

Hydrological report

Impact assessment of proposed amendment on the stream environment.

The current abstraction:

Abstraction Licence WA/058/0073/003 authorises Kimberley Hydro Limited (the licence holder) to abstract water from the source of supply (Inland water (stream) known as un-named tributary of the River Dulais at Coed Du Farm, Crynant, Neath) at National Grid Reference SN 80217 05674 by means of Intake works and a gravity feed pipe of an internal diameter not exceeding 150 millimetres for the purpose of power production.

MAXIMUM QUANTITIES OF WATER TO BE ABSTRACTED

2,592 cubic metres per day

406,436 cubic metres per year

At an instantaneous rate not exceeding 30 litres per second.

The Licence Holder shall return all the water abstracted in pursuance of this licence to an un-named tributary of the River Dulais at National Grid Reference SN 79635 05534

Until Date of expiry.....31 March 2029

The above installation benefits from the following licences and consents:

WA/058/0073/003 – Abstraction Licence

WA/058/0073/004 – Impoundment Licence

FD/2015/0030 – Ordinary Watercourse (Permanent) consent for Intake.

FD/2015/0045 – Ordinary Watercourse (Permanent) consent for outfall

The proposal:

The amendment to Abstraction Licence WA/058/0073/003 would authorise Kimberley Hydro Limited (the licence holder) to abstract water from the source of supply (Inland water (stream) known as un-named tributary of the River Dulais at Coed Du Farm, Crynant, Neath) at National Grid Reference SN 80217 05674 by means of Intake works and a gravity feed pipe of an internal diameter not exceeding 150 millimetres to transfer water into a pond at SN 80084 05528 where from where it will be abstracted at a consistent rate not exceeding 30 litres per second by means of a 200mm pipe for the purpose of power production.

MAXIMUM QUANTITIES OF WATER TO BE ABSTRACTED FROM STREAM SN 80217 05674

2,592 cubic metres per day

406,436 cubic metres per year

At an instantaneous rate not exceeding 30 litres per second.

MAXIMUM QUANTITIES OF WATER TO BE ABSTRACTED FROM POND SN 80084 05528

2,592 cubic metres per day

406,436 cubic metres per year

At an instantaneous rate not exceeding 30 litres per second.

The Licence Holder shall return all the water abstracted in pursuance of this licence to an un-named tributary of the River Dulais at National Grid Reference SN 79635 05534

Until Date of expiry.....31 March 2029

Conclusion

There is no material difference in the depleted reach between the current abstraction Licence and the requested amendment. Both the intake and the outfall structures are identical, and the abstraction volumes and rates are identical, consequently there can be no geomorphological effects and no environmental impact on the depleted reach which have not been previously permitted.