



London Borough of Hounslow

Mogden Sewage Treatment Works

TW Site Inspection

| Date of inspection: 16 th February 2017 | |
|--|---------------------------------------|
| Attendees: Mr A Devine, Mr D Kalamantis (Thames Water) | |
| LB Hounslow Observation | Thames Water Action / Response |
| <p><u>Storm Water Storage Tanks (SWST)</u></p> <p>Tank 1A was empty, drained down and clean. Hoppers 1, 2 and 3 all required over pumping.</p> <p>Tank 1B was empty, drained down and clean. All hoppers were empty.</p> <p>Tank 2A was empty, drained down and clean. Hopper 1 required over pumping.</p> <p>Tank 2B was empty, drained down and clean. Hoppers 1, 2 and 3 all required over pumping.</p> <p>Tank 3A was empty, drained down and clean. All the hoppers were drained down.</p> <p>Tank 3B was empty, drained down and clean. Hoppers 1 and 3 required over pumping.</p> <p>Tanks 4A, 4B, 5A & 5B are covered and odour controlled.</p> <p>Tanks 6A & 6B were empty, drained down and clean. In both tanks all hoppers require further over pumping.</p> <p>Tank 7A and 7B were empty, drained down; however there was sludge in tank 7A. Hoppers 1, 2 and 3 in tank 7B required further over</p> | |

pumping.
Tank 8A and 8B were empty, drained down; however there was some sludge in both tanks. Hoppers 1, 2 and 3 in both tanks required over pumping.

Storm Water Channel

The level of effluent in storm feed channels serving STW's 1A-8B was very low. The sludge in these channels was very dark.

Odour Monitors

The odour readouts (H₂S) for all of the monitors, which were providing data at the time of inspection (approx. 13:43).

| | | |
|------------|-------|-----|
| Monitor 1 | 0.006 | ppm |
| Monitor 2 | 0.004 | ppm |
| Monitor 3 | 0.000 | ppm |
| Monitor 4 | 0.005 | ppm |
| Monitor 5 | 0.004 | ppm |
| Monitor 6 | 0.003 | ppm |
| Monitor 7 | 0.004 | ppm |
| Monitor 8 | 0.007 | ppm |
| Monitor 9 | 0.005 | ppm |
| Monitor 10 | 0.008 | ppm |
| Monitor 11 | 0.005 | ppm |
| Monitor 12 | 0.006 | ppm |
| Monitor 13 | 0.007 | ppm |

Complaints

The Council received no complaints via telephone or e-mail in the previous 7 days.

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

Thursday 09th February 2017

AM – No odour issues on site. Trends show no spikes.

PM– No spikes.

Friday 10th February 2017

AM – No odour spikes.

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

Saturday 11th February 2017

AM – No odour issues on site. No odour spikes on trends.

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

Sunday 12th February 2017

AM – No odour issues on site. No spikes on trends.

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

Monday 13th February 2017

AM – Odour monitor 8 showing 0.017ppm between 16:55pm to 17:09pm. Area checked and no odours found.

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

Tuesday 14th February 2017

AM – No odour problems.

PM – No odour issues on site. No spikes on trends.

Wednesday 15th February 2017

AM – No odour problems.

PM – No odour issues on site.

Sludge Dip Records

| Date | West PSTs | West PSTs | West PSTs | West Total | East PSTs | Grand Total |
|------------|-----------------------------------|-----------|-----------|------------|-----------|-------------|
| | 1 | 2 | 3 | | | |
| | All units in m³ | | | | | |
| OMP limit | 500 | | | | | |
| 10/02/2017 | 0 | 2550 | 1073 | 3623 | 12970 | 16593 |
| 13/02/2017 | 0 | 1260 | 61 | 1321 | 10615 | 11936 |
| 15/02/2017 | 0 | 1793 | 0 | 1793 | 11997 | 13790 |

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 6 imports each of 30m³ of sludge between 9th February to 15th February.

Digesters

Digesters 1-4 are permanently out of use.

Digester 13, 16 and 19 were out of use.

All of the other digesters which were in use had weak seals with the exception of digesters 9 and 10 which had good seals. A spill was noted at digester 7 and at the time of the inspection this digester was gassing off. Thames Water advised that this would be dealt with today.

Automatic dosing of anti-foaming agent is now in use and TW advised that this is also applied manually as required to all operational digesters.

Return Activated Sludge Channel

The RAS channel (which runs in the ground between FST's 61-64 & 65-67) was generally free flowing however sludge build up was noted at the start of the channel.

West side primary settlement tanks (PST)

Rectangular PSTs are now covered and odour controlled.

Circular PSTs 9, 10, 11 & 12 were all in operation with no reported problems and hat '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 tanks (71-78).

At the time of the inspection all tanks were in operation with the exception of tanks 71 and 78.

East Side Screen House

The screen house doors were all closed.

Skips

East side

1 16yd skip - covered.

West side

There were three skips – 2 6yd empty uncovered and 1 bulk container.

Pasteurisation Plant

The pasteurisation plant was in service at the time of the inspection with no reported problems.

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 feed channel to Aeration Lanes 21-25 (E-Battery) was filled with rag and surface scum. The surface of the tanks was filled with a dense layer of scum.

Thames confirmed tanker crews are cleaning the mixed feed liquor channel out on a weekly basis. A tanker was on site during the inspection cleaning out the feed channel.

New Inlet Works (West Side)

There were no reported issues on this part of the site.

Odour Control Unit (OCU) performance monitoring – 16/02/2016

| Plant | Reading (ppm) | Action Level (ppm) | Compliant |
|--------------------------------------|----------------------|---------------------------|------------------|
| Main pumping station outlet | 0.0167(av) | 0.2 | Yes |
| East OCU | 0.004(av) | 0.05 | Yes |
| West inlet | 0.000(av) | 0.05 | Yes |
| Sludge reception outlet | 0.000(av) | 0.8 | Yes |
| Thickening plant outlet | 0.004(av) | 0.6 | Yes |
| Pasteurisation plant outlet (OCU 12) | 0.0001(av) | 0.5 | Yes |
| Transfer PS outlet | 0.000(av) | 0.6 | Yes |
| New West OCU 11 outlet | 0.000(av) | 0.6 | Yes |