

Mogden Sewage Treatment Works

TW Site Inspection

Date of inspection: 18th August 2021			
Attendees: Mr Steven Maunders and Mr Dan Grady (Thames Water)			
LB Hounslow Observation	Thames Water Action / Response		
Storm Water Storage Tanks (SWST)			
Tank 1A – Tank empty and flushed clean – Hopper 1 approx. 25% full, Hoppers 2 & 3 empty – requires draining/over-pumping.			
Tank 1B – Tank empty – approximately 40% of tank covered by grit and sludge – requires further flushing – Hopper 1 approx. 40% full, Hoppers 2 & 3 approx. 10% full – requires draining/over-pumping.			
Tank 2A – Tank in use – 1x Amajet working - requires draining/over- pumping.			
Tank 2B – Tank in use – 1x Amajet working - requires draining/over- pumping.			
Tank 3A – Tank empty – 100% of tank covered by grit and sludge – requires further flushing – All Hoppers approx. 50% full – requires draining/over-pumping.			
Tank 3B – Tank empty – approximately 60% of tank covered by grit and sludge – requires further flushing – All Hoppers full – requires draining/over-pumping.			

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 empty – approximately 25% of tank covered by grit and sludge – requires further flushing – Hoppers 1, 2 & 3 approx. 75% full.	
Tank 6B – Tank empty – approximately 20% of tank covered by grit and sludge – requires further flushing – Hopper 1 full, Hoppers 2 & 3 approx. 20% full.	
Tank 7A – Tank backfilling due to faulty return valve – approx. 70% of surface covered in effluent.	
Tank 7B – Tank empty – 100% of tank covered by grit and sludge – requires further flushing – All Hoppers full.	
Tank 8A – Tank empty – backfilling due to faulty return valve – approx. 15% of surface covered in effluent.	
Tank 8B – Tank empty – approximately 75% of tank covered by grit and sludge – requires further flushing – All Hoppers full.	
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 one complaint by email in the preceding week – $14/08/21$ (13:19) from area of Weavers Close – historic trace data checked for OMU's in vicinity of Weavers Close: OMU $1/3/4/5 = .000$ and OMU $2 = .001$ ppm. TW Odour Log	

details complaint – no spikes or ab				site and Trends
The Council received no complaints by email from MRAG.				
Thames Water co complaints in the			t they had re	ceived no direct
Odour Monitors				
The odour readout time of inspection:	s (H ₂ S) for	all monito	rs which were	providing data at
Monitor 1	000	ppm	13:36	
Monitor 2	001	ppm	13:36	
Monitor 3	000	ppm	13:36	
Monitor 4	000	ppm	13:36	
Monitor 5	000	ppm	13:36	
Monitor 6	000	ppm	13:36	
Monitor 7	000	ppm	13:36	
Monitor 8	000	ppm	13:36	
Monitor 9	000	ppm	13:36	
Monitor 10	000	ppm	13:36	
Monitor 11	000	ppm	13:36	
Monitor 12	000	ppm	13:36	
Monitor 13	000	ppm	13:36	
Wind Speed	10.9	mph	13:36	
Wind Direction	254°	•	13:36	
Odour Log (Than	nes):			
Wednesday 11 th A	August 202	21:		
AM - Warm - Clou	udy with Su	inny Spells		
All OMU's in use.	,	, ,		
Observations/Cor	nplaints: "	'No odour i	ssues."	

Operational Issues/Causes: No data. Actions: No data. PM – Cool – Clear Night. All OMU's in use. Observations/Complaints: "No odour issues." Operational Issues/Causes: No data. Actions: No data.

Thursday 12th August 2021:AM - Cool - Cloudy.All OMU's in use.Observations/Complaints: "No odour issues found or reported."Operational Issues/Causes: No data.Actions: No data.PM - Cool - Clear Night.All OMU's in use.Observations/Complaints: "No odour issues."Operational Issues/Causes: No data.Actions: No data.PM - Cool - Clear Night.All OMU's in use.Observations/Complaints: "No odour issues."Operational Issues/Causes: No data.Actions: No data.

Friday 13th August 2021: AM – Cool – Cloudy with Sunny Spells. All OMU's in use. Observations/Complaints: "No odour issues found or reported." Operational Issues/Causes: No data. Actions: No data. PM – Cool – Overcast Night. All OMU's in use. Observations/Complaints: "No odours issues." Operational Issues/Causes: No data. Actions: No data.

Saturday 14th August 2021: AM – Warm – Sunny with Patchy Clouds. All OMU's in use. Observations/Complaints: "Customer complaint received via WOCC from Mr Taylor."

 Operational Issues/Causes: No data. Actions: "Checked around site and Trends – No spikes or abnormal sources of odour found." PM – Warm – Clear Night. All OMU's in use. Observations/Complaints: "No odour issues." Operational Issues/Causes: No data. Actions: No data. 	
Sunday 15 th August 2021: AM – Cloudy with Sunny Spells. All OMU's in use. Observations/Complaints: "No odour issues." Operational Issues/Causes: No data. Actions: No data. PM – Warm – Clear Night. All OMU's in use. Observations/Complaints: "No odour issues." Operational Issues/Causes: No data. Actions: No data.	
Monday 16 th August 2021: AM – Warm – Cloudy with Sunny Spells. All OMU's in use. Observations/Complaints: "No odour issues." Operational Issues/Causes: No data. Actions: No data. PM – Warm – Clear Night. All OMU's in use. Observations/Complaints: "Storm Tanks have several Amajets faulty." Operational Issues/Causes: No data. Actions: No data.	
<u>Tuesday 17th August 2021:</u> AM – Warm – Sunny with Patchy Clouds. All OMU's in use.	

Date	West PSTs 1	West PSTs 2	West PSTs 3	West Total	East PSTs	Grand Total
			All units	s in m ³		
OMP limit	500					
11/08/21	0	1279	1030 (Data missing from copy supplie d).	2309	1240	3549
13/08/21	0	1424	885 (Data missing from copy supplie d).	2309	912	3221
16/08/21	0	1279	1030	2309	1088	3397

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 –

Digester 17 - In use – seal level approx. 4ft below coping stones – good seal.	
Digester 18 – Out of use.	
Digester 19 – Out of use.	
Digester 20 - In use – seal level approx. 3ft below coping stones – seal weak and bubbling.	
GENERAL	
Sludge Screening House	
All doors closed at the time of inspection.	
Imported Sludge	
Average of fifteen 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) – Tank 75 = 75% of surface covered in "duck weed".	
<u>Skips</u>	
1x open container grit skip (50 % full) uncovered, 1x 8 yard general waste skip (partially covered), 1x 8 yard General Waste skip (uncovered), 2x 6 yard covered rag skips at rear of Pasteurisation Plant (covered), 1x enclosed container skip (empty) in Service Road at rear of Sludge Screen House. 1x enclosed container skip (empty) & 1x open container skip in Service Road alongside PST's 9-12.	

East Side Raw Sludge Screen House	
Doors closed at time of inspection – facility currently out of service – contractors on site undertaking maintenance.	
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).	
Pasteurisation Plant	
Ten streams running.	
West side primary settlement tanks (PST)	
Rectangular PSTs – no issues.	
Circular PST's 9, 10 & 11 in use, Number 12 drained down.	
New Works (West Side) Battery E	
Feed Channel for Aeration Lanes – contractor on site jetting lanes at time of inspection. Tank performance progressively improving.	

Odour Control Unit (OCU) performance monitoring – 11/08/21

Plant	Reading (ppm)	Action Level (ppm)	Compliant
Main pumping station inlet	0.14	Unknown	Unknown
	0.14		
	0.14		

Main pumping station outlet	0.02	0.2	Yes
	0.02		
	0.02		
East OCU	0.04	0.05	Yes
	0.04		
	0.04		
West inlet OCU	0.00	0.05	Yes
	0.00		
	0.00		
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	0.01	0.6	Yes
	0.01		
	0.01		
Transfer PS inlet	No data	Unknown	Unknown
Transfer PS outlet	0.04	0.5	Yes
	0.04		
	0.04		
New West inlet (OCU11)	0.05	0.5	Yes
	0.04		
	0.05		
Pasteurisation Plant (OCU12)	0.05	0.5	Yes
	0.05		
	0.05		
GBT Plant OCU Outlet	No data	Unknown	Unknown