



Mogden Sewage Treatment Works

TW Site Inspection

Date of inspection: 03 rd August 2017	
Attendees: Mr Andrew Devine (London Borough of Hounslow) and Mr Dimitrios Kalmantis (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. Hopper 1 required overpumping.</p> <p>Tank 1B was empty and clean. Hopper 3 required overpumping.</p> <p>Tank 2A was empty and clean</p> <p>Tank 2B tank was empty and clean. All hoppers required overpumping as they were full with water.</p> <p>Tank 3A was returning at the time of the inspection. Amajets 1,2 and 3 were all working.</p> <p>Tank 3B was returning at the time of the inspection. Amajet 1 was working at the time of the inspection.</p> <p>Tanks 4A, 4B, 5A & 5B are all covered and odour controlled.</p> <p>Tank 6A was approximately 30% full with water.</p> <p>Tank 6B was empty and clean. All the hoppers were full with a small</p>	

amount of water in the tank above the level of the hopper.

Tank 7A was generally empty and clean. All the hoppers were full with a small amount of water in the tank above the level of the hopper. A small amount of grit was noted in the tank.

Tank 7B – 8A - Empty and clean. All hoppers were full with water and required overpumping.

Tank 8B was empty and clean, hopper 1 and 3 were full and required overpumping.

Feed Channel – The feed channel level was very low. The base of the channel feeding tanks 4-8 contained some sludge and was locally odorous. Thames Water advised that the feed channel would be flushed.

Odour Monitors

The odour readouts (H₂S) for all of the monitors, which were providing data at time of inspection (2:37pm) are as follows:

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

All readings accessed using Envirosuite which provides data in ppb.

Complaints

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

The Council received no complaints by email from MRAG.

Odour Log (Thames)

Thursday 27th July 2017

AM – Odour monitors 1 to 13 no spikes.

PM – Showers tonight. Odour monitor 1 to 5 no spikes.

Friday 28th July 2017

AM – Odour monitor 5 spike at 03:48 at 0.015ppm under 15 minutes. No odour issues.

PM – No odour issues. Nothing to report on trends.

Saturday 29th July 2017

AM – No odour issues. No spikes on trends.

PM – No odour issues. Nothing to report on trends.

Sunday 30th July 2017

AM – Odour monitors 1 to 5 no spikes. Odour monitor 8 one spike 0.019ppm under 15 minutes. No other odour issues.

PM – No odour issues. Nothing to report on trends.

Monday 31st July 2017

AM – No odour spikes.

PM – No odour issues. Nothing to report on trends.

Tuesday 1st August 2017

AM – No Odour issues. Nothing to report in trends. Trends failure

reported.

Actions – Trends issue resolved by ICA Technician

PM – No odour issues. Nothing to report on trends.

Wednesday 2nd August 2017

AM – No odour problems.

PM – No information on record sheet.

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					
28/07/17	0	1405	1073	2478	5054	7532
31/07/17	0	993	595	1588	2224	3812
02/08/17	0	1054	267	1321	3131	4452

The sludge stock levels for the West side circular primary settlement tank 1 were **compliant** with the OMP trigger level (500m³) for all dates on which data has been provided. 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.

Sludge Screening House

Shutter doors closed at time of inspection.

Imported Sludge

Eight imports of 35m³ daily for preceding seven days.

Digesters

Digesters 1-4 – Out of use (permanent),

Digester 5 – was in use but had a weak seal.

Digester 6 – was in use and had a good seal.
Digester 7 – was in use but had a weak seal.
Digester 8 – was in use but had a weak seal.
Digester 9 – was in use and had a good seal.
Digester 10 – was in use and had a good seal.
Digester 11 – was in use but had a weak seal.
Digester 12 – was in use but had a weak seal.
Digester 13 – was out of use for maintenance.
Digester 14 – was in use and had a good seal.
Digester 15 – was in use but had a weak seal.
Digester 16 – was out of use for maintenance.
Digester 17 – was in use and had a good seal.
Digester 18 – was in use and had a good seal.
Digester 19 – was out of use for maintenance.
Digester 20 – was in use and had a good seal.

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). Tank 77 had been drained down and was not in use at the time of the inspection. The surfaces of Tanks 71 & 78 were still covered in a thick layer of algae.

Final tanks 4 and 28 were also drained down at the time of the inspection.

East Side Screen House

All doors closed.

Other Skips

1 x 15 yd. open general waste skip at rear of screen house.

Pasteurisation Plant

The pasteurisation plant is in service and fully operational.

Section 106 agreement

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

West side primary settlement tanks (PST)

Rectangular PSTs – no issues
Circular PST's all in use except for PST 9.

West Side Aeration Lanes (Old)

Battery C aeration feed channel was clear, contractors were on site clearing the channels further North.

New Works (West Side)

Feed Channel for Aeration Lanes 20 - 25

Fluffy layer of sludge across the surface of the aeration lanes. sprinklers were working. The volume of rag in the channels appears to have decreased. The feed channel needs clearing, Thames Water advised that a tanker does clean out the feed channel.

Odour Control Unit (OCU) performance monitoring – (03/08/17)

Plant	Reading (ppm) (Average)	Action Level (ppm)	Compliant
Main pumping station outlet	0.000	0.2	Yes
East OCU	0.002	0.05	Yes
West inlet OCU	0.000	0.05	Yes
Sludge reception outlet	0.000	0.8	Yes
Thickening plant outlet	0.000	0.6	Yes
Transfer PS outlet	0.000	0.6	Yes
New West inlet (OCU 11)	0.000	0.5	Yes
OCU 12 (Pasteurisation Plant)	0.000	0.5	Yes