

Appendix G

Site based management plan

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Monitoring is required so that operation is in accordance with EPA licence conditions for an ERA 15b.

Wastewater monitoring

Parameters to be tested and/or reported are described below (Table G) and are based on the EPA's recommended monitoring program as outlined in the Queensland Water Recycling Guidelines 2005.

Table G Wastewater monitoring program

Parameter	Units	Limit	Monitoring schedule
<i>E. coli</i> (median)	cfu/100mL	< 10	NATA Quarterly Bacteria Check™ or equivalent
BOD ₅ (median)	mg/L	20	Weekly
Turbidity 95%ile (max)	NTU	2	Continuous ⁽¹⁾
SS (median)	mg/L	5	Weekly
TDS or EC (median)	mg/L or µS/cm	1000/1600	Weekly
pH	-	6 – 8.5	Weekly
Free residual chlorine	mg/L	Check	Weekly

Table Notes:

- As recommended by EPA in Queensland Water Recycling Guidelines 2005, monitoring of turbidity at the treatment plant will be continuous, as it is particularly critical to the effectiveness of chlorine disinfection. An alarm will be activated at an NTU of 2, and automatic shut-off of supply to storage tank/s at an NTU of 5. For ozonation disinfection system, a oxidation-reduction potential (ORP) sensor may be used instead.

Additional parameters to be tested and/or reported are outlined in the WWTP Operational Manual and the CEMP. The CEMP is included in Appendix F of the ERA supporting document.

Groundwater monitoring

Refer to the CEMP included as Appendix F of the ERA supporting document.

Soil monitoring

Refer to the CEMP included as Appendix F of the ERA supporting document.

Air monitoring

Monitoring of odour nuisance will be undertaken in accordance with EPA's EPP (Air) and Air Quality Manual 1995 subsequent to complaints and the WWTP Operational Manual. All complaint(s) will be recorded on the following environmental complaints form.

Noise monitoring

Monitoring of noise nuisance will be undertaken in accordance with the EPA's Noise Measurement manual, the Australian Standard 1055.2 – 1997 and the WWTP Operational Manual. All complaint(s) will be recorded on the following environmental complaints form.

Example of an environmental complaint form

DATE:	TIME:		
FORM OF COMPLAINT (Phone call, letter)			
NAME OF COMPLAINANT:			
ADDRESS:			
TELEPHONE:	EMAIL:		
NATURE OF COMPLAINT:			
NAME OF EMPLOYEE TAKING COMPLAINT:			
RESPONSE:			
EPA NOTIFIED?	YES/NO	DATE	TIME
EPA OFFICER:			

Example of an environmental incident report form

Date:	Time:
Incident reported by:	
Area where incident occurred:	
Details of incident:	
Actions following incident: (date, method, personnel):	
Recommended future actions (date method personnel):	
Relevant personnel informed (names and signatures): Site supervisor:	
Site Manager:	
Copy sent to Environmental Protection Agency (date and initial)	
Signature of Site Manager:	