



London Borough of Hounslow

Mogden Sewage Treatment Works

TW Site Inspection

Date of inspection: 25 th of May 2021	
Attendees: Mr L Phillips and Mr Tom Costin (Thames Water)	
LB Hounslow Observation	Thames Water Action / Response
<p><u>Storm Water Storage Tanks (SWST)</u></p> <p>Tank 1A – Tank full Amajets working.</p> <p>Tank 1B – Tank full Amajets working.</p> <p>Tank 2A – Tank full Amajets working.</p> <p>Tank 2B – Tank full Amajets working.</p> <p>Tank 3A – Tank full Amajets working.</p> <p>Tank 3B – Tank full Amajets working.</p> <p>Tanks 4A, 4B, 5A & 5B which are covered and odour controlled were all in use - unable to gauge condition as lighting system still not working.</p> <p>Tank 6A – Tank full Amajets working.</p> <p>Tank 6B – Tank full Amajets working.</p>	

Tank 7A – Tank full Amajets working.

Tank 7B – Tank full Amajets working.

Tank 8A – Tank full Amajets working.

Tank 8B – Tank full Amajets working.

Feed Channel - The level of effluent in both feed channels was approximately 20% capacity - 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 monitors which were providing data at time of inspection: 25/05/2021

Monitor 1	0.003	ppm	13:31
Monitor 2	0.000	ppm	13:31
Monitor 3	0.000	ppm	13:31
Monitor 4	0.000	ppm	13:31
Monitor 5	0.004	ppm	13:31

Monitor 6	0.000	ppm	13:31
Monitor 7	0.004	ppm	13:31
Monitor 8	0.000	ppm	13:31
Monitor 9	0.003	ppm	13:31
Monitor 10	0.000	ppm	13:31
Monitor 11	0.003	ppm	13:31
Monitor 12	0.004	ppm	13:31
Monitor 13	0.003	ppm	13:31
Wind Speed	5.8	mph	13:31
Wind Direction	84°		13:31

Odour Log (Thames):

Wednesday 19th May 2021:

DAY SHIFT

Temp: Warm.

Weather: Sunny W/ Patch clouds.

All OMU's in use.

Time: 17:30:

Observations / Customer Complaint: No odour issues.

Operational issues / causes observed: Blank.

NIGHT SHIFT:

Temp: Cool.

Weather: Clear night.

All OMU's in use.

Time: 05:30.

Observations / Customer Complaint: No odour issues.

Operational issues / causes observed: Blank.

Thursday 20th May 2021:

DAY SHIFT

Temp: Cool.

Weather: Cloudy W/ Sunny spells.

All OMU's in use.

Time: 17:30:

Observations / Customer Complaint: No odour issues found.

Operational issues / causes observed: Sludge spill around PAS holding tanks requires cleaning up before it becomes an odour issue.

NIGHT SHIFT:

Temp: Cool.

Weather: Overcast night.

All OMU's in use.

Time: 05:30.

Observations / Customer Complaint: No odour issues.

Operational issues / causes observed: Blank.

Friday 21st May 2021:

DAY SHIFT

Temp: Cool.

Weather: Rain/W sunny spells.

All OMU's in use.

Time: 17:30:

Observations / Customer Complaint: No odour issues found or reported.

Operational issues / causes observed: OM2 back in service form 1050hrs.

NIGHT SHIFT:

Temp: Cool.

Weather: Overcast night.

All OMU's in use.

Time: 05:30.

Observations / Customer Complaint: No odour issues.

Operational issues / causes observed: Blank

Saturday 22nd May 2021:

DAY SHIFT

Temp: Warm.

Weather: Rain/W sunny spells.

All OMU's in use.

Time: 17:30:

Observations / Customer Complaint: No odour issues found or

reported.

Operational issues / causes observed: Blank.

NIGHT SHIFT:

Temp: Cool.

Weather: Overcast night.

All OMU's in use.

Time: 05:30.

Observations / Customer Complaint: No odour issues.

Operational issues / causes observed: Blank.

Sunday 23rd May 2021:

DAY SHIFT

Temp: Cool.

Weather: Rain/W sunny spells.

All OMU's in use.

Time: 17:30:

Observations / Customer Complaint: No odour issues found or reported.

Operational issues / causes observed: Blank.

NIGHT SHIFT:

Temp: Cool.

Weather: Rain.

All OMU's in use.

Time: 05:30.

Observations / Customer Complaint: No odour issues.

Operational issues / causes observed: Blank.

Monday 24th May 2021:

DAY SHIFT

Temp: Warm.

Weather: Rain/W sunny spells.

All OMU's in use.

Time: 17:30:

Observations / Customer Complaint: No odour issues.

Operational issues / causes observed: Blank.

NIGHT SHIFT:

Temp: Cool.
Weather: Rain.
All OMU's in use.
Time: 05:30.
Observations / Customer Complaint: No odour issues.
Operational issues / causes observed: Blank.

Tuesday 25th May 2021:

DAY SHIFT

Temp: Cool.
Weather: Cloudy W/ Sunny spells.
All OMU's in use.
Time: 17:30:
Observations / Customer Complaint: No odour issues found.
Operational issues / causes observed: Blank.

NIGHT SHIFT:

Temp: Cool.
Weather: Overcast night.
All OMU's in use.
Time: 05:30.
Observations / Customer Complaint: No odour issues found or reported.
Operational issues / causes observed: Blank.

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					
19/05/21	0	1007	2156	3163	1720	4883
21/05/21	0	1007	1594	2601	2594	5195
24/05/21	0	946	1304	2250	2418	4668

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).

Thames advised of a long term project currently initiated to bring these units back into service that will require significant investment.

Digester 5 was out of service.

Digester 6 was in service had a weak seal. No evidence of spill.

Digester 7 was in service had a weak seal. No evidence of spill.

Digester 8 was in service had a weak seal. No evidence of spill.

Digester 9 was in service had good thick seal. No evidence of spill.

Digester 10 was in service had a weak seal. No evidence of spill.

Digester 11 was in service had a weak seal. No evidence of spill.

Digester 12 was in service had a weak seal. No evidence of spill.

Digester 13 was in service had a weak seal. No evidence of spill.

Digester 14 was in service had a weak seal. No evidence of spill.

Digester 15 was out of service.

Digester 16 was in service had a weak seal. No evidence of spill.

Digester 17 was in service had a weak seal. No evidence of spill.

Digester 18 was out of service.

Digester 19 was out of service.

Digester 20 was in service had a weak seal. No evidence of spill.

GENERAL

Sludge Screening House

All doors closed at the time of inspection.

Imported Sludge

No 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 16yard grit/rag skip (full) - covered with tarpaulin & 1x 8 yard general waste in Service Road at rear of Sludge Screen House.

East Side Raw Sludge Screen House

Doors closed at time of inspection.

West Side Aeration Lanes (Old)

Battery C aeration feed channel 100% obstructed in one channel (left) – requires jetting (TW advise that there is continuing flow below surface).

West side primary settlement tanks (PST)

Rectangular PSTs – no issues

Circular PST's 9, 10 & 11 in use, PST 12 drained down and out of use.

Pasteurisation Plant

Six streams running.

New Works (West Side)

Feed Channel for Aeration Lanes 90% obstructed – requires jetting.
Large thick crust evident across majority of tank.

Odour Control Unit (OCU) performance monitoring – 25/05/21

Plant	Reading (ppm)	Action Level (ppm)	Compliant
Main pumping station inlet	No data	Unknown	Unknown
Main pumping station outlet	0.00 0.00 0.00	0.2	Yes
East OCU	23.33 24.28 21.06	0.05	No
West inlet OCU	0.00 0.00 0.00	0.05	Yes
Sludge reception inlet	No data	Unknown	Unknown
Sludge reception outlet	No data	0.8	Unknown
Thickening plant inlet	No data	Unknown	Unknown
Thickening plant outlet	0.016 0.014 0.013	0.6	No
Transfer PS inlet	0.010 0.021 0.098	Unknown	Unknown
Transfer PS outlet	0.00 0.00 0.00	0.5	Yes
New West inlet (OCU11)	0.00 0.00 0.00	0.5	Yes

Pasteurisation Plant (OCU12)	0.101 0.083 0.072	0.5	Yes
GBT Plant OCU Outlet	0.00 0.00 0.00	Unknown	Unknown