

Geological Survey of Ireland - Groundwater Programme Geological/GIS Consultancy: Groundwater Body Re-Delineation.

Introduction

The Groundwater Programme, Geological Survey of Ireland (GSI), currently requires a geologist with strong GIS knowledge to aid with the re-delineation of Groundwater Bodies (GWB), for the purposes of the Water Framework Directive (Planning Cycle II: Characterisation). This work will involve the re-evaluation of the existing map, with correction and amendment where required.

Background

In 2004, the GSI delineated and characterised GWBs as a first step to meet the requirements of the Water Framework Directive (WFD; refer to the website below).

The GWBs, which are the groundwater management unit of the WFD, were delineated according to a number of criteria (refer to the website below for the methodology). The status (quality and quantity) of the currently delineated GWBs are presently being monitored and reported on in Planning Cycle I of the WFD. As part of this process, a small number of issues with GWB boundaries have been identified.

Planning Cycle II of the WFD commenced in 2009. As part of this cycle, the existing GWBs will be reassessed to a) address the issues already identified, b) incorporate any new information and c) methodically check that the hydrogeological basis for each of the GWBs has been met.

This consultancy will be required to work with the members of the Groundwater Programme to amend the existing GWB map based on the above reassessment.

It is anticipated that this consultancy will amount to 60 days (3 consecutive months approximately), which will commence in April 2010.

For further information on the Water Framework Directive, refer to:
<http://www.wfdireland.ie>.

For further information on the GWB delineation methodology, refer to:
<http://www.wfdireland.ie/Documents/Characterisation%20Report/Background%20Information/Analysis%20of%20Characters/Groundwater/GW2%20Groundwater%20Body%20Delineation.pdf>.

To view the existing GWB map, refer to:
<http://spatial.dcenr.gov.ie/imf/imf.jsp?site=Groundwater>

For examples of the GWB descriptions, refer to:
<http://www.gsi.ie/Programmes/Groundwater/Projects/Groundwater+Body+Descriptions.htm>

Criteria

In order to fulfil this role, consultants would need a strong knowledge of:

- Arc ESRI GIS mapping suite
- Irish geology
- Full suite of Microsoft package

Desirable knowledge in:

- Irish hydrogeology
- WFD Groundwater Body delineation

As this is a government contract, the successful contractor must be able to provide a valid Tax Clearance Certificate.

Application

Applications should include:

- a current *Curriculum Vitae*
- a covering letter demonstrating that all of the criteria are met
- a fixed-price cost of the work outlined
- day and weekly rates for any additional work

Applications should be marked “**GWB Consultancy**”, and sent to the address below by Friday 19th March, 2010:

**Monica Lee
Groundwater Programme,
Geological Survey of Ireland,
Beggars Bush,
Haddington Road,
Dublin 4,
Ireland.**

Please note that the GSI is not obliged to accept either the lowest cost or any of the applications.