



# London Borough of Hounslow

## Mogden Sewage Treatment Works

### TW Site Inspection

<b>Date of inspection:</b> 21 <sup>st</sup> November 2016	
<b>Attendees:</b> Mr I Inman (L B Hounslow) & Mr D Kalamantis (Thames Water).	
<b>LB Hounslow Observation</b>	<b>Thames Water Action / Response</b>
<p><b><u>Storm Water Storage Tanks (SWST)</u></b></p> <p>Tanks 1A to 8B were all full at the time of the inspection and Mogden were storm water discharging due the heavy rain.</p> <p>Tank 1B was full and amajets 1, 2 &amp; 3 were all in operation.</p> <p>Tank 2A was full and amajets 1, 2 &amp; 3 were all in operation.</p> <p>Tank 2B was full and amajets 1, 2 &amp; 3 were all in operation.</p> <p>Tank 3A was full and amajets 1, 2 &amp; 3 were all in operation.</p> <p>Tank 3B was full and amajets 1, 2 &amp; 3 were all in operation.</p> <p>Tanks 4A, 4B, 5A &amp; 5B are covered and odour controlled.</p> <p>Tank 6A was full and amajets 1, 2 &amp; 3 were all in operation.</p> <p>Tank 6B was full and amajets 1, 2 &amp; 3 were all in operation.</p> <p>Tank 7A was full and amajets 1, 2 &amp; 3 were all in operation.</p> <p>Tank 7B was full and amajets 1, 2 &amp; 3 were all in operation.</p> <p>Tank 8A was full and amajets 1, 2 &amp; 3 were all in operation.</p>	

Tank 8B was full and amajets 1, 2 & 3 were all in operation.

**Storm Water Channel**

The storm feed channel serving STW's 1A-8B was full at the time of the inspection.

**Odour Monitors**

The odour readouts (H<sub>2</sub>S) for all of the monitors, which were providing data at the time of inspection (approx 13:47).

Monitor 1	0.004	ppm
Monitor 2	0.004	ppm
Monitor 3	0.004	ppm
Monitor 4	0.000	ppm
Monitor 5	0.000	ppm
Monitor 6	0.000	ppm
Monitor 7	0.003	ppm
Monitor 8	0.000	ppm
Monitor 9	0.004	ppm
Monitor 10	0.004	ppm
Monitor 11	0.000	ppm
Monitor 12	0.004	ppm
Monitor 13	0.004	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 10<sup>th</sup> November 2016**

**AM** OM 1-5 & 6-13 no spikes.

**PM** No odour spikes, storm tanks returning.

**Friday 11<sup>th</sup> November 2016**

**AM** OM2 0.016 from 16:56 to 17:09.

**PM** No odour spikes on trends, nothing to report.

**Saturday 12<sup>th</sup> November 2016**

**AM** OM1-5 no spikes. OM10 peak at 0.029ppm from 12:00 to 12:13.

OM10 peaked at 0.021ppm from 11:30 to 11:43.

**PM** No odour spikes, nothing on trends.

**Sunday 13<sup>th</sup> November 2016**

**AM** OM 1-5 & 6-13 no spikes.

**PM** No odour spikes, no odour problems.

**Monday 14<sup>th</sup> November 2016**

**AM** No odour detected on trends or whilst out walking around site.

**PM** OM3 peak at 0.017ppm from 12:51 to 01:03. OM3 peak at 0.017ppm from 11:36 to 11:48.

**Tuesday 15<sup>th</sup> November 2016**

**AM** NOTHING ENTERED IN ODOUR LOG.

**PM** OM3, OM4 & OM5 flat lining. OM11 & OM12 negative reading. OM6 to OM13 flat lining from 19:00.

**Wednesday 16<sup>th</sup> November 2016**

**AM** No odour detected on trends. No odours' detected whilst out on site.

**PM** OM1-5 & OM6-13 no spikes.

### **Sludge Dip Records**

Date	West PSTs	West PSTs	West PSTs	West Total	East PSTs	Grand Total
	1	2	3	All units in m <sup>3</sup>		
OMP limit	500					
14/11/2016	40	1594	206	1840	4085	5925

No other sludge dip records were available due to them not having carried out by Thames Water staff in the preceding week.

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 65 imports of sludge per day for the last week, each import containing 30m<sup>3</sup> 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, 7, 8, 9, 10, 11 & 12 were all in use and had wet seals at the time of the inspection due to heavy rain fall.

Digester 13 is currently out of use.

Digesters 14 & 15 were both in use and had wet seals at the time of the inspection due to heavy rain fall.

Digester 16 is currently out of use.

Digesters 17, 18 & 19 were all in use and had wet seals at the time of the inspection due to heavy rain fall.

Digester 20 is currently out of use.

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 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.

Circular PSTs 10, 11 & 12 were all in operation and had clean 'fat-free' surfaces.

PST 9 is currently out of service.

**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 tanks 71 to 77 were in use & tank 78 was being drained down for maintenance work.

All 8 tanks have hose and sprinkler systems fitted onto the sweeper

bridges that were operating.

**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 that were full and covered and one empty low level skip.

On the West there were no skips in the skip storage area.

**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)**

The mixed liquor feed channel serving aeration lanes 21-25 was free flowing and clear of debris at the time of the inspection.

The sprinkler system for the aeration lanes is in use permanently and most were working 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 issues appeared evident at the new inlet works.

**Odour Control Unit (OCU) performance monitoring – 22/11/2016**

<b>Plant</b>	<b>Reading (ppm)</b>	<b>Action Level (ppm)</b>	<b>Compliant</b>
Main pumping station outlet	0.096(av)	0.2	Yes
East OCU	0.016(av)	0.05	Yes
West inlet	0.000(av)	0.05	Yes
Sludge reception outlet	0.000(av)	0.8	Yes
Thickening plant outlet	0.025(av)	0.6	Yes
Pasteurisation plant outlet (OCU 12)	0.0002(av)	0.5	Yes
Transfer PS outlet	0.101(av)	0.6	Yes
New West OCU 11 outlet	0.000(av)	0.6	Yes

# Jerome reading