

Appendix A – Monitoring Plan – Lambells Lagoon Crocodile Farm

Table 1 Monitoring program and trigger values for irrigation water

Monitoring sites	Parameter	Sampling frequency	Trigger values
Irrigation extraction points / authorised discharge points (ADP1 and ADP2 as identified in condition 34 of this licence)	pH	Monthly when discharging and quarterly when not discharging	6 – 9 ¹
	EC		1,300 µs/cm ¹
	Total N		125 mg/L ¹
	Total P		12 mg/L ¹
	E.coli, Enterococci, Total coliforms		1,000 cfu/100mL (fodder) ¹
	Cations & anions (Ca, Mg, Na, K, SO ₄ , Cl, CO ₃ + HCO ₃)		N/A

¹ Australian and New Zealand Guidelines for Fresh and Marine Water Quality – Volume 3 – Chapter 9 – Primary Industries (ANZECC, 2000)

Table 2 Monitoring program and trigger values for groundwater sites

Monitoring sites	Parameter	Sampling frequency	Trigger values
GW1, GW2, GW3, GW4, GW5, GW6 ² and GW7 as identified in Chapter 8 of the 'Supporting Information for the Lambells Lagoon Crocodile Farm EPL320 Amendment' maintained in accordance with condition 8 of this licence.	Standing Water Level (SWL)	Monthly	N/A
	pH	Quarterly	7 – 8.5 ¹
	EC		400 µs/cm ¹
	Total N		Any increase from the previous monitoring round
	Total P		
	E.coli, Enterococci, Total coliforms		
Cations & anions (Ca, Mg, Na, K, SO ₄ , Cl, CO ₃ + HCO ₃)	N/A		

¹ Darwin Harbour Water Quality Objectives for groundwater

² NT Water Resources Bore - SWL only – accessed online

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Table 3 Monitoring program and trigger values for surface water sites

Monitoring sites	Parameter	Sampling frequency	Trigger values
SW01, SW02*, SW03, SW04, SW05 and SW06* as identified in Chapter 8 of the 'Supporting Information for the Lambells Lagoon Crocodile Farm EPL320 Amendment' maintained in accordance with condition 8 of this licence.	pH	3 times during the Wet season (start; during; end)	6.0 – 7.5 ¹
	EC		200 µS/cm ^{1 2}
	Total N		0.23 mg/L ^{1 2}
	Total P		0.01 mg/L ^{1 2}
	E.coli, Enterococci, Total coliforms		Any increase from the previous monitoring round

* Trigger value not applicable

¹ Darwin Harbour Water Quality Objectives for freshwater rivers and streams

² If the concentration at SW06 is greater than the trigger value then the concentration at SW06 becomes the trigger value for that monitoring round

Table 4 Monitoring program and trigger values for soil sites

Monitoring sites	Parameter	Sampling frequency	Trigger values *
SS01, SS02, SS03, SS04, SS05, SS06, SS07, SS08, SS09 and SS10, as identified in Chapter 8 of the 'Supporting Information for the Lambells Lagoon Crocodile Farm EPL320 Amendment' maintained in accordance with condition 8 of this licence.	pH	Annually	6 – 8
	EC		Any increase from the previous monitoring round
	Total N		
	Total P		
	E.coli, Enterococci, Total coliforms		

* B horizon results