

Institute of Physics LONDON AND SOUTH EASTERN BRANCH **REMS SECTION**

THAMES WATER – MOGDEN SEWAGE TREATMENT And WALTON WATER TREATMENT

**Note early start
THURSDAY 9 October 2014**

This visit has been organised by George Freeman.

We had planned to make these visits in 2009 but had to cancel at the last minute. Thames water has now agreed that we can make these tours.

At the Mogden Treatment Works, the second largest in the country, we will see how waste is treated; the liquid separated from the solids and how the reduction of the biological oxygen demand and turbidity to river standards is achieved. The solids are fermented to produce methane for the electricity generators and the, now sterile, solids are sold as a fertiliser. Our guide will be Emily Goren TW7 7LR

At Walton, Oliver Hope the site manager, will be our guide and we will see how the water is chlorinated, the suspended particles removed and how turbidity meters and others instruments are used to check on clarity, purity, etc. Some possible contaminants are continuously monitored, others daily and others once a month. Walton is also one of their research stations so we might see some of the latest ideas in water treatment.
KT12 2EG

TRAVEL Trains from Waterloo take 20 minutes (Reading train 10:20 Arr 10:40) or 30 minutes (Windsor train 09:58 arr 10:21) and many others taking longer.

MEET at Twickenham Station platform 4. Coffee and toilets (men only; ladies closed). Car drivers wait in booking office.

LUNCH We will travel by coach to the Weir Hotel on the Riverside near Walton. TW12 2JB Pub grub and draft beers. After lunch the coach will take us the mile back to the Walton Works.

PROGRAMME

10:15 Assemble Twickenham Station

10:45 Walk to bus stop

10:50 board coach

11:00 Register with security and tour

13:00 Coach to the Weir Hotel, Walton

13:30 Lunch

14:30 Coach to Treatment works

14:45 Introduction and tour

17:00 or before. Coach back to Twickenham station.

NO LATE JOINERS Phone me if you will be a few minutes late to find where we are. Turn right out of the station, fork left and walk north for one mile crossing the A316 and passing the RFU stadium. 20 minutes fast walk. We must all arrive in one party at Mogden Security.

COSTS £26 each + refreshments at cost for a maximum 20 people, minimum 10.

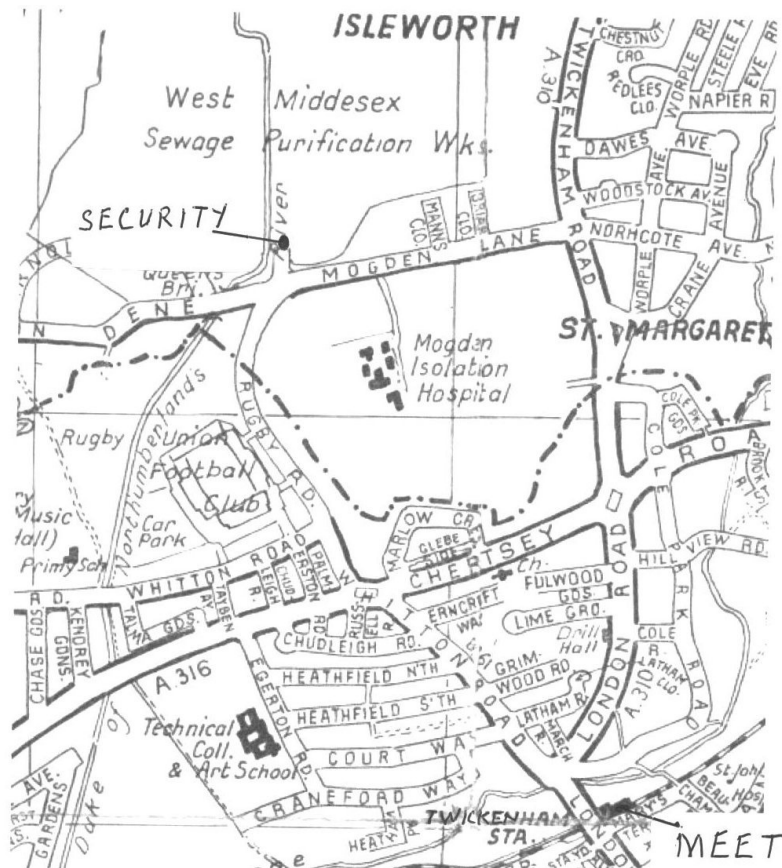
CLOTHING We will spend most of our time in the open so please dress according to the weather. We will probably be walking on grids so flat heels please.

CONTACTS

Before the meeting. Tony Colclough 020 8398 0766 or 07930 171307 tonycolclough@tiscali.co.uk

On morning of visit. George Freeman 07941 916 944

Other times georgefreeman@georgefreeman.force9.net



PLEASE READ THE FOLLOWING. I have to sign a disclaimer to this effect. This is for Mogden but the Walton one will be similar. For safety reasons we will have to wash after the visit.

DANGER

This is an operational works where you may see deep tanks or lagoons containing water undergoing treatment, working plant and machinery, high voltage electrical equipment, gas holders containing dangerous gases and mobile plant and vehicles. As with many industrial concerns, dangers can arise for the unwary or those unfamiliar with the plant. To avoid accidents please follow these simple common sense rule

1. **DO NOT STRAY** keep with your party, follow the paths or roadways and obey the instructions given by your guide.
2. **DO NOT** press any button or operate switches or levers or set in motion or stop any plant or machinery. Some machinery is automatic and may start up without warning.
3. **DO NOT SMOKE** or use matches or lighters on any part of the works.
4. **BE PARTICULARLY CAREFUL** when near open tanks or channels or near sludge which is drying as it often has the appearance of being solid - although it is not.
5. **LADDERS AND STAIRWAYS** especially those outside buildings may be wet and slippery and should be used with caution.
6. **REMEMBER** that vehicles and mobile plant may be using the roadways. Whether walking or driving in the works, observe the Highway Code as you should on the public highway.