



DIRECTOR SHIRE SERVICES REPORT

12th July 2005

DSS12	HAT HEAD SEWERAGE	
	FILE: 217 DWH (NRN)	{ Folio No. * }

SUMMARY:

Reporting on the operating 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

- Quotes are being received to re-connect the Amenities Block sewer line to the large sewerage collection pit near the shelter shed.
- Reflux valves have been fitted to four cabin gully traps that are flood prone.
- On the first of June Macleay Water requested Airvac to carry out a test on the Caravan Park sewer vacuum system lines to check their ability to handle design flows. This will allow fine tuning of the vacuum pumps to ensure maximum capacity of flow through the system.

Sewerage Treatment Plant

United Kilpatrick Green has been advised of re-occurring problems with the Digester floats and is currently looking at various options to solve the problem.

Sewerage Pumping Station

No current problems with new Transfer pumps.

Dune Disposal.

No current problems with effluent disposal.

EPA License compliance.

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

	O&G	PH	N	TP	F Coli	NH4-N	TSS	BOD
19/05/2005	0.50	6.99	21.78*	1.43*	1.00	17.70*	26.00	1.00
31/05/2005	0.50	6.63	11.00	0.11	1.00	0.02	1.00	1.00
14/06/2005	0.50	7.15	10.25	0.23	1.00	6.26*	4.00	1.00
100%ILE	6.00	6.5-8.5	20.00	1.00	600.00	5.00	30.00	20.00

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

As the results indicate Nitrogen, Phosphorus and Ammonia have exceeded the 100% percentile licensing criteria over the last month. Exceedances for the 19th May are related to the pump station failure and the destabilising effect this had on the population of biomass. Significantly improved performance occurred towards the end of May.

UKG process engineer is continuing to provide support to the plant with the following items attended to over the last month.

- Changes to the aeration profile to improve Ammonia removal.
- Adjusting chemical dosing rates to optimise Phosphorus removal and pH correction.
- Increasing the hydraulic retention time by reducing the plant to two decants a day and raising the operating levels.

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.

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K J Finnie
DIRECTOR SHIRE SERVICES