



Licence Number	L6933/1996/14
Licensee	Poseidon Nickel Limited
ACN	060 525 206
Registered business address	Unit 8 Churchill Court 331-335 Hay Street SUBIACO WA 6008
Date of amendment	22/06/2017
Prescribed Premises	Category 05 - Processing and beneficiation of metallic or non-metallic ore Category 06 – Mine dewatering
Premises	Black Swan Nickel Operations Mining tenements M27/39 and M27/200 KALGOORLIE WA 6430

Amendment

The Chief Executive Officer (CEO) of the Department of Environment Regulation (DER) has amended the above licence in accordance with section 59 of the *Environmental Protection Act 1986* as set out in this Amendment Notice.

Date signed: 22 June 2017

Caron Goodbourn

MANAGER – PROCESS INDUSTRIES

LICENSING AND APPROVALS

an officer delegated under section 20

of the Environmental Protection Act 1986 (WA)

Amendment Notice

This notice is issued under section 59 of the *Environmental Protection Act 1986* (EP Act) to amend the licence L6933/1996/14 issued under the EP Act for a prescribed premises as set out below. This notice of amendment is given under section 59B(9) of the EP Act.

Amendment Description

The Black Swan Nickel (BSN) mine operated by Poseidon Nickel Limited (the Licence Holder) is situated on mining tenements M27/39 and M27/200, and located approximately 53 kilometres north-east of Kalgoorlie. BSN mine consists of the Silver Swan Massive Sulphide Nickel Project underground mine, the Black Swan Disseminated Sulphide open-pit mine, and the Black Swan Processing Facility.

The BSN operation produces nickel sulphide concentrate and has been in care and maintenance since 16 February 2009.

The existing licence contains condition 3.3.1, which requires the licensee to monitor groundwater monitoring bores at the Silver Swan Tailings Storage Facility (TSF), the Cygnet TSF, and the Black Swan Disseminated TSF. The current frequency of groundwater monitoring is quarterly when the premises are operational and bi-annually when in care and maintenance.

On 11 November 2016, the Licence Holder submitted an application to amend the licence to reduce the groundwater monitoring frequency under care and maintenance from six-monthly to annually.

Decision

The Delegated Officer has reviewed the groundwater monitoring data provided by the Licence Holder in the Annual Environment Reports. The data trends indicate no significant changes in either the standing water levels or water quality surrounding the three TSFs. Given the prolonged care and maintenance status of the premises, the Delegated Officer has reduced the groundwater monitoring frequency to annual.

Amendment History

Instrument	Issued	Amendment
L6933/1996/14	12/02/2015	Licence amendment to correct AER submission date, change premises production for dewatering, and update monitoring requirements.
L6933/1996/14	16/04/2015	Licence transfer from Black Swan Nickel Pty Ltd to Poseidon Nickel Limited.
L6933/1996/14	17/12/2015	Licence amendment to reduce monitoring frequency whilst in care and maintenance.
L6933/1996/14	29/04/2016	Amendment by notice to change licence duration.
L6933/1996/14	22/06/2017	Amendment Notice to reduce monitoring frequency from six-monthly to annually.

Amendment

- Table 3.8.1 of the licence is amended by the deletion of the text shown in strikethrough below and the insertion of the red text shown in underline below:

Table 3.8.1: Monitoring of ambient groundwater quality					
Monitoring point reference	Parameter	Limit	Units	Averaging period	Frequency
Silver Swan and Cygnet TSF TD1, TD2, TD3, TD4, TD5, TD6, TD7, TD8, TD9, TD10, TD11, TD12 (Schedule 1 – Map)	Standing Water Level (SWL)	4	mbgl	Spot sample	Six monthly
	pH	-	pH units		while in care and maintenance
	Total Dissolved Solids (TDS); Weak Acid dissociable cyanide (WAD CN); Cobalt; Total CN; Sulfate; Chloride; Sulfate / Chloride ratio, Selenium, Zinc, Nickel, Copper, Aluminium, and Manganese	-	mg/L		Quarterly when in operation <u>Annually while in Care & Maintenance</u>
Black Swan Disseminated TSF MB1, MB1a, MB2, MB3, MB6 & MB7 ((Schedule 1 – Map)	Standing Water Level (SWL)	4	mbgl	Spot sample	Six monthly
	pH	-	pH units		while in care and maintenance
	Total Dissolved Solids (TDS); Weak Acid dissociable cyanide (WAD CN); Cobalt; Total CN; Sulfate; Chloride; Sulfate / Chloride ratio, Selenium, . Zinc, Nickel, Copper, Aluminium, and Manganese	-	mg/L		Quarterly when in operation <u>Annually while in Care & Maintenance</u>

Appendix 1: Key documents

	Document title	In text ref	Availability
1	Licence L6933/1996/16 – Poseidon Nickel Limited: Black Swan Nickel Operations	Application	DER record # A1326270
2	DER, July 2015. <i>Guidance Statement: Regulatory Principles</i> . Department of Environment Regulation, Perth.	accessed at www.der.wa.gov.au	
3	DER, October 2015. <i>Guidance Statement: Setting Conditions</i> . Department of Environment Regulation, Perth.		
4	DER, November 2016. <i>Guidance Statement: Risk Assessments</i> . Department of Environment Regulation, Perth.		
5	DER, November 2016. <i>Guidance Statement: Decision Making</i> . Department of Environment Regulation, Perth.		

Appendix 1: Summary of Licence Holder comments

The Licence Holder was provided with the draft Amendment Notice on 24 February 2017 for review and comment. The Licence Holder responded on 24 February 2017 and no comments were submitted on the draft Amendment Notice.