



Mogden Sewage Treatment Works

TW Site Inspection

Date of inspection: 19th January 2012	
Attendees: Gerry McCarthy, LB Hounslow Andrew Gerogiades, Thames Water	
LB Hounslow Observation	Thames Water Action / Response
<p>Storm Water Storage Tanks (SWST)</p> <p>Storm water tanks 1 and 2 were in use and full following heavy rainfall in the area.</p> <p>Storm water tanks 3a and b were not in operation as new amajet pumps are being fitted to the tanks. There was a covering of rainwater on the surface of these tanks, which was not odorous.</p> <p>Storm water tanks 4 and 5 were in use and are covered and odour controlled.</p> <p>Storm water tanks 6a, 6b, 7a and 7b were in use and full of effluent.</p> <p>Tanks 8a and 8b were empty but tank 8a was odorous and requires flushing. Hoppers 1 and 3 of this tank were full and require emptying. Hoppers 1,2 and 3 of tank 8b required emptying.</p>	

Odour monitors

Odour levels had been generally below the current trigger level of 0.015ppm for more than 20 minutes in the last week though there have been a number of peaks none of which lasted twenty minutes. The East side monitor showed a number of peaks during the week though none lasted longer than ten minutes.

The site log for the day shift on 13th January showed that there were some odours on site from the thickening plant. The site log for the evening shift showed that there were spikes on monitors one and two with odour being detected from the storm tanks which were in use with the exception of tanks 3a, 3b and 8b. There were spikes on monitors 6,7 and 8 but for short periods of time but no odours were found upon inspection with the exception of a sludge odour from drains around the picket fence thickeners which are located on the west side of the works.

On 16th January on the evening shift there was a very high spike on the east side monitor and the contents of storm tanks one and six were being returned to the primary settlement tanks which may explain the cause of the very large spike. There were a number of spikes on monitor 8 of short duration on the same evening but the source was not identified.

The odour readouts (H₂S) for all of the monitors, which were providing

data at the time of inspection (approx 13:3) were low, and below the trigger level of 0.015ppm.

Monitor 1	0.009 ppm
Monitor 2	0.002 ppm
Monitor 3	0.000 ppm
Monitor 4	0.000 ppm
Monitor 5	0.004 ppm
Monitor 6	0.006 ppm
Monitor 7	0.005 ppm
Monitor 8	0.004 ppm
Monitor 9	0.003 ppm
Monitor 10	0.004 ppm
Monitor 11	0.006 ppm
Monitor 12	0.003 ppm
Monitor 13	0.002 ppm

Complaints

The Council received no odour complaints in the previous week.

<p>Sludge Dip Records</p> <p>19/1/2012 W6084m³ and E22071m³ = 28155m³ 18/1/2012 W5358m³ and E24242m³ = 29239m³ 17/1/2012 W7552m³ and E23881m³ = 31433m³ 16/1/2012 W6114m³ and E23519m³ = 29633m³</p> <p>The levels for all of the days are in breach of the current OMP trigger levels in respect of the west side rectangular primary settlement tanks which are 3,000m³ for these tanks and for the west side circular primary settlement tanks is 250m³. There are no limits for the East Side Primary Settlement tanks as these are covered and odour controlled.</p> <p>Thames is required by the terms of the abatement notice agreed in 2005 to notify LBH on the next working day of any such exceedance and notify LBH within three working days of any appropriate remedial measure taken within three days, which it has done.</p>	
<p>Digesters</p> <p>Digester 11,13 and 18 are out of service for maintenance.</p> <p>Digester 9 was gassing through the annular seal at the time of the inspection which was odorous and TW advised that measures would be taken to draw off additional gas from the digester dome to reduce this.</p> <p>There was evidence of a spillage from digesters 10 and 15 and TW advised that this would be cleaned up immediately as a team had been despatched to clean it up.</p> <p>TW also advised that anti-foaming agent continues to be manually</p>	

<p>administered as a precautionary measure twice a day and additionally if necessary.</p>	
<p>West side primary settlement tanks (PST)</p> <p>PST 16 on the west side of the works is still out of service. PST 16 is being covered as part of the site extension works but will be out of service until the tanks are covered. PST 14 is now back in service.</p> <p>Thames advised that additional manual de sludging of the rectangular PSTs is being carried out to reduce the build up of scum and to prevent gassing of these tanks. There was a noticeable build up of scum on tanks 13a, 13b, 14b, 15a and 15b with evidence of gassing from all tanks. There was a noticeable build up of sludge on tank 14a. Please continue with manual desludging to ensure there is no build up of sludge and to reduce gassing.</p> <p>Hosing down of scum on PST 10 will need to continue to be undertaken, as a rubber scraper and tension cable need to be replaced on this and the tank needs to be taken out of service and drained down to enable this to be completed. TW advised this would be undertaken now that PST 14 is back in service.</p>	
<p>GENERAL</p> <p>Final Settlement Tanks East Side of Works</p> <p>The 8 circular tanks previously used as PSTs are now being used as final tanks at full capacity. Measures are being undertaken 24/7 with a contractor to prevent the build up of scum on these tanks. Tank 76 has been drained down for maintenance is out of service.</p> <p>East Side Screen House</p>	

The right hand side door has a missing glass pane and TW advised that this is due to be replaced in the near future.

Skips

There was one covered six yard skip, one uncovered empty six yard and one uncovered empty fifteen yard skip on the East side which Thames advised would be removed before the weekend.

On the West side there was 1 empty uncovered fifteen-yard skip, one washpactor skip and two covered six-yard skips in the area.

Pasteurisation Plant

The pasteurisation plant continues to be out of service.

Imported Sludge

No imported sludge has been received into the site this week.

Section 106 agreement

There have been no breaches of the s106 agreement in the last week.

Odour control unit (ocu) performance monitoring (18/1/12)

This is the most recent set of data available. Plant	Reading (ppm)	Action Level (ppm)*	Compliant
Main pumping station outlet	0.015 Average	0.2	Yes
East Ocu	0.009#	0.05	Yes

* Odour Management Plant version 2.0 action level outlet values

West Ocu	0.04	0.05	Yes	
Sludge reception outlet	0.15 Average	0.8	Yes	
Thickening plant outlet	0.36 Average	0.6	Yes	
Pasteurisation plant outlet	Not operating		N/A	
Transfer PS Outlet	0.12#	0.6	Yes	

Portable Jerome measurement