Permit

Environmental Protection Act 1994

Transitional Environmental Program

Pursuant to section 340

TEP ID	**MAN-E-101156467**
TEP takes effect on:	**29 September 2026**
TEP ends on:	**27 November 2028**
Anniversary date for this TEP is:	**29 September**

Transitional Environmental Program holder(s)

Name(s) [ACN]	Registered address
Toowoomba Regional Council	4 Little Street, Toowoomba, QLD 4350, Australia

Activity location details

Activity	Location(s)
ERA 63 - Sewage Treatment 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of (b-ii) more than 100 but not more than 1500EP otherwise	Clifton Wastewater Treatment Plant (WWTP) Location stated in the Environmental Authority: Clifton STP - Lot 1/SP106958

Environmental Authority (if applicable)

Environmental authority number	Name(s) of environmental authority holder(s)
EPPR00852813	Toowoomba Regional Council

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Transitional Environmental Program objectives

TEP Objective(s)
Reducing Environmental Harm Transition to compliance with Environmental Authority Condition The objectives of this Transitional Environmental Program (TEP) are to enable Toowoomba Regional Council (TRC) to: (a) **Stage 1: Achieve compliance with Condition 7-WT3 of Environmental Authority (EA) EPPR00852813**. Compliance will be achieved by upgrading the treatment plant to include tertiary treatment. A Dissolved Air Flotation (DAF) tertiary treatment unit will be designed, constructed, installed, commissioned and performance verified. The DAF technology will assist in algae removal, thus providing compliance with BOD, suspended solids and pH release quality characteristic limits to Kings Creek as required by the EA. (b) **Stage 2: Achieve compliance with Condition 7-G15 of Environmental Authority (EA) EPPR00852813.** Compliance will be achieved by engaging a suitable third party to use treated effluent for irrigation or another approved beneficial use. Preparatory work for Stage 2, including updating the Irrigation Management Plan, market sounding, tendering and agreement negotiation, may proceed concurrently with Stage 1. Irrigation by the third party must not commence until the relevant agreement, management controls and approvals are in place. TRC must publicly advertise the opportunity through VendorPanel, or an equivalent public procurement process, and execute a written agreement with the successful tenderer. TRC will undertake a review of, and update, the Clifton WWTP Irrigation Management Plan (IMP) as per current operating processes for the duration of the TEP, to assess and manage potential environmental impacts. The review and update will be in reference to the DETSI 2020 publication *Disposal of effluent using irrigation, Technical Guideline*. TRC will undertake environmental monitoring and reporting, as detailed in this TEP, for the duration of the TEP. All water quality sampling and monitoring is to be undertaken by a suitably qualified person and in accordance with the Queensland Government's *Monitoring and Sampling Manual 2009*. The objectives must be achieved **by 27 November 2028** to ensure compliance with: (a) **Condition 7-WT3 of EA EPPR00852813**, including compliance with the release quality characteristics limits for discharge of treated effluent at location W1; and (b) **Condition 7-G15 of EA EPPR00852813**, including the engagement with a third-party user for the irrigation of the recycled effluent to Lot 1 SP106958.

Conditions of Transitional Environmental Program

The conditions of this TEP contained below must be complied with by the holder.

<table>
<tr><th colspan="2">Conditions schedule: General</th></tr>
<tr><th>Condition number</th><th>Condition</th></tr>
<tr><td>G1</td><td>The TEP must be undertaken in accordance with the actions and performance indicators, commencement and completion dates specified in Attachment 1: Issued Transitional Environmental Program.</td></tr>
<tr><td>G2</td><td>This TEP does not relieve the holder of this TEP of the requirement to comply with conditions and/or parts of conditions of EPPR00852813 to which the approved TEP does not apply.</td></tr>
<tr><td>G3</td><td>Subject to compliance with this TEP, the holder is relieved from complying with the release limits in Condition 7-WT3 of EPPR00852813 for releases authorised by Condition 7-WT1 until 27 November 2028. During that period, each release of treated effluent to waters must comply with Condition G5 of this TEP. All other requirements of Condition 7-WT3 continue to apply unless expressly modified by this TEP.</td></tr>
<tr><td>G4</td><td>Subject to compliance with this TEP, the holder is relieved from complying with Condition 7-G15 of EPPR00852813, until 27 November 2028, only to the extent necessary to implement the actions and milestones in this TEP for establishing third-party use of treated effluent. This relief does not remove any other requirements applying to the storage, transport or irrigation of treated effluent.</td></tr>
<tr><td>G5</td><td>The release of treated effluent to waters must comply with Table 1 – Release Quality Characteristic Limits for each quality characteristic.
Table 1 – Release Quality Characteristic Limits
<table>
<tr><th>Quality Characteristics</th><th>Monitoring and Sampling Location</th><th>Release Limit</th><th>Limit Type</th></tr>
<tr><td rowspan="2">5-day Biochemical Oxygen Demand (mg/L)</td><td rowspan="6">W1, as per TEP Monitoring Condition 1</td><td>60</td><td>maximum</td></tr>
<tr><td>40</td><td>long term 85 percentile compliance</td></tr>
<tr><td>Suspended Solids (mg/L)</td><td>152</td><td>maximum</td></tr>
<tr><td>pH (pH Units)</td><td>6.5-9.5</td><td>range</td></tr>
<tr><td>Dissolved Oxygen (mg/L)</td><td>2</td><td>minimum</td></tr>
<tr><td>E. coli (cfu/100ml or MPN/100ml)</td><td colspan="2">1000 cfu/100ml or MPN/100ml as a median value, with 4 out of 5 consecutive water samples containing less than 4000 cfu/100ml or MPN/100ml.</td></tr>
</table></td></tr>
<tr><td>G6</td><td>Data collected under Monitoring Condition 1 of this TEP must be submitted to Queensland’s Water Tracking and Electronic Reporting System (WaTERS) for the duration of this TEP.</td></tr>
</table>

<table>
<tr><td></td><td>Note: For further information regarding WaTERS reporting requirements, contact psd.help@qld.gov.au.</td></tr>
<tr><td>G7</td><td>The use of treated effluent for irrigation must comply with Table 2 – Treated Effluent Quality Characteristic Limits for Irrigation for each quality characteristic.
Table 2 – Treated Effluent Quality Characteristic Limits for Irrigation
<table>
<tr><th>Quality Characteristics</th><th>Monitoring and Sampling Location</th><th>Release Limit</th><th>Limit Type</th></tr>
<tr><td>Total Nitrogen (mg/L)</td><td rowspan="6">Pre-irrigation storage, as per TEP Monitoring Condition 2</td><td>30</td><td>maximum</td></tr>
<tr><td>Total Phosphorus (mg/L)</td><td>15</td><td>maximum</td></tr>
<tr><td>Electrical Conductivity (µS/cm)</td><td>2900</td><td>maximum</td></tr>
<tr><td>pH (pH Units)</td><td>6.5-9.5</td><td>range</td></tr>
<tr><td>Sodium adsorption ratio (SAR)</td><td>12</td><td>maximum</td></tr>
<tr><td>E. coli (cfu/100ml or MPN/100ml)</td><td colspan="2">1000 cfu/100ml or MPN/100ml as a median value, with 4 out of 5 consecutive water samples containing less than 4000 cfu/100ml or MPN/100ml.</td></tr>
</table></td></tr>
<tr><td>G8</td><td>The holder must monitor soil quality against the investigation trigger values specified in Table 3 – Soil Quality Investigation Triggers. If monitoring undertaken under Monitoring Condition 3 identifies an exceedance of a trigger value, the holder must:
a) increase soil monitoring and sampling to at least quarterly;
b) investigate the cause, extent and environmental significance of the exceedance;
c) implement reasonable and practicable corrective actions to address the exceedance and prevent further deterioration; and
d) continue quarterly monitoring until the administering authority is satisfied that the exceedance has been investigated and appropriately addressed.
Table 3 – Soil Quality Investigation Triggers
<table>
<tr><th>Quality Characteristics</th><th>Investigation Trigger Limit</th></tr>
<tr><td>pH</td><td>9.5</td></tr>
<tr><td>Nitrate as N (mg/kg)</td><td>30</td></tr>
<tr><td>Exchangeable Sodium Percentage (ESP, %)</td><td>11
Note: Active management required if ESP reaches 15%</td></tr>
</table></td></tr>
<tr><td>G9</td><td>The holder must ensure the irrigation activity is undertaken in accordance with documented written procedures that, at a minimum:
1. identify potential risks to the environment from the activity during routine operations, closure and an emergency;
2. establish and maintain control measures that minimise the potential for environmental harm;
3. ensure plant, equipment and measures are maintained in a proper and effective condition;
4. ensure plant, equipment and measures are operated in a proper and effective manner;</td></tr>
</table>

	5. ensure that staff are trained in and aware of their obligations under the *Environmental Protection Act 1994*; and 6. ensure that reviews of environmental performance are undertaken at least annually.
G10	The holder must inspect all irrigation equipment and infrastructure at least once every six months. Any maintenance identified by an inspection must be completed as soon as practicable to prevent clogging and maintain the equipment and infrastructure in effective working order.
G11	The holder must notify the administering authority in writing within 28 days of obtaining a monitoring result that exceeds any limit specified in Conditions G5, G7 or G8 of this TEP. The written notification must include: a) the details of the exceedance; b) the full analysis results; c) details of investigation or corrective actions taken; d) any subsequent analysis; and e) details of potential for environmental harm, including offsite impacts to surface water.
G12	The irrigation application rate must not exceed 2.5 mm over any individual pivot area in any 8-hour period. Irrigation must not occur when soils are saturated or waterlogged, during rainfall, where rainfall is forecast to cause runoff, or where irrigation may cause ponding, runoff, erosion, spray drift or discharge to waters. The holder must record the irrigation date, start and finish times, area irrigated, application volume and rate, rainfall, soil condition and any corrective actions undertaken. Total irrigation volume must not exceed 524 kL/day.
G13	By **30 April 2028**, following completion of Conditions TEP 5 and TEP 6, the holder of this TEP must provide a report to the administering authority demonstrating whether the tertiary treatment upgrade has resulted in the treated effluent achieving the release limits prescribed under Condition 7-WT3 of EPPR00852813. Where the treated effluent does not achieve the release limits prescribed under Condition 7-WT3 of EPPR00852813, the report must identify the reasons and detail the actions undertaken, or proposed to be undertaken, to achieve compliance.

Annual returns

Pursuant to section 345 of the Act, the holder(s) of this TEP must submit an annual return, on the approved form, to the administering authority within 22 business days after the TEP anniversary date. The TEP annual return approved form can be found on this page: https://environment.desi.qld.gov.au/management/compliance-enforcement/guidelines or by visiting www.desi.qld.gov.au and searching (ESR/2023/6528).

Conditions of TEP

The conditions of this TEP contained within this document must be complied with by the holder.

Offences under the *Environmental Protection Act 1994*

Offence not to comply with the program

Section 432 of the *Environmental Protection Act 1994* requires the holder of a TEP, or a person acting under a TEP, must not contravene the program.

Holder responsible for ensuring program complied with

Section 433 of the *Environmental Protection Act 1994* requires the holder of a TEP must ensure everyone acting under the program complies with the program.

Compliance with the Act at completion of program

Section 349 of the *Environmental Protection Act 1994* outlines that the holder of a TEP must achieve full compliance with this Act for the matters dealt with by the program at the end of the period over which the program is carried out.

Effect of compliance with issued TEP

This issued TEP authorises the holder(s) of the TEP to carry out particular actions, or not be required to carry out particular actions, in accordance with the conditions of the TEP. If the holder(s) of the TEP carries out the activity in compliance with this issued TEP, they are authorised to carry out, or not be required to carry out, those actions despite anything in the following statutory instruments:

- a regulation;
- an environmental protection policy;
- an environmental authority held by the holder;
- a development condition of a development approval;
- a prescribed condition for carrying out a small-scale mining activity;
- an agricultural ERA standard.

Obligations under the *Aboriginal Cultural Heritage Act 2003* and *Torres Strait Islander Cultural Heritage Act 2003* (the Cultural Heritage Acts)

The Cultural Heritage Acts require anyone who carries out a land-use activity to exercise a duty of care. This 'duty of care' means land users must take all reasonable and practicable measures to ensure their activity does not harm Aboriginal or Torres Strait Islander cultural heritage and applies to any activity where Aboriginal or Torres Strait Islander cultural heritage is located. For more information on your obligations under this legislation, please visit the Department of Women, Aboriginal and Torres Strait Islander Partnerships and Multiculturalism webpage at https://www.tatsipca.qld.gov.au/.

Issued by



Eugene Immisch
Manager (Compliance)
Delegate of the Administering Authority
Dept of the Environment, Tourism, Science and Innovation

25/09/2026

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Issued Transitional Environmental Program

Actions to achieve TEP objectives (including interim measures to prevent or minimise environmental harm)			
Condition number	**Condition**	**Commencement date**	**Completion date**
TEP 1	**Objective of the condition** Stage 1: To achieve compliance with Condition 7-WT3 of EPPR00852813	10/09/2025	15/07/2026
	Condition Award of Design & Construct contract to the Head Contractor for the new tertiary treatment upgrade (DAF - Dissolved Air Flotation) to assist the algae removal.		
	Performance indicator Award of Design & Construct contract for tertiary treatment upgrade. *Deliverable:* Award of package via VendorPanel. This objective has been completed.		
TEP 2	**Objective of the condition** Stage 1: To achieve compliance with Condition 7-WT3 of EPPR00852813	2/11/2026	31/03/2027
	Condition Detailed design of new tertiary treatment upgrade (DAF - Dissolved Air Flotation). Design packages include: 1) Civils; 2) Mechanical; and 3) Electrical & Controls.		
	Performance Indicator Completion of design deliverables. *Deliverable*: Issued for Construction (IFC) drawings for tertiary treatment upgrade.		
TEP 3	**Objective of the condition** Stage 1: To achieve compliance with Condition 7-WT3 of EPPR00852813	30/08/2027	24/01/2028
	Condition		

	The holder must complete construction and installation of the DAF tertiary treatment unit and all supporting civil, mechanical, electrical and control works. **Performance Indicator** Completion of construction and installation works. *Deliverable*: Signed construction completion certificate, completed inspection and test plans, quality assurance records, as-constructed drawings and evidence that defects affecting performance have been rectified.		
TEP 4	**Objective of the condition** Stage 1: To achieve compliance with Condition 7-WT3 of EPPR00852813 **Condition** The holder must complete dry and wet commissioning of the DAF tertiary treatment unit and demonstrate that it operates as an integrated treatment process with existing wastewater treatment plant. **Performance Indicator** Completion of commissioning activities. *Deliverable*: Signed commissioning report, completed inspection and test plans, operating set points, operator training records and confirmation that identified commissioning defects have been rectified.	25/01/2028	28/02/2028
TEP 5	**Objective of the condition** Stage 1: To achieve compliance with Condition 7-WT3 of EPPR00852813 **Condition** The holder and the contractor must undertake performance verification under representative operating conditions to confirm the stable and effective operation of the DAF tertiary treatment unit and associated equipment. **Performance Indicator** Completion of performance verification monitoring. *Deliverable*: Performance verification report setting out operating conditions, monitoring results, equipment performance, identified defects, corrective actions and	29/02/2028	3/04/2028

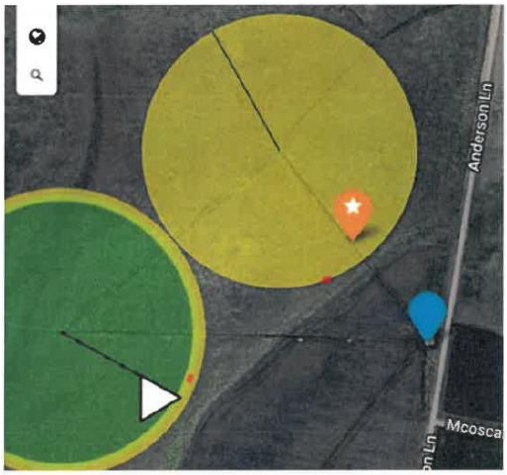
	confirmation of readiness for routine operation.		
TEP 6	**Objective of the condition** Stage 1: To achieve compliance with Condition 7-WT3 of EPPR00852813	29/02/2028	3/04/2028
	Condition The holder must collect at least five consecutive weekly samples of treated effluent under representative operating conditions and analyse each sample for: 1) 5-day BOD 2) Suspended Solids 3) pH 4) Dissolved Oxygen 5) E. coli		
	Performance Indicator Achievement of specified treatment effluent quality outcomes from at least five consecutive weekly samples. *Deliverable*: Laboratory reports and a compliance assessment demonstrating that the monitoring results comply with Condition 7-WT3 of EPPR00852813.		
TEP 7	**Objective of the condition** Stage 2: To achieve compliance with Condition 7-G15 of EPPR00852813	02/11/2026	31/01/2027
	Condition Revise and update the Clifton WWTP Irrigation Management Plan with current operating practices and additional data. Any MEDLI modelling undertaken must be based on no more than the most recent 60 years of available climatic data, to provide outputs that are representative of contemporary conditions and to avoid reliance on historical data that may be less representative or of lower quality.		
	Performance Indicator Update of Irrigation Management Plan (Revision 2). MEDLI model outputs captured in revision. *Deliverable*: Updated management plan and MEDLI outputs.		
TEP 8	**Objective of the condition**	7/08/2028	6/11/2028

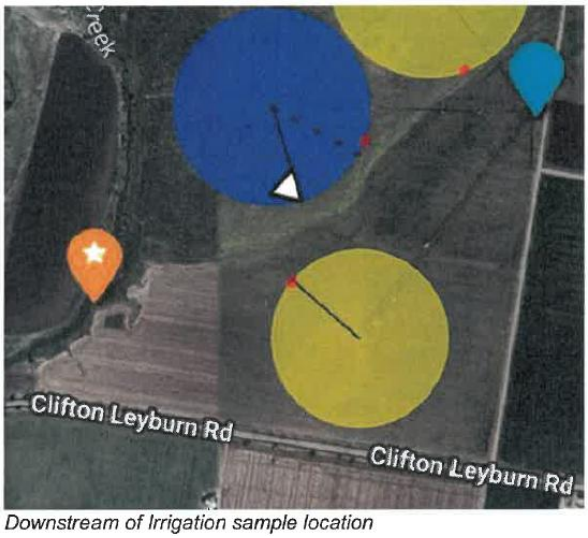
	Stage 2: To achieve compliance with Condition 7-G15 of EPPR00852813		
	Condition Irrigation Management Plan to be revised in preparation for the third-party user. The plan will be updated in accordance with "Guideline for low-exposure recycled water schemes" Class C.		
	Performance Indicator Achievement of irrigation management outcomes. *Deliverable*: Revised Irrigation Management Plan.		
TEP 9	**Objective of the condition** Stage 2: To achieve compliance with Condition 7-G15 of EPPR00852813	9/05/2028	6/11/2028
	Condition Engagement with suitable third-party to commence irrigation of effluent (recycled water reuse). Process includes: 1) Market sounding; 2) Tender release period; 3) Tender evaluation; 4) Council approval; and 5) Award of Agreement.		
	Performance Indicator Establishment of a third-party irrigation agreement. *Deliverable*: Award of package via VendorPanel (or similar public tender).		

Monitoring

Condition number	Condition	Commencement date	Completion date
1	**Effluent Release to Kings Creek at W1 during wet weather events** **Trigger and frequency:** Sampling must commence as soon as practicable after a release begins and, where safe and practicable, within 24 hours. Sampling must then occur weekly while the release continues, with a final sample collected within 24 hours before or after the release ceases.	29/09/2026	27/11/2028

	Parameters: • 5-day biochemical oxygen demand (BOD), • suspended solids, • pH, • dissolved oxygen • *E. coli* • electrical conductivity (EC), • total nitrogen (TN), • ammonia, nitrate, • nitrogen oxides (NOx), • total phosphorous (TP), • reactive P, • total and free chlorine **Locations and method:** Samples must be collected at W1 and at defined upstream and downstream reference locations identified in the monitoring plan. Samples must be collected by a suitably qualified person in accordance with the current *Queensland Government Monitoring and Sampling Manua*l and analysed by a laboratory accredited by NATA for the relevant analysis. **Reporting:** Results, release dates, duration and estimated volume must be included in the next two-monthly report.		
2	**Irrigation Management: Irrigation water quality** **Monitoring:** Weekly sampling for EC, pH, Turbidity, TN, TP, SAR, Free and Total Chlorine, E. Coli, odours. **Method:** Samples taken from pre-irrigation storage and sent to NATA certified lab for testing and reporting. **Reporting:** Recorded weekly and included into monthly reporting as required.  *Sample point for irrigation water quality*	29/09/2026	27/11/2028
3	**Irrigation Management: Soil quality of irrigation area/field** **Monitoring:** Annual sampling of TN, Nitrate, pH TP, and Exchangeable Sodium Percentage (ESP). However, if	29/09/2026	27/11/2028

	any of the investigation triggers noted in Condition G8 of this TEP is exceeded, soil monitoring and sampling must be conducted quarterly in accordance with the condition. **Method:** Samples taken with auger, at a single location and 3 depths for each pivot irrigation area. Samples are collected at depths of 0.0-0.1m, 0.2-0.3m and 0.5-0.6m. Samples will be sent to NATA certified lab for testing and reporting. **Reporting:** Once a year, included within project two-monthly reporting. However, if any of the investigation triggers noted in Condition G8 of this TEP is exceeded, reporting of the quarterly monitoring will be included in the two-monthly reporting.  *Pivot 1 Soil Sample Location*  *Pivot 2 Soil Sample Location*		

	 *Pivot 3 Soil Sample Location*		
4	**Irrigation Management: Crop condition** **Monitoring:** Monthly visual observations and any abnormalities to be recorded. **Reporting:** Any abnormalities as required.	29/09/2026	27/11/2028
5	**Irrigation Management: Surface water monitoring upstream and downstream of the irrigation area** **Monitoring:** Quarterly sampling for EC, pH, TN, TP, TDS (mg/L), Chlorophyll a (ug/mg/L), and E. coli (cfu/100 ml). **Method:** Samples taken from Kings Creek upstream and downstream of irrigation area, one from each section, and sent to NATA certified lab for testing and reporting. **Reporting:** Quarterly, included within project two-monthly reporting.  *Downstream of Irrigation sample location*	29/09/2026	27/11/2028

6	**Irrigation Management: Groundwater monitoring up-gradient and down-gradient of monitoring position** **Monitoring:** Quarterly sampling for Level, EC, pH, TN, TP and Depth to groundwater level. **Method:** Samples taken from bores up-gradient and down-gradient of irrigation area, one from each section, and sent to NATA certified lab for testing and reporting. **Reporting:** Quarterly, included within project two-monthly reporting. 	29/09/2026	27/11/2028

Reporting

Condition number	Condition	Commencement date	Completion date
1	**Two-monthly Report** The holder must provide a report for each two-month period ending on the last business day of September, November, January, March, May and July in each year the TEP remains active. Each report must be provided within 10 business days after the end of the reporting period and must include: monitoring results; dates, duration and estimated volume of releases at W1; irrigation records; milestone status; planned and actual completion dates; evidence of completed actions; delays and causes; corrective actions; forecast completion dates; incidents; non-compliances; and activities planned for the next reporting period. The holder must notify the administering authority within five business days after	12/10/2026	24/10/2028

	becoming aware that a milestone is likely to be missed.		
2	**6-monthly Report** The holder must provide a report for each six-month period on: • 31 March 2027 • 30 September 2027 • 31 March 2028 • 29 September 2028 Each six-monthly report must consolidate the preceding three two-monthly reports and provide an updated critical path, assessment of progress against each TEP objective, key project and environmental risks, effectiveness of corrective actions, expenditure and procurement status relevant to delivery, and a forecast for the next six months. Information already provided in a two-monthly report may be incorporated by reference rather than repeated.	9/03/2027	24/10/2028
3	**Establishment of third-party agreement** At the establishment of third-party operation of the irrigation scheme, the holder must provide a summary agreement acknowledging the third-party agreement is in place in accordance with the EA, executed by both parties.	-	06/11/2028
4	**Final Summary Report** Upon completion of the TEP, the holder must submit a summary report detailing compliance with all TEP conditions over the duration of the TEP and providing detailed information on how, and the extent to which, the objectives of the TEP have been met.	-	27/11/2028