

Mr Nigel Bennett
c/o Metropolis Planning & Design
4 Underwood Row
London
N1 7 LQ

Date: 19th December 2014
Our reference: MET18988

Dear Mr. Bennett,

Arboricultural Impact Assessment for proposed Cuffley Pipework Installation

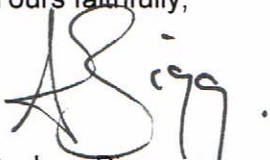
Pursuant to your instruction, following a request from Welwyn Hatfield Borough Council for further arboricultural information pertaining to on-site trees and the proposed pipework route, I visited site on 5th December to review the proposed route and tree stock. Following this visit and subsequent discussions I have the following comments and recommendations.

There are trees found along the proposed route, mature tree stock is predominately found along the B156, together with smaller trees found along both Hempshill Brook and Northaw Brook. Tree species along the B156 include horse chestnut, common lime and common oak. Tree species along the brooks are predominately goat willow and English elm, with isolated middle aged English oak and ash. In terms of BS5837:2012 *Trees in relation to design, demolition and construction* these trees are surveyed and recorded as category 'B' and 'C', with isolated category 'U' individuals. Please reference detail as shown on enclosed Tree Reference Plan MET18988-01 Pipeworks.

Every effort has been taken to route the footprint of the proposed pipework outside the RPAs of surveyed trees. However, it will be required to connect the pipeworks from the length of the B156 into the agricultural field running parallel to Hempshill Brook. This will necessitate the route to pass within the RPA of the easternmost tree within group no. G3. To avoid potential impact to the rooting environment of the tree, trenchless installation methodology of the utility apparatus is to be implemented. Section 7.7 of BS5837:2012 *Tree in relation to design, demolition and construction* makes provision for the principles and procedures to be applied to achieve this goal. Whilst detailed designs have not been compiled to date, it is reasoned that this design and methodology is acceptable. And, together with appropriate arboricultural involvement, agreed at officer level under the control of a suitably worded planning condition, the proposed pipework route can be implemented and adequate protection can be provided to safeguard retained trees throughout the construction phase.

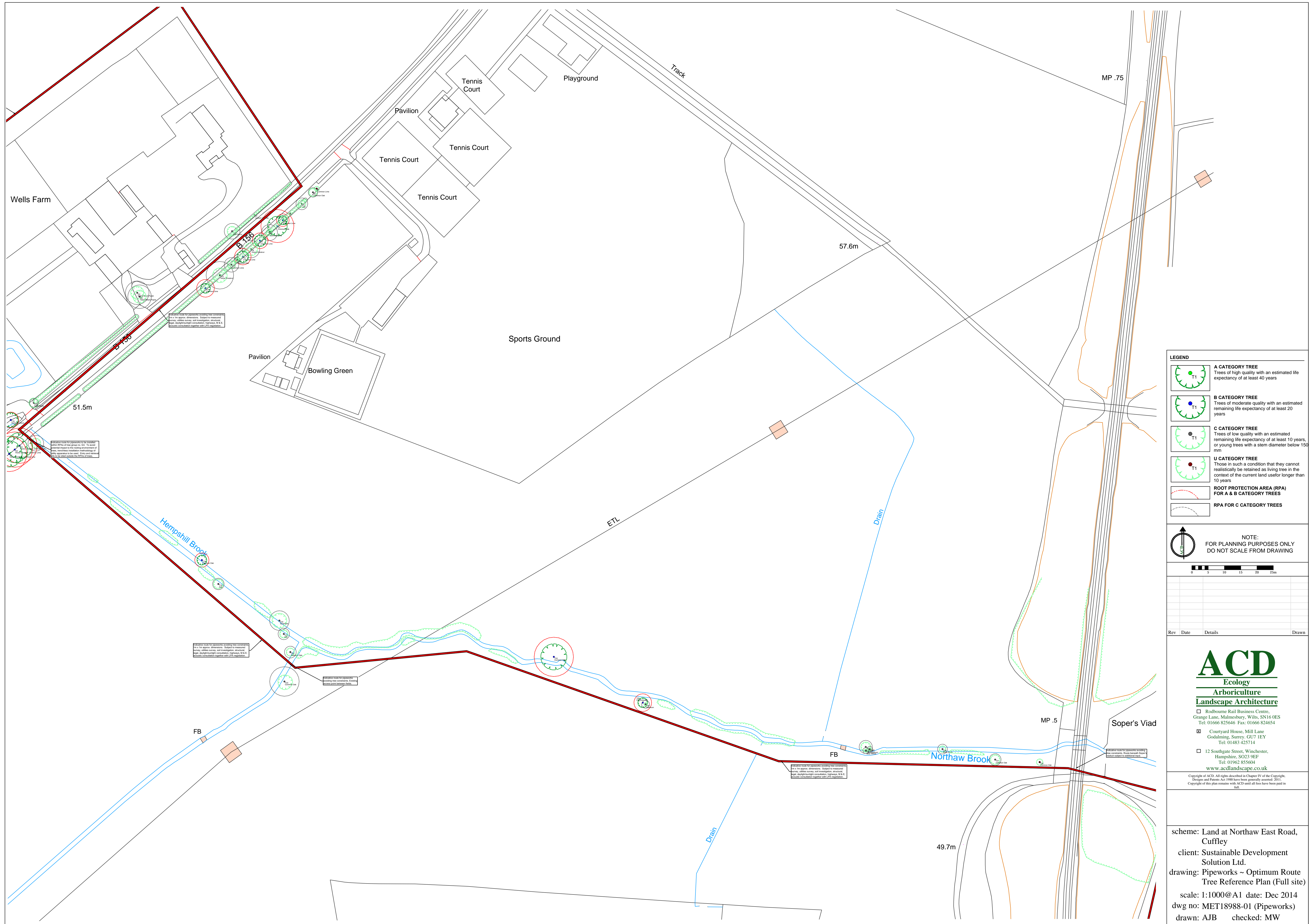
Please feel free to submit this letter to the council if necessary.

Yours faithfully,



Andrew Bigg RFS Cert. Arb.
Arboriculturist

Enc



LEGEND

- A CATEGORY TREE**
Trees of high quality with an estimated life expectancy of at least 40 years
- B CATEGORY TREE**
Trees of moderate quality with an estimated remaining life expectancy of at least 20 years
- C CATEGORY TREE**
Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm
- U CATEGORY TREE**
Those in such a condition that they cannot realistically be retained as living tree in the context of the current land use for longer than 10 years
- ROOT PROTECTION AREA (RPA) FOR A & B CATEGORY TREES**
- RPA FOR C CATEGORY TREES**

NOTE:
FOR PLANNING PURPOSES ONLY
DO NOT SCALE FROM DRAWING

| Rev | Date | Details | Drawn |
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ACD
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scheme: Land at Northaw East Road, Cuffley
client: Sustainable Development Solution Ltd.
drawing: Pipeworks ~ Optimum Route Tree Reference Plan (Full site)
scale: 1:1000@A1 date: Dec 2014
dwg no: MET18988-01 (Pipeworks)
drawn: AJB checked: MW