

Wendy Strangeway

From: Mark Hill
Sent: 18 February 2015 13:32
To: Planning
Subject: FW: EMS-Knapton
Attachments: Fig 3 Assessment Summary of Effects Key to Locations.pdf; EIA Assessment Table_Amec format.docx; Fig 1 Catchment Boundaries & Abstraction Points rev b.pdf; Fig 2.pdf

Pls book in.

From: Lucy Wood
Sent: 17 February 2015 10:29
To: Mark Hill
Cc: Elizabeth Davies; Nigel D'Arcy
Katharine Creswell
Subject: RE: EMS-Knapton

Paul Foster; John Dewar



Mark,

Please find attached the final pieces of information for EMS-Knapton:

3. Updated Figure 1 to show catchment area boundaries (revised to show the correct location of an abstraction at Allerston. Please disregard the version sent yesterday).
6. Table to summarise water receptor sensitivity, magnitude of effects and significance in Amec's table template. This is not additional information, but summaries information contained in the submitted ES Chapter (Fig 3 also attached to accompany the table).
8. Conceptual model diagram for surface water (Fig 2 section attached).


I would be grateful if you could confirm receipt of all three e-mails and attachments.

Kind Regards




Lucy Wood
Director

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Key

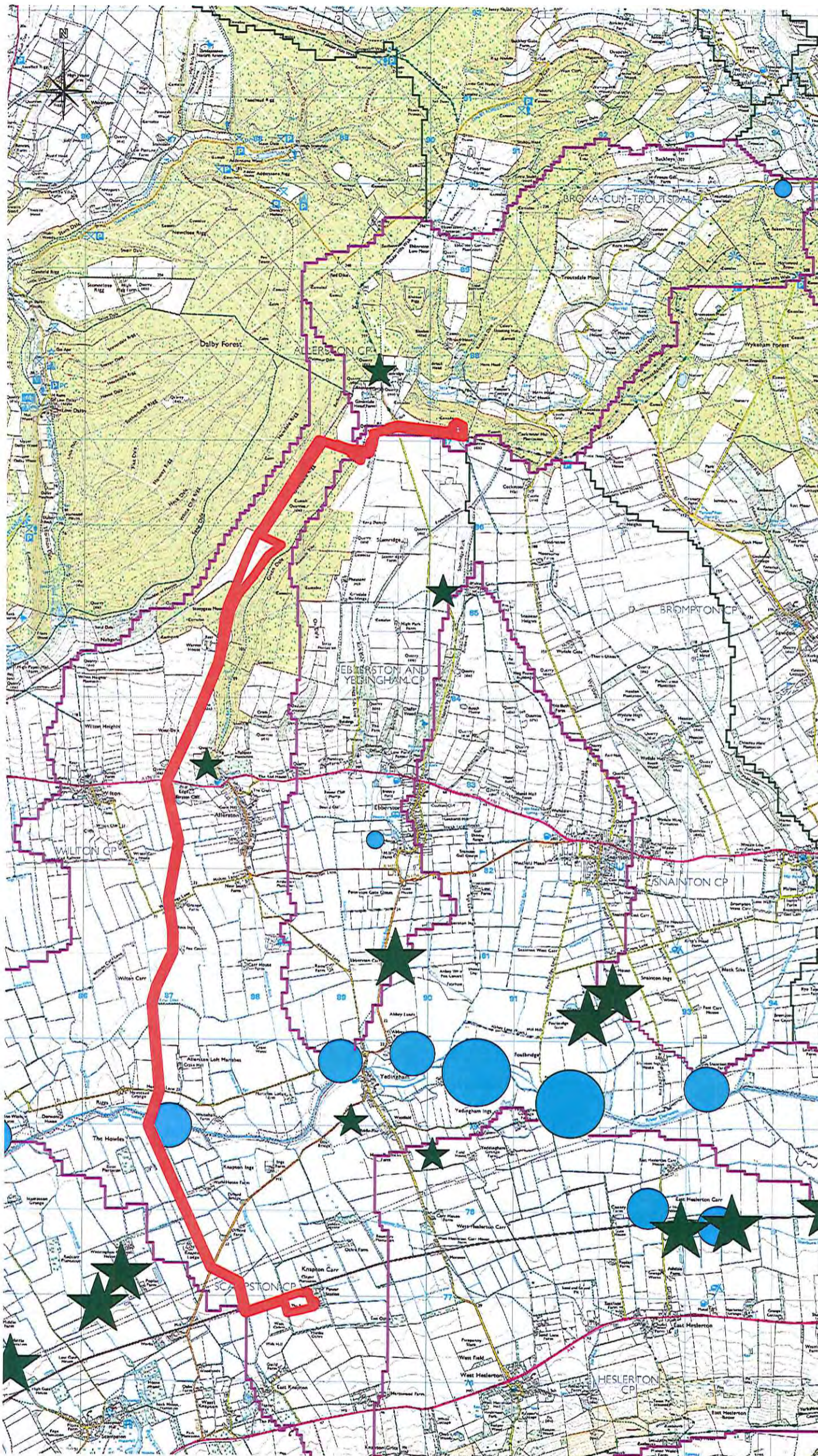
-  Application Red Line
-  Catchment boundaries
-  Boundaries to catchment areas in which development is located

Water Abstraction from Ground Water

-  Small size of abstraction
-  Medium size of abstraction
-  Large size of abstraction

Water Abstraction from Surface Water

-  Small size of abstraction
-  Medium size of abstraction
-  Large size of abstraction



Data extracted from Environment Agency Website

Figure 1 - Catchment Area Boundaries & Abstraction Points

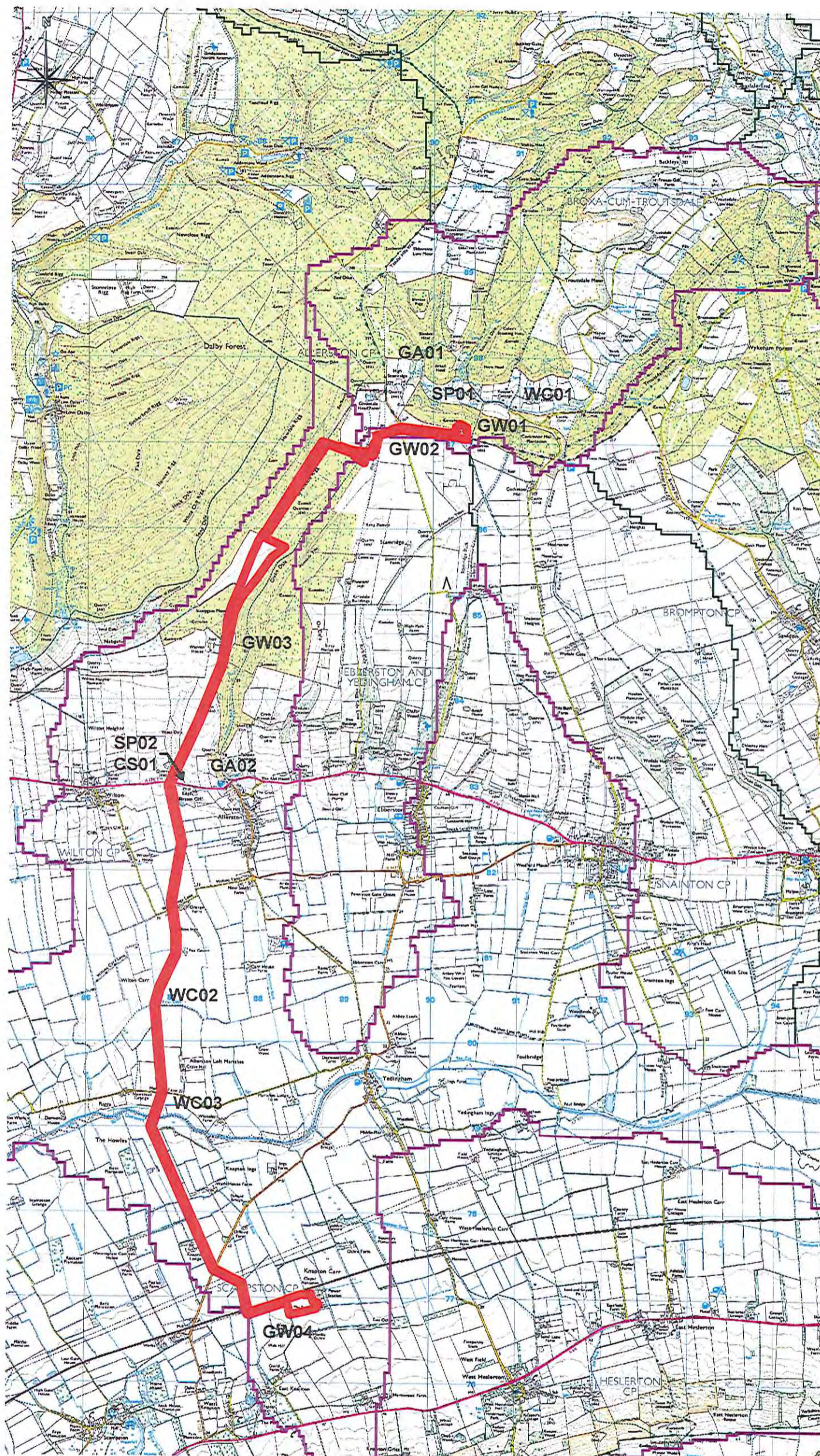
0 500m 1000m

Table X Summary of Residual Effects and Evaluation of Significance




Ref Number	Receptor	Sensitivity/ Value	Magnitude	Significance Level *	Rationale
Groundwater Bodies					
GW01	Corallian Aquifer at EMS	Very High	Low	Not Significant	Mitigation, provided by rigorous site management, containment of all potential pollutants. Regular monitoring of springs in Troutsdale.
GW02	Corallian Aquifer along pipeline route near EMS	Very High	Very Low	Not significant	Mitigation, provided by rigorous site management.
GW03	Corallian Aquifer along pipeline route outside SPZ	High	Very Low	Not significant	Mitigation, provided by rigorous site management.
GW04	Superficial deposits near KGS	High	Low	Not significant	Mitigation, provided by rigorous site management, containment of all potential pollutants.
Groundwater Abstractions (Licensed)					
GA01	High Scamridge Farm	High	Low	Not Significant	Isolated from site by topography
GA02	Allerston	High	Low	Not Significant	Mitigation not required. Pipeline passes outside SPZ.
GA03					
Wells					
WL01	None recorded				
Springs					
SP01	Troutsdale	High	Low	Not significant	Mitigation, provided by total containment of the EMS site by lining and sealed bunds with all potential sources of contamination contained on site.
SP02	Near A170	Moderate	Low	Not significant	Mitigation, provided by routing the pipeline away from springs and rigorous site management.
SP03					
Watercourses					
WC01	Troutsdale Beck	Very High	High	Not significant	Mitigation, provided by total containment of the EMS site by lining and sealed bunds with all potential sources of contamination contained on site.
WC02	Friar Dike	Moderate	Low	Not significant	Mitigation provided by temporary damming and over-pumping during construction of the pipeline crossing.
WC03	River Derwent	Very High	High	Not significant	Mitigation provided by directional drilling under the river and associated flood plain within embankments.
<ul style="list-style-type: none"> The term 'Not Significant' equates to 'Negligible' within the ES Chapter 11 					

Ref Number	Receptor	Sensitivity/ Value	Magnitude	Significance Level *	Rationale
Ponds/Lakes					
PO01	No lakes or ponds within proposed development area				
GWDTEs					
CS01	Weas Dale marshy grassland	Moderate	Low	Not significant	The pipeline route avoids the area and crosses the dry valley above the spring line.
<ul style="list-style-type: none"> The term 'Not Significant' equates to 'Negligible' within the ES Chapter 11 					
Key:		Value	Magnitude	Significance	


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Key

-  Application Red Line
-  Catchment boundaries
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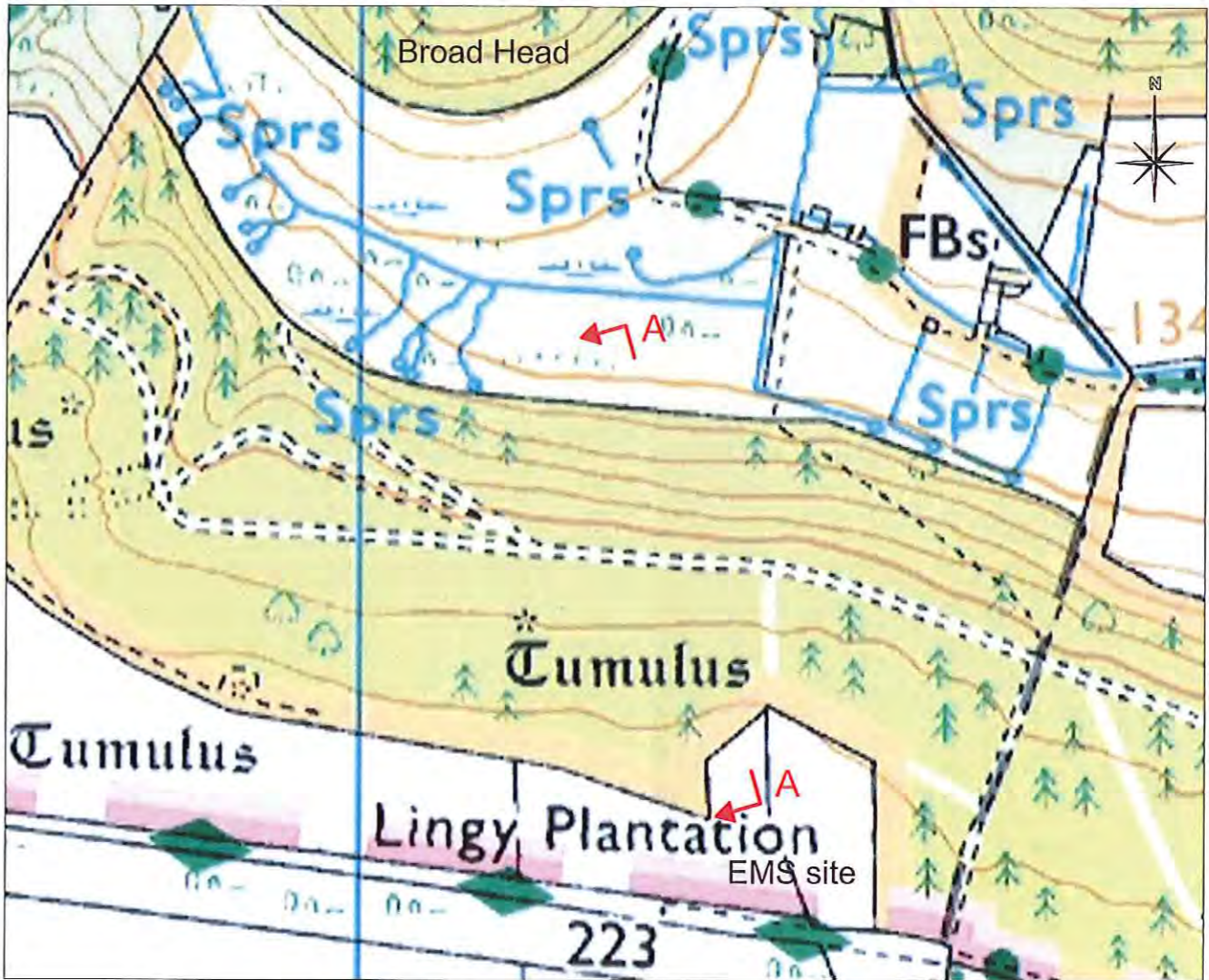
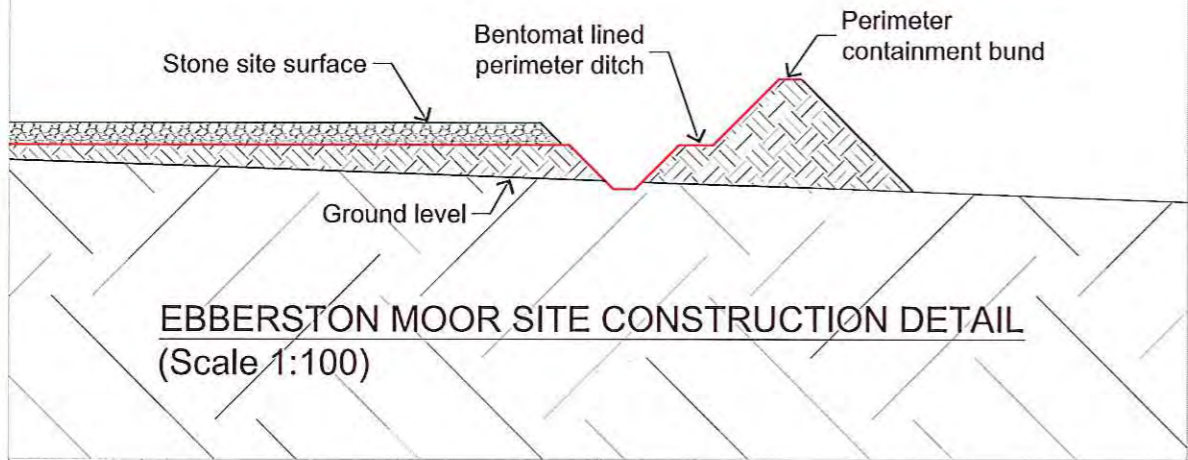
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Figure 3 - Assessment Summary of Effects key to Location

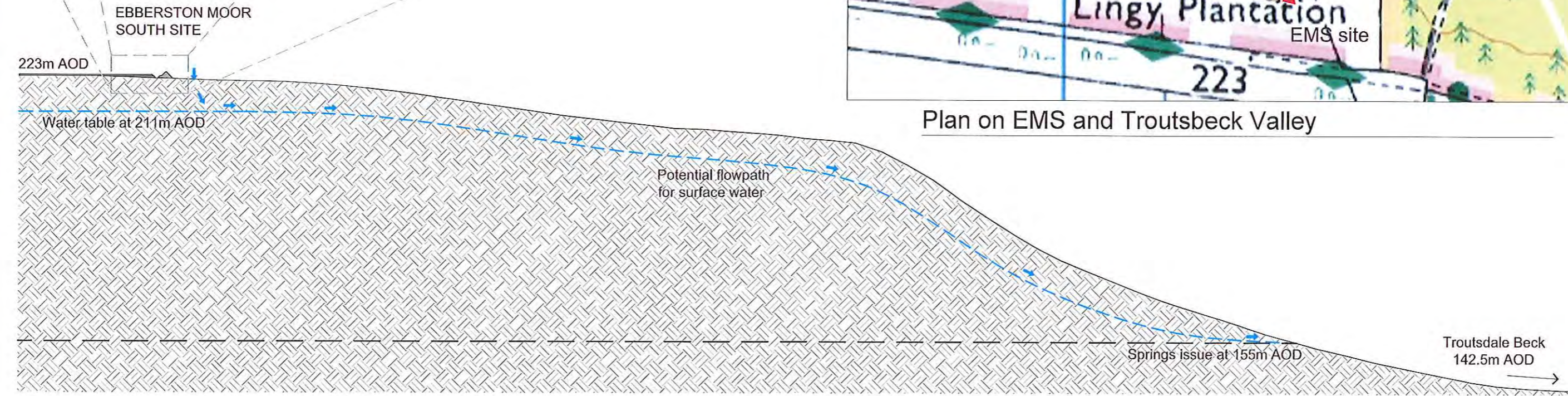
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Plan on EMS and Troutsbeck Valley



Section A-A from Eberston Moor South Site north towards Broad Head

Scale 1:1,000

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Details	Drawn By	Date	Sheet Size
Eberston Pickering North Yorkshire	AJNE	February 2015	A3
Job Title	Drawing Title		Revision
EMS - Knapton Pipeline	Section from Eberston Moor Site towards Broad Head (Scale 1:1,000)		
	Drawing Number	Figure 2	