

Mogden Sewage Treatment Works

TW Site Inspection

Date of inspection: 3 rd November 2016	
Attendees: Anthony Robinson (L B Hounslow) & Mr Manzoor Hussain (Thame	s Water).
LB Hounslow Observation	Thames Water Action / Response
Storm Water Storage Tanks (SWST)	
Tank 1A - 3B were empty & clean and all hoppers were completely drained down.	
Tanks 4A, 4B, 5A & 5B are covered and odour controlled.	
Tanks 6A and 6B were empty & clean, the hoppers were approximately 1/3 full of clear effluent.	
Tanks 7A and 7 B were empty and clean and all the hoppers were approximately $\frac{1}{2}$ full, the tanks were being back filled to flush the hoppers.	
Tanks 8A and 8B were empty and clean, the hoppers were all approximately 3/4 full with effluent which had an oily film on the surface, no odour was noted.	
Storm Water Channel	
The storm feed channel serving STW's 1A-8B was very low and relatively clean.	

Odour Monitors

The odour readouts (H_2S) for all of the monitors, which were providing data at the time of inspection (approx. 13:07).

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

Complaints

The Council received no odour complaints by telephone or e-mail in the preceding week.

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

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

Thursday 27th October 2016

AM Odour monitor 2 spiked 16:26 – 16:38. Area checked and all OK. **PM** OM 3 spike 03:00 for 1 hour to 0.043ppm. Area around East PST's checked. No 11 OCU running ok. No suspicious odours found.

Friday 28th October 2016 AM Sheet blank PM Sheet blank

Saturday 29th October 2016 AM Sheet blank PM Sheet blank

Sunday 30 th October 2016 AM Sheet blank PM Sheet blank	
Monday 31 st October 2016	
AM Sheet blank PM No odour spikes detected on trends.	
Tuesday 1 st November 2016	
AM OM 2 – spike = 0.024 from 8.41 – 8.53pm. OM8 – spike = 0.023 from 05:01 – 05:13am.	
PM Monitor 4 spiking – New CHP3 running . Exhaust fumes spiking meter.	
Monitor 8 – two spikes – 07:00 – 07:55 0.023ppm No odours detected after investigation.	
Wednesday 26 th October 2016	
AM Sheet blank PM Sheet blank	

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					
27/10/2016	40	783	0	823	4428	5251
31/10/2016	0	1467	0	1467	4084	5551
02/11/2016	20	740	0	760	3947	4707

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 11 imports of sludge received in 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 13, 16 and 19 were out of use for maintenance.

Seals were generally good on all digesters with clear evidence of pellets and antifoam being used to reduce gassing. The dome heights on digesters 7 and 8 were high and there was evidence of a previous spillage around the North side of digester 7.

Deturn Activated Sludge Chennel	
Return Activated Sludge Channel	
The RAS channel (which runs in the ground between FST's 61-64 &	
65-67) was clean and free flowing 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.	
PST 9 is still currently out of service. Circular PSTs 10, 11 and 12 were	
all in operation and clear of scum / sludge.	
GENERAL	
Final Settlement Tanks East Side of Works	
That Settlement Tanks Last Side of Works	
The 9 size let test a provisually used as DCTs are new being used as	
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.	
All 8 tanks have hose and sprinkler systems fitted onto the sweeper	
bridges that were operating.	
bridges that were operating.	
East Side Screen House	
Both sets of doors were closed.	
<u>Skips</u>	
1 covered skip next to the East side screen house.	
There was one 6yd skip by the temporary centrifuge (located near to	
the entrance to the digesters), this was covered with a thick tarpaulin.	
There was one 6yd skip at the entrance to the digesters which was	
covered.	
On the West side were no skips in the washpactor / grit handling area.	

Pasteurisation Plant	
The pasteurisation plant was in service at the time of the inspection. Thames confirmed 10 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 reported issues.	
New Works (West Side)	
The mixed liquor feed channel serving aeration lanes 21-25 was relatively clear with some patches of rag and debris.	
The majority of the surface of the aeration lanes was covered with a fluffy layer of scum. The sprinklers were all operating normally at the time of the inspection.	
Thames confirmed tanker crews are cleaning the mixed feed liquor channel out on a weekly basis.	
New Inlet Works (West Side)	
No reported issues at inlet works.	

Plant	Reading (ppm)	Action Level (ppm)	Compliant
Main pumping station outlet	0.004(av)	0.2	Yes
East OCU	0.015(av)	0.05	Yes
West inlet	0.004(av)	0.05	Yes
Sludge reception outlet	0.000(av)	0.8	Yes
Thickening plant outlet	0.08(av)	0.6	Yes
Pasteurisation plant outlet (OCU 12)	0.0002(av)	0.5	Yes
Transfer PS outlet	0.04(av)	0.6	Yes
New West OCU 11 outlet	0.035(av)	0.6	Yes
# Jerome reading			