

Mogden Sewage Treatment Works

TW Site Inspection

ttendees: Mr I Inman (L B Hounslow) & Mr D Kalamantis (Thames Water).	
LB Hounslow Observation	Thames Water Action / Response
torm Water Storage Tanks (SWST)	
ank 1A was empty & clean. Hoppers 1 & 2 were both <1/2 full, hopper was drained down.	
ank 1B was empty & clean. Hoppers 1, 2 & 3 were all <¼ full.	
ank 2A was empty & clean. Hoppers 1, 2 & 3 were all <¼ full.	
ank 2B was empty & clean. Hopper 1 was approx ¼ full, hoppers 2 & were <¼ full	
ank 3A was empty & clean. Hoppers 1, 2 & 3 were all drained down.	
ank 3B was empty & clean. Hoppers 1, 2 & 3 were all drained down.	
anks 4A, 4B, 5A & 5B are covered and odour controlled.	
ank 6A was empty & clean. Hoppers 1, 2 & 3 were all approx 1/3 full.	
ank 6B was empty & clean. Hoppers 1 & 2 were approx ¼ full, hopper was <¼ full.	
ank 7A was empty & clean. Hoppers 1 & 2 (shallow hoppers) were all II, hopper 3 was full of grit.	

Tank 7B was all full of grit.	empty & cle	ean. Hoppers 1, 2 &	3 (shallow hoppers) were
		clean. Hopper 1 was s ¾ full and all requi	approx ¾ full, hopper 2 red over pumping.
Tank 8B was both <¼ full.	empty & cle	ean. Hopper 1 was ½	4 full. Hoppers 2 & 3 were
Storm Water	Channel		
The storm fee	d channel s	erving STW's 1A-8F	was empty of effluent.
			was empty of emodelit.
<u></u>			
Odour Moni	tors		
The odour rea	adouts (H ₂ S	6) for all of the monit	ors, which were providing
		tion (approx 13:43).	
Monitor 1	0.004	ppm	7
Monitor 2	0.003	ppm	-
Monitor 3	0.006	ppm	
Monitor 4	0.008	ppm	
Monitor 5	0.009	ppm]
Monitor 6	0.000	ppm	
Monitor 7	0.000	ppm	
Monitor 8	0.007	ppm	
Monitor 9	0.006	ppm	4
Monitor 10	0.005	ppm	4
Monitor 11	0.008	ppm	4
Monitor 12	0.006	ppm	_
Monitor 13	0.001	ppm	
<u>Complaints</u>			
The Council r	eceived no	odour complaints by	telephone or Email in the
preceding we			

Odour Log (Thames) - Photocopies of log entries taken:
Thursday 12 th January 2017 AM No odour problems. PM No odour issues on site. Trends good.
 Friday 13th January 2017 AM No odour issues. Nothing of note on trends. PM No odour issues. Pas tech reports sludge spill in thickening building. Spill cleaned up.
Saturday 14 th January 2017 AM No odour problems. Nothing to report on trends. PM No odours reported or found, no spikes on trends.
Sunday 15 th January 2017 AM No odour issues. Nothing on note on trends. PM OM5-four spikes, max 0.103ppm, manhole venting on main drive. OM4-one spike, max 0.015ppm, less than 15 minutes.
Monday 16 th January 2017 AM OM1-5 no spikes, 6-13 no spikes. PM No odour issues on site. No spikes on trends.
Tuesday 17 th January 2017 AM No odour issues. Nothing to report on trends. PM No odour issues. Nothing to report on trends.
Wednesday 18 th January 2017 AM OM1-5 no breaches. OM6-13 no breaches. PM OM9 spiked at 23:10 to 0.020ppm 1hr. OM4 spiked at 10:30 to 0.017ppm 1:10hr. OM5 spiking through night. Areas check some odours from drain cover on main drive.

Sludge Dip Records

Date	West PSTs 1	West PSTs 2	West PSTs 3	West Total	East PSTs	Grand Total
			All un	its in m ³		
OMP limit	500					
13/01/2017	0	450	61	511	5926	6437
16/01/2017	0	1218	0	1218	5237	6455
18/01/2017	0	389	0	389	7251	7640

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 and which has been complied with in this instance

Imported Sludge

There have been 18 imports of sludge per day for the last week, each import containing 30m³ 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.

Digesters 5 & 6 were both in use and had reasonable seals.

Digester 7 was in use and had a reasonable seal but was bubbling and

and the second	
gassing off heavily on the service road side on the digester.	
Digester 8 was in use and had a reasonable seal.	
Digester 9 was in use and had a good dry seal.	
Digesters 10, 11 & 12 were all in use and had reasonable seals.	
Digester 13 is currently out of use.	
Digesters 14 & 15 were both in use and had reasonable seals.	
Digester 16 is currently out of use.	
Digesters 17 & 18 were both in use and had a good dry seals.	
Digester 19 is currently out of service.	
Digester 20 was in use and had a reasonable 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.	
Return Activated Sludge Channel	
The RAS channel (which runs in the ground between FST's 61-64 & 65-67) was clogged in places with thick sludge at the time of the inspection. Thames confirmed 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, 10, 11 & 12 were all in operation and had clean 'fat-free' surfaces.	

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 tanks 71 & 78 were not in operation.

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 were two low level open skips on site, both of which were covered.

On the West side there was one empty bulk carrier, one empty 8yd skip and one low level open skip that was covered.

Pasteurisation Plant

The pasteurisation plant was in service at the time of the inspection. The TW officer confirmed all 12 streams were running.

Section 106 agreement

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

West Side Aeration Lanes (Old)

No issues appeared evident.

New Works (West Side)

At the time of the inspection access to Aeration Lanes 21-25 (E-Battery) was prohibited due to ongoing crane operations to replace the stirrers.

Thames confirmed tanker cre channel out on a weekly basis		ing the mix	ked feed liquor
New Inlet Works (West Side)	1		
No issues appeared evident at	the new inlet	works.	
Odour Control Unit (OCU) pe	erformance m	onitoring –	18/01/2017
Plant	Reading	Action	Compliant
	(ppm)	Level (ppm)	
	0.000()	0.2	Yes
Main pumping station outlet	0.009(av)	0.2	103
Main pumping station outlet East OCU	0.009(av) 0.000(av)	0.2	Yes
	· · · ·		
East OCU	0.000(av)	0.05	Yes
East OCU West inlet	0.000(av) 0.000(av)	0.05 0.05	Yes Yes
East OCU West inlet Sludge reception outlet Thickening plant outlet Pasteurisation plant outlet	0.000(av) 0.000(av) 0.000(av)	0.05 0.05 0.8	Yes Yes Yes
East OCU West inlet Sludge reception outlet Thickening plant outlet Pasteurisation plant outlet (OCU 12)	0.000(av) 0.000(av) 0.000(av) 0.000(av) 0.0002(av)	0.05 0.05 0.8 0.6 0.5	Yes Yes Yes Yes Yes
East OCU West inlet Sludge reception outlet Thickening plant outlet Pasteurisation plant outlet (OCU 12) Transfer PS outlet	0.000(av) 0.000(av) 0.000(av) 0.000(av) 0.0002(av) 0.0002(av)	0.05 0.05 0.8 0.6 0.5 0.6	Yes Yes Yes Yes Yes Yes
East OCU West inlet Sludge reception outlet Thickening plant outlet Pasteurisation plant outlet (OCU 12)	0.000(av) 0.000(av) 0.000(av) 0.000(av) 0.0002(av)	0.05 0.05 0.8 0.6 0.5	Yes Yes Yes Yes Yes