

From: Matthew.Porter <Matthew.Porter@horsham.gov.uk>
Sent: 23 July 2025 12:12:23 UTC+01:00
To: "Matthew.Porter" <Matthew.Porter@horsham.gov.uk>
Subject: FW: DC/19/2464 Phase 5 Southwater

From: Thais Covre Delboni <Thais-Covre.Delboni@horsham.gov.uk>
Sent: 22 July 2025 10:15
To: Matthew.Porter <Matthew.Porter@horsham.gov.uk>
Subject: RE: DC/19/2464 Phase 5 Southwater

Hi Matthew,

Yes, total Air Quality Mitigation: £31,240.

Pending clarification:

- Traffic flow figures are 37% higher than those in the previous report (June 2024). Has the AADT been updated? How does this impact the Air Quality assessment and modelling?
- Inclusion of other monitoring locations to improve model verification confidence
- Details of model set up prior to adjustment for particulate matter
- As the predicted PM2.5 concentrations at sensitive receptor as expected to be close to 12µg/m³ in 2028, has the applicant considered PM2.5 exposure for the development users in the site layout, the development's design, technology used in the construction or installed for use in the development? And how it can be reduced?
- Review the Construction Dust Assessment to account for new receptors

Kind regards,
thais

Thais Covre Delboni

Environmental Protection Officer (Air Quality)

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Email: Thais-Covre.Delboni@horsham.gov.uk



From: Jason Mills <jpm@stuartmichael.co.uk>

Sent: 21 July 2025 15:03

To: Thais Covre Delboni <Thais-Covre.Delboni@horsham.gov.uk>

Cc: Robert Franks <robert.franks@berkeleygroup.co.uk>; Emma Sibley <emma.sibley@turley.co.uk>; Matthew.Porter <Matthew.Porter@horsham.gov.uk>; Donna Brearley <donna.brearley@turley.co.uk>

Subject: RE: DC/19/2464 Phase 5 Southwater

Hi Thais,

Thank you for your help earlier.

I have updated the EFT 13.1 calculations and the Damage Cost calculations, and the results are presented below:

Input and output from the EFT 13.1 calculations

	A	B	C	D	E	F	G
1	Q:\Library\Air Quality\Analysis Tools\EFT2025 v13.1.xlsb						
2							
3	the relevant road type:	Urban (not London)					
4	traffic flows:	652					
5	% HDV:	0%					
6	Speed:	48kph					
7	number of hours:	24					
8	Link length data:	10km (National Travel Survey UK average)					
9	Gradient:	0%					
10	Flow direction:	Two way traffic					
11	Percentage Load:	0%					
12							
13							
14	Table 5.9:	EFT Output (tonne/annum)					
15		2025	2028	2029	2030	2031	2032
16	NO _x	0.4511	0.3050	0.2613	0.2216	0.1868	0.1568
17	PM _{2.5}	0.0439	0.0414	0.0408	0.0402	0.0398	0.0394
18							

Control Panel inputs – Air Quality Damage Cost Appraisal Toolkit

	A	B	C	D	E	F	G	H	I	J
1	Control Panel									
2										
3	Start Year	2028			Please type the year at which the policy will start from, the start year is also the discount year					
4										
5	End Year	2032			Please type the year at which the appraisal will end					
6										
7	Appraisal Period	5			Autofills the number of years for which the policy is reviewed for					
8										
9	Price Base Year	2025			Please type the price base year for your appraisal					
10										
11	Number of pollutants	2			Please type the number of pollutants to be assessed					
12										
13	Note: if you are assessing PM10 impacts, please convert these to PM2.5 using conversion factors found in the Assumptions sheet									
14										
15	Key assumptions:	Health discount rate			1.50% from appraisal year 0 to 30					
16					1.29% from appraisal year 31 to 75					
17					1.07% from appraisal year 76 to 125					

NOX damage cost calculations

NOx Road Transport

Year	2028	2029	2030	2031	2032
Reduction in emissions (tonnes)	0.3050	0.2613	0.2216	0.1868	0.1568
Central Damage Costs (£)	12390	12390	12390	12390	12390
Central Benefit (£)	3778	3238	2746	2315	1942
Discounted Central Benefit (£)	3778	3190	2666	2214	1830
Central Present Value	£13,677				

PM2.5 damage cost calculations

PM2.5 Road Transport

Year	2028	2029	2030	2031	2032
Reduction in emissions (tonnes)	0.0414	0.0408	0.0402	0.0398	0.0394
Central Damage Costs (£)	89667	89667	89667	89667	89667
Central Benefit (£)	3715	3658	3608	3568	3533
Discounted Central Benefit (£)	3715	3604	3502	3412	3329
Central Present Value	£17,563				

Kind Regards

Jason Mills MEng, MSc, PgDip, AMIOA
Senior Environmental Engineer

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