



**KEMPSEY**  
Shire Council

## **DIRECTOR SHIRE SERVICE'S REPORT**

13 September 2005

**DSS10 HAT HEAD SEWERAGE**  
**FILE: 217 DWH**

### **SUMMARY:**

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



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

### **Amenities Block - Hat Head**

- Work Commenced 16th August to re-connect the Amenities Block sewer line to the larger sewerage collection pit near the shelter shed.

### **Sewerage Treatment Plant**

Process Engineer (Brian Lam) from United Kilpatrick Green (UKG) arrived on site on the 26<sup>th</sup> July and is still providing on-site support.

Brian Lam is also addressing the following items on the agenda:

- Tenix to attend site to repair floats.
- Repair of the supernatant valve.
- Repair of one Chlorine pump.
- Replace DO meter.
- Repairs to degritter.
- Replacing RAS ball valves.

## Sewerage Pumping Station

Airvac contacted on the 11<sup>th</sup> August regarding pump no 2 making a loud mechanical noise (louder than the usual start up noise) and the pump was shut down (awaiting assessment by Airvac). On the 12<sup>th</sup> August Dave Saunders from Airvac arrived and carried out some changes by dumping off the vacuum from the suction side this reduced the noise significantly and the pump was put back on line. On the 24<sup>th</sup> August pump No. 2 again very noisy and turned off and Airvac notified. Dave Saunders is to further investigate the vacuum issue and noise and is working with Borger Pumps to trial a vacuum bypass system.

## Dune Disposal.

Maintenance has been required on effluent basins this month, which involved raking sand surface to break crust and allow improved seepage.

## EPA License Compliance.

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

	O & G	pH	TN	TP	F Coli	NH4-N	TSS	BOD
27/07/2005	0.50	6.75	28.85*	0.90	1.00	23.13*	22.50	1.00
09/08/2005	0.50	7.11	40.13*	1.18	6.00	37.64*	24.50	1.00
100% ILE	6	6.5-8.5	20	1	600	5	30	20

United Kilpatrick Green investigated instances of non-compliance (indicated \*)

Since UKG adopted the sludge wasting strategy in an effort to stabilise the plant, results over the last month still indicate problems with Ammonia and consequentially Total Nitrogen levels, with some very poor results achieved. UKG believe a reason for this has been the inability to gain accurate sampling data with one of the in-field test kits proving faulty. They have now committed to additional sampling with Council laboratory.

With some valid data achieved, results have been forwarded to there chief chemist for analysis and further modelling and we expect to receive some firm direction on the future of the plant with details to be provided by the process Engineer on site.

### **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 continues until the sewerage system is fully functional.*

*The Sustainable Development Services have been asked to pursue unconnected properties.*

- *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.

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