



Mogden Sewage Treatment Works

TW Site Inspection

Date of inspection: 13 th February 2020	
Attendees: Mr Phillips and Miss Charlotte Page (Thames Water)	
LB Hounslow Observation	Thames Water Action / Response
<p><u>Storm Water Storage Tanks (SWST)</u></p> <p>Tank 1A – Was in use completely full. All amajets were in operation.</p> <p>Tank 1B – Was in use completely full. All amajets were in operation.</p> <p>Tank 2A – Was in use completely full. All amajets were in operation.</p> <p>Tank 2B – Was in use completely full. All amajets were in operation.</p> <p>Tank 3A – Was in use completely full. All amajets were in operation.</p> <p>Tank 3B – Was in use completely full. All amajets were in operation.</p> <p>Tanks 4A, 4B, 5A & 5B which are covered and odour controlled were all empty - unable to gauge condition as lighting system still not working.</p> <p>Tank 6A – Was in use completely full. All amajets were in operation.</p> <p>Tank 6B – Was in use completely full. All amajets were in operation.</p>	

Tank 7A – Was in use completely full. All amajets were in operation.

Tank 7B – Was in use completely full. All amajets were in operation.

Tank 8A – Was in use completely full. All amajets were in operation.

Tank 8B – Was in use completely full. All amajets were in operation.

Feed Channel - The level of effluent in both feed channels was approximately 50% - no local odours.

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 Monitors

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

Monitor 1	0.010	ppm	12:32
Monitor 2	0.008	ppm	12:32
Monitor 3	0.000	ppm	12:32
Monitor 4	0.004	ppm	12:32
Monitor 5	0.007	ppm	12:32
Monitor 6	0.006	ppm	12:32

Monitor 7	0.006	ppm	12:32
Monitor 8	0.007	ppm	12:32
Monitor 9	0.009	ppm	12:32
Monitor 10	0.009	ppm	12:33
Monitor 11	0.005	ppm	12:33
Monitor 12	0.007	ppm	12:33
Monitor 13	0.006	ppm	12:33
Wind Speed	0.325	mph	1
Wind Direction	233	deg	14:05

Odour Log (Thames):

Thursday 6th February 2020:

AM

Temp: Cool.

Weather: Cloudy W/ Sunny spells.

All OMU's in use.

Time: 17:30.

Observations/Complaints: OM2 0.105ppm 11:07 11:34; OM10 0.018ppm 12:39 – 12:54.

Operational Issues/Causes: Area checked no odour detected. Confirmed doors/ hatches are closed in screen house.

Actions: None noted.

PM

Temp: Freezing.

Weather: Clear night.

All OMU's in use.

Time: 05:30.

Observations/Complaints: OM9 0.02 at 22:36 23:35.

Operational Issues/Causes: Area checked no source discovered.

Actions: None noted.

Friday 7th January 2020:

AM

Temp: Cold.

Weather: Cloudy W/ Sunny spells.

All OMU's in use.

Time: 17:30.

Observations/Complaints: "No odour issues."

Operational Issues/Causes: None noted.

Actions: None noted.

PM

Temp: Cool.

Weather: Overcast Night.

All OMU's in use.

Time: 05:30.

Observations/Complaints: "No odour issues."

Operational Issues/Causes: None noted.

Actions: None noted.

Saturday 8th February 2020:

AM

Temp: Cool.

Weather: Sunny W/ patch clouds.

All OMU's in use.

Time: 17:30.

Observations/Complaints: "OM5 0.019PPM 07:52 – 08:07; OM2 0.039PPM 10:38 – 11:01.

Operational Issues/Causes: Area checked no odour detected.

Actions: None noted.

PM

Temp: Cool.

Weather: Cloudy.

All OMU's in use.

Time: 05:30.

Observations/Complaints: No odour issues.

Operational Issues/Causes: "No odour identified.

Actions: None noted.

Sunday 9th February 2020:

AM

Temp: Cool.

Weather: Storms.

All OMU's in use.

Time: 17:30.

Observations/Complaints: "OM2 0.026ppm 08:54 – 09:14.

Operational Issues/Causes: No odour identified.

Actions: None noted.

PM

Temp: Cool.

Weather: Storms.

All OMU's in use.

Time: 05:30.

Observations/Complaints: No odour issues.

Operational Issues/Causes: None noted.

Actions: None noted.

Monday 10th February 2020:

AM

Temp: Cold.

Weather: Sunny W/ patch Clouds.

All OMU's in use.

Time: 17:30.

Observations/Complaints: No odour issues.

Operational Issues/Causes: None noted.

Actions: None noted.

PM

Temp: Cool.

Weather: Overcast Night.

All OMU's in use.

Time: 05:20.

Observations/Complaints: No odour issues.

Operational Issues/Causes: None Noted.

Actions: None noted.

Tuesday 11th February 2020:

AM

Temp: Cold.

Weather: Sunny W/ Patch Clouds.

All OMU's in use.

Time: 17:30.

Observations/Complaints: OM2 0.013 at 16:42 – 17:16.

Operational Issues/Causes: No odour identified.

Actions: None noted.

PM

Temp: Cold.

Weather: Clear Night.

All OMU's in use.

Time: 05:30.

Observations/Complaints: OM6 0.018ppm 22:37 – 23:37.

Operational Issues/Causes: Occasional odour detected from PAS area no spills identified and no streams venting from.

Actions: None noted.

Wednesday 12th February 2020:

AM

Temp: Cold

Weather – Sunny.

All OMU's in use.

Time: 17:20.

Observations/Complaints: No odour issues

Operational Issues/Causes: None noted.

Actions: None noted.

PM

Temp: Cool.

Weather: Rain.

All OMU's in use.

Time: 05:30

Observations/Complaints: OM2 0.104ppm 19:28- 20:04.

Operational Issues/Causes: No odour identified.

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 ³					
OMP limit	500					
07/02/2020	20	473	534	1027	3041	4068
10/02/2020	20	267	412	699	4562	5261
12/02/2020	0	516	661	1177	3054	4231

The sludge stock levels for the West side circular primary settlement tank 1 were **compliant** with the OMP trigger level (500m³) for all of the dates for which data has been provided.

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.

Digesters

Digesters 1-4 – Out of use (permanent) – noticeable quantity of water accumulated to the brim of these tanks which is thick with algae – requires draining. Long term project currently initiated to bring these units back into service – will require significant investment.

Digester 5 - In use - weak seal no evidence of spill.

Digester 6 - In use - weak seal no evidence of spill.

Digester 7 - Out of use - empty and clean - contractor on site undertaking maintenance

Digester 8 - In use - weak seal no evidence of spill.

Digester 9 - In use - weak seal no evidence of spill.

Digester 10 - In use - weak seal no evidence of spill.

Digester 11 - In use - weak seal no evidence of spill.

Digester 12 - In use - weak seal no evidence of spill.

Digester 13 - In use - weak seal no evidence of spill.

Digester 14 - Out of use - empty and clean - contractor on site undertaking maintenance.

Digester 15 - Out of use - empty and clean - contractor on site undertaking maintenance.

Digester 16 - In use - weak seal no evidence of spill. Gassing slightly.

Digester 17 - In use - weak seal no evidence of spill.

Digester 18 - Out of use - empty and clean - contractor on site undertaking maintenance

Digester 19 - In use - weak seal no evidence of spill.

Digester 20 - In use - weak seal no evidence of spill.

GENERAL

Sludge Screening House

All doors closed at time of inspection.

Imported Sludge

Approx. 10 imports daily for preceding seven days.

Final Settlement Tanks East Side of Works

The 8 circular tanks previously used as PSTs are now being used as final tanks (71-78).

Skips

1x 16 yard partially filled small grit skips by Sludge Screening House.

1x enclosed container skips containing rag awaiting collection by West Side PST's.

Pasteurisation Plant

Pasteurisation plant 9 streams running.

East Side Raw Sludge Screen House

Doors closed at time of inspection.

West Side Aeration Lanes (Old)

Clear no issues to report.

West side primary settlement tanks (PST)

Rectangular PSTs – no issues

Circular PST's 10, 11 & 12 in use. Tank 9 currently being brought back into service.

New Works (West Side)

Feed Channel for Aeration Lanes 21-24 approximately clear throughout.

“Fluffy” coverage across surface has again begun to build up, also significant quantity of material bypassing screener.

Odour Control Unit (OCU) performance monitoring – (13/02/20)

Plant	Reading (ppm)	Action Level (ppm)	Compliant
Main pumping station inlet	0.00 0.00 0.00	Unknown	Unknown
Main pumping station outlet	0.000 0.000 0.000 (converted from ppb figures provided)	0.2	Yes
East OCU	0.00 0.00 0.00	0.05	Yes
West inlet OCU	0.00 0.00 0.00	0.05	Yes
Sludge reception inlet	0.00 0.00 0.00	Unknown	Unknown
Sludge reception outlet	0.00 0.00 0.00	0.8	Yes
Thickening plant inlet	No data	Unknown	Unknown

Thickening plant outlet	0.212 0.269 0.257 0.246 (converted from ppb figures provided)	0.6	Yes	
Transfer PS inlet	0.00 0.00 0.00	Unknown	Unknown	
Transfer PS outlet	0.00 0.00 0.00	0.5	Yes	
New West inlet (OCU 11)	0.00 0.00 0.00	0.5	Yes	
Pasteurisation Plant (OCU 12)	0.00 0.00 0.00	0.5	Yes	