Northern Territory Environment Protection Authority

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

Date and Time of Notification:	Tuesday 05/11/2019 13:00hrs
Person / Company:	Power and Water Corporation (**PWC**)
Incident:	Discharge of raw sewage from sewerage network (pin hole in steel pipe section)

(a) the incident causing or threatening to cause pollution

i. Description of the waste that was discharged.

Raw sewage (no gross pollutants)

ii. Indicative wastewater quality for the discharge.

Indicative wastewater quality for this overflow can be found in Table 1. Rainfall leading up to the overflow was 1.4mm for the preceding 3 days (Darwin Airport – 014015), therefore raw sewage is believed to have overflowed from the rising main – this is reflected as Average Dry Weather Flows (ADWF) in Table 1 below.

Table 1: Inflow to Ludmilla Wastewater Treatment Plant

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

(ADWF= Average Dry Weather Flow ~14.5 ML/day in 2013/14)

iii. Volume of the waste that was discharged.

The volume of waste discharged is unknown. No telemetric monitoring occurs at the site of discharge. PWC operations estimate less than 1000 litres overflowed.
This overflow was notified to PWC call centre, from which PWC operations staff responded to the call and noticed an overflow from a suspected ruptured rising. The start time of the overflow is unknown and there is no metered data available to determine an accurate volume of the overflow.

(b) the place where the incident occurred

i. Description of the PWC asset from which the discharge occurred.
A section of steel pipe (T-piece manifold) from the sewer rising main located at corner of Lakeside Drive and Trower Road, Alawa – as per map below.

	ii. GPS coordinates of the discharge point from the PWC asset, and the final coordinates of the final discharge point. Discharge Point: 130.868687, -12.383957 Final Discharge Point: 130.868687, -12.383957 *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.* Access was possible by the public, however the area impacted by the discharge on land had been fenced off, and preventing access. The area was checked for gross pollutants of which none were visible. Clean up was undertaken as per Sewage Spills/Overflow Response Work Instruction.
(c) the date and time of the incident	*i. The time and date of commencement and cessation of the discharge.* The commencement time of the overflow is unknown. The overflow was observed at approximately 15:30hrs by PWC staff on 04/11/2019 and the spill was stopped by 16:00hrs 04/11/2019. *ii. How PWC were notified, or became aware of the discharge.* PWC call centre was notified of the overflow, this was then reported to the on call PWC staff who attended the site at approx. 15:30hrs (10/11/2019). *iii. The process by which the discharge occurred.* The spill originated from a pin hole in a section of steel pipework (T-piece manifold) of the sewage rising main. *iv. The reason why the discharge occurred.* Corrosion on a “T” piece manifold.
(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	*i. Confirmation signage and fencing has been erected, as appropriate.* The site had been fenced off and warning signage installed to alert the public as per Sewage Spills/Overflow Response Work Instruction, during the time of the repair. *ii. Decontamination of the site as appropriate.* Clean up consistent with Sewage Spills/Overflow Response Work Instruction as appropriate to the location, and to minimise risk to the environment.
(f) the identity of the person notifying the NT EPA	PWC Environmental Team on behalf of Water Services

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