4th July 2022

Our Ref: 680074-L1(00)-FRA

Planning Section Dover District Council Head Office White Cliffs Business Park Dover Kent CT16 3PJ

RE: DOV/21/01822 - Cross Road. Deal – Southern Water Consultation

I refer to the recent online consultation meeting between RSK and Southern Water on 20/06/2022, attended by Colin Whittingham of RSK, and William King and Richard Gamble of Southern Water. Southern Water had expressed initial concerns that the outline surface water drainage strategy provided in the Flood Risk Assessment 680074-R1(01)-FRA was proposing to discharge via infiltration to the ground into an area of Groundwater Source Protection Zone (GSPZ) 2 and of close proximity to GSPZ 1. It was noted during that meeting that the aquifer under the site supplied drinking water to large areas surrounding the site and a direct connection into the shallow aquifer (unconfined chalk with little/no superficial) could be detrimental should pollutants and suspended solids be mobilised directly into the aquifer. Southern Water wanted reassurances that a surface water drainage strategy would be designed to mitigate against a pollution event at both construction and post-development stages.

It was agreed that the surface water drainage strategy should ensure that all drainage passes through a number of treatments including lined permeable paving, filter strips or lined swales, an oil interceptor, pretreatment basin/pond and through to the final infiltration basin. This does not deviate largely from the original outline drainage strategy (P2) submitted in 680074-R1(01)-FRA; however, amendments have been included to show repositioning of the hydrocarbon interceptor to take all flows from the site and a note made to confirm the use of lined permeable paving within the proposed developable area. The updated drainage strategy (P3) is included in **Appendix A**.

RSK Geosciences is to provide a high level hydrogeological assessment with proposed mitigation measures for the construction phase of the development for the current outline planning application. Southern Water will expect to receive a detailed assessment (including a Construction Environmental Management Plan) once final construction details are known and will seek to secure this through a planning condition.

I trust the information supplied above has provided you with the necessary assurances that the requirements from Southern Water can be met; however; please do not hesitate to contact the undersigned if you require any further information.







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Yours sincerely,

RSK LDE LIMITED

Ryon Whit Feld

Ryan Whitfield Hydrologist BSc (Hons) MSc MCIWEM



APPENDIX A UPDATED OUTLINE SURFACE WATER DRAINAGE STRATEGY



Notes Do not scale from this drawing Layout provided by FPCR Drawing is subject to change Drawing is indicative and subject to change following layout revisions								
Key Red Line Boundary								
Proposed Surface Water Network								
Proposed Swale								
	Proposed Infiltration Basin							
Proposed Pond								
- -	20.06.22	Undat	- trootmont	train			CW	
P3 P2	30.06.22	Update	e treatment e infiltration	train rates + size	s RW	CW	CW	
P1	02.08.21	Issued	for Discuss	sion	RW	KJ	CW	
Rev.	Date		Amendm	ent	Drawn	Chkd.	Appd.	
Image: Construction of the construc								
Draft								
Drawing Title Indicative Surface Water Drainage Strategy DRAFT								
Drav RV	awn Date Checked Date W June 22 CW June 22		Approved Date CW June 22					
Scal	Scale Orig		Orig Size A3	Orig Size A3		Dimensions M		
Project No. Drawing File								
Drawing No. Rev. 10-01 P3								