



London Borough of Hounslow

Mogden Sewage Treatment Works

TW Site Inspection

Date of inspection: 28 th September 2017	
Attendees: Mr I Inman (L B Hounslow), Mr D Kalamantis (Thames Water), Mr J Penicud (Thames Water) & Mr B Edwards (MRAG).	
LB Hounslow Observation	Thames Water Action / Response
<p><u>Storm Water Storage Tanks (SWST)</u></p> <p>Tank 1A was full, none of the Amajets were in operation.</p> <p>Tank 1B was full, none of the Amajets were in operation.</p> <p>Tank 2A was full, none of the Amajets were in operation.</p> <p>Tank 2B was full, none of the Amajets were in operation.</p> <p>Tank 3A was full, none of the Amajets were in operation.</p> <p>Tank 3B was full, none of the Amajets were in operation.</p> <p>Tanks 4A, 4B, 5A & 5B are covered and odour controlled.</p> <p>Tank 6A was full, none of the Amajets were in operation.</p> <p>Tank 6B was full, none of the Amajets were in operation.</p> <p>Tank 7A was full, none of the Amajets were in operation.</p> <p>Tank 7B was full, none of the Amajets were in operation.</p>	

Tank 8A was full, none of the Amajets were in operation.

Tank 8B was full, none of the Amajets were in operation.

Storm Water Channel

The storm feed channel serving STW's 1A-8B was full of effluent 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 14:24).

Monitor 1	0.006	ppm
Monitor 2	0.005	ppm
Monitor 3	-0.000	ppm
Monitor 4	0.000	ppm
Monitor 5	0.000	ppm
Monitor 6	0.004	ppm
Monitor 7	0.000	ppm
Monitor 8	0.000	ppm
Monitor 9	0.005	ppm
Monitor 10	0.005	ppm
Monitor 11	0.004	ppm
Monitor 12	0.000	ppm
Monitor 13	0.005	ppm

Complaints

The Council received no complaints in the preceding week.

Odour Log (Thames) - Photocopies of log entries taken

Thursday 21st September 2017

AM No spikes on trends, nothing to report.

PM No odour issues.

Friday 22nd September 2017

AM No odour issues, nothing to report on trends.

PM OM2 spiking 0.035ppm for 12 minutes at 04:05 & 0.017ppm for 12 minutes at 00:35. Odour investigated, no source found.

Saturday 23rd September 2017

AM OM3 spiked at 09:00 to 0.017ppm (less than 15 minutes). OM3 spiked at 15:00 to 0.019ppm (less than 15 minutes).

Area round skips washed down with wash water.

PM OM2 spiked at 17:19 to 0.017ppm (less than 15 minutes), and again at 19:04 to 0.025ppm. Investigated-no source found.

Sunday 24th September 2017

AM OM2 at 16:50 peaked to 0.024ppm (less than 15 minutes).

PM OM2 spiked between 19:19-19:32 at 0.026ppm, then between 23:05-23:17, 16:49-17:02 & 17:19-18:17 at 0.019ppm.

No odour sources found, no other issues.

Monday 25th September 2017

AM OM2 at 0.016ppm between 15:50-16:02.

PM OM5 spiked to 0.021ppm between 00:46-00:52. No other issues, no odour sources found.

Tuesday 26th September 2017

AM OM1-5 no spikes. OM6-13 no spikes.

PM Nothing to report on trend.

Wednesday 27th September 2017

AM OM2 peaked to 0.019ppm between 13:51-14:04.

PM OM2 spiked to 0.021ppm at 19:50, to 0.019ppm at 20:50, to 0.031ppm at 21:20 & to 0.022ppm at 22:05.

Area round inlets checked, no obvious smells detected, washed down skip pad.	
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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					
22/09/17	0	1200	0	1200	4417	5617
25/09/17	0	2339	0	2339	5238	7577
27/09/17	0	122	0	122	5773	5895

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 70 imports of sludge over the last week, each import containing 30m³ 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 but all had a very wet seals that were bubbling off gas.

Digester 13 is currently out of use.

Digester 14 was in use and had a good dry seal.

Digester 15 was in use but had a very wet seal that was bubbling off gas.

Digester 16 is currently out of use.

Digesters 17 & 18 were in use but had very wet seals that were bubbling off gas.

Digester 19 is currently out of service.

Digester 20 was in use but had a very wet seal that was bubbling off gas.

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 still clogged along the three quarters of its length with thick dry sludge at the time of the inspection. Thames stated that this matter would be addressed.

West side primary settlement tanks (PST)

Rectangular PSTs are now covered and odour controlled.

Circular PSTs 9, 11 & 12 were all in operation at the time of the inspection and all three had clean fat free surfaces. PST 10 is currently out of service and drained down.

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 all tanks 75 & 77 were being maintained.

It was noted that the surface of tanks 71 & 77 were covered in green algae/pond weed and the sweeper bridges did not appear to be in operation.

East Side Screen House

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

Thames confirmed all screens are in operation.

Skips

On the East side there was one low level open bulk carrier on site that contained a mattress & other loose waste material. The skip was also partly filled with rain water and part covered with a loose fitting tarpaulin.

On the West side there were no skips present, only one empty bulk container.

Pasteurisation Plant

The pasteurisation plant was in service at the time of the inspection. The TW officer confirmed all 12 streams were running.

It was noted during the inspection that a very strong and offensive ammonia (H₂S) type smell was present around the area of the PAS plant and Pumping Station No:5, the doors of which were open.

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 (E Battery) was clogged along more than three quarters of its length with the same rag and floating debris seen during previous inspection. However, a four man tanker crew were clearing the channel at the time of the inspection.

It was also noted that again a strong ammonia (H₂S) type smell was present in the area (Thames advised this is potentially coming from PSTs 21-25 and is currently being investigated).

The surface of the aeration are much improved and are now free flowing again.

New Inlet Works (West Side)

No issues appeared evident at the new inlet works.

Odour Control Unit (OCU) performance monitoring – 04/09/2017

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	0.000(av)	0.5	Yes

(OCU 12)				
Transfer PS outlet	0.000(av)	0.6	Yes	
New West OCU 11 outlet	0.000(av)	0.6	Yes	
# Jerome reading				