





- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALK TII DRAWINGS AND ALL OTHER RELEVANT ARCHITECTS. ENGINEERS AND LANDSCAPE ARCHITECT'S DRAWINGS AND SPECIFICATIONS.
- ALL DIMENSIONS AND LEVELS SHOWN ARE IN METERS UNLESS INDICATED OTHERWISE.
- 3. DO NOT SCALE FROM THIS DRAWING.

#### LEGEND

EXISTING FOUL WATER SEWER (SHOWN INDICATIVELY) EXISTING SURFACE WATER SEWER (SHOWN INDICATIVELY) SURFACE WATER SEWER FOUL WATER SEWER

> TANKED PERMEABLE PAVEMENT



P2 20/08/18 ISSUED FOR PLANNING DN DP P1 24/07/18 ISSUED FOR INFORMATION DN DP WEEK DOTAL WOELSFEES ARE ISSUED. THESE ARE PROVIDED FOR INFORMATION ON Y VALUES OF THE RECEIPTION OF THE OPENING AND ADDRESS OF THE OPENING WEEK DOTAL WOELSFEES ARE ISSUED. THESE ARE PROVIDED FOR INFORMATION AND VALUES OF THE OPENING AND ADDRESS OF THE OPENING THE PROVINCE ARE INSUED TO THE OPENING OF THE SPACE OF THE RESPECT TO LEBERK COORDINATION AND DRAMESINGLE SETTING OUT.



Containing Concentration and Civit Engine 1 Old Street Yard London EC1Y 8AF 7 +44 (0)20 7250 7757 F +44 (0)20 7250 7555 E info@sakt-uk.com W www.akt-uk.com

#### RED YELLOW

CLIENT

PROJECT

KEW MELLISS AVENUE

#### STRATEGIC DRAINAGE LAYOUT

TITLE		
DN	1:200 SCALE (Q A1	3859-C-SK004 CAD FILENAME
JULY 2018	CHECKED DP	STATUS PRELIMINARY
3859	C-S	K004 P1
PROJECT No.	DRAWING No.	REVISION

PRELIMINARY

### Appendix 2 Site Investigation Extract

3859 M



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Melliss Avenue, Richmond

akt II

# soiltechnics

#### 6.1.6 Summary

6.1.6.1 The following table summarises the geology encountered:

Table summarising soil types				
Strata	Depth to top (m)	Depth to bottom (m)	Thickness (m)	Summary description
Made Ground	0.0	1.7-4.4	1.7-4.4	Brown, dark brown and orange brown clayey gravelly sand/sandy gravelly clay. Gravel includes flint, brick, clinker, concrete and ash.
Alluvium (where encountered)	1.7-1.8	2.6-2.9	0.8-1.2	Grey brown slightly gravelly clay. Gravel consists of flint.
Kempton Park Gravel	2.6-4.4	4.7-6.2	2.1-2.6	Grey and orange brown sand and gravel
London Clay Formation	4.7-5.3	>30	Not proven	Grey brown clay
Table 6.1.6.1				

6.1.6.2 The investigation generally confirmed published geological records.

#### 6.2 Groundwater

6.2.1 Groundwater inflows were observed in some of the exploratory excavations. A summary of our observations is tabulated below:

Exploratory	Date of	Depth (m) below	Observations	
point	observation	ground levels		
BH01	10.04.18	3.58	Standing level measured during monitoring visit	
	28.03.18	3.77		
	25.04.18	3.64		
	09.05.18	3.69	-	
BH02	14.03.18	3.54	Measured 30 minutes after completion	
BH03	12.03.18	4.8m	Rose to 4.1m. Sealed out at 6.0m	
	10.04.18	3.62	Standing level measured during monitoring	
	28.03.18	2.53		
	25.04.18	3.7	-	
	09.05.18	3.88	-	
BH04	14.03.18	2.3m	Measured 10 minutes after completion	
	10.04.18	2.41	Standing level measured during monitoring	
	28.03.18	2.34	visit	
BH06	10.04.18	4.74	Standing level measured during monitoring	
(shallow)	28.03.18	4.66	visit	
	25.04.18	5.06	-	
	09.05.18	5.09	-	
BH06 (deep)	10.04.18	4.95	Standing level measured during monitoring	
	28.03.18	4.67	visit	
	09.05.18	5.1	-	
BH07	14.03.18	4.4m	Measured 15 minutes after completion	
Table 6.2.1				

## Appendix 3

Thames Water response to pre-planning enquiry

3859 M



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Mr T Mealey

White Collar Factory

1 Old street yard London EC1Y 8AF

AKT II



DS6049881

0800 009 3921 Monday to Friday, 8am to 5pm

22nd June 2018

### Pre-planning enquiry: Wastewater Capacity check

#### Dear Mr Mealey

Thank you for providing details on your development with the Pre-Planning application dated 13th June 18' for Kew Biothane Plant, Melliss Ave, Kew London TW9 4BD { Brownfeild site of 4200m2 of commercial area developed to :- 96 flats / Cinema (50 capa) / PH (64 Capa) / Restaurant (76 Capa) / Warehose 1150 m2 }.

#### Foul

If your proposals progress in line with the details you've provided as above, we're pleased to confirm that there will be sufficient sewerage capacity to serve your foul discharges from your development.

#### **Surface Water**

In considering your surface water needs, we support the use of sustainable drainage on development sites.

The surface water drainage strategy should follow policy 5.13 of the London Plan. Typically greenfield run off rates of 5l/s/ha should be aimed for using the drainage hierarchy. The hierarchy lists the preference for surface water disposal as follows; Store Rainwater for later use > Use infiltration techniques, such as porous surfaces in non-clay areas > Attenuate rainwater in ponds or open water features for gradual release > Discharge rainwater direct to a watercourse > Discharge by storing and attenuating rainwater direct to a surface water sewer/drain > Discharge by storing and attenuating rainwater to the combined sewer.

Please note that surface water discharges have to be stored and attenuated.

Please refer to the attached document titled "Planning your wastewater" attached to this letter, specifically to notes relating to surface water. Also I would advise you to liaise with the LA and discuss their criteria regarding surface water discharges in that area and adhere to their stipulation. If you agree & adhere to a LA stipulation then TW will be able to accommodate that agreed discharge.

This confirmation is valid for 12 months or for the life of any planning approval that this information is used to support, to a maximum of three years.

Please note that you must keep us informed of any changes to your design – for example, an increase in the number or density of homes. Such changes could mean there is no longer sufficient sewerage capacity.

#### What happens next?

Please make sure you submit your connection application, when you are ready, giving us at least 21 days' notice of the date you wish to make your new connection/s.

If you've any further questions, please contact me.

Yours sincerely

#### Siva Sivarajan

Developer Services- Wastewater Adoptions Engineer Office:0203 577 7752 Mobile: 07747842608 siva.sivarajan@thameswater.co.uk

Thames Water Utilities Ltd, Clearwater Court, Vastern Road, Reading, Berkshire, RG1 8DB Find us online at developers.thameswater.co.uk



TW internal ref: DTS 49790

#### **Dariusz Nowacki**

From:	Siva Sivarajan [Siva.Sivarajan@thameswater.co.uk]	
Sent:	28 June 2018 11:19	
To:	Thomas Mealey; Developer Services	
Cc:	Dariusz Nowacki	
Subject:	RE: 3859 Kew Biothane Plant, Melliss Avenue (TW9 4BD) - Pre-Planning Enquiry	

#### Dear sir,

When a developer completes an adoption scheme they forward a AS CONSTRUCTED drg to TW, which we in adoption team pass to TW GIS section for updating the sewer records, after cheking. This process can take a while as they have to be checked and passed to the relevant dept & more importantly that dept deals with numerous of those drgs to be updated and hence the timescale is undefinable; however they will eventually appear on the sewer records.

However, in the meantime, you can discharge to those two sewers which you have confirmed by CCTV survey.

Regds

Siva Sivarajan Developer Services- Wastewater Adoptions Engineer Office:0203 577 7752 Mobile: 07747842608 siva.sivarajan@thameswater.co.uk

Thames Water Utilities Ltd, Clearwater Court, Vastern Road, Reading, Berkshire, RG1 8DB Find us online at <u>developers.thameswater.co.uk</u>



From: Thomas Mealey [mailto:Thomas.Mealey@AKT-UK.COM]
Sent: 27 June 2018 11:10
To: Developer Services; Siva Sivarajan
Cc: Dariusz Nowacki
Subject: RE: 3859 Kew Biothane Plant, Melliss Avenue (TW9 4BD) - Pre-Planning Enquiry

**FAO Siva Sivarajan** 

Siva,

Thanks for the response to our pre-planning enquiry last week.

Could you confirm that Thames Water have updated asset records to include the **EXISTING 450mm SWS** and **EXISTING 150mm FWS** into which our proposed site will discharge. Attached are the original Thames Water record plans and updated records confirmed by CCTV survey.

Kind Regards, Tom