

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

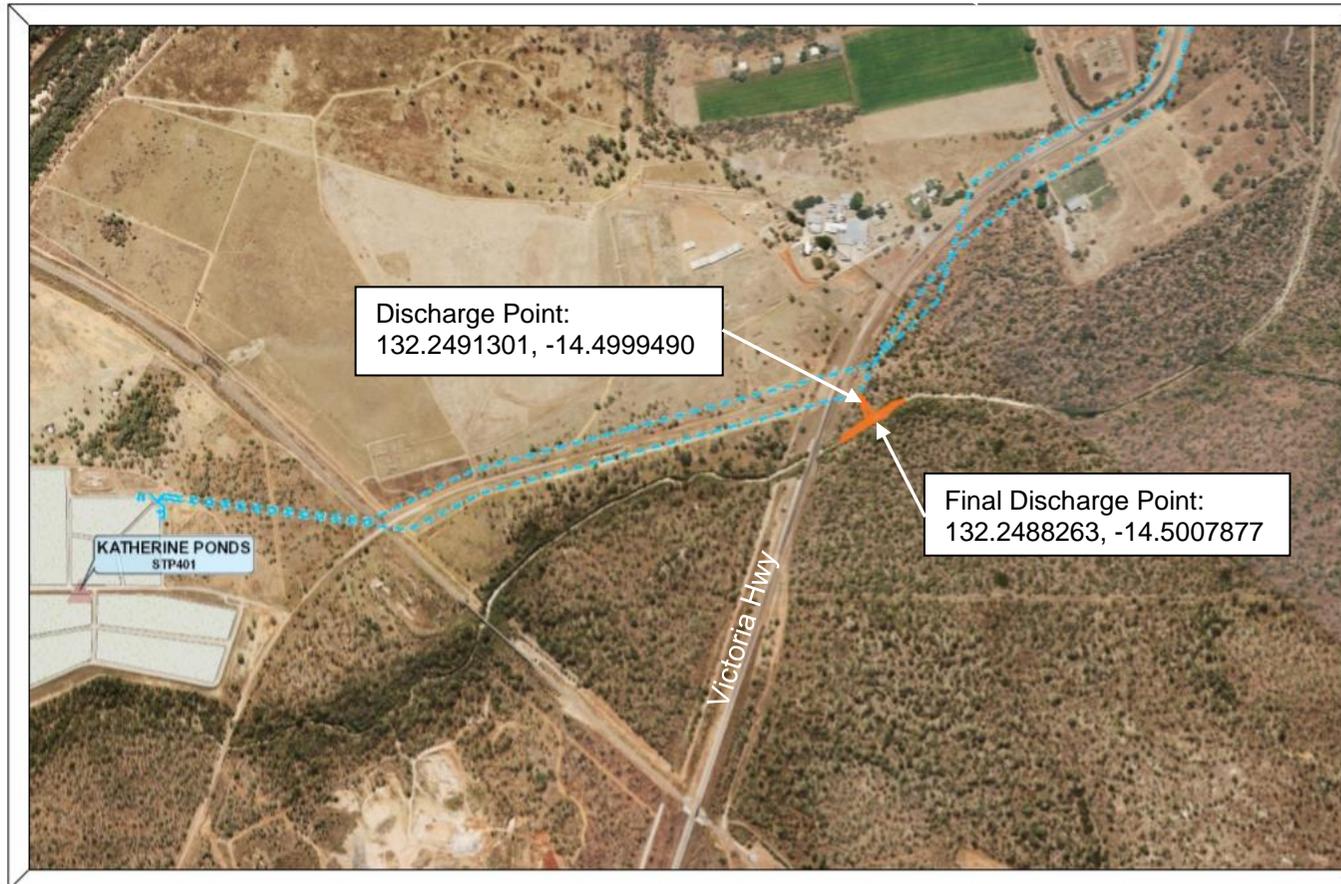
<b>Date and Time of Notification:</b>	Wednesday 11/11/2020 16:09hrs
<b>Person / Company:</b>	Power and Water Corporation ( <b>PWC</b> )
<b>Incident:</b>	Discharge of raw sewage from sewerage network (sewer main)

<p><b>(a) the incident causing or threatening to cause pollution</b></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>Wastewater quality data for the incoming raw sewage to the Katherine Wastewater Treatment Plant (WWTP) can be found attached. Rainfall leading up to the overflow was 0mm for the preceding 3 days (Tindal RAAF – 014932), indicating that flows were average dry weather flows, with no dilution, and believed to be consistent with the wastewater data attached.</p> <p><i>iii. Volume of the waste that was discharged.</i></p> <p>The volume of waste discharged is unknown, but estimated to be around 31,500 litres based on flowrates. This estimation is based upon a drop in flow rate at the inlet of the Katherine WWTP, which is believed to be associated with the leak from the main. No telemetric monitoring occurs at the site of discharge.</p>
<p><b>(b) the place where the incident occurred</b></p>	<p><i>i. Description of the PWC asset from which the discharge occurred.</i></p> <p>300mm asbestos cement sewer main pipeline.</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: 132.2491301, -14.4999490 Final Discharge Point: 132.2488263, -14.5007877</p> <p>The overflow occurred from a section of main as per map below, and track across land to the nearby ephemeral creek, which is currently dry.</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>There is no public access to the spill site, as it occurred on a private, fenced pastoral property. All residents at the property have been made aware of the spill and advised to avoid contact with the area.</p>
<p><b>(c) the date and time of the incident</b></p>	<p><i>i. The time and date of commencement and cessation of the discharge.</i></p> <p>The commencement time of the spill was approximately 12:00hrs on 08/11/2020 – this is based off a review of telemetric monitoring at the Katherine WWTP inlet after notification of the overflow. The overflow was observed at 14:00hrs by PWC staff on 11/11/2020 and the spill was stopped by 15:00hrs 11/11/2020.</p> <p><i>ii. How PWC were notified, or became aware of the discharge.</i></p> <p>A member of the public that noticed the spill whilst walking along the Victoria Highway, reported this overflow to the PWC call centre, who then relayed the information to the on-call PWC operations staff. PWC personnel attended the site at 14:00hrs (11/11/20) and undertook action to resolve the situation and make it safe, by diverting all flows to the secondary main.</p> <p><i>iii. The process by which the discharge occurred.</i></p> <p>During normal operations, wastewater being discharged from the sewer pump station to the wastewater ponds, overflowed via a section of deteriorated asbestos cement pipeline.</p> <p><i>iv. The reason why the discharge occurred.</i></p> <p>As per (c) iii.</p>
<p><b>(d) how the pollution has occurred, is occurring or may occur</b></p>	<p>As per (c) iii.</p>
<p><b>(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</b></p>	<p><i>i. Confirmation signage and fencing has been erected, as appropriate.</i></p> <p>No signage or fencing was erected in this instance, as the spill occurred within a fenced, private pastoral property. The property owner was advised to avoid contact with the area.</p> <p><i>ii. Decontamination of the site as appropriate.</i></p> <p>Clean up consistent with Sewage Spills/Overflow Response Work Instruction as appropriate to the location, and to minimise risk to the Environment. Site inspected for any gross pollutants, which were cleaned up. Landholders advised not to enter affected areas for a minimum of 5 days after clean up.</p>
<p><b>(f) the identity of the person notifying the NT EPA</b></p>	<p>PWC Environmental Team on behalf of Water Services</p>

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

### Appendix A – Spill Location & Extent map



**PowerWater**



0 250.0 500.0 Meters  
Scale 1: 10,000

Location Map of Sewage Spill from Rising Main - Victoria Hwy,  
Katherine

12/11/2020

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

### Appendix B – Latest Wastewater Quality Monitoring Data for Inflows to the Katherine WWTP

Sample Date	Location	Description
26/10/2020	SKA001	SKA001 KATHERINE INLET SEWER
Bacteriological		
E. coli		Enterococci
E. Coli (MPN/100mL)	Enterococci (MPN/100mL)	
>	24,196,000	1,017,000.0

Field Measurements														
Dissolved oxygen (field)			Electrical Conductivity (field)			Salinity			Temperature (field)		Turbidity (field)		pH (field)	
(DO) - field (%sat)		(DO) - field (mg/L)	EC (field) (mS/cm)		Salinity (PSS)	Salinity (mg/L)		Temp (field) (deg C)		Turbidity (field) (NTU)		pH (field) (pH units)		
45.5		3.3	0.77		0.38			33.18		416.0		8.39		

Physical and General Chemical								
Alkalinity	Ammonia as N			Bicarbonate (HCO3)	Biochemical Oxygen De	Calcium (Ca)	Carbonate (CO3)	Chemical Oxygen Demand
Alkalinity (mg CaCO3/L)	Ammonia as N (Free) (mg/L)	Ammonia as N (Organic) (mg/L)	Bicarbonate (HCO3) (mg/	Biochemical Oxygen De	Calcium (Ca) (mg/L)	Carbonate (CO3) (mg/L)	Chemical Oxygen Demand (mg/L)	
270.0	41.0	12.0	330.0	310.0	16.1	<	10.0	690.0

Chloride (Cl)	Electrical Conductivity (lab)	Hardness	Hydroxide (OH)	Magnesium (Mg)	Nitrate (NO3)	Nitrate + Nitrite as N (NOx)	Nitrite (NO2)
Chloride (Cl) (mg/L)	Electrical Conductivity (Lab) (uS/c	Hardness (mg CaCO3/L)	Hydroxide (OH) (mg/L)	Magnesium (Mg) (mg/L)	Nitrate as N (NO3_N)	Nitrate + Nitrite as N (NOx)	Nitrite as N (NO2_N) (mg/L)
	790.0	68.2	<	1.0	6.8	<	0.1
Phosphorus - Filterable Reactive as P	Phosphorus - Total	Potassium (K)	S as Sulphate (S as SO4)			Sodium (Na)	
Phosphorus - Filterable Reactive as P (mg/L)	Phosphorus - Total (P-Ch) (mg/L)	Potassium (K) (mg/L)	S as Sulphate (S as SO4)	S as Sulphate (S as SO4)	Sodium (Na) (mg/L)		
6.3	7.4	14.9			19.8	59.4	

Suspended Solids	Total Dissolved Solids	Volatile Suspended Solids	pH (lab)
Suspended Solids (mg/L)	Total Dissolved Solids (calculated	Volatile Suspended Solids (mg/L)	pH (lab) (pH units)
277.0	500.0	257.0	7.23