



# London Borough of Hounslow

## Mogden Sewage Treatment Works

### TW Site Inspection

<b>Date of inspection:</b> 9 <sup>th</sup> August 2018 – (12:00)	
<b>Attendees:</b> Mr L Phillips (L B Hounslow) & Mr M Hussain (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>Tank 1A was empty and clean. Hoppers 1, 2 &amp; 3 were all drained down.</p> <p>Tank 1B was empty and clean. Hoppers 1, 2 &amp; 3 were all drained down.</p> <p>Tank 2A was empty and clean. Hoppers 1, 2 &amp; 3 were all drained down.</p> <p>Tank 2B was empty slight grit build up in lower end of tank. Hopper 1 was approx ¼ full, hoppers 2 &amp; 3 also require draining.</p> <p>Tank 3A was empty and clean. Hoppers 1, 2 &amp; 3 were all drained down to lowest point.</p> <p>Tank 3B was empty and clean. Hoppers 1, 2 &amp; 3 were all drained down to lowest point.</p> <p>Tanks 4A, 4B, 5A &amp; 5B are covered and odour controlled. Unable to gauge condition as lighting system still not working. Window hatch removed to enable access for over-pumping and requires replacement.</p>	

Tank 6A was empty and clean. Hoppers 1, 2 & 3 were all drained down to lowest point.

Tank 6B was empty and clean. Hoppers 1, 2 & 3 were all drained down to lowest point.

Tank 7A was empty and clean. Hoppers 1, 2 & 3 were all drained down to lowest point.

Tank 7B was empty and clean. Hoppers 1, 2 & 3 were all drained down to lowest point.

Tank 8A was empty and clean. Hoppers 1, 2 & 3 were all drained down to lowest point.

Tank 8B was empty and clean. Hoppers 1, 2 & 3 were all drained down to lowest point.

### **Storm Water Channel**

The storm feed channel serving STW's 1A-8B was a dark murky in colour along the length however in parts had a greasy layer.

### **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. 13:10 on 9<sup>th</sup> August 2018).

Monitor 1	0.005	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	0.003	ppm
Monitor 8	0.005	ppm
Monitor 9	0.000	ppm
Monitor 10	0.000	ppm
Monitor 11	0.000	ppm
Monitor 12	0.000	ppm

Monitor 13	0.000	ppm	
Wind Direction	280.000		
Wing Speed	5.000		

### **Complaints**

The Council directly received no complaints by telephone in the preceding week.

The Council directly received no complaints by email in the preceding week.

The Council received no complaints by email from MRAG.

Thames Water controller advised that they had received no direct complaints in the preceding week.

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

#### **Thursday 02<sup>nd</sup> August 2018**

**AM** Hot, sunny with patchy clouds.

All OMU's in use.

**Observations:** 17:30 Nil. No odour issues.

**Actions** None noted.

**PM** Hot and clear night.

All OMU's in use.

**Observations:** 05:30 Nil. None.

**Actions** None noted.

#### **Friday 03<sup>rd</sup> August 2018**

**AM** Hot, sunny

All OMU's in use.

**Observations:** 17:30 Nil. No odour issues.

**Actions** None noted.

**PM** Warm, clear night.

All OMU's in use.

**Observations:** 05:30. Nil. No odour issues.  
**Actions** None noted.

**Saturday 04<sup>th</sup> August 2018**

**AM:** Hot, Sunny.

All OMU's in use.

**Observations:** 17:30. Nil, No odour issues.

**Actions** No actions noted.

**PM:** Warm clear night.

All OMU's in use.

**Observations:** 05:30 Nil. No odour issues.

**Actions** None.

**Sunday 05<sup>th</sup> August 2018:**

**AM:** Hot, sunny

All OMU's in use.

**Observations:** 17:30 Nil. No odour issues.

**Actions** None noted.

**PM:** Warm, clear night.

All OMU's in use.

**Observations:** 02:39 (0.016) & 22:32( 0.017) OM2 spike less than one minute. 05:17 -05:32 OM2 spike 0.022.:40

**Actions** Area investigated no source found.

**Monday 06<sup>th</sup> August 2018:**

**AM** Very hot, sunny.

All OMU's in use.

**Observations:** 17:30 Nil. None noted.

**Actions** None noted.

**PM** Warm. Clear night.

All OMU's in use.

**Observations:** 00:47 OM2 spike 1 minute. no odour issues

**Actions** No actions noted.

**Tuesday 07<sup>th</sup> August 2018:**

**AM:** Very hot, Sunny with cloudy patches clouds..

All OMU's in use.

**Observations:** 17:30 Nil. No odour issues.

**Actions:** None noted.

**PM:** Warm, Rain.

All OMU's in use.

**Observations:** 05:30 Nil. No odour issues.

**Actions** None noted.

**Wednesday 8<sup>th</sup> August 2018:**

**AM:** Hot, Cloudy with sunny spells.

All OMU's in use.

**Observations:** 17:40 Nil. No odour issues.

**Actions:** None noted.

**PM:** Warm, Rain

All OMU's in use.

**Observations:** 05:30 Nil. No odour issues.

**Actions:** None Noted

### **Sludge Dip Records**

<b>Date</b>	<b>West PSTs 1</b>	<b>West PSTs 2</b>	<b>West PSTs 3</b>	<b>West Total</b>	<b>East PSTs</b>	<b>Grand Total</b>
	<b>All units in m<sup>3</sup></b>					
<b>OMP limit</b>	<b>500</b>					
01/08/18	88	267	0	355	1264	1619
02/08/18	0	61	88	149	936	1085
3/08/18	0	61	39	100	1416	1516

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.

### **Imported Sludge**

There have been 12 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.

Digester 5 was in use no evidence of spillage, weak seal.

Digester 6 was in use no evidence of spillage, weak seal.

Digester 7 was in use no evidence of spillage, weak seal.

Digester 8 was in use no evidence of spillage, weak seal.

Digester 9 was in use no evidence of spillage, weak seal.

Digester 10 was in use no evidence of spillage, weak seal.

Digester 11 was in use no evidence of spillage, weak seal.

Digester 12 was in use no evidence of spillage, weak seal.

Digesters 13, 14 and 16 were all out of operation.

Digester 15 was in use no evidence of spillage, weak seal.

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

Digesters 19 & 20 was in use no evidence of spillage weak seal.

Automatic dosing of anti-foaming agent is 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 12yd skips. A small amount of general rubbish that was covered with a tarpaulin.

On the West side there was one 40yds closed bulk carrier.

**Pasteurisation Plant**

The pasteurisation plant was in service at the time of the inspection. Thames Water advised streams 3 & 11 were out of operation for maintenance.

**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. CELVAC were on site at the aeration lanes manually assisting clear up.

**E Battery:**

The feed channel for aeration lane 25 was unclogged and running freely along the majority of the length. Odour was not noticeable at time of Inspection.

The mixed liquor feed channel serving aeration lanes 24 & 23 were both clear and free flowing.

The channel serving aeration lanes 22 & 21 were both free flowing.

**New Inlet Works (West Side)**

No issues appeared evident at the new inlet works.

**Odour Control Unit (OCU) performance monitoring – 1/08/2018**

<b>Plant</b>	<b>Reading (ppm)</b>	<b>Action Level (ppm)</b>	<b>Compliant</b>
Main pumping station outlet	0.00(av)	0.2	Yes
East OCU	0.00(av)	0.05	Yes
West inlet	0.00(av)	0.05	Yes
Sludge reception outlet	No data	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