



## **DIRECTOR SHIRE SERVICES REPORT**

14 June 2005

<b>DSS6</b>	<b>HAT HEAD SEWERAGE</b>
	<b>FILE: S8-24 DH</b>

### **SUMMARY:**

Reporting on the operating and maintenance of the Hat Head sewerage system.



This report is provided following the resolution from the Council meeting and updates the previous report regarding operation and maintenance of the Hat Head Sewerage Scheme.

### **Amenities Block – Hat Head**

The old Shower Block on the hill area of the caravan park has been connected to the sewerage system via a vacuum pot behind the cabins. This was not catered for in the design of the sewerage system and is contributing to overloading of that pot in times of heavy loading and rainfall. Another major source of flooding of this sewerage collection well is infiltration through gully traps from a number of site cabins in low areas in times of heavy rain. This results in failure of the sewerage vacuum system and flooding to campers camping in the area.

To resolve this problem two actions are needed:

1. The shower block should be re-connected to the large sewerage collection pit near the shelter shed, or alternatively to the collection pit over the road near the reception office.
2. Check valves installed on the cabin gully traps that are flood prone.

### **Sewerage Treatment Plant**

United Kilpatrick Green visited the STP from the 03/05/05 to the 06/05/05 to finalise outstanding modifications to the plant and the following work was carried out:

# H - 2

- The replacement of all the hoses in the digester and sludge storage tanks.
- Cleaning out the carry over from the chlorine contact tank.
- Visual and physio-chemical testing of the basin diffusers.
- Continued process improvements on the plant.

## **Sewerage Pumping Station.**

Airvac installed new Transfer Pumps and motors between the 03/05/2005 and the 06/05/2005 which are performing satisfactorily to date.

The new pump units now have an extension of 52-weeks defects liability period (DLP) for the pumps from the date of installation.

## **Dune Disposal.**

No current problems with effluent disposal to date.

## **EPA License compliance.**

Results have been assessed to the 100<sup>th</sup> percentile of the EPA Licence operating criteria the results shown below:

	<b>O&amp;G</b>	<b>Ph</b>	<b>TN</b>	<b>TP</b>	<b>F Coli</b>	<b>NH4-N</b>	<b>TSS</b>	<b>BOD</b>
<b>23.03.05</b>	0.50	6.50	19.84	0.88	1.00	0.02	6.50	1.00
<b>5.04.05</b>	0.50	6.78	8.18	0.58	1.00	6.10*	5.50	1.00
<b>20.04.05</b>	0.05	6.31*	3.37	0.69	1.00	1.16	11.00	1.00
<b>3.05.05</b>	0.05	6.32*	15.69	1.27*	1.00	8.30*	29.00	1.00
<b>100%ILE</b>	<b>6.00</b>	<b>6.5-8.5</b>	<b>20.00</b>	<b>1.00</b>	<b>600.00</b>	<b>5.00</b>	<b>30.00</b>	<b>20.00</b>

United Kilpatrick Green has investigated instances of non-compliance (indicated \*) with the primary cause of the non-compliant events being:

- Problems with Alum dosing mid – April.
- Pump station failure in May on several occasions starving the plant of flow for several hours.

## ***REPORT IMPLICATIONS:***

### **▪ *Environmental Implications***

***When completed and running efficiently the sewerage system will improve the environment of Hat Head.***

### **▪ *Social Implications***

***The moratorium on future development in Hat Head under DCP37 will continue until the sewerage system is fully functional.***

- *Economic (Financial) Implications*

*There are no economic implications as all costs are borne by the contractors*

- *Policy or Statutory Implications*

*There are no policy or statutory implications from the following recommendations*

- *Director's Review*

*Improvements to the system have occurred and will continue to improve the sewerage system to a satisfactory level.*

**RECOMMENDATION:**

That the information be noted.

.....  
**DIRECTOR SHIRE SERVICES**  
**K J Finnie**