



London Borough of Hounslow

Mogden Sewage Treatment Works

TW Site Inspection

Date of inspection: 26 th January 2017	
Attendees: Mr A Robinson (L B Hounslow) & Mr D Kalamantis (Thames Water).	
LB Hounslow Observation	Thames Water Action / Response
<p><u>Storm Water Storage Tanks (SWST)</u></p> <p>All storm tanks were empty and clean.</p> <p>The following hoppers needed over pumping: Tank 6A hopper 3 Tank 8A hopper 3 All hoppers in Tank 8B.</p> <p>The level in the remaining hoppers was low.</p> <p><u>Storm Water Channel</u></p> <p>The storm feed channel serving STW's 1A-8B was very low.</p>	

Odour Monitors

The odour readouts (H₂S) for all of the monitors, which were providing data at the time of inspection (approx. 13:07).

Monitor 1	0.003	ppm
Monitor 2	0.000	ppm
Monitor 3	0.004	ppm
Monitor 4	0.005	ppm
Monitor 5	0.005	ppm
Monitor 6	0.000	ppm
Monitor 7	0.000	ppm
Monitor 8	0.005	ppm
Monitor 9	0.005	ppm
Monitor 10	0.004	ppm
Monitor 11	0.004	ppm
Monitor 12	0.005	ppm
Monitor 13	0.001	ppm

Complaints

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

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

Thursday 19th January 2017

AM No odour problems.

PM Odour monitor 1 spiked @ 05:30 to 0.02.

Actions taken:

Area checked around storm tanks, no obvious odours found.

Friday 20th January 2017

AM Monitors 1 and 4 spiking AM. Storm tanks checked and OK. Monitor 8 showing odours – power house area checked and no odours found.

PM Odour monitors 1-5 no spikes, 6-13 no spikes.

Saturday 21st January 2017

AM Odour monitor number 8 spiking from 11:00. Smell from PAS area – OCU seems to be running OK.

PM Odour monitor 1 to 5 no spikes.

Odour monitor 8 spiking:

0.016 @ 11:03 to 11:18

0.021 @ 11:33 to 11:43.

0.023 @ 11:43 to 12:00.

0.016 @ 12:33 to 01:00.

0.031 @ 01:48 to 02:00.

0.022 @ 02:33 to 02:45

Sunday 22nd January 2017

AM No odour problems all trends low.

PM Odour monitor 5 – couple of spikes. No other spikes.

Monday 23rd January 2017

AM Monitor 5 – one spike – less than 15 mins. No other odour issues on site.

PM Odour monitor 5

0.017 @ 12:53 – 01:05

0.015 @ 08:53 – 09:05

Odour monitors 6-13 – No issues.

Tuesday 24th January 2017

AM Odour monitor 4 – four spikes. Two over 15 mins, max 0.026ppm. Monitor 5 – one spike max 0.021ppm. Monitor 8 – three spikes. Max 0.024ppm.

Smell from PAS area. OCU 12 running OK.

PM Odour monitors 4 and 5 showing raised odours. Vent in main drive venting. MPS wet well running at 4m. Monitor 4 showing raised digesters OK and PAS all OK. No smells found in area.

Wednesday 25th January 2017

AM Odour monitor 5 – 1 spike @ 06:22 – 06:34. Odour monitors 6-13 no spikes.

PM Monitor 5 spiking on and off several times mostly < 15 mins duration max 0.028ppm. One spike of 57minutes at 05:07 max 0.022ppm. Manhole on main drive venting odour from low level sewer.

Sludge Dip Records

Date	West PSTs 1	West PSTs 2	West PSTs 3	West Total	East PSTs	Grand Total
	All units in m ³					
OMP limit	500					
23/01/2017	39	2362	0	2401	13646	16047
25/01/2017	0	2736	206	2942	11960	14902

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 6 imports of sludge per day for previous 3 days with no imports prior to this, 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 evidence of pellets on most of the digesters to prevent foaming.

Automatic dosing of anti-foaming agent is 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 clear of any sludge.
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 with no reported problems.

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.

Skips

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 and two empty 8yd skips.

Pasteurisation Plant

The pasteurisation plant was in service at the time of the inspection.

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)

The feed channel to Aeration Lanes 21-25 (E-Battery) was filled with rag and surface scum. The surface of the tanks was filled with a dense layer of scum.

Thames confirmed tanker crews are cleaning the mixed feed liquor channel out on a weekly basis.

New Inlet Works (West Side)

No reported problems with the inlet works.

Odour Control Unit (OCU) performance monitoring – 25/01/2017

Plant	Reading (ppm)	Action Level (ppm)	Compliant
Main pumping station outlet	0.026(av)	0.2	Yes
East OCU	0.000(av)	0.05	Yes
West inlet	0.000(av)	0.05	Yes
Sludge reception outlet	0.015(av)	0.8	Yes
Thickening plant outlet	0.011(av)	0.6	Yes
Pasteurisation plant outlet (OCU 12)	0.0003(av)	0.5	Yes
Transfer PS outlet	0.003(av)	0.6	Yes
New West OCU 11 outlet	0.000(av)	0.6	Yes

Jerome reading

