

Example of HIA appraisal supporting an application for a groundwater abstraction licence for a dewatering system at a housing development

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A temporary wellpoint dewatering system with mitigation measures to water resource impacts highlighted in HIA

As part of the application process for a groundwater abstraction licence, Stuart Wells undertook a Hydrogeological Impact Assessment (HIA). This assessment is a crucial component of an abstraction licence application in understanding the impacts of dewatering on the local hydrogeology and ensuring that the project complies with environmental regulations.

The HIA identified potential impacts on the water levels in the nearby Fishing Lakes. To mitigate any impacts, a T-junction with control gate valves was installed along the discharge line to allow the diversion of all or part of the discharge water back into the Fishing Lake. A strategy was established to monitor the water levels in the lakes and the licence was undertaken.





Objective

Phase 2 of the Taylor Wimpey housing development at Great Wakering required temporary dewatering to enable the construction of deep foul and storm pipeline sections where the excavation level is below aroundwater level.

Solution

The proposed dewatering required a groundwater abstraction and recharge licence. Stuart Wells undertook the <u>Hydrogeological</u> <u>Impact Assessment</u> and applied for the licence, which was subsequently approved allowing the dewatering to proceed.



| Services | Wellpoint Dewatering |
|--------------------|-----------------------|
| Location | Great Wakering, Essex |
| Industry | Utility |
| Max abstraction | 9lts/sec (788cum/day) |

