



London Borough of Hounslow

Mogden Sewage Treatment Works

TW Site Inspection

Date of inspection: 28 th June 2018	
Attendees: Mr Zaheer Kadri (L B Hounslow) & Mr Waleed Janjua (Thames Water).	
LB Hounslow Observation	Thames Water Action / Response
<p><u>Storm Water Storage Tanks (SWST)</u></p> <p>Tank 1A was empty and clean. Hoppers 1, 2 & 3 were all drained down.</p> <p>Tank 1B was empty and clean. Hoppers 1, 2 & 3 were all drained down.</p> <p>Tank 2A was empty and clean. Hoppers 1, 2 & 3 were all drained down.</p> <p>Tank 2B was empty and clean. Hopper 3 was approx ¼ full, hoppers 1 & 2 were both drained down.</p> <p>Tank 3A was empty and clean. Hoppers 1, 2 & 3 were all drained down.</p> <p>Tank 3B was empty and clean. Hoppers 1, 2 & 3 were all drained down.</p> <p>Tanks 4A, 4B, 5A & 5B are covered and odour controlled.</p> <p>Tank 6A was empty and clean. Hoppers 1, 2 & 3 were all approx <¼ full.</p> <p>Tank 6B was empty and clean. Hoppers 1, 2 & 3 were all drained down.</p> <p>Tank 7A was empty and clean. Hoppers 1, 2 & 3 (shallow hoppers) were all drained down.</p> <p>Tank 7B was empty and clean. Hoppers 1, 2 & 3 (shallow hoppers) were all drained down.</p>	

Tank 8A was empty and clean. Hopper 1, 2 and 3 were full. However, over pumping to empty the hoppers was taking place at the time of the inspection by TW staff.

Tank 8B was empty and clean. Hoppers 1, 2 & 3 were all full at the time of the inspection and were due to be over pumped the same day.

Storm Water Channel

The storm feed channel serving STW's 1A-8B was virtually empty with only a shallow level of clean water along its entire length.

Odour Monitors

The odour readouts (H₂S) for all of the monitors, which were providing data at the time of inspection (approx 12:20 on 28th June 2018).

Monitor 1	0.004	ppm
Monitor 2	0.000	ppm
Monitor 3	0.000	ppm
Monitor 4	0.000	ppm
Monitor 5	0.000	ppm
Monitor 6	0.000	ppm
Monitor 7	0.005	ppm
Monitor 8	0.003	ppm
Monitor 9	0.004	ppm
Monitor 10	0.000	ppm
Monitor 11	0.004	ppm
Monitor 12	0.000	ppm
Monitor 13	0.000	ppm
Wind Dir	69.000	
Wind Spd	5.000	

Complaints

The Council received 2 complaints in the preceding week.

On Tuesday, June 26, 2018 at 23:01 a resident emailed Thames Water regarding odour in the vicinity of Mogden- No fixed location was detailed in the email. This email was forwarded by Thames Water to LBH on the 27th June 2018 at 00:02. A letter was sent out to the complainant on the 3rd of July 2018 with information on the 24 hour Mogden call out service and information of how to access weekly reports from inspections.

A complaint from the Harvester Road area was received on the 27th June 2018 at approx 14:49. The officer called back at 15:25 and the callers telephone contact details were incorrect. Hence unable to contact complainant. A letter was sent out to the complainant on the 3rd of July 2018 with information on the 24 hour Mogden call out service and information of how to access weekly reports from inspections.

On the 28th of June at approx 13:29 a call was received about alleged odours in the area of Consort Mews, Isleworth. At the time of the complaint the Officer on duty was inspecting TWSW and no odours were apparent at the time. A letter was sent out to the complainant on the 3rd of July 2018 with information on the 24 hour Mogden call out service and information of how to access weekly reports from inspections.

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

Thursday 21st June 2018

AM

Observations No odour spikes, no other issues.

Actions: None.

PM

Observations No odour issues.

Actions: None.

Friday 22nd June 2018

AM

Observations No odour spikes, no other issues

Actions: None.

PM

Observations No odour issues. No spikes on trends.

Actions: None.

Saturday 23rd June 2018

AM

Observations OM8 spiked to 0.03ppm between 11:53-11:58 (less than a 15 minute duration)

Actions: None.

PM

Observations No odour issues on site.

Actions: None.

Sunday 24th June 2018

AM

Observations No odour issues. Nothing to report on trends

Actions: None.

PM

Observations No odour issues. Nothing to report on trends.

Actions: None.

Monday 25th June 2018

AM

Observations No odour issues found or reported.

Actions: None.

PM

Observations No odour issues. Nothing to report on trends.

Actions: None.

Tuesday 26th June 2018

AM

Observations No odour issues.

Actions: None.

PM

Observations Nothing to note on trends. No odour issues overnight

Actions: None.

Wednesday 27th June 2018

AM

Observations No odour issues found or reported. Nothing spiking on trends.

Actions: None.

PM

Observations No odour spikes. No other issues.

Actions: None.

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					
22/06/18	0	1631	0	1631	1929	3560
25/06/18	392	244	0	636	1592	2228
26/06/18	253	764	0	1017	1112	1365 (*2129)

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.

*There seems to be an error in the calculation – TW Grand Total calculations reads 1365 when Grand Total should total 2129

Imported Sludge

There have been 3 imports of sludge over the last week.

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, 7, 8 & 9 were all in use and had good dry crusty seals.

Digesters 10 & 11 were in use and had wet seals but were only bubbling off minimal amounts of gas.

Digester 12 was in use and had a good dry crusty seal.

Digesters 13 & 14 were both out of use.

Digester 15 was in use and had a good dry crusty seal.

Digester 16 was out of use.

Digesters 17 & 18 were both in use and had good dry crusty seals.

Digesters 19 & 20 were both in use and had been pelleted.

All digesters and bell heights just below the half way mark.

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 nearside RAS channel (which runs in the ground between FST's 61-64 & 65-67) was relatively free flowing along its length.

West side primary settlement tanks (PST)

Rectangular PSTs are now covered and odour controlled.

Circular PSTs 9, 10, 11 & 12 were all in operation at the time of the inspection, all 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 settlement tanks (71-78). At the time of the inspection all tanks were in operation.

East Side Screen House

The screen house doors were closed at the time of the inspection.

Skips

On the East side there was one 20yds skip open bulk carrier which was empty at time of inspection.

On the West side there was one 40yds closed bulk carrier & two 20yds open bulk carriers that were both empty.

Pasteurisation Plant

The pasteurisation plant was in service at the time of the inspection. Thames Water advised all the streams were in operation.

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)

All of the aeration tanks have again developed a thick “fluffy” coverage across their entire surface. However, the surface appears much improved and free flowing. Almost all the sprinklers were in operation at the time of the inspection and appeared to be functioning correctly.

The mixed liquor feed channel serving aeration lanes 24-25 (E Battery) was flowing and not clogged on the surface however there were some sludgy areas noticed.

The channel serving aeration lanes 22 & 23 were free flowing.

Thames Water officer advised that a company called Kalvac has now been contracted out to clear the sludge and rag build up along the channels.

New Inlet Works (West Side)

No issues appeared evident at the new inlet works.

Odour Control Unit (OCU) performance monitoring – 26/06/2018

Plant	Reading (ppm)	Action Level (ppm)	Compliant
Main pumping station outlet	0.00(av)	0.2	Yes
East OCU	0.00(av)	0.05	Yes
West inlet	0.04(av)	0.05	Yes
Sludge reception outlet	0.00(av)	0.8	Yes
Thickening plant outlet	0.00(av)	0.6	Yes
Pasteurisation plant outlet (OCU 12)	0.00(av)	0.5	Yes
Transfer PS outlet	0.00(av)	0.6	Yes
New West OCU 11 outlet	0.00(av)	0.6	Yes

Jerome reading