

SECTION 14 INCIDENT REPORT (*Waste Management and Pollution Control Act*)

Date and Time of Notification:	Thursday 28 th November 2019, 15:59pm
Person / Company:	Power and Water Corporation (PWC)
Incident:	Discharge of raw sewage from sewerage network (sewer manhole cover to roadside stormwater drain)

<p>(a) the incident causing or threatening to cause pollution</p>	<p><i>i. Description of the waste that was discharged.</i></p> <p>Raw sewage.</p> <p><i>ii. Indicative wastewater quality for the discharge.</i></p> <p>Indicative wastewater quality for this overflow can be found in Table 1. Rainfall leading up to the overflow was 3.0mm for the previous 2 days (BOM Weather Stn: 014015 – Darwin Airport), therefore raw sewage is believed to have overflowed from the manhole – this is reflected as Average Dry Weather Flows (>ADWF) in Table 1 below.</p> <p style="text-align: center;">Table 1: Inflow to Ludmilla Wastewater Treatment Plant</p> <table border="1" data-bbox="619 1272 1414 1442"> <thead> <tr> <th>Inflow volume</th> <th>median inflow kL</th> <th>median E coli</th> <th>90th percentile inflow kL</th> <th>90th percentile E coli</th> </tr> </thead> <tbody> <tr> <td>below ADWF</td> <td>11,040</td> <td>11,199,000</td> <td>12,925</td> <td>15,531,000</td> </tr> <tr> <td>>ADWF (14.5 ML/day)</td> <td>15,274</td> <td>9,804,000</td> <td>22,206</td> <td>17,148,300</td> </tr> <tr> <td>>2x ADWF (29.0 ML/day)</td> <td>31,673</td> <td>4,884,000</td> <td>37,166</td> <td>14,385,600</td> </tr> <tr> <td>>3x ADWF (43.5 ML/day)</td> <td>43,629</td> <td>4,611,000</td> <td>50,506</td> <td>12,843,600</td> </tr> <tr> <td>>5x ADWF (72.5 ML/day)</td> <td>71,558</td> <td>5,002,000</td> <td>78,578</td> <td>5,905,200</td> </tr> <tr> <td>>WDL limit (89.5 ML/day)</td> <td>102,445</td> <td>102,445</td> <td>148,575</td> <td>13,704,400</td> </tr> </tbody> </table> <p style="text-align: center;">(ADWF= Average Dry Weather Flow ~14.5 ML/day in 2013/14)</p> <p><i>iii. Volume of the waste that was discharged.</i></p> <p>The volume of waste discharged is unknown. No telemetric monitoring occurs at this location.</p> <p>This overflow was noticed by a PWC field crew member driving past the location, who then notified the relevant sewerage networks department, which shortly after attended the scene. Upon arrival it was noticed that the sewer Ac 1/4/3 was overflowing onto the grassed verge, then onto the kerb, which ran along the kerb into a side entry stormwater pit. The start time of the overflow is unknown and there is no metered data available for manholes to determine a volume of the overflow.</p>	Inflow volume	median inflow kL	median E coli	90th percentile inflow kL	90th percentile E coli	below ADWF	11,040	11,199,000	12,925	15,531,000	>ADWF (14.5 ML/day)	15,274	9,804,000	22,206	17,148,300	>2x ADWF (29.0 ML/day)	31,673	4,884,000	37,166	14,385,600	>3x ADWF (43.5 ML/day)	43,629	4,611,000	50,506	12,843,600	>5x ADWF (72.5 ML/day)	71,558	5,002,000	78,578	5,905,200	>WDL limit (89.5 ML/day)	102,445	102,445	148,575	13,704,400
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<p>(b) the place where the incident occurred</p>	<p>57 Benison Road, Winnellie</p>																																			

	<p><i>i. Description of the PWC asset from which the discharge occurred.</i> Sewer manhole cover (1/4/3) located at 57 Benison Road, Winnellie, – as per map below.</p> <p><i>ii. GPS coordinates of the discharge point from the PWC asset, and the final coordinates of the final discharge point.</i></p> <p>Discharge Point: 130.8688624, -12.4306549</p> <p><i>iii. Indicate any locations nearby to the discharge point where public can gain ready-access, such as public open spaces through which the discharge moves.</i></p> <p>Access to the public is possible in the small section of grassed road verge between the manhole cover and the road. Spill has been fenced and signage erected. Clean up was undertaken as per Sewage Spills/Overflow Response Work Instruction.</p>
(c) the date and time of the incident	<p><i>i. The time and date of commencement and cessation of the discharge.</i> The commencement time of the overflow is unknown. The overflow was first observed by PWC staff at approximately 08:00am on 28/11/19 and was stopped shortly after site crews attended site at 08:20am (28/11/19).</p> <p><i>ii. How PWC were notified, or became aware of the discharge.</i> This overflow was noticed by a PWC field crew member driving past the location, who then notified the relevant sewerage networks department. PWC staff attended the site at approx. 08:20am 28/11/19 and resolved the overflow and cleaned the area.</p> <p><i>iii. The process by which the discharge occurred.</i> The cause of the overflow was due to a blockage within the sewer pit, which was due to a sewer bung being left in the pit by a contractor external of PWC, for a subdivision of lot 5472.</p> <p><i>iv. The reason why the discharge occurred.</i> As per (c) iii.</p>
(d) how the pollution has occurred, is occurring or may occur	As per (c) iii & (c) iv.
(e) the attempts made to prevent, reduce, control, rectify or clean up the pollution or resultant environmental harm caused or threatening to be caused by the incident	<p>The blockage was cleared, and the overflow was stopped. Clean up undertaken as per Sewage Spills/Overflow Response Work Instruction.</p> <p><i>i. Confirmation signage and fencing has been erected, as appropriate.</i> The site was fenced and signage erected.</p> <p><i>ii. Decontamination of the site as appropriate.</i> Clean up consistent with Sewage Spills/Overflow Response Work Instruction as appropriate to the location, and to minimise risk to the environment.</p>
(f) the identity of the person notifying the NT EPA	PWC Environmental Team on behalf of Water Services

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