



# Mogden Sewage Treatment Works

Residents Liaison Meeting

8 December 2010

# Agenda



- Review of previous minutes
- Operations and correspondence
- Communications
- Grounds maintenance issues (postponed till next meeting)
- Independent Odour Research Study – final report
- Mosquito survey results
- Sewage Treatment Work Upgrade Project – an update
- AOB



# Operations and correspondence

# Operations update (1)



- The redoming of Battery C aeration lanes began in October 2010. This will be followed by Battery D in the new year and finally Battery B will be redomed.
- As of the beginning of November, Mark Grimshaw took over the role of Operations Manager for Thames Water's central area from Sian Thomas, who has left the company.



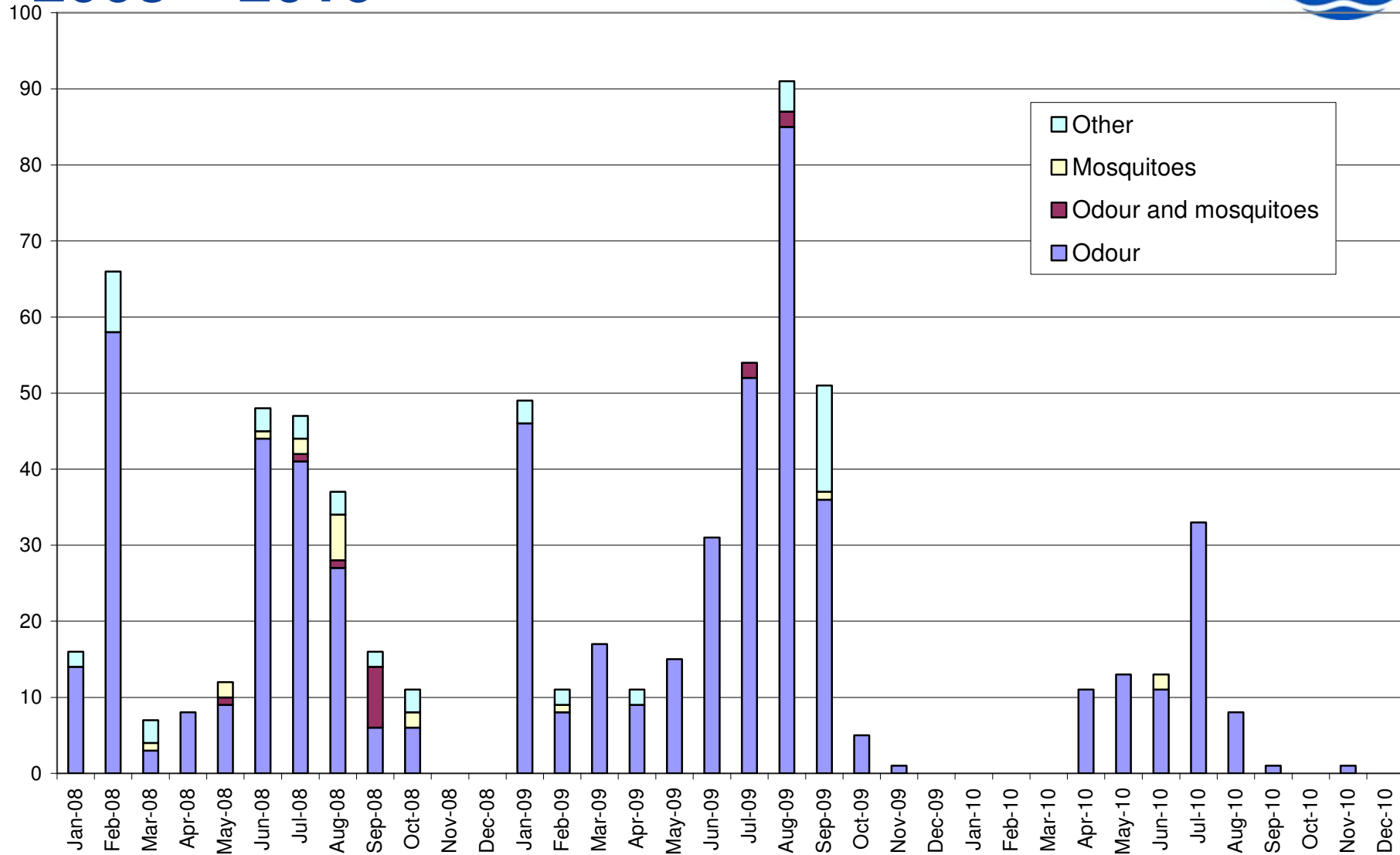
# Operations Update (2)



- In the interim period, Zak Espi-Castillo will be covering Mark's former role, as Mogden's Process Manager.
- The six month review of Mogden's Odour Management Plan has begun and is due to be complete by the end of this month.



# Operational Correspondence 2008 – 2010



# Notifications September – Present



## September 2010

- None

## October 2010

- Mogden Upgrade – construction update

## November 2010

- Mogden Upgrade – construction update
- Change of Operations Manager – Central area
- Mogden Upgrade – odour notification
- Advanced Notice of Streetlighting work
- Mogden Upgrade – construction update

## December 2010

- None



# Communications



# Newsletter & Interpretation Boards

- The last issue of our newsletter was sent out to residents at the beginning of October.
- The next issue will be sent out in February 2011, when we will also be updating our interpretation boards.



Thames Water



## mogden update

October 2010

### Upgrade will boost capacity and treatment standards

Work has begun to increase treatment capacity by 50 per cent at Mogden Sewage Works.

The improvements are needed in order to treat sewage to a higher standard and significantly reduce the amount of partially treated effluent that overflows into the River Thames when the site becomes overloaded after heavy rain.

Earlier this year, we cleared trees and shrubs from the western boundary, in preparation for the main construction work.

Contracts Manager Adrian Jack (pictured on right, above) said: "We will do all we

can to reduce disruption. We have built our on-site construction routes as far away from properties as possible, and will regularly water the area to reduce the potential for dust.

"Work recently began to reshape and move the western embankment, to make space for the new sewage treatment equipment.

"We have preserved a group of mature oak trees, which will help encourage the re-establishment of wildlife. We have put up protective fencing around them, which we will remove once the construction work is complete."

Final landscaping will be complete in 2012. Until then, we will need to temporarily store some earth around and on top of the new embankment.

To keep construction traffic off residential roads, we will only use the A316 and Rugby Road to access the site.

Back & Veatoh's working hours will be Monday to Friday, between 7 am and 7 pm, with main construction activities limited between 8 am and 6 pm.

Adrian added: "We are working closely with the London Borough of Hounslow to keep disruption, especially dust and noise, to a minimum. We would like to apologise for any inconvenience caused."



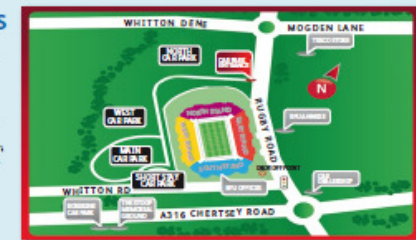
### Drop-in sessions

We will be holding regular informal drop-in sessions, where residents can discuss the construction work with members of the project team.

The first three will be held from 4pm to 7.30pm on 7 October, 4 November and 2 December, at the RFU (Rugby Football Union), Rugby House, Twickenham Stadium, 200 Whitton Road, Twickenham, TW2 7BA.

Free parking will be available in the main car park (see map right).

On arrival please report to reception at Rugby House Door A, situated in the South Stand.





# **Independent Odour Research Study final report**

# S106 Odour Study



- An odour study was carried out by Entec as part of a planning obligation for the current extension work at Mogden STW.
- The project was managed by a joint committee comprised of members from the London Borough of Hounslow and Thames Water.
- The results were presented to a public meeting on 3 November 2010 and the final report was published on 30 November 2010.
- The study identified the first third of Battery A & B aeration lanes as the main odour source from the site.
- Thames Water have produced a programme and timetable for their investigation into Entec's findings, please see handout.



# Relative 'Offensiveness' of Odours

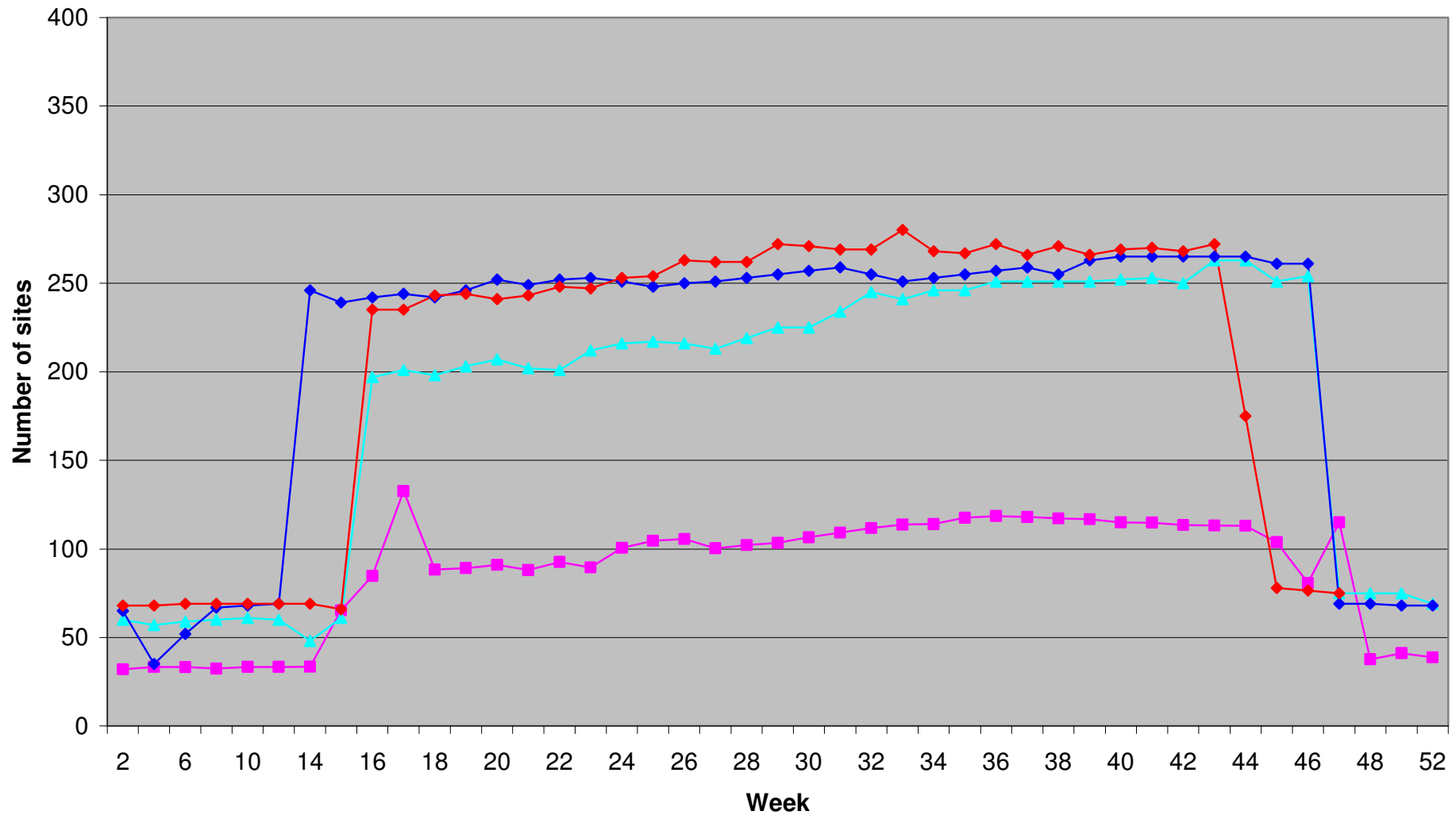
|                                |                       |        |
|--------------------------------|-----------------------|--------|
| Sludge Consolidation & Storage | Odour "Offensiveness" | HIGH   |
| Sludge Dewatering              |                       |        |
| Sludge Digestion (inc. biogas) |                       |        |
| Return Liquors                 |                       |        |
| Sludge Drying                  |                       |        |
| Primary Settlement             |                       |        |
| Storm Flows                    |                       |        |
| Preliminary Treatment          |                       | MEDIUM |
| Inlet Works                    |                       |        |
| Trickling Filters              |                       |        |
| Activated Sludge & Variants    |                       |        |
| Secondary Treatment            |                       |        |
| Tertiary Treatment             |                       |        |
| Odour-Abated Air               |                       | LOW    |



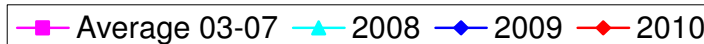
# Mosquito Survey Results

# Mosquito data

## - Number of sites inspected

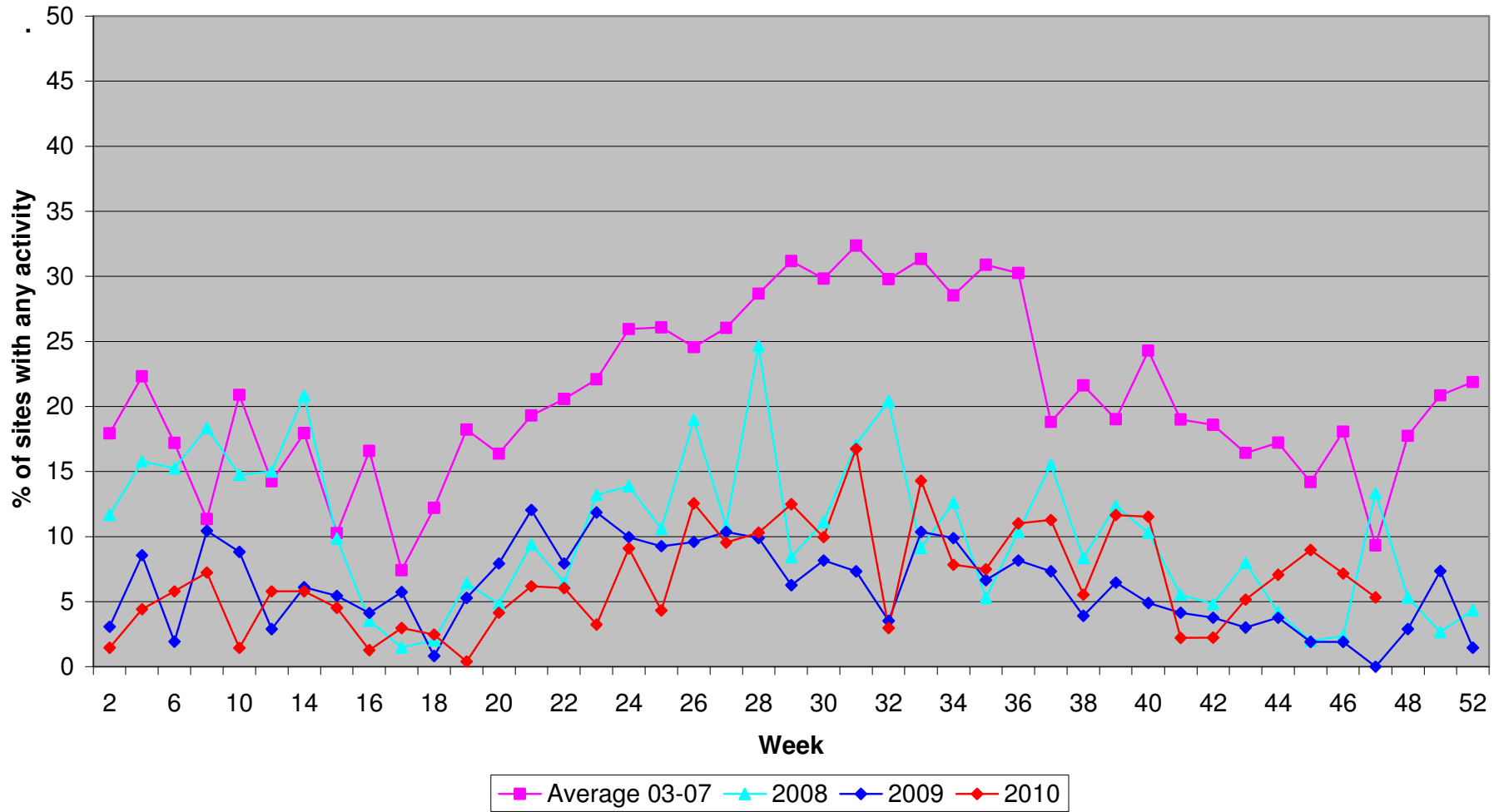


Thames Water



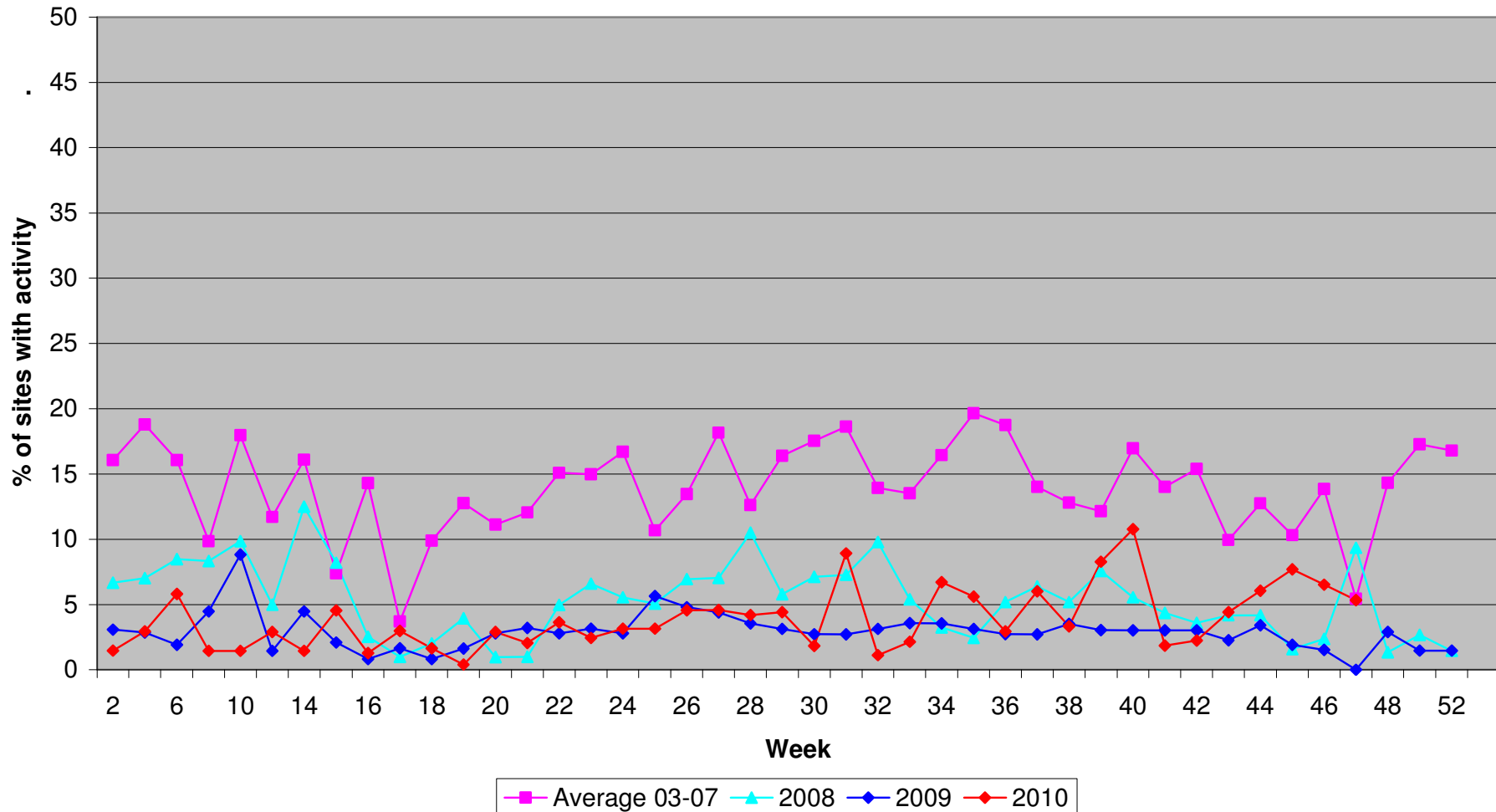
# Mosquito data

## - Percentage of sites showing any activity



# Mosquito data

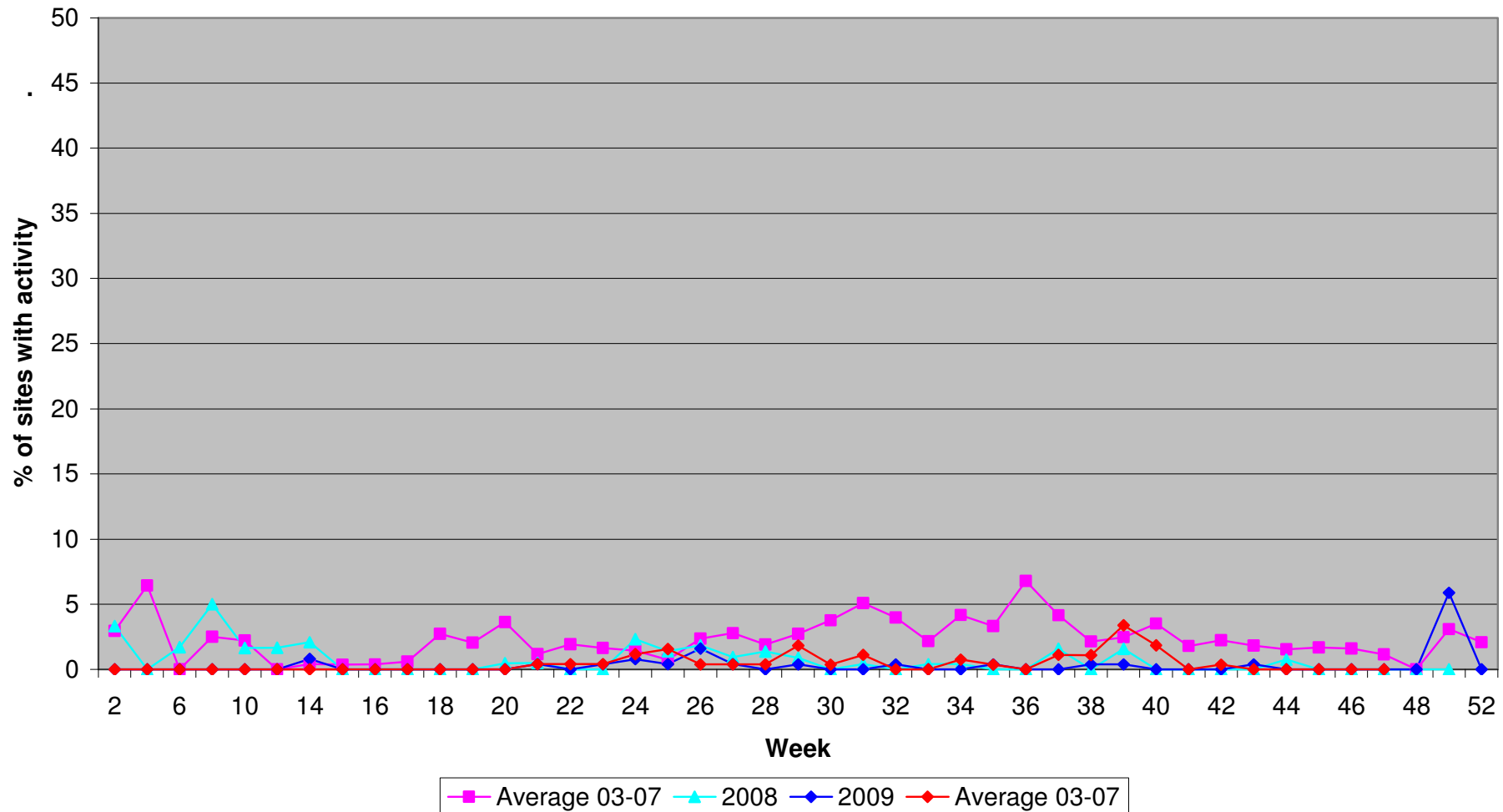
## - Percentage of sites showing any adults





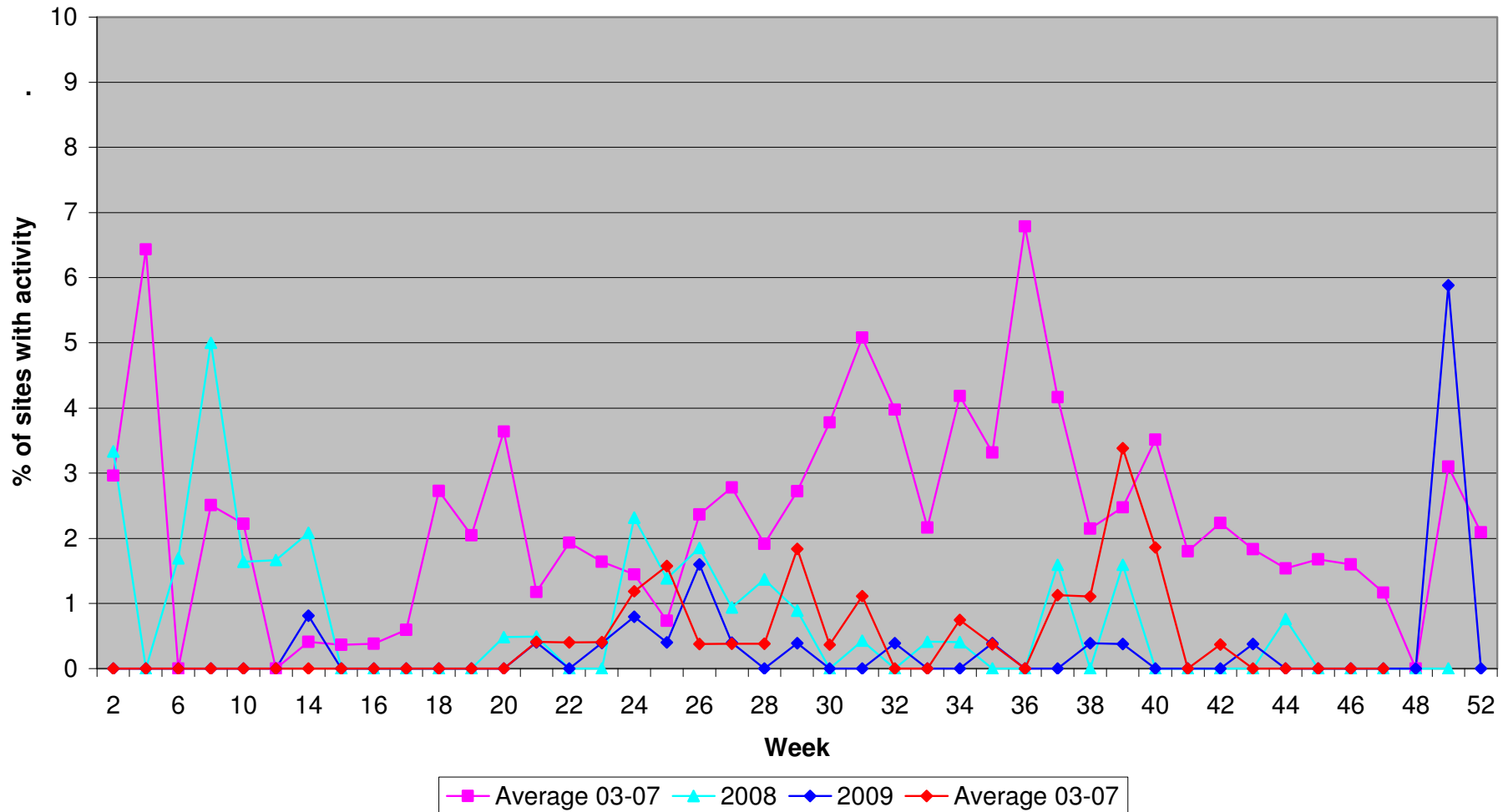
# Mosquito data

## - Percentage of sites with many adults



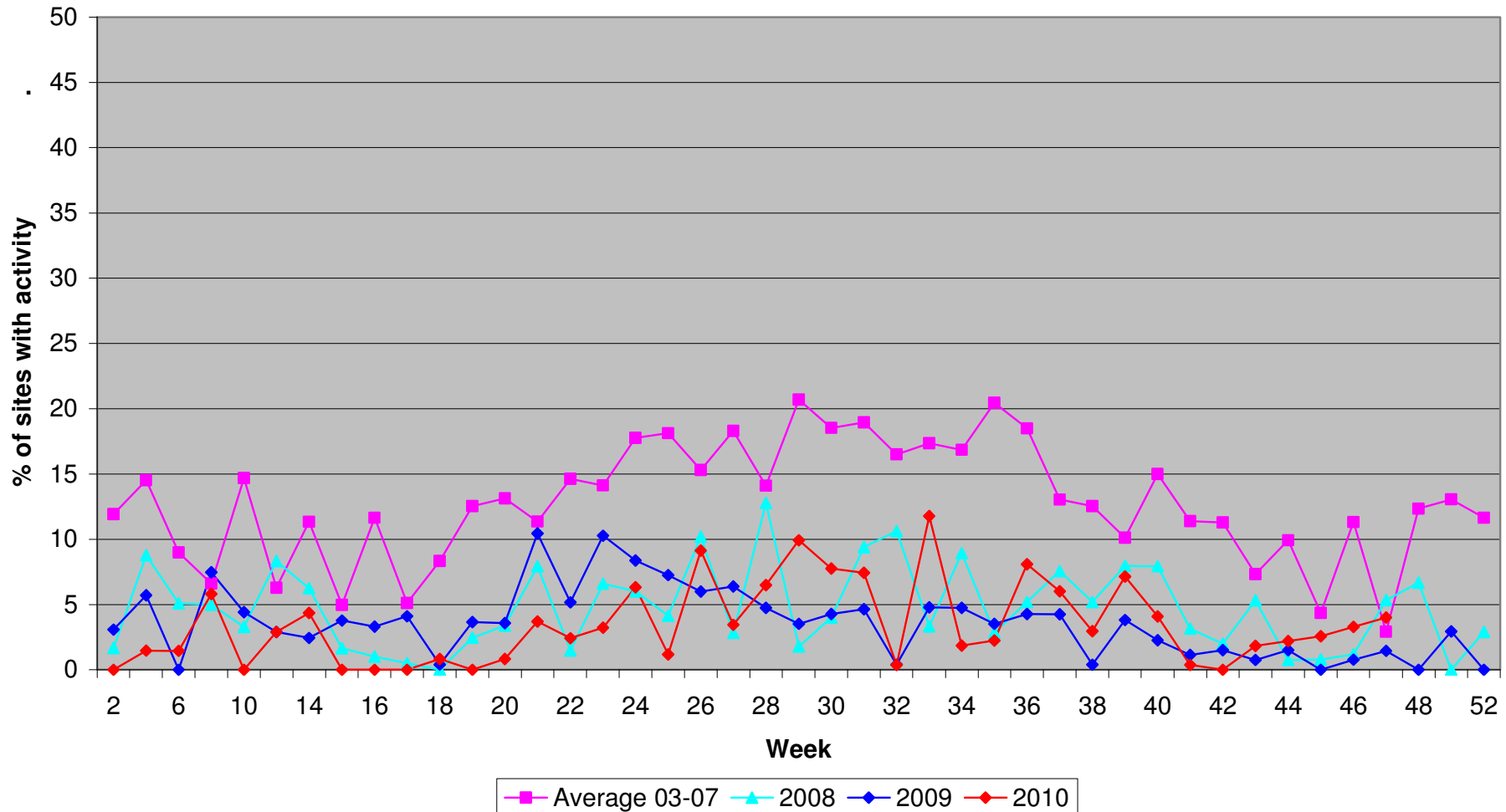
# Mosquito data

## - Percentage of sites with many adults (2)



# Mosquito data

## - Percentage of sites with larvae activity





# Sewage Treatment Works Upgrade Project – an update

Thames Water

**Sewage Works  
Upgrades**   
*Creating a cleaner, healthier River Thames*

# Brief overview



# Progress so far – western embankment



- The first phase of the work is almost complete and has involved moving 450,000 tonnes of soil from the western embankment to make way for new sewage treatment equipment.
- This has avoided the need for 750 lorry movements per day in and out of Mogden over the past three months.





# Progress so far – additional sewage treatment equipment



- Started preparing the foundations for the additional sewage treatment equipment, which involves driving steel and concrete piles 12 metres into the ground.



# Digester cleaning



- Over the next two years, we will be cleaning 13 of our sludge digester tanks in the south-west corner of the site.
- The first tank was cleaned over a two week period at the end of November.
- An e-mail notification was issued in advance, and we will issue further notifications for the remaining tanks.



# 3 month look ahead



## **December 2010**

- Complete sheet (steel) piling around inlet works, primary settlement tanks and aeration lanes.
- Trial bearing (concrete) piles at aeration lanes and final Settlement tanks.

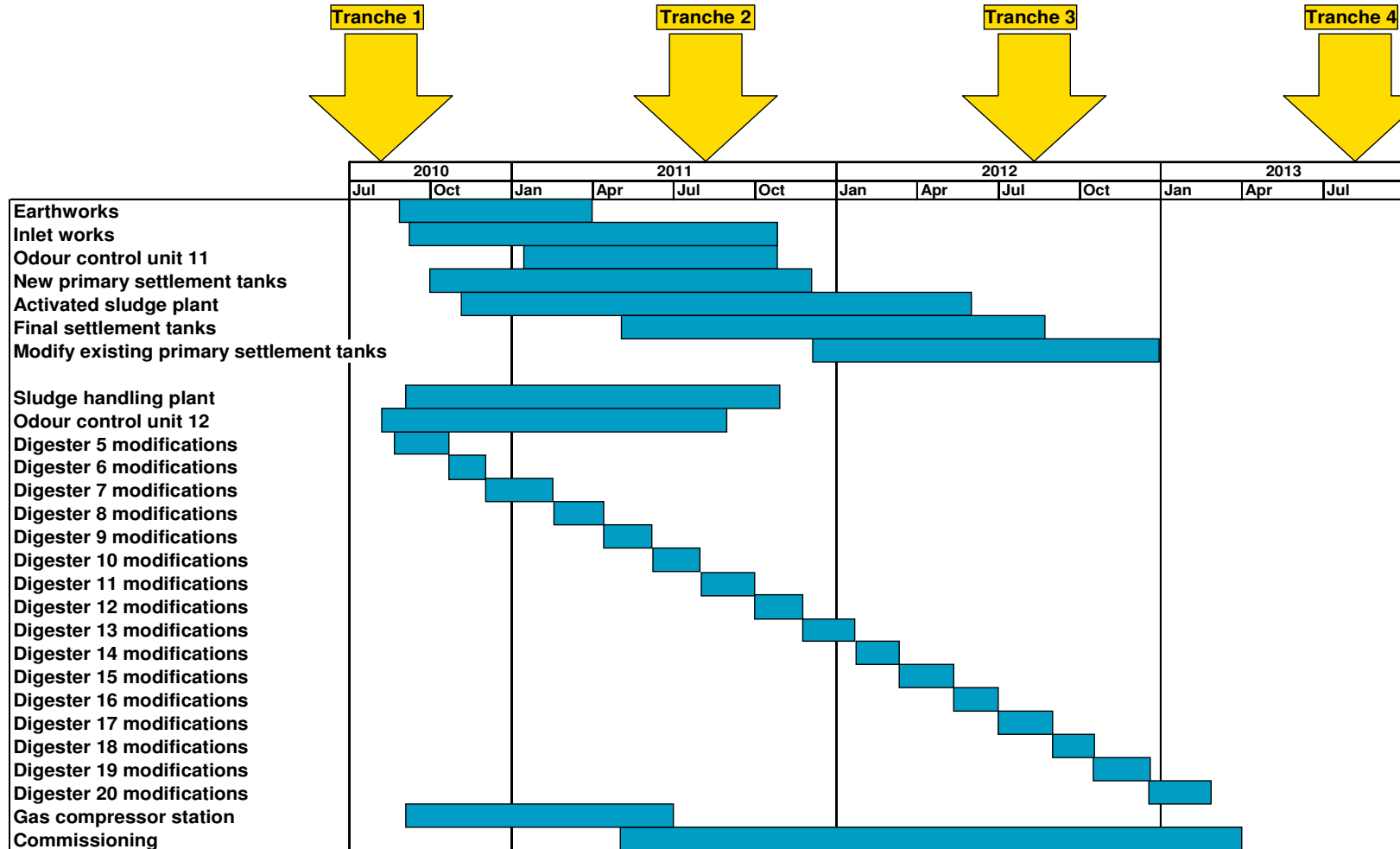
## **January 2011**

- Excavating inlet works and primary settlement tanks.
- Start bearing (concrete) piling at aeration lanes & final settlement tanks.

## **February 2011**

- Create concrete foundation for inlet works & primary settlement tanks.

# Phasing plan



# Key communication milestones



- Construction update letter issued each month.
- Construction updates via e-mail notification system.
- Newsletter issued to 10k residents in September.
- Informal drop-in sessions held in October, November and December.
- Carried out more than 20 home visits.

# Minimising disruption



- Noisiest construction activities limited between 8am and 6pm, Monday to Friday, and no weekend working.
- Monitoring dust, noise and vibration.
- Continually reviewing our working techniques.
- Regularly watering the area to reduce the potential for dust.
- Earth embankment acting as a visual & acoustic barrier.
- Considerate Contractor scheme.



**AOB**

# Proposed dates of meetings:



- Wednesday 9 March 2011
- Wednesday 8 June 2011
- Wednesday 7 September 2011



# Need to contact us about Mogden?

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

**0845 641 0030**

To subscribe to email notifications, email us at:

**[mogden@thameswater.co.uk](mailto:mogden@thameswater.co.uk)**

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**