



# Mogden Sewage Treatment Works

Residents Liaison Meeting

10 June 2010

# Agenda



- Review of previous minutes
- Operations and correspondence
- Mosquitoes
- Tidal Thames Quality Improvements Project - Update
- Communications
- AOB



# Operations and correspondence

# Operations update (1)



- To improve our treatment capacity and support the ongoing operation of the site, we have replaced the diffusers in six aeration lanes in Battery A, one of the larger treatment streams on site.
- The air bubbled into the wastewater by the diffusers is required by the bacteria in 'activated sludge' to carry out biological treatment of the sewage.
- Over time, these diffusers stop working effectively and need replacing. We have an ongoing programme to replace diffusers when required at each of our sewage treatment works.

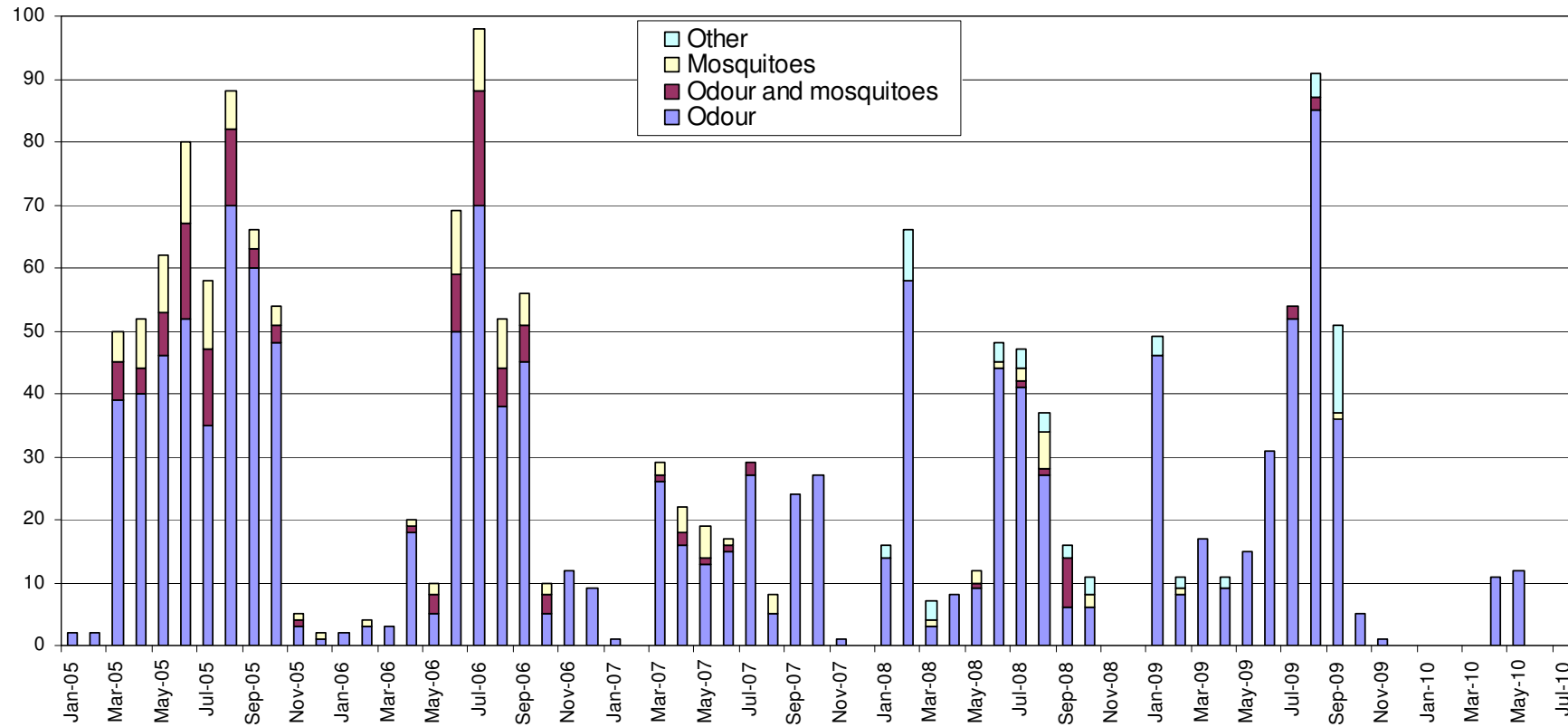


# Operations update (2)



- The new final settlement tanks, converted from primary settlement tanks, were brought into service on 14<sup>th</sup> May 2010. This will increase the quality of water that we discharge to the River Thames and allow us to process more raw sewage each day, once we have finished optimising their performance.
- Mark Grimshaw has joined the Mogden team as the new Process Manager and is responsible for the day to day operations of the site.
- Alan McEvilly, who was the Process Manager, is now the Capital Manager and will be co-ordinating the delivery of the extension project work on site.
- Emily Goren has taken over from Andy Gingell to look after our communications activities.

# Operational Correspondence



# Notifications February – Present



## February 2010

- None

## March 2010

- None

## April 2010

- Unplanned maintenance work on a process tank in the pasteurisation area
- Primary tank drain down

## May 2010

- Primary tank drain down

## June 2010

- Notification of storm tank maintenance work - a precautionary notice



# Mosquitoes

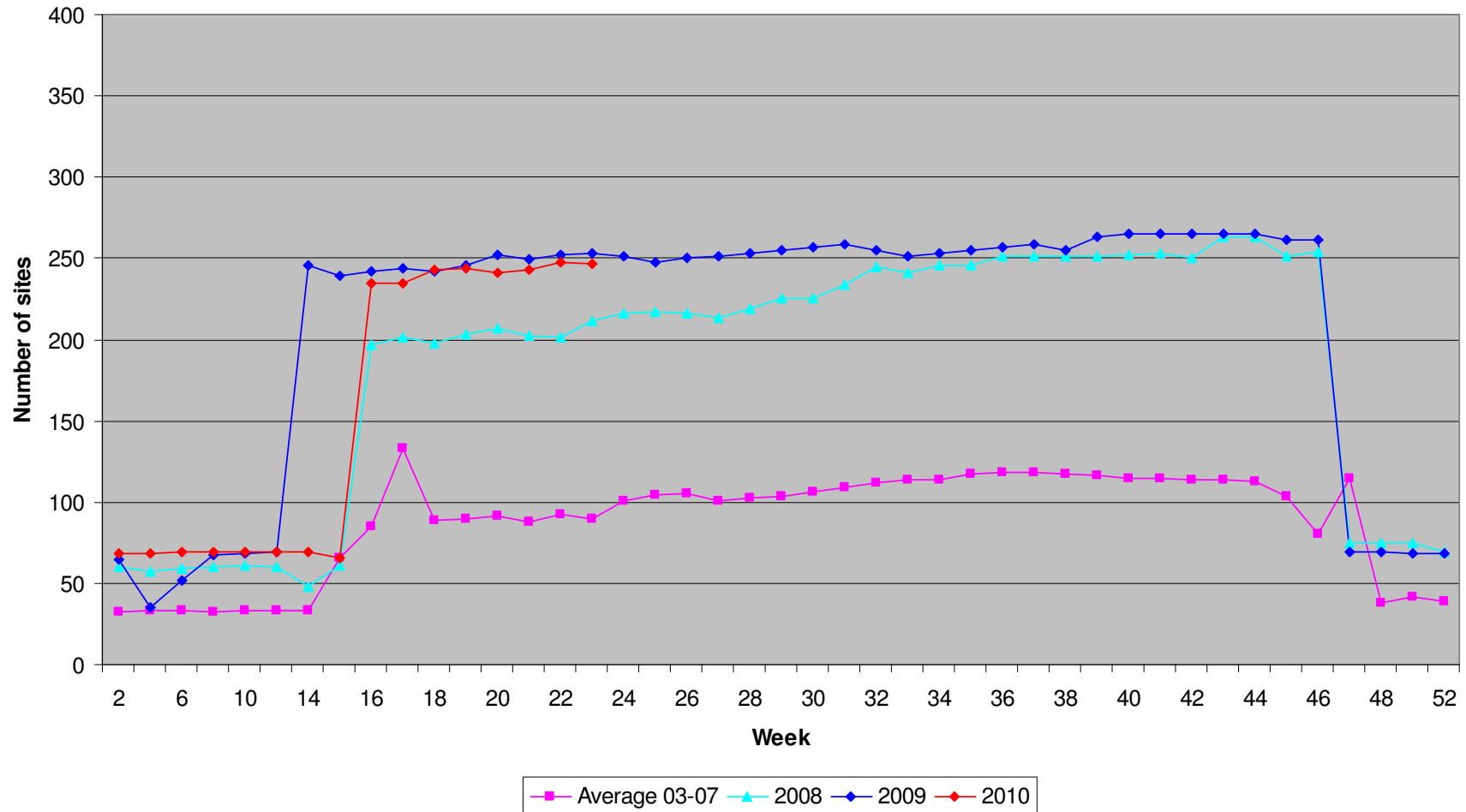
# Controlling mosquitoes at Mogden (1)



- We operate a strict year-round mosquito survey and control programme in conjunction with the London Boroughs of Hounslow and Richmond Upon Thames.
- Surveys are on a weekly basis between spring and autumn, when mosquitoes are most active, and fortnightly in the winter, by professional entomological consultants.
- The number of sites surveyed is also dependent on mosquito breeding patterns, with up to 70 sites surveyed in winter and up to 265 between spring and autumn.

# Mosquito data

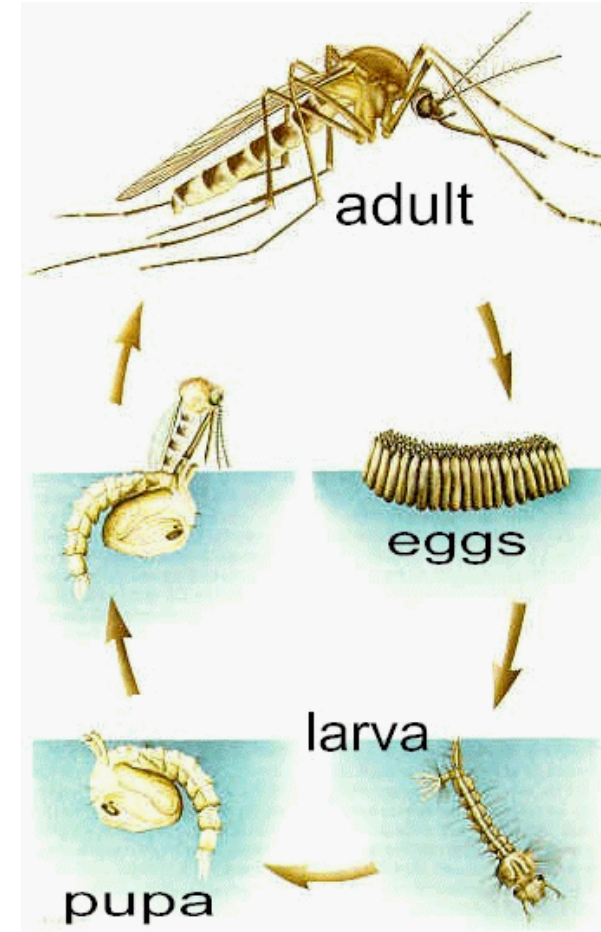
## - Number of sites inspected



# Controlling Mosquitoes at Mogden (2)

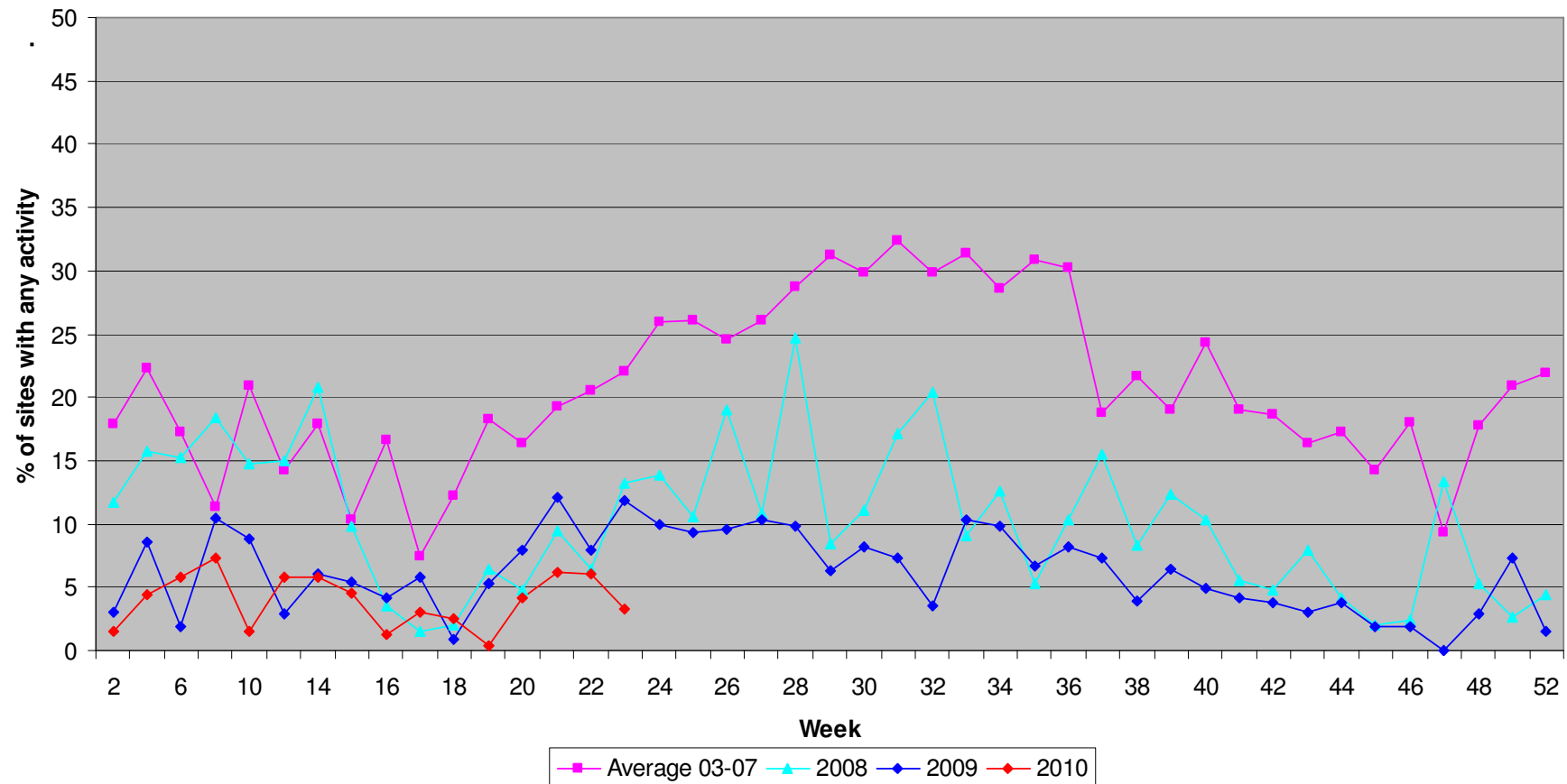


- During the surveys, any mosquito egg rafts, larvae (which move in a distinctive way), pupae and adults seen are recorded.
- All mosquito activity seen, regardless of lifecycle stage, is treated less than 2 days after the surveys are carried out.
- We use a number of different methods to control mosquitoes:
  - **Physical:** Removing standing water which could be used as breeding sites, e.g. covering skips and unblocking drains.
  - **Biological:** The larvae can be treated with a bacterial insecticide.
  - **Mechanical:** Ultraviolet light traps are installed where possible, which deliver a high voltage electric shock.



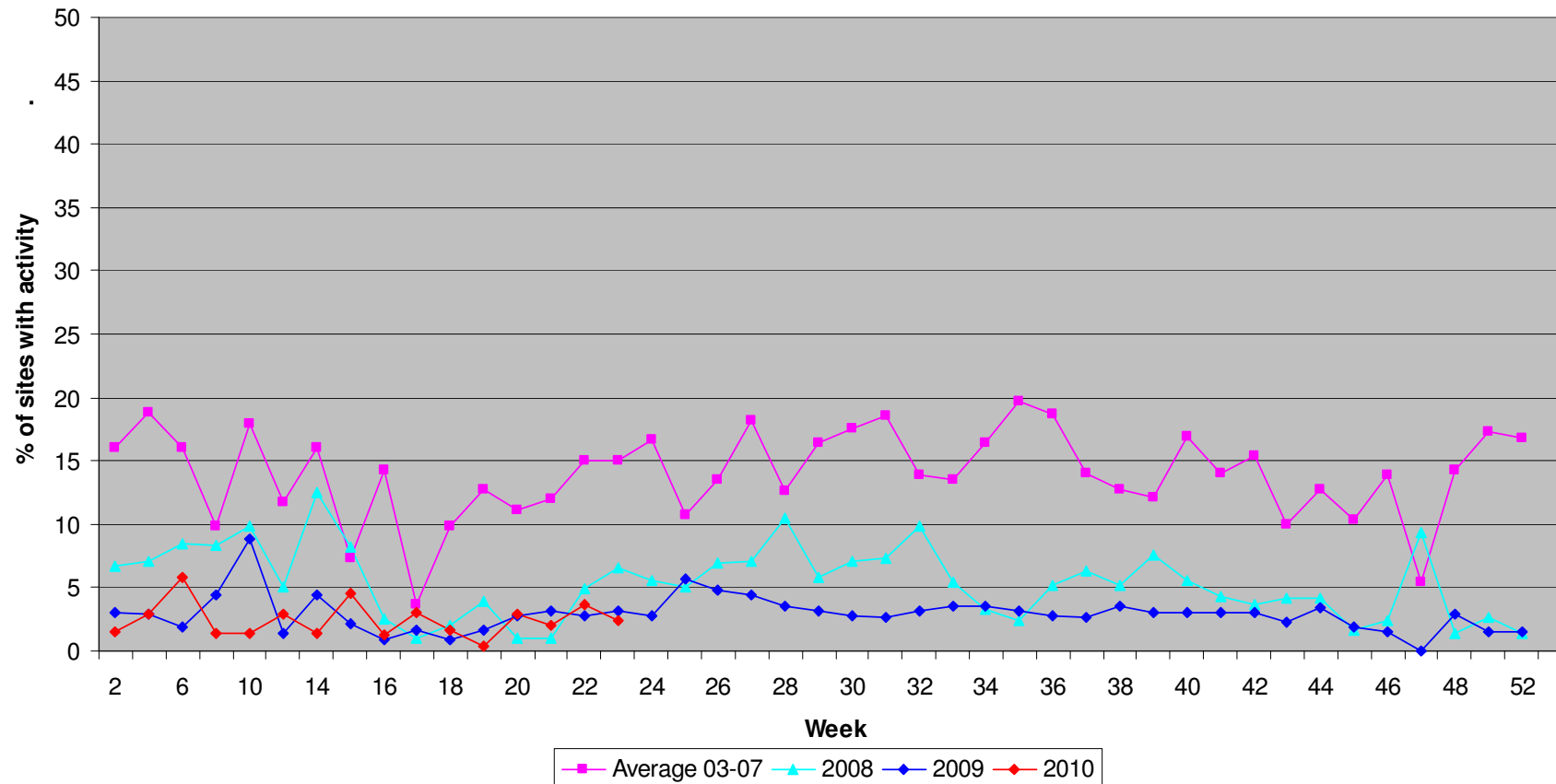
# Mosquito data

## - Percentage of sites showing any activity



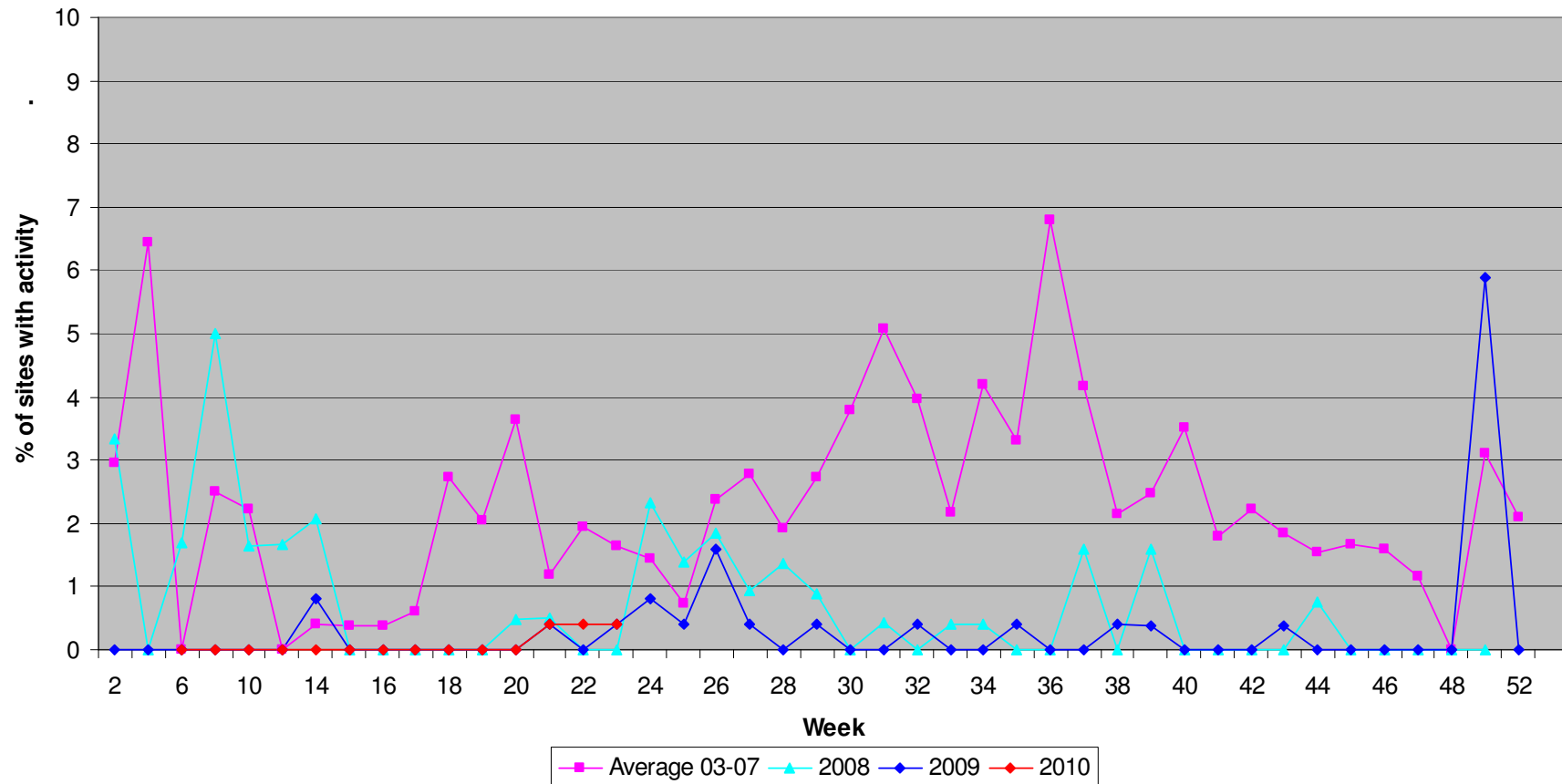
# Mosquito data

## - Percentage of sites showing any adults



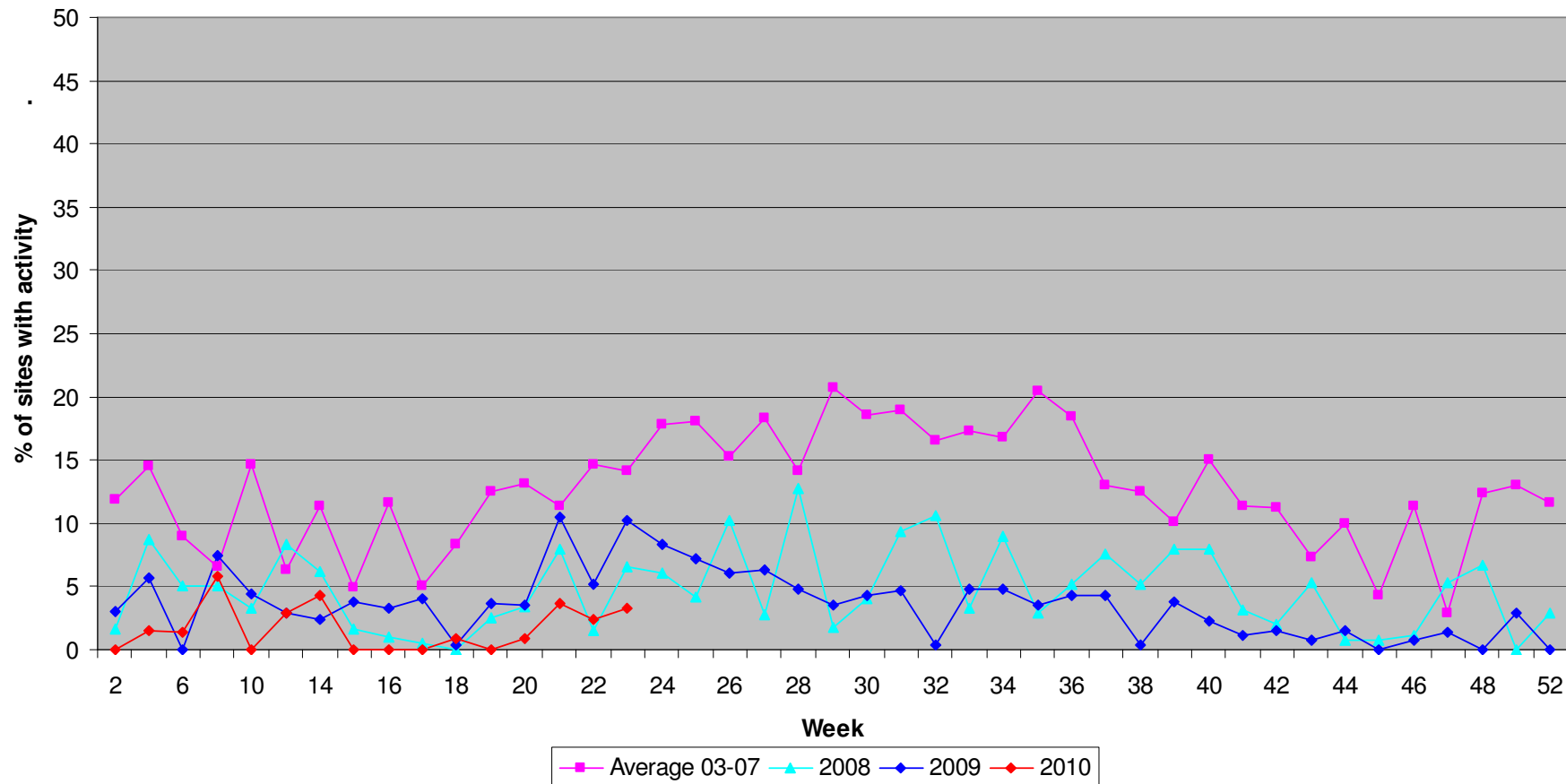
# Mosquito data

## - Percentage of sites many adults



# Mosquito data

## - Percentage of with larvae activity





# London Tideway Improvements



*Creating a cleaner, healthier River Thames*

**Sewage Works Upgrades**



*Creating a cleaner, healthier River Thames*

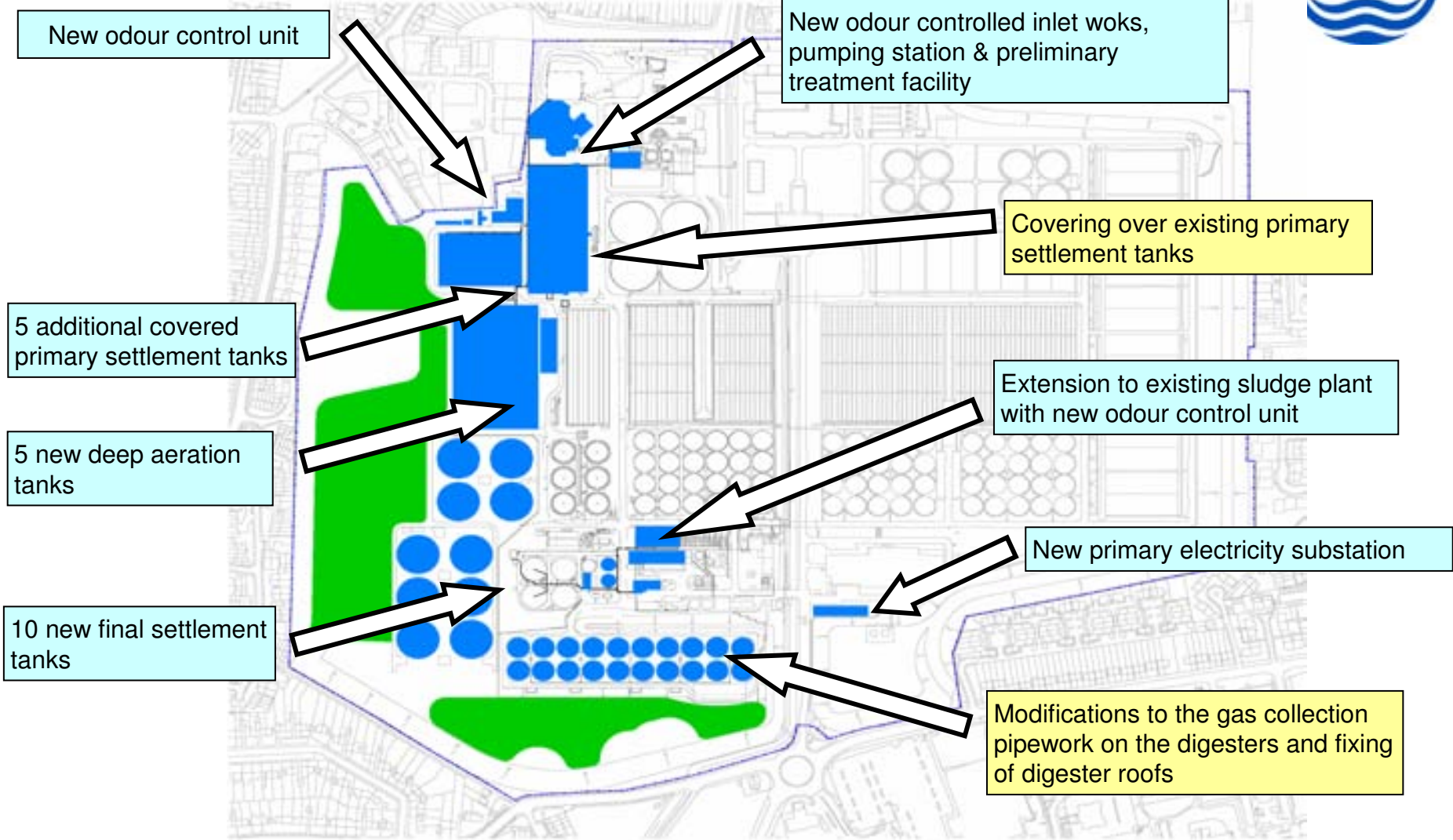
# Background



- We are investing in improving water quality in the River Thames; for the ecology that thrives there and for everyone that uses it.
- We are increasing our sewage treatment capacity by 50 per cent, so Mogden can fully treat more of the existing higher flows caused by heavy rain.
- This will mean a significant reduction in the need to discharge partially-treated sewage into the River Thames following heavy rain, when the site becomes overloaded.
- The work is required to meet new stricter discharge consents set by Environment Agency, which come into force on 31 March 2013.
- The improvements will also mean less use of the existing storm tanks.
- The new works will be odour neutral at worst.



# A closer look at the improvements



**New equipment =** [light blue box]

**Existing plant upgrades =** [yellow box]

250 m 500 m

# Key Dates



- **December 2009** - planning application signed, with full S106
- **January 2010** - start of preparatory work
- **June 2010** - start of main construction work
- **March 2013** - plant complete and fully operational

# Update



- Our contractors, Black & Veatch, are now registered with the Considerate Constructor scheme
- Western boundary cleared of trees and shrubs ahead of the bird nesting season
- 7 new odour monitors have been installed around the sludge plant
- All pre-commencement conditions have now been discharged, and we are ready to start the main construction work
- Update letter issued to local residents in May 2010 regarding construction



# Coming up...



- We will be holding regular public drop-in sessions, so local residents can discuss the construction work with us
- Over the next three months our construction activities involve:
  - Reshaping and moving the western embankment to make space for the new sewage treatment equipment
  - Installing temporary construction offices for the contractor at the north end of the site
  - Starting to build some of the supporting structures for the new equipment

# Planning Legal Agreement



Our main commitments under the section 106 agreement are:

- Financial contributions towards odour monitoring, gully cleansing and a local environmental project.
- A phasing plan which includes covering the remaining existing west side primary settlement tanks (PSTs).
- A 24 hour phone helpline via the Thames Water Operations Contact Centre to deal with any enquiries from the public in relation to odour from the development.
- A sludge gas monitoring plan to monitor and minimise odour from the sludge digesters, including the provision of 8 monitors around the digesters.
- A storm tank management plan to monitor the use and minimise odour.
- Odour Management Plan formalised into planning legal agreement and updated every 6 months in agreement with the London Borough of Hounslow.
- Approved Considerate Contractor scheme to minimise impact on local environment.



# Communications

# Open day – April 17 2010



- Over 300 visitors attended, including; families, local councillors, a group of Anglers, and London Assembly Member, Murad Qureshi.
- The day included a mini bus tour of the works, and a marquee exhibition, covering Mogden's history, process and our upgrade project.
- Nearly a third of attendees completed feedback forms, with the majority scoring 4 or 5 out of 5.
- Comments left included: 'really interesting', 'a fantastic day' and 'you should do it again'.



# Keeping up to date with Mogden



- **Mogden Newsletter**
- **Mosquito Awareness Campaign 2010**
- **Email notifications**  
To subscribe, email us at  
[mogden@thameswater.co.uk](mailto:mogden@thameswater.co.uk)



# Need to contact us about Mogden?

Call the Mogden 24hr line (via the Thames Water  
Operations Contact Centre):

0845 641 0030

Visit our website:

[www.thameswater.co.uk/mogden](http://www.thameswater.co.uk/mogden)

Write to us:

Customer Feedback

PO Box 286

Swindon

SN38 2RA



**AOB**

# Proposed dates of meetings:



- Wednesday 8 September 2010
- Wednesday 8 December 2010
- Wednesday 9 March 2011