



# WSC

REQUEST FOR PROPOSAL

RFP #: TF – F2.H5

TITLE: WELL XXXXX FORECAST

CLOSING DATE AND TIME: October 19. 2018 @ 5:00 PM

# Well Forecast: TF – F2.H5

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## Background and Purpose

By responding to this Request for Proposal (RFP), the Proposer agrees that s/he has read and understood all documents within this RFP package.

## Submission Details

Responders to this RFP should supply:

- A business report up to 5 pages (not including cover page or table of contents), including any supporting plots and tables.
- The commented code (in a separate file) used to produce the results.

The report should address **all points described in the “Objective” section** below.

The report should be returned in the following way:

- Electronic (mailto: [jsimmo2@ncsu.edu](mailto:jsimmo2@ncsu.edu); Subject Line: Forecasting Well Water Data for Southern Florida)

## Objective

The US Department of Agriculture’s program on Water, Sustainability and Climate (hereafter the “Client”) is seeking proposals for predicting hourly well water height. The scope of services includes the following:

- Best model in explaining and predicting well water data in Southern Florida
  - Models are to be created at the hourly level
  - All information regarding any data manipulation needs to be included
- Prediction of one week of hourly data
  - For each well, the last week of data should be used as a test data set (24\*7)
  - Plot of forecasted versus actual well water for the test data
- Include relevant information about the final model
- Include information about white noise of the final model

## Data Provided

- The Client provided information about well water, rainfall and tidal information for the well of interest.