



# London Borough of Hounslow

Mogden Sewage Treatment Works

## TW Site Inspection

<b>Date of inspection:</b> 05 <sup>th</sup> July 2018	
<b>Attendees:</b> Mr Leroy Phillips (L B Hounslow) & Mr Waleed Janjua (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. All hoppers drained to lowest point, no odours detected.</p> <p>Tank 1B was empty and clean. All hoppers require draining no odour detected.</p> <p>Tank 2A was empty and clean. All hoppers were all drained down to lowest point.</p> <p>Tank 2B was empty and clean. Hopper's 1 &amp; 3 were approx half full, hopper 2 was fully drained down.</p> <p>Tank 3A was empty and clean. All hoppers were all drained down to lowest point.</p> <p>Tank 3B was empty and clean. All hoppers were all drained down to lowest point.</p> <p>Tanks 4A, 4B, 5A &amp; 5B are covered and odour controlled.</p> <p>Tank 6A was empty and clean. All hoppers were all drained down to lowest point.</p>	

Tank 6B was empty and clean. All hoppers were all drained down to lowest point.

Tank 7A was empty and clean slight grit build up. All hoppers were all drained down to lowest point.

Tank 7B was empty and clean. All hoppers were all drained down to lowest point.

Tank 8A was empty and clean, slight grit build up in tank. All hoppers were all drained down to lowest point.

Tank 8B was empty and clean, slight grit build up in tank. All hoppers were all drained down to lowest point.

### **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 (H<sub>2</sub>S) for all of the monitors, which were providing data at the time of inspection (approx 12:20 on 5<sup>th</sup> July 2018).

Monitor 1	0.000	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	0.008	ppm
Monitor 8	0.004	ppm
Monitor 9	0.006	ppm
Monitor 10	0.000	ppm
Monitor 11	0.007	ppm
Monitor 12	0.003	ppm
Monitor 13	0.000	ppm

## **Complaints**

The Council received 2 complaints in the preceding week.

A complaint from Brambles Close, Isleworth was received on the 04<sup>th</sup> July 2018 at approx 21:50. The officer telephoned the complainant at 21:55, However, the complainant was too far from the works for it to be a valid complaint. The duty Officer advised the complainant that due to the distance the odour was not from the works but from the street gully. This was confirmed by the complainant following a short downpour of rain. A letter was sent out to the complainant on the 5<sup>th</sup> 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 28<sup>st</sup> June 2018**

**AM**

**Observations:** No odour issues on site. No spikes on trends.

**Actions:** None noted.

**PM**

**Observations:** None noted.

**Actions:** None noted.

#### **Friday 29<sup>th</sup> June 2018**

**AM**

**Observations:** No odour problems on site. Nothing of note on trends.

**Actions:** None noted.

**PM**

**Observations:** No odour issues. Nothing to report on trends.

**Actions:** None noted.

#### **Saturday 30<sup>th</sup> June 2018**

**AM**

**Observations:** No odour issues on site.

**Actions:** None noted.

**PM**

**Observations:** No odour issues on site.

**Actions:** None.

**Sunday 1<sup>st</sup> July 2018**

**AM**

**Observations:** No odour issues on site.

**Actions:** None noted.

**PM**

**Observations:** Customer complaint at 20:00 on investigation form. Odour Monitor 5 spike 0.034 at 23:11 less than 15 mins. Odour monitor 5 spiked to 0.050 at 00:26 less than 15 mins.

**Actions:** None.

**Monday 2<sup>nd</sup> July 2018**

**AM**

**Observations:** No odour spikes showing on trends odour complaint from Harvester Close. Area around E battery checked and digesters. Odour suppressant unit running on E battery Aeration Lanes.

**Actions:** None noted.

**PM**

**Observations:** Smell complaint from Prospect Drive at MN. Odour patrol of site done nothing of note found. No odour spikes on trends. No odour spikes through night.

**Actions:** None noted.

**Tuesday 03<sup>rd</sup> July 2018**

**AM**

**Observations:** No odour spikes No odour problems.

**Actions:** None noted.

**PM**

**Observations:** No odour issues on site nothing of note on trends.

**Actions:** None noted.

**Wednesday 04<sup>th</sup> July 2018**

**AM**

**Observations:** No odour spikes. No odour problems.

**Actions:** None noted.

**PM**

**Observations:** No odour problems on site nothing of note on trends.  
**Actions:** None noted.

### **Sludge Dip Records**

Date	West PSTs 1	West PSTs 2	West PSTs 3	West Total	East PSTs	Grand Total
	All units in m <sup>3</sup>					
OMP limit	500					
02/07/18	0	947	0	947	304	1251
03/07/18	0	909	183	1092	1592	2684
04/07/18	0	886	61	947	3090	4037

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 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.

Digester 5 was in use and had a good dry crusty seal.

Digester 6 was in use and had a good seal.

Digester 7 was in use and had a good dry crusty seal.

Digester 8 was in use and had a good dry crusty seal.

Digester 9 was in use and had a good dry crusty seal.

Digester 10 was in use and had weak sloppy seal, no evidence of spill.

Digester 11 was in use and had a good dry crusty seal.

Digester 12 was in use and had a weak sloppy seal, no evidence of spill.

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.

Digester 17 was in use and had a good dry crusty seal.

Digester 18 was in use had a good dry crusty seal, pellets in use.

Digester 19 was in use has a weak sloppy seal, no evidence of spill.

Digester 20 was in use and had a good dry crusty seal.

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

Automatic dosing of anti-foaming agent in 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**

East side there was one 20yds skip open bulk carrier which was empty.

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, tanker onsite at time of inspection. 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 issues surface appearance fluffy.

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 – 02/07/2018**

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	0.00(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	0.01(av)	0.6	Yes
New West OCU 11 outlet	0.08(av)	0.6	Yes

# Jerome reading



