


**From:** Rees-Jones, Joel [Joel.Rees-Jones@cyfoethnaturiolcymru.gov.uk](mailto:Joel.Rees-Jones@cyfoethnaturiolcymru.gov.uk)   
**Subject:** RE: Aled Jones Hydro 2 - PPN-00239  
**Date:** 3 September 2018 at 11:24  
**To:** Liam Brown [liam@greeneearthhydro.co.uk](mailto:liam@greeneearthhydro.co.uk)  
**Cc:** Evans, Tecwyn [Tecwyn.Evans@cyfoethnaturiolcymru.gov.uk](mailto:Tecwyn.Evans@cyfoethnaturiolcymru.gov.uk), Aled Jones [awjcontracting@gmail.com](mailto:awjcontracting@gmail.com)

JR

Hi Liam,

This sounds like it would be a suitable way forward if there is no other option. My main concern is damage to spawning sites, and this I think sounds like it will address the issue.

Regards

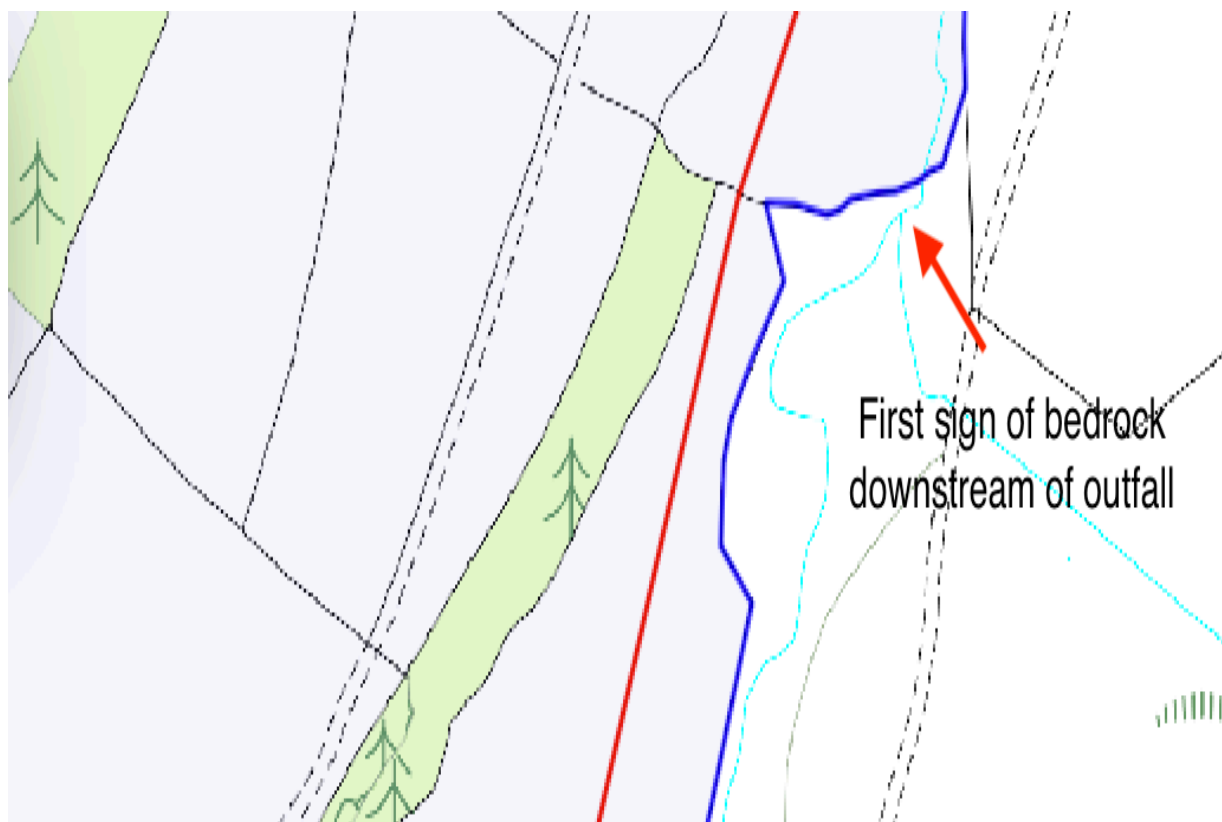
Joel

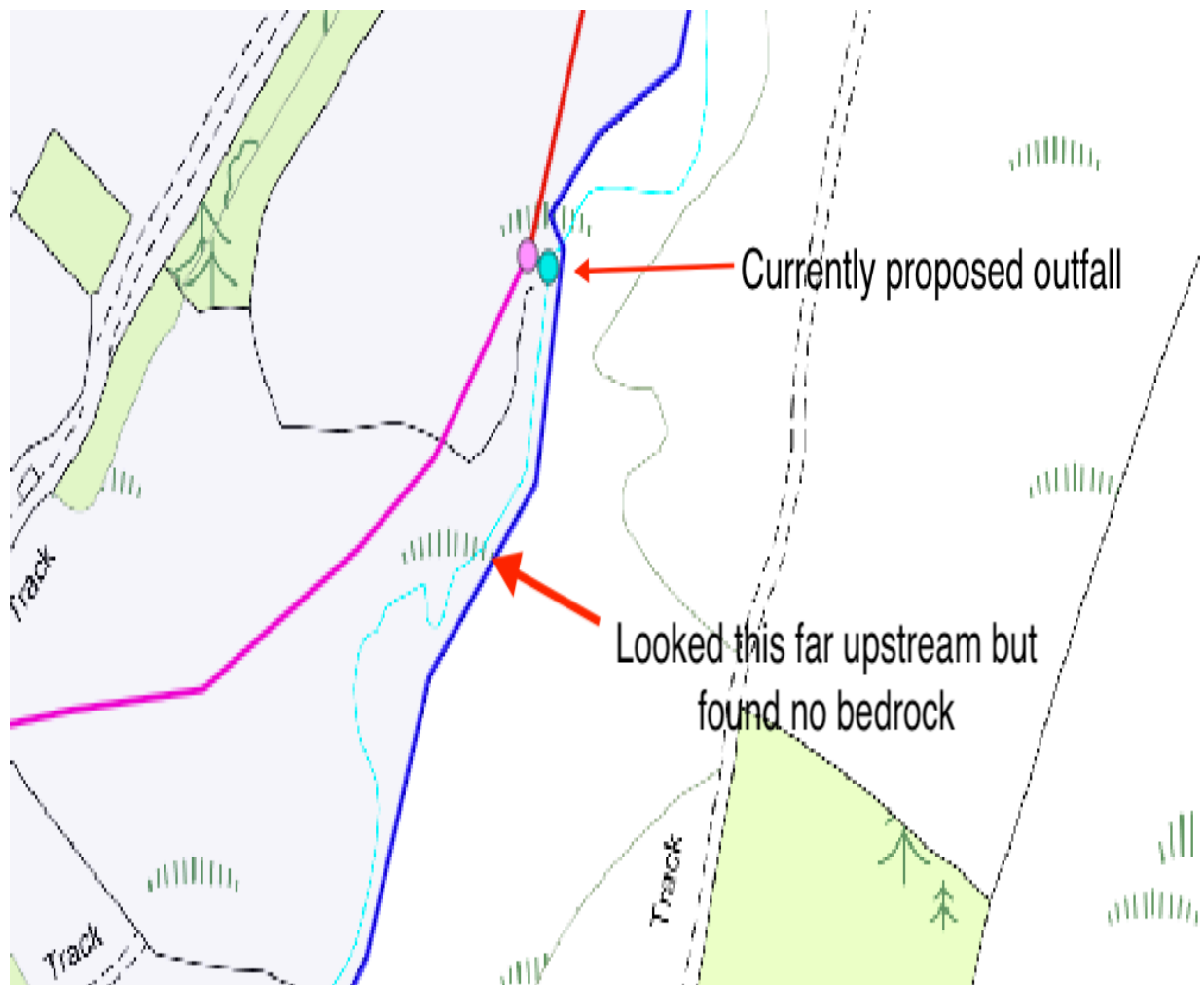
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**From:** Liam Brown [liam@greeneearthhydro.co.uk](mailto:liam@greeneearthhydro.co.uk)  
**Sent:** 09 August 2018 07:02  
**To:** Rees-Jones, Joel [Joel.Rees-Jones@cyfoethnaturiolcymru.gov.uk](mailto:Joel.Rees-Jones@cyfoethnaturiolcymru.gov.uk)  
**Cc:** Evans, Tecwyn [Tecwyn.Evans@cyfoethnaturiolcymru.gov.uk](mailto:Tecwyn.Evans@cyfoethnaturiolcymru.gov.uk); Aled Jones [awjcontracting@gmail.com](mailto:awjcontracting@gmail.com)  
**Subject:** Fwd: Aled Jones Hydro 2 - PPN-00239

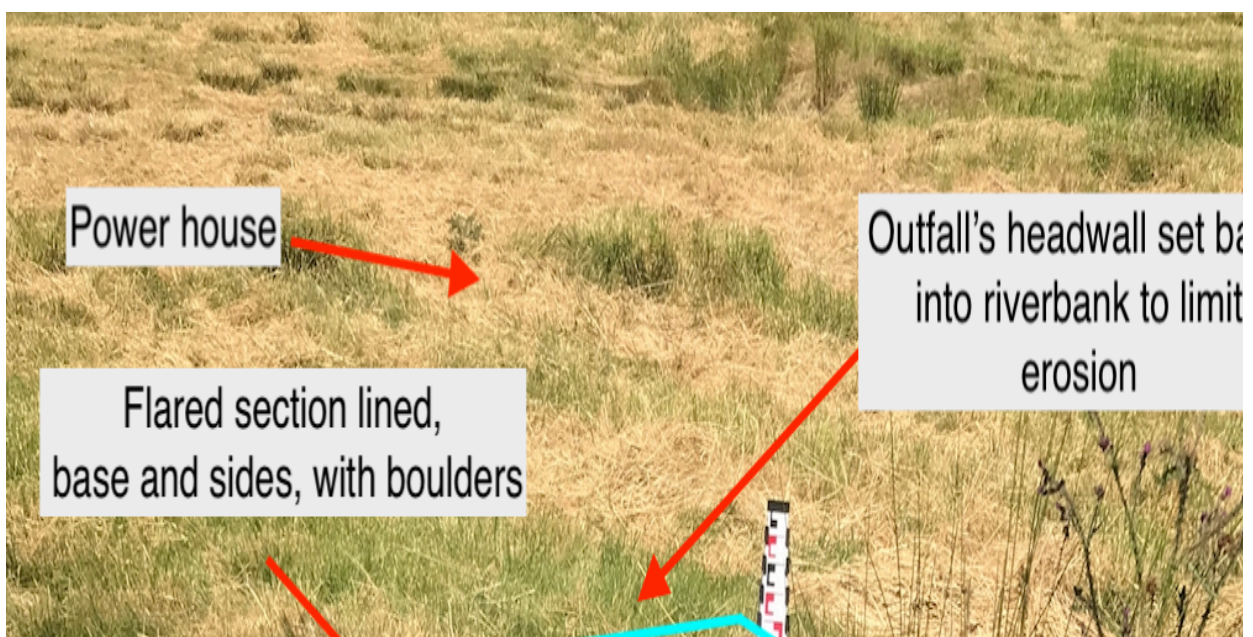
Hi Joel,

I went back to this site yesterday to see if I could find a better outfall location onto bedrock. Unfortunately there is no bedrock in the watercourse in the vicinity of the proposed outfall site. I looked 80m upstream but didn't find any and the first bedrock I found was 320m downstream on the applicant's neighbour's land. Moving the outfall here would be problematic as it would involve a third party landowner but most importantly it would reduce the depleted reach's gradient from 10% to just under 8%. A reduction in the abstraction regime from 70% to 50% would make the scheme uneconomical and this is the main reason we didn't move the power house and outfall downstream closer to the farm buildings:

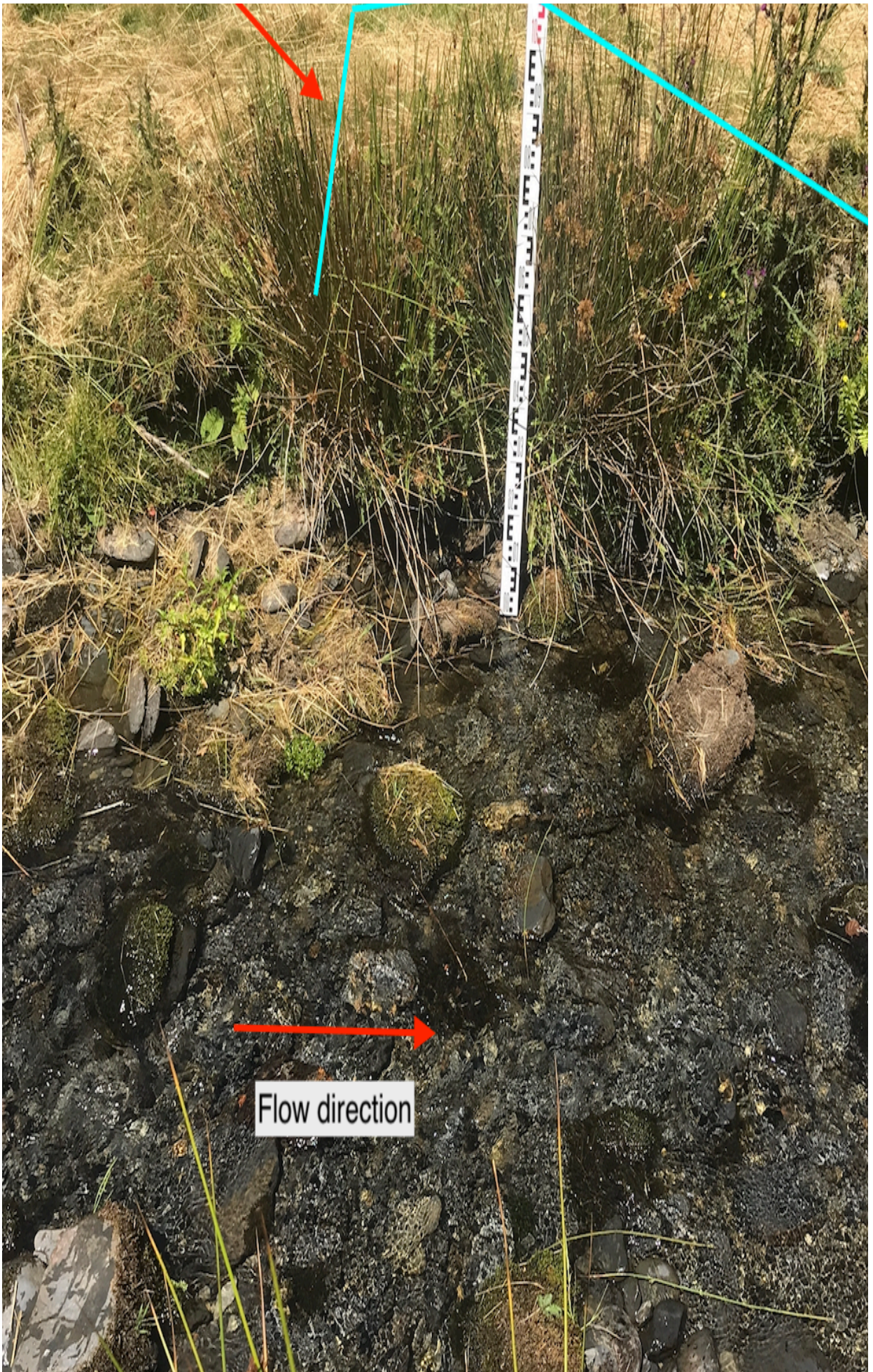




One possible solution I've been considering is that the headwall of the outfall could be set back about a metre into the riverbank and then masonry walls could be built from it in a flared fashion with the exit into the watercourse facing downstream. The base of this flared section could also be laid with boulders. In this way the exit velocity into the stream could be further reduced (this would be in addition to the drop-pipe arrangement shown in the photo survey document which sits behind the headwall and already reduces the outlet velocity to about 1-2m/s) and erosion of any spawning ground for trout minimised:







Flow direction





Could you let me know if this could be a way forward?

Kind regards,

Liam

Liam Brown  
Managing Director

Greenearth Hydro Limited  
PO Box 68  
Aberdovey  
LL36 6AJ

Mobile 07980 670046  
[www.greenearthhydro.co.uk](http://www.greenearthhydro.co.uk)

Begin forwarded message:

**From:** "Evans, Tecwyn" <[Tecwyn.Evans@cyfoethnaturiolcymru.gov.uk](mailto:Tecwyn.Evans@cyfoethnaturiolcymru.gov.uk)>  
**Subject:** Aled Jones Hydro 2 - PPN-00239  
**Date:** 1 August 2018 at 14:23:32 BST  
**To:** Liam Brown <[liam@greenearthhydro.co.uk](mailto:liam@greenearthhydro.co.uk)>

Please find attached our response to your above preapplication submission.  
If you need any further information please contact me, I will however be on leave after today and will be back in on the 14<sup>th</sup> August.

Regards,  
Tecwyn

**Tecwyn Evans** BSc(Hons), Dip. Env. Pol., Adv. Dip. EDM  
**[Nodwch: 'rydwyf yn gweithio ar ddydd Mawrth, Mercher a lau yn unig fel arfer]**  
**[Please note that I normally only work on Tuesdays, Wednesdays and Thursdays]**  
Uwch Swyddog Cynllunio Adnoddau Naturiol (Adnoddau Dwr)  
Rheolwr Cyfrif Rhanbarthol Ynni Heidro  
Tim Cynllunio Adnoddau Naturiol  
Senior Natural Resources Planning Officer (Water Resources)  
Regional Hydropower Account Manager  
Natural Resources Planning Team

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**Croesewir gohebiaeth yn y Gymraeg a'r Saesneg / Correspondence welcomed in both Welsh and English.**

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