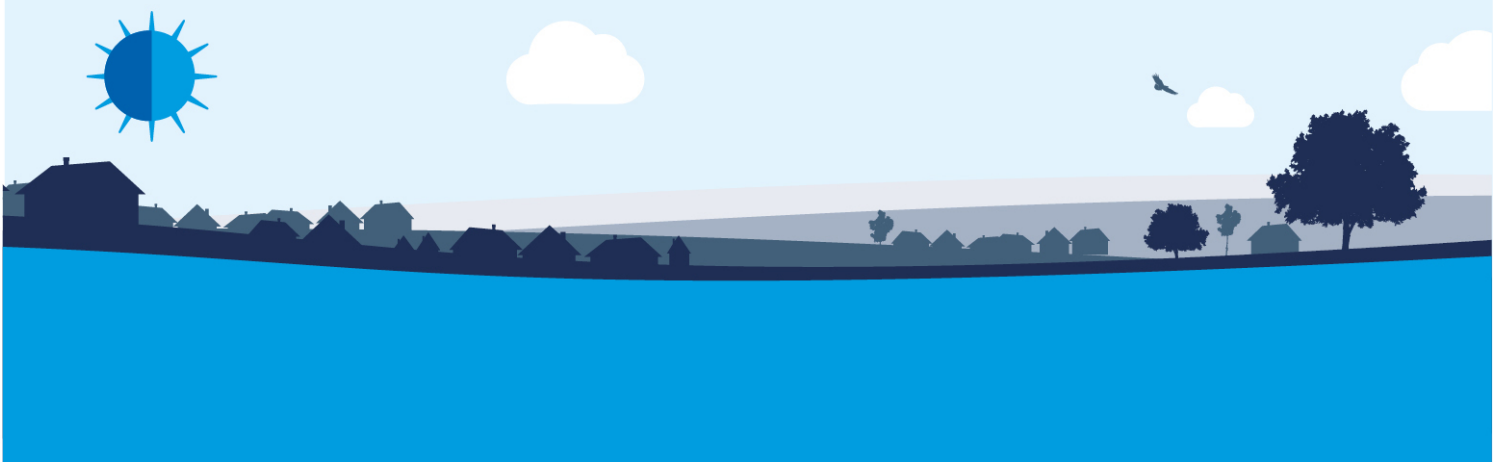


# Appendix RA02.4

## APEM – SSC costing correspondence for AMP7 eels proposals

1 April 2019



**From:** Nicola Teague [mailto:N.Teague@apemltd.co.uk]  
**Sent:** 05 June 2018 12:03  
**To:** Peter Greenaway <petergreenaway@south-staffs-water.co.uk>  
**Cc:** Jared McGivern <jaredmcgivern@south-staffs-water.co.uk>  
**Subject:** RE: Eel Screen costs

Peter,

Apologies for the delay in responding I was on leave last week. Please see responses below in red text including for screens at Chelmarsh and Blithfield Reservoirs as well as the alternative options of siting the screens within the WTW.

I hope that is what you were after.

I'm in the office all day today if you needed any further clarification or would like to discuss at all.

Kind Regards,

Nic

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**Nicola Teague (O'Keeffe) MSc BSc (Hons) CBiol MSB MIFM**

**Divisional Director - Fisheries**

My usual days of work are; Monday, Tuesday, Thursday and Friday.

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**From:** Peter Greenaway [<mailto:petergreenaway@south-staffs-water.co.uk>]  
**Sent:** 31 May 2018 23:58  
**To:** Nicola Teague  
**Cc:** Jared McGivern  
**Subject:** RE: Eel Screen costs  
**Importance:** High

Nicola

Could you possibly comment on this original estimate by return. In particular the likely variation to include passive screening for Chelmarsh and Blithfield Reservoir outtakes?

Peter

**From:** Peter Greenaway  
**Sent:** 13 March 2018 20:11  
**To:** Sarah E. Smith  
**Subject:** Eel Screen costs

Just a quick file note

Hampton Loade Intake: EA at site visit said we'd probably not need to do a full screen at the river frontage on the grounds of CBA but APEM adamant that can be done at less than the threshold value of £12M

High estimate (APEM) £5-6M based on Hydrolox 1.75mm using analogy of STWL Mythe intake

Middle Estimate: APEM evaluating passive screen option

Low estimate (SSW) £250k based on retro fit of existing band screens with fish paddles and fish return system **We suggest increasing this to £500k - £1M.**

Chelmarsh Reservoir: EA has stipulated mitigation required (trap and transport) and will be adding as such to WINEP3

Estimate £60k based on initial pilot with APEM monitoring and Severn Rivers Trust ongoing action (would be higher if APEM did all) **This would fall under alternative measures. The maximum value should not therefore, exceed £50k on this basis with survey effort adjusted according to available budget.**

**Passive screening at Chelmarsh: £1-2M**

**Screening at WTW: £1-2M**

Nethertown Blithe: EA at site visit said band screen only 12.5 mm but need to drop to 3mm for future proofing (APEM). CBA passes

High Estimate (APEM) £1 – 2M depending on construction costs based on Hydrolox

Low estimate : APEM looking at GoFlo alternative

Nethertown Trent: EA at site visit said 12.5mm band screen would consider fish friendly pumps with some mitigation measures. CBA passes. **EA view is fish friendly pumps as a last resort only.**

Estimate (APEM) £1M based on Hydrolox - GoFlo may be cheaper but fish friendly unlikely to be so. **May also want to consider 3mm screens at this site for future proofing if possible within the available intake area.**

Blithfield Reservoir: EA at site visit said solution would require upstream and downstream fish pass as well as **passive** intake screening. CBA uncertain  
High estimate (APEM): £3M but may work out higher  
Low estimate £50k based on mitigation measures only  
**Screening at WTW: £1-2M**

## Peter Greenaway

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