

Mogden Sewage Treatment Works

# **TW Site Inspection**

Date of inspection: 9th June 2017	
Attendees: Mr L Phillips (L B Hounslow) & Mr D Kalamantis (Thames Water).	
LB Hounslow Observation	Thames Water Action / Response
Storm Water Storage Tanks (SWST)	
Tank 1A was empty & clean. Hoppers 1, 2 & 3 were all approximately $\frac{1}{2}$ full and require over pumping	
Tank 1B was empty & clean. All hoppers had been drained to lowest level.	
Tank 2A was empty & clean. All hoppers had been drained to lowest level.	
Tank 2B was empty & clean. All hoppers had been drained to lowest level.	
Tank 3A was empty & clean. All hoppers had been drained to lowest level.	
Tank 3B was empty & clean. All hoppers had been drained to lowest level.	
Tanks 4A, 4B, 5A & 5B are covered and odour controlled.	
Tank 6A was empty & clean. All hoppers had been drained to lowest level.	

Tank 6B was level.	empty & clea	an. All hoppers h	ad been drained to lowest
Tank 7A was all drained dov		n. Hoppers 1, 2 8	& 3 (shallow hoppers) were
			Iry silt/grit at the top end of were all drained down.
			proximately ¾ full, hoppers opers require overpumping.
Tank 8B was level.	empty & clea	an. All hoppers h	ad been drained to lowest
Storm Water	Channel		
was noted to	locally odor	ous, particularly	4B has dried sludge which around tanks 4A and 4B. would be flushed. The feed
channel servi	ing STW's 5A		of effluent and only had a
Odour Monit	tors		
		for all of the mon on (approximately	itors, which were providing
Monitor 1	0.003		¬
Monitor 2	0.003	ppm ppm	Odour monitor 11 flat
Monitor 3	0.003	ppm	lining.
Monitor 4	0.004	ppm	—
Monitor 5	0.003	ppm	_
Monitor 6	0.000	ppm	
Monitor 7	0.006	ppm	
Monitor 8	0.004	ppm	
Monitor 9	0.000	ppm	
Monitor 10	0.000	ppm	
Monitor 11	-0.000	ppm	_
Monitor 12 Monitor 13	0.000	ppm	_
	0.004	ppm	

## **Complaints**

The Council received no complaints via telephone in the preceding week.

The Council received no complaints via e-mail in the preceding week.

The Council received no complaints via MRAG in the preceding week.

## Odour Log (Thames) - Photocopies of log entries taken:

# Thursday 1<sup>st</sup> June 2017

**AM** 1-5 – No issues 6-13 - No issues. **PM** No issues found or reported.

### Friday 2<sup>nd</sup> of June 2017

**AM** No odour issues.

**PM** Monitor 5- Two spikes- Max 0.030PPM Investigated area. Reset inhibits on OCU 11 chemical dosing pumps both spikes under 10 minutes.

### Saturday 3rd June 2017

**AM** 0.022PPM odour monitor 3 10:26-10:39 no other odour issues. **PM** No logs provided.

### Sunday 4th of June 2017

**AM** Odour monitor 5 0.021PPM 7:21- 7:35 odour complaint 14:15 by passer-by (north of site) undertook site inspection. No other issues. **PM** No odour issues no spikes on trends.

#### Monday 5th of June 2017

**AM** No odour issues reported or found no spikes on trends.. **PM** No odour issues on site No spikes on trends.

### Tuesday 6<sup>th</sup> June 2017

**AM** No odour issues sludge spill underbridge pasteurisation hose down area.

**PM** Trends showing no odour spikes. Day works out to clean up sludge in PAS area.

<u>Wednesday 7<sup>™</sup> June 2017</u> AM No issues.		
<b>PM</b> 1 spike on monitor 3 for 15 minutes area checl 10 pumping out.	ked and all ok. *P.S.T	

# Sludge Dip Records

Date	West PSTs 1	West PSTs 2	West PSTs 3	West Total	East PSTs	Grand Total
			All un	its in m <sup>3</sup>		
OMP limit	500					
02/06/17	0	1030	0	1030	4584	5614
05/06/17	0	1012	122	1134	3648	4782
07/06/17	0	1116	0	1116	4609	5725

There are no limits for the East Side Primary Settlement tanks as these are covered and odour controlled.

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.

#### **Imported Sludge**

There have been 49 imports of sludge over the last week, each import containing 30m<sup>3</sup> of sludge.

#### Sludge Screening House

The large roller shutter door of the Raw Sludge Screening building was closed at the time of the inspection.

#### **Digesters**

Digesters 1-4 are permanently out of use.

Digester- 5 was in use and had a good dry seal.

Digester- 6 was in use and had a good dry seal.

Digester-7 was in use but had as weak foamy seal.

Digester- 8 was in use but had a weak foamy seal.
Digesters- 9 was in use and had a good dry seal.
Digester-10 was in use but had a weak foamy seal.
Digester -11 was in use but had a weak foamy seal.
Digester 12 was in use but had a weak foamy seal.
Digester 13 is currently out of use.
Digester 14 was in use and had a good dry seal use of pellets.
Digester 15 was in use and had a good seal very thick in places.
Digester 16 is currently out of use.
Digesters 17 & 18 were both in use and had good dry seals with the use of pellets.
Digester 19 is currently out of service.
Digester 20 was in use and had a good dry seal.
Automatic dosing of anti-foaming agent in now in use and TW advised that this is also applied manually at least twice a day to all operational digesters. Thames Water advised that immediate remedial action would be taken with regard to digester 7.
Return Activated Sludge Channel
The nearside RAS channel (which runs in the ground between FST's 61- 64 & 65-67) was clogged along the three quarters of its length with thick dry sludge at the time of the inspection. It was also noted that hundreds of tiny flies/insects were crawling over the sludge. Thames advised a tanker is cleaning this out on a weekly basis.

West side primary settlement tanks (PST)	
Rectangular PSTs are now covered and odour controlled.	
Circular PSTs 9, 11 & 12 were all in operation at the time of the inspection. PST 10 is currently out of service and drained down. Hoses were spraying into PT 10 at the time of the inspection.	
GENERAL	
Final Settlement Tanks East Side of Works	
The 8 circular tanks previously used as PSTs are now being used as final tanks (71-78).	
At the time of the inspection all 8 tanks were in operation and appeared to be working fine. Tanks 77 and 78 had a build-up of green algae on the surface.	
East Side Screen House	
The screen house now has new doors fitted, both pairs of which were closed at the time of the inspection.	
Thames confirmed all screens were in operation.	
<u>Skips</u>	
On the East side there was 1 open low level bulk carrier on site that was empty and no odour was present.	
On the West side there was one 12yd skip that was empty and one bulk container.	
A 6yd skip which was covered was also present outside the pasteurisation plant	
Pasteurisation Plant	
The pasteurisation plant was in service at the time of the inspection. TW confirmed ten of the 12 streams were operating at the time of the inspection.	

Section 106 agreement			
There have been no breaches of the s106 agreement in the last week.			
There have been no breaches	or the stop a	greementin	ine last week.
West Side Aeration Lanes (O	<u>)ld)</u>		
No issues appeared to be evide	ent.		
New Works (West Side)			
The mixed liquor feed channel serving aeration lanes 21-25 (E Battery) was clogged with rag & debris along more than half its length.			
The surface of the tanks appeared much improved and was visibly flowing again.			
The sprinkler system for the aeration lanes should be in permanent use but a number of sprinklers were not working properly at the time of the inspection, being clogged with pondweed.			
Thames confirmed that tanker crews are cleaning the mixed feed liquor channel out on a weekly basis.			
New Inlet Works (West Side)			
No issues appeared evident at	the new inlet	works	
no issues appeared endent at		WUIKS.	
Odour Control Unit (OCU) pe	erformance m	nonitoring –	08/06/2017
Plant	Reading (ppm)	Action Level (ppm)	Compliant
Main pumping station outlet	0.000(av)	0.2	Yes
East OCU	0.000(av)	0.05	Yes
West inlet	0.000(av)	0.05	Yes
Sludge reception outlet	0.000(av)	0.8	Yes
Thickening plant outlet Pasteurisation plant outlet (OCU 12)	0.000(av) 0.000(av)	0.6 0.5	Yes Yes

	Transfer PS outlet	0.000(av)	0.6	Yes
	New West OCU 11 outlet	0.000(av)	0.6	Yes
i	# Jerome reading			