

Anglian Water Services
Louth STW
Keddington Corner
Louth
Lincolnshire
LN11 7DX

23 April 2002
Ref: 2002/DC/AWS/ORBY

The vacuum sewerage system was installed in the village of Orby during the late eighties. Chosen over a conventional gravity design due to the flat topography of the village, the vacuum system provided significant cost savings in both construction and operation.

Since the original design and construction of the vacuum system at Orby, it had become apparent that the vacuum station located on the outskirts of the village was in need of refurbishment to improve the operating efficiency. The vacuum pumps in particular were a reason for concern, running on average of over 14 hours per day between the two units.

After consultation with Iseki, Anglian Water decided to refurbish the whole system in two parts and take advantage of more modern equipment. Since Orby was built, pumps have been developed which are more suited to the type of operating conditions found in a vacuum sewer system.

Phase 1 was to replace the entire vacuum interface valves located within the collection chambers in the field and the vacuum rig in the station. The new rig involved replacing the liquid ring vacuum pumps with the technology rotary vane type pump, and replacement of the entire vacuum pipe works in the station.

Phase 2 was the replacement of the discharge rig in the station. This involves the replacement discharge pumps with modern mono-block centrifugal screw type with new suction and discharge pipe work within the station. Note that phase 2 of the refurbishment programme has not yet been completed.

Iseki Utility Services Ltd carried out the works and on site training in an efficient, professional and timely manner. The works carried out to date were completed to programme with no interruption of service to our customers. During the first three months of operation following commissioning of the first phase of the works, the vacuum system has performed reliably and efficiently without the need for unscheduled call outs. I therefore have no hesitation in recommending the services of Iseki Utility Services Ltd to any interested party. Should you wish to contact me to discuss any aspect of the Orby refurbishment please do not hesitate to do so. I can be contacted weekdays on telephone number 01507 630207.

Yours sincerely

Dean Chambers.

