



London Borough of Hounslow

Mogden Sewage Treatment Works

TW Site Inspection

Date of inspection: 10th January 2023

Attendees: Mr L Phillips (London Borough of Hounslow) and Ms Emma McDonald (Thames Water)

LB Hounslow Observation

Thames Water Action / Response

Storm Water Storage Tanks (SWST)

Tank 1A – Tank full Amajets not in operation.

Tank 1B – Tank full Amajets not in operation.

Tank 2A – Tank full Amajets not in operation.

Tank 2B – Tank full Amajets not in operation.

Tank 3A – Tank full Amajets not in operation.

Tank 3B – Tank full Amajets not in operation.

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.

Tank 6A Tank full Amajets not in operation.

Tank 6B – Tank full Amajets not in operation.

Tank 7A – Tank full al Amajets in operation.

Tank 7B – Tank in use. No Amajets in operation.

Tank 8A – Tank in use. Two Amajets in operation.

Tank 8B – Tank full Amajets not in operation.

Feed Channel - The level of effluent in both feed channels was approximately 40% capacity.

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					
04/01/2023	0	1297	122	1419	784	2203
09/01/2023	0	1383	975	2358	1416	3774

Complaints

The Council received no complaints by email from MRAG in the preceding week.

Thames Water controller advised that they had received no direct complaints in the preceding week.

The Council directly received no complaints by email in the preceding week.

The Council received no calls to the out of hours service.

Odour Monitors

The odour readouts (H₂S) for all monitors that were providing data on 10/01/2023 at the time of the inspection are below.

Monitor 1	0.005	ppm	14:30
Monitor 2	0.001	ppm	14:31
Monitor 3	0.004	ppm	14:31
Monitor 4	0.004	ppm	14:31
Monitor 5	0.000	ppm	14:31
Monitor 6	0.006	ppm	14:31
Monitor 7	0.004	ppm	14:31
Monitor 8	0.005	ppm	14:31
Monitor 9	0.004	ppm	14:31
Monitor 10	0.005	ppm	14:31
Monitor 11	0.005	ppm	14:31
Monitor 12	0.005	ppm	14:31
Monitor 13	0.000	ppm	14:31
Wind Speed	8.297	mph	14:31
Wind Direction	226.543		14:31

Odour Log (Thames):

Wednesday 4th January 2023

DAY SHIFT

Temp. Cool.

Weather. Cloudy W/ Sunny spells.

Odour Readings. All OMU's in operation.

Time: 17:30.

Observations / Customer Complaint.

No odour issues.

Operational issues / causes observed. Blank.

Actions Taken. Blank.

NIGHT SHIFT

Temp. Cool.

Weather. Overcast night.

Odour Readings. All OMU's in operation.

Time: 05:30.

Observations / Customer Complaint.

No odour issues found or reported.

Operational issues / causes observed. Blank.

Actions Taken. Blank.

Thursday 5th January 2023

DAY SHIFT

Temp. Cold.

Weather. Cloudy W/Sunny spells.

Odour Readings. All OMU's in operation.

Time: 17:30.

Observations / Customer Complaint.

No odour issues found or reported.

Operational issues / causes observed. Blank.

Actions Taken. Blank.

NIGHT SHIFT

Temp. Cool.

Weather. Patchy rain.

Odour Readings. All OMU's in operation.

Time: 05:30.

Observations / Customer Complaint.

No odour issues found or reported.

Operational issues / causes observed. Blank

Actions Taken. Blank.

Friday 6th January 2023

DAY SHIFT

Temp. Cool.

Weather. Patchy rain.

Odour Readings. All OMU's in operation.

Time: 17:30.

Observations / Customer Complaint.

No odour issues found or reported.

Operational issues / causes observed. Blank.

Actions taken. Blank.

NIGHT SHIFT

Temp. Cool.

Weather. Patchy rain.

Odour Readings. All OMU's in operation.

Time: 05:30.

Observations / Customer Complaint.

No odour issues found or reported.

Operational issues / causes observed. Blank.

Actions taken. Blank.

Saturday 7th January 2023

DAY SHIFT

Temp. Cool.

Weather. Rain.

Odour Readings. All OMU's in operation.

Time: 17:30.

Observations / Customer Complaint.

No odour issues found or reported.

Operational issues / causes observed. Blank.

Actions taken. Blank.

NIGHT SHIFT

Temp. Cold.

Weather. Patchy rain.

Odour Readings. All OMU's in operation.

Time: 05:30.

Observations / Customer Complaint.

No odour issues.

Operational issues / causes observed. Blank.

Actions taken. Blank.

Sunday 8th January 2023

DAY SHIFT

Temp. Cool.

Weather. Rain.

Odour Readings. All OMU's in operation.

Time: 17:30.

Observations / Customer Complaint.

No odour issues found or reported.

Operational issues / causes observed. Blank.

Actions taken. Blank.

NIGHT SHIFT

Temp. Cool.

Weather. Rain.

Odour Readings. All OMU's in operation.

Time: 05:30.

Observations / Customer Complaint.

No odour issues.

Operational issues / causes observed. Blank

Actions Taken. Blank.

Monday 9th January 2023

DAY SHIFT

Temp. Cool.

Weather. Cloudy.

Odour Readings. All OMU's in operation.

Time: 17:30.

Observations / Customer Complaint.

No odour issues.

Operational issues / causes observed. Blank.

Actions taken. Blank.

NIGHT SHIFT

Temp. Cold.

Weather. Clear night.

Odour Readings. All OMU's in operation.

Time: 05:30.

Observations / Customer Complaint.

No odour issues.

Operational issues / causes observed. Blank.

Actions Taken. Blank.

Tuesday 10th January 2023

DAY SHIFT

Temp. Cool.

Weather. Rain.

Odour Readings. All OMU's in operation.

Time: 17:30.

Observations / Customer Complaint.

No odour issues.

Operational issues / causes observed. Blank.

Actions taken. Blank.

NIGHT SHIFT

Temp. Cool.

Weather. Rain.

Odour Readings. All OMU's in operation.

Time: 05:30.

Observations / Customer Complaint.

No odour issues found or reported.

Operational issues / causes observed. Blank.

Actions Taken. Blank.

Digesters

Digesters 1-4 – Out of use (permanent).

Digester 5 – In use – Weak seal no evidence of spill.

Digester 6 - In use – Weak seal no evidence of spill.

Digester 7 - In use – Weak seal no evidence of spill.

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.

Digester 15 – Out of use.

Digester 16 – Out of use.

Digester 17 - In use – Weak seal no evidence of spill.

Digester 18- In use – Weak seal no evidence of spill.

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 open at time of inspection. Roller shutter currently missing and awaiting replacement following damage – opening has been screened temporarily.

Imported Sludge

There were 57m² imports in 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) – no issues.

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 – no issues. Number 12 drained down.

New Works (West Side) Battery E

No issues.

Pasteurisation Plant

Streams 1, 2, 6, 10 and 11 out of service.

Skips

1x open container grit skip (full) uncovered and 1x 10-Yard Rag skip (covered) at rear of Sludge Screening House.

1x open 8-Yard skip (scrap metal) in Service Road by Pasteurisation Plant.

1x 10-Yard enclosed General Waste skip in Service Road at rear of East Raw Sludge Screening House.

Odour Control Unit (OCU) performance monitoring: 10/01/2023

Plant	Reading (ppm)	Action Level (ppm)	Compliant
Main pumping station inlet	Not provided	Unknown	Unknown
Main pumping station outlet	0.00 0.00 0.00	0.2	Unknown
East OCU	0.021 0.019 0.017	0.05	Yes
West inlet	0.00 0.00 0.00	0.05	Yes
Sludge reception inlet	Not provided	Unknown	Unknown
Sludge reception outlet	Not provided	0.8	Unknown
Thickening plant inlet	Not provided	Unknown	Unknown
Thickening plant outlet	0.026 0.023 0.021	0.6	Yes
New West inlet (OCU 11)	0.023 0.019 0.018	0.5	No
Pasteurization (OCU 12)	1.738 1.727 1.724	0.5	Yes
Transfer PS inlet	0.403 0.399 0.395	Unknown	Unknown
Transfer PS outlet	0.013 0.011 0.009	0.6	Yes
GBT Plant OCU Outlet	0.00 0.00 0.00	Unknown	Unknown

