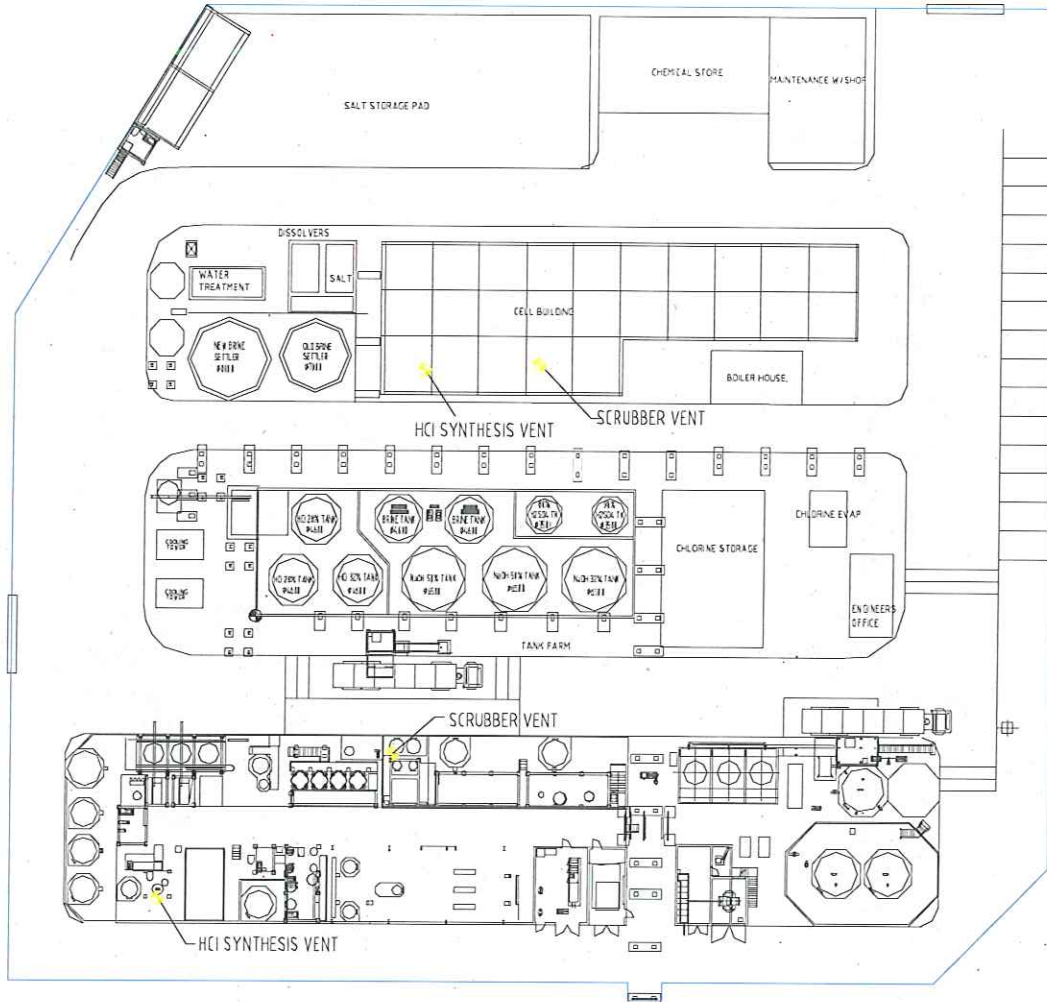


ATTACHMENT 2

LICENCE NUMBER: 5089/1989/9

FILE NUMBER: 2010/004609

GENERAL SITE ARRANGEMENT – DISCHARGE POINTS

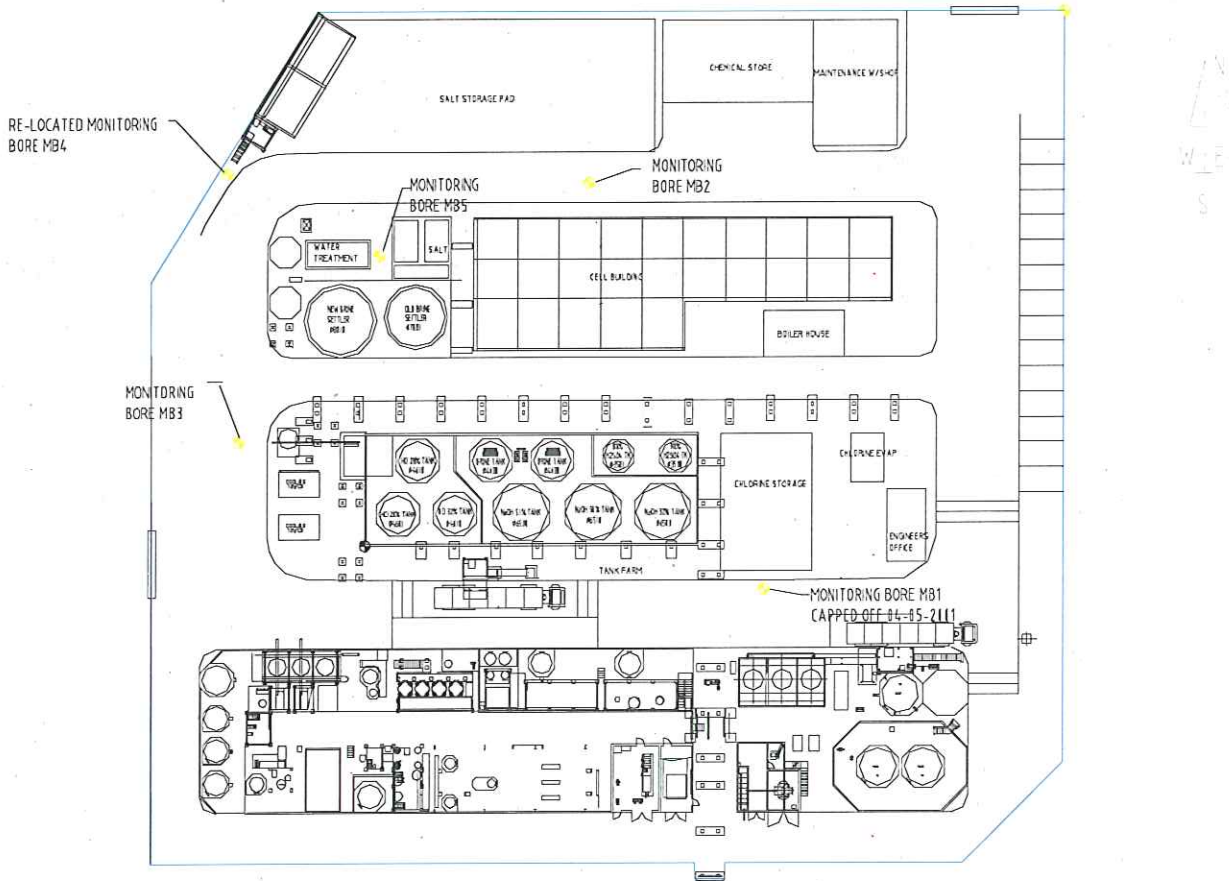


ATTACHMENT 3

LICENCE NUMBER: 5089/1989/9

FILE NUMBER: 2010/004609

GROUNDWATER MONITORING BORE LOCATIONS (KWINANA CHLOR-ALKALI)



ATTACHMENT 4 – Annual Audit Compliance Report

LICENCE NUMBER: 5089/1989/9

FILE NUMBER: 2010/004609

SECTION A

LICENCE DETAILS

Licence Number:	Licence File Number:
Company Name:	ABN:
Trading as:	
Reporting period: _____ to _____	

STATEMENT OF COMPLIANCE WITH LICENCE CONDITIONS

1. Were all conditions of licence complied with within the reporting period? (please tick the appropriate box)

Yes Please proceed to Section C
No Please proceed to Section B

Each page must be initialed by the person(s) who signs Section C of this annual audit compliance report

INITIAL: _____

SECTION B - DETAILS OF NON-COMPLIANCE WITH LICENCE CONDITION.

Please use a separate page for each licence condition that was not complied with.

a) Licence condition not complied with?	
b) Date(s) when the breach occurred, if applicable?	
Did this breach result in an incident that is reportable under section 72 of the <i>EP Act 1986</i> or licence condition?	
<input type="checkbox"/> Yes <input type="checkbox"/> Reported to DoE verbally Date _____ <input type="checkbox"/> Reported to DoE in writing Date _____	<input type="checkbox"/> No
c) Summary of particulars of compliance breach, and what was the environmental impact?	
d) If relevant, the precise location where the breach occurred (attach map or diagram)	
e) Cause of breach	
f) Action taken or that will be taken to mitigate any adverse effects of the breach	
g) Action taken or that will be taken to prevent recurrence of the breach	

Each page must be initialed by the person(s) who signs Section C of this annual audit compliance report

INITIAL: _____

ATTACHMENT 4 – Annual Audit Compliance Report

LICENCE NUMBER: 5089/1989/9

FILE NUMBER: 2010/004609

SECTION C - SIGNATURE AND CERTIFICATION

This Annual Audit Compliance Report may only be signed by a person(s) with legal authority to sign it. The ways in which the Annual Audit Compliance Report must be signed and certified, and the people who may sign the statement, are set out below.

Please tick the box next to the category that describes how this Annual Audit Compliance Report is being signed. If you are uncertain about who is entitled to sign or which category to tick, please contact the licensing officer for your premises.

If the licence holder is	The Annual Audit Compliance Report must be signed and certified:
an individual	<input type="checkbox"/> by the individual licence holder, or <input type="checkbox"/> by a person approved in writing by the Chief Executive Officer of the Department of Environment and Conservation to sign on the licensee's behalf.
A firm or other unincorporated company	<input type="checkbox"/> by the principal executive officer of the licensee; or <input type="checkbox"/> by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment and Conservation.
A corporation	<input type="checkbox"/> by affixing the common seal of the licensee in accordance with the Corporations Act 2001; or <input type="checkbox"/> by two directors of the licensee; or <input type="checkbox"/> by a director and a company secretary of the licensee, or <input type="checkbox"/> if the licensee is a proprietary company that has a sole director who is also the sole company secretary – by that director, or <input type="checkbox"/> by the principal executive officer of the licensee; or <input type="checkbox"/> by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment and Conservation.
A public authority (other than a local government)	<input type="checkbox"/> by the principal executive officer of the licensee; or <input type="checkbox"/> by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment and Conservation.
a local government	<input type="checkbox"/> by the chief executive officer of the licensee; or <input type="checkbox"/> by affixing the seal of the local government.

It is an offence under section 112 of the *Environmental Protection Act 1986* for a person to give information on this form that to their knowledge is false or misleading in a material particular. There is a maximum penalty of \$50,000 for an individual or body corporate.

I/We declare that the information in this annual audit compliance report is correct and not false or misleading in a material particular.

SIGNATURE: _____

SIGNATURE: _____

NAME: (printed) _____

NAME: (printed) _____

POSITION: _____

POSITION: _____

DATE: ____ / ____ / ____

DATE: ____ / ____ / ____

SEAL (if signing under seal)