



Northern
Territory
Government

AUDIT AND COMPLIANCE REPORT WASTE DISCHARGE LICENCE

LICENCE NUMBER	WDL151-04
REPORTING PERIOD	4 December 2013 to 24 November 2014

Please email a copy of your completed AACR to pollution@nt.gov.au.

ALL Licensees must check their Licence Details are correct.

If there are changes to any of these details you must advise the NT EPA in accordance with the conditions of your Waste Discharge Licence.

Licence Details

Licence Number: **WDL151-04**
Commencement Date: 03 January 2013
Expiry Date: 03 January 2015

Licensee Details

Legal Entity Name: Power and Water Corporation
ABN: 159 473 523 60
Registered Business Address: 15 Iliffe Street, Stuart Park Northern Territory 0820
Postal Address: PO Box 37471 Winnellie NT 0821
Contact Person: Water Services Executive Group
Contact Details:

b/h: 08 8985 7123
mobile: 0401 117 644
email: waterservicesexecutive@powerwater.com.au

Location of Operation to which the licence applies

Name: **Katherine Waste Water Treatment Plant**
Address: Portion No. 5764 and 1472 Township of Katherine
Telephone Numbers:

b/h: 08 89857108

24 hour emergency response

Contact Person: Power & Water Corporation Emergency Response Line
Telephone Numbers:

b/h: 1800 245 090

AUDIT AND COMPLIANCE REPORT WASTE DISCHARGE LICENCE 151-04

Recording and Reporting

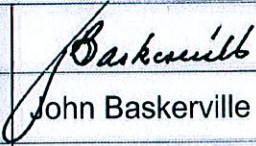
Complaints Recording

Number of complaints recorded by the Licensee during the reporting period	0
Summary of complaints	N/A
Summary of outcomes	N/A

Incidents

Number of incidents recorded by the Licensee during the reporting period	0
Summary of incidents	N/A
Summary of outcomes	N/A

Signature and Certification

This declaration must only be signed by a person(s) with the legal authority to sign it. The ways in which the declaration may be signed, and the people who may sign the declaration, are set out in the categories below.			
If the Licensee is:	Tick	The declaration must be signed and certified by one of the following:	
An individual	<input type="checkbox"/>	The individual.	
A company	<input type="checkbox"/>	The common seal being affixed in accordance with the <i>Corporations Act</i> , or	
	<input type="checkbox"/>	Two directors, or	
	<input type="checkbox"/>	A director and a company secretary, or	
	<input type="checkbox"/>	If a proprietary company that has a sole director who is also the sole company secretary – by that director.	
A public authority	<input checked="" type="checkbox"/>	The Chief Executive Officer (CEO) of the public authority, or	
	<input type="checkbox"/>	By a person delegated to sign on the public authority's behalf in accordance with its legislation (Please note: a copy of the relevant instrument of delegation must be attached to this report).	
I/We hereby declare that the information provided in this Audit and Compliance Report and accompanying documents is to the best of my/our knowledge, true and correct.			
Signature		Signature	
Name (printed)	John Baskerville	Name (printed)	
Position	Chief Executive	Position	
Date	1/12/14	Date	
Seal (if signing under seal):			

Condition	Action	How	Evidence	When (Date)	Status
1.	The Licensee must notify the NT EPA within 24 hours if there are changes to the details of the 24-hour emergency contact as provided on page one of this Licence.	Emergency contact unchanged during licence period	Not applicable	Ongoing	Not applicable
2.	The Licensee must notify the NT EPA within 14 days if there are changes to the Licensee details shown on page one of this Licence.	No change to licensee details in 2014	Not applicable	Ongoing	Not applicable
3.	The Licensee must notify the NT EPA within 14 days after ceasing to conduct the activity to which this Licence relates.	Activity ongoing	Not applicable	Ongoing	Not applicable
4.	The Licensee must notify the NT EPA prior to making any operational change that will cause, or is likely to cause, an increase in the potential for environmental harm, environmental nuisance, material environmental harm or serious environmental harm.	No relevant operation changes occurred during the licence period.	Not applicable	Ongoing	Not applicable
5.	The Licensee must cause a copy of this Licence to be available at all times: 5.1. on the Licensee's Australian website; and 5.2. at the Location.				
		WDL 151-04 on PWC internet site	Request email to add WDL 151-04 to PWC internet site - D2013/424480	15/08/2013	Compliant
		Latest version of WDL 151 on-site at front gate.	Verbal confirmation with Billy Flanagan	Ongoing	
		WDL on Aquanet (PWC intranet site)	Weblink	Ongoing	
6.	Where this Licence requires the provision of any notice, document or other correspondence to the Administering Agency, the relevant contact is: Pollution Control Unit NT EPA Physical Address: Level 2 Darwin Plaza, 41 Smith Street Mall, Darwin NT 0800 Postal Address: GPO Box 3675, Darwin NT 0801 Email: pollution@nt.gov.au	All notification emails sent to email address indicated within licence	Refer to notifications provided for specific conditions elsewhere	Ongoing	Compliant
7.	All notices, documents or other correspondence required to be provided pursuant to this Licence must be provided in both hard and electronic form unless otherwise specified as a condition of this Licence.	PWC has received confirmation from NT EPA that compliance with this clause is not necessary.	Email - D2014/222734	20/12/2013	Compliant
8.	The Licensee must, without limiting any other condition of this Licence in conducting the Activity do all things reasonable and practicable to ensure the Activity does not adversely affect the Declared Beneficial Uses and objectives as declared from time to time, including those applying to: 8.1. Katherine River; and 8.2. Katherine Area.	The Katherine WwTP environmental risk assessment, required by condition 27 of this licence, has found that no impact to the beneficial uses of the Katherine River occurs as a result of the Katherine WwTP.	Refer to condition 27 for link to Katherine WwTP desktop environmental risk assessment	Ongoing	Compliant

9.	<p>The Licensee must maintain and implement a communication plan which includes a strategy for communicating with members of the public who are likely to have a real interest in or be affected by the Activity.</p>	<p>PWC has implemented an approved communication strategy.</p> <p>This strategy is undergoing review to maintain its currency.</p> <p>The Katherine WwTP desktop environmental risk assessment has determined the residual environmental risk of the Katherine WwTP discharge to the Katherine River.</p> <p>The environmental risk assessment included a recommendation to undertake a survey to identify users of river water that are located downstream of the WwTP discharge. This work will inform the need for and development (if deemed necessary) of communication processes with these users.</p>	<p>Approved strategy D2011/589856</p> <p>Internal email notification of review of communication strategy - D2013/536577</p> <p>Refer to condition 27 for link to Katherine WwTP desktop environmental risk assessment</p>	<p>Ongoing</p> <p>10/10/2013</p> <p>2014</p>	Compliant						
10.	<p>The Licensee must maintain a log of each complaint, made in relation to the Activity, to any persons involved in the Activity. The log must include details of the following:</p> <ul style="list-style-type: none"> the date and time of the complaint; the contact details of the complainant if known, or where no details are provided a note to that effect; the nature of the complaint; the nature of events giving rise to the complaint; prevailing weather conditions at the time of the complaint; the action taken in relation to the complaint, including any follow-up contact with the complainant; and if no action was taken, why no action was taken. 	<p>Legible records maintained in both PWC complaints database MAXIMO and in the PWC WQ Group's Complaints Tracking Worksheet. MAXIMO does not include all required fields indicated below. Complaints Tracking Worksheet includes all required fields.</p> <p>Recorded in MAXIMO and WQ group's record.</p> <p>Recorded in MAXIMO and WQ group's record.</p> <p>Recorded in MAXIMO and WQ group's record.</p> <p>Recorded in MAXIMO and WQ group's record.</p> <p>Not recorded in MAXIMO but recorded in WQ groups record.</p> <p>Recorded in MAXIMO and WQ group's record.</p> <p>Not recorded in MAXIMO but recorded in WQ groups record.</p>	<p>MAXIMO report on complaints from the Katherine region - D2014/593589</p> <p>Complaints Tracking Worksheet in Compliance Matrix Tracking File - D2012/66732</p> <p>See above</p>	<p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p>	Compliant						
11.	<p>This licence authorises wastewater to be discharged from the authorised discharge point identified in Table 1 and shown in Attachment 1.</p> <table border="1" data-bbox="320 1675 1181 1837"> <thead> <tr> <th data-bbox="320 1696 608 1759">Authorised Discharge Point</th> <th data-bbox="608 1696 890 1759">Description</th> <th data-bbox="890 1696 1181 1759">Location (GDA94, Zone 53)</th> </tr> </thead> <tbody> <tr> <td data-bbox="320 1759 608 1837">Katherine Discharge Pipe</td> <td data-bbox="608 1759 890 1837">Katherine WwTP final discharge to outfall at Katherine River</td> <td data-bbox="890 1759 1181 1837">Easting: 201398 Northing: 8394663</td> </tr> </tbody> </table>	Authorised Discharge Point	Description	Location (GDA94, Zone 53)	Katherine Discharge Pipe	Katherine WwTP final discharge to outfall at Katherine River	Easting: 201398 Northing: 8394663	No discharges occurred from a point other than the authorised discharge point	No records of overflow notifications in Katherine WwTP compliance container - F2006/5055	Ongoing	Compliant
Authorised Discharge Point	Description	Location (GDA94, Zone 53)									
Katherine Discharge Pipe	Katherine WwTP final discharge to outfall at Katherine River	Easting: 201398 Northing: 8394663									

12.	Discharges from the Authorised Discharge Point must only occur when Katherine River at Gauging Station G8140001 is at a minimum flow of 66.7kL/s.	All authorised discharges were conducted when the flow rate of the Katherine River was greater than 66.7 kL/s at G8140001. This fact was assessed and communicated to EPA within Waste Discharge Licence 151-04 Katherine Wastewater Treatment Plant 2014 Monitoring Report	Waste Discharge Licence 151-04 Katherine Wastewater Treatment Plant 2014 Monitoring Report - D2014/522592	Ongoing	Compliant
13.	Waste water(s) discharged from the authorised discharge points in Table 1 must not: <ul style="list-style-type: none"> contain floating oil and grease or petroleum hydrocarbon sheen or scum, or litter or other objectionable matter; cause or generate odours which would adversely affect the use of surrounding waters; cause algal blooms; cause visible change in the behaviour of fish or other aquatic organisms; cause mortality of fish or other aquatic organisms; or cause adverse impacts on plants. 	PWC performed regular observation monitoring during the 2013-14 Wet Season. Observations were performed every day of discharge and operators have confirmed verbally no solid matter was ever observed in the discharged effluent. PWC has records for all days of observation except those in January, and 5/2, 19/2 and 25/2.	Refer to Katherine WwTP Sample collection submission form summary and visual observations - 2014 ACR - D2014/592710	Ongoing	Compliant
14.	The licensee must for all terrestrial sampling locations required by this Licence: <p>14.1. install, maintain and provide appropriate identification signage so that they are easily identifiable at all times; and</p> <p>14.2. maintain safe access and egress, as is reasonably practicable.</p>				
		Sign installed at Ska100	Emailed EPA - D2013/097763	20/02/2013	Compliant
		Site visit with NT EPA staff on 25/09/2013 confirmed safe access to sampling points. Access has not changed since then.	Site layout drawing B05-6334 - D2013/638674	Ongoing	Compliant
Online site induction required for employees, visitors and contractors prior to site entry. PWC in-house field work performed under an OHS management system comprising various controls including checklists, job safety and environment analysis (task level risk assessment approach) etc.	Induction records maintained online in Rapid Induct system	Ongoing			
15.	For each sample required to be collected by this Licence the following information must be recorded and retained: <ul style="list-style-type: none"> the date(s) on which the sample was taken; 				
		Data stored within PWCs water quality database and reported within Monitoring Report		Stored when received and permanently retained	Compliant

	<ul style="list-style-type: none"> the time(s) at which the sample was collected; the point(s) at which the sample was taken; the name of the person who collected the sample; the chain of custody forms relating to the sample(s); the field measurements and/or analytical results for the sample; and laboratory QA/QC documentation. 	Data stored within PWCs water quality database and reported within Monitoring Report	Waste Discharge Licence 151-04 Katherine Wastewater Treatment Plant 2014 Monitoring Report - D2014/522592	Stored when received and permanently retained	Compliant
		Data stored within PWCs water quality database and reported within Monitoring Report		Stored when received and permanently retained	Compliant
		Chain of custody forms for all discharge samples present except for bacteriological, field and phys/chem/nutrients samples on 22/1 and 23/1 and bacteriological and field samples on 28/1	Forms stored within F2013/3968	Stored when received and permanently retained	Non-compliant
				Stored when received and permanently retained	
		Data stored within PWCs water quality database and reported within Monitoring Report	Waste Discharge Licence 151-04 Katherine Wastewater Treatment Plant 2014 Monitoring Report - D2014/522592	Stored when received and permanently retained	Compliant
		PWC uses three laboratories for analysis of samples associated with WDL monitoring DPIF Water Chemistry Laboratory, DPIF Microbiology Laboratory, and; Northern Territory Environmental Laboratories Each laboratory is NATA accredited and relevant QA/QC documentation is available on request.	NATA Accreditation numbers DPIF Water Chemistry Laboratory - 15104 DPIF Water Microbiology Laboratory - 15489 NTEL - 14610	Ongoing	Compliant
16.	Surface water monitoring must be conducted in accordance with Appendix 1	<p>Appendix 1 requires a range of parameters to be sampled from the discharge on a monthly basis. This frequency is not particularly appropriate given the event based discharges of the Katherine WwTP.</p> <p>PWC drastically increased the frequency of effluent monitoring in the 2013-14 Wet Season in order to better characterise the effluent discharged.</p> <p>This monitoring was successful in characterising the effluent, as detailed in the Monitoring Report.</p>	Waste Discharge Licence 151-04 Katherine Wastewater Treatment Plant 2014 Monitoring Report - D2014/522592 This report summarises the monitoring undertaken during discharge events.	Not applicable	Compliant

17.	Biological monitoring must be conducted in accordance with the <i>AUSRIVAS Monitoring, Katherine River, Treated Effluent Discharge Site</i> , Tropical Water Solutions, June 2011 and September 2012.	No biological monitoring was required in 2014	Not applicable	Not applicable	Not applicable
18.	All records required to be kept by this Licence must be in a legible format.	PWC complies with this condition through a dedicated record management system (TRIM) which is used for all aspects of licence record keeping related to documents. In addition, monitoring data is stored in a water quality database (WQFA).	Please refer to TRIM record numbers provided as evidence against each condition	Ongoing	Compliant
19.	The Licensee must keep records of all non-compliances with this Licence.	Compliance Matrix Tracking Sheet contains a register of non-compliances.	Compliance Matrix Tracking Sheet - D2012/66732	Ongoing	Compliant
		Email records of notification of non-compliances to NTEPA stored in dedicated WDL administration folder for the Katherine WwTP	WDL 151 compliance and administration folder - F2006/5056		
20.	The Licensee must as soon as practicable and in any case within 24 hours notify the NT EPA of non-compliances with this Licence.	PWC notified NTEPA within 24 hours of becoming aware that the failure to collect discharge volume measurements was a non-compliance with clause 24.3	Non-compliance email - D2014/543947	27/10/2014	Compliant
21.	The Licensee must immediately and in any case within 24 hours notify the NT EPA of any potential or actual environmental harm or pollution by contacting the Pollution Hotline on telephone number 1800 064 567 and emailing pollution@nt.gov.au.	PWC is not aware of any potential or actual environmental harm that is not subject to the conditions of this licence and not communicated to NT EPA	WDL 151 compliance and administration folder - F2006/5056	Ongoing	Compliant
22.	The Licensee must comply with the requirements of section 14 of the <i>Waste Management and Pollution Control Act</i> .	No section 14 incidents during the reporting period.	WDL 151 compliance and administration folder - F2006/5056	Ongoing	Compliant
23.	The Licensee must complete the attached Annual Audit and Compliance Report (AACR), Appendix 2 and provide to the Administering Agency a minimum of <u>20 Business Days</u> prior to the anniversary of the commencement date of this Licence, for each year of this Licence.	AACR submitted on 31 November 2014.	This document in preparation - D2014/591464	4/12/2013	Compliant

24.	<p>The Licensee must provide to the NT EPA by 31 October for each year of the Licence period a Monitoring Report. The Monitoring Report must:</p> <p>24.1. be prepared in accordance with the requirements for a Monitoring Report identified on pages 12-21 of the document: Guidelines for Consultants Reporting on Environmental Issues available from: http://www.nretas.nt.gov.au/data/assets/pdf_file/0009/14031/consultants_reporting_environmental_issues.pdf;</p> <p>24.2. include river height and flow telemetry at GS 8140001;</p> <p>24.3. include volume of waste water discharge at Ska100;</p> <p>24.4. include calculated dilution rates based on river height, flow telemetry and volume of waste water discharge;</p> <p>24.5. include the calculated estimate of the water quality in the Katherine River immediately downstream of the waste water discharge based on the water quality of the effluent measured at Ska100, and calculated dilution rate;</p> <p>24.6. include a comparison of estimated water quality from condition 24.5 with the relevant guidelines specified in Chapters 3, 4 and 5 of the <i>Australian and New Zealand Guidelines for Fresh and Marine Water Quality</i> (ANZECC 2000), or site specific trigger values, whichever are applicable; and</p> <p>24.7. include a trend analysis and interpretation of all monitoring data required as a condition of this Licence including surface water and biological monitoring.</p>	<p>PWC submitted the Waste Discharge Licence 151-04 Katherine Wastewater Treatment Plant 2014 Monitoring Report on 30 October 2014.</p> <p>PWC considers the report to have appropriately covered conditions 24.1, 24.2 and 24.7</p>	Report submission email - D2014/550355	31/10/2013	Compliant
		<p>A technical problem with the WwTP outlet flow meter prevented the measurement of the volume of effluent discharged to the Katherine River in the 2013-14 Wet Season. This problem was communicated to NT EPA and has since been rectified.</p>	Non-compliance email - D2014/543947	27/10/2014	Non-compliant
		<p>These requirements are difficult to achieve practically, and do not add value to the Monitoring Report. As a result, PWC have submitted the 2014 Monitoring Report without providing this information.</p> <p>PWC have discussed the practicality of these clauses with NTEPA, and both parties have agreed to have these conditions removed from further licences.</p>	Not applicable	Not applicable	Not applicable
		See above condition 24.1 and 24.2	Not applicable	Not applicable	Compliant
		25.	<p>The Licensee must provide to the NT EPA a minimum of 20 Business Days prior to the expiry date of this Licence a Licence Report. The Licence Report must include:</p> <p>25.1. an update of the conceptual site model provided in condition 26 with the data collected during this Licence period;</p> <p>25.2. an update of the desktop environmental risk assessment provided in condition 27 with the data collected during this Licence period;</p>	Licence Report submitted on 31 November 2014	Report submission email -

26.	The Licensee must submit to the NT EPA by <u>31 May 2013</u> a Conceptual Site Model for the Katherine WwTP and discharges noting that the NT EPA may	Not applicable in this reporting period	Not applicable	Not applicable	Not applicable
27.	The Licensee must submit to the NT EPA a desktop environmental risk assessment for the Licensed Activity. The environmental risk assessment must be: 27.1. conducted with reference to the conceptual site model developed in accordance with condition 26 of this Licence; and 27.2. submitted to the NT EPA by <u>30 June 2013</u> noting that the NT EPA may require the Licensee to revise, amend and/or resubmit the proposed assessment.	Not applicable in this reporting period	Not applicable	Not applicable	Not applicable
28.	The licensee must submit a plan for developing site specific trigger values (SSTV) to the NT EPA by <u>31 July 2013</u> . The plan for developing SSTV must be: 28.1. developed by a person(s) with demonstrated experience in developing trigger values using the ANZECC 2000 Guidelines; 28.2. approved by the NT EPA, noting that the NT EPA may require the Licensee to revise, amend and/or resubmit the proposed plan; and 28.3. implemented within <u>10 Business Days</u> of receiving written approval of the plan for developing SSTV from the NT EPA	Not applicable in this reporting period	Not applicable	Not applicable	Not applicable
29.	Any proposed revisions of the plan for developing SSTV must be: 29.1. submitted to the NT EPA for review; and 29.2. be approved by the NT EPA prior to implementation noting that the NT EPA may require the Licensee to revise, amend and/or resubmit the proposed revision.	Not applicable in this reporting period	Not applicable	Not applicable	Not applicable