

ATTACHMENT 4.2: PROJECT DESCRIPTION GROUNDWATER LEVEL MONITORING IMPROVEMENTS

DETAILED PROJECT DESCRIPTION:

Summary:

Dedicated water level monitoring instruments will be installed in five existing wells located within the City of Hayward. Instrumentation will be capable of recording data locally at the well and of transmitting data to a centralized database for use by groundwater basin managers.

Project Description (Goals / Objectives, Needed Facilities, Location / Area Covered):

The City of Hayward owns and operates five production wells within their municipal boundary. The City will install monitoring probes in five of their existing wells. A project location map is included as Figure 2 in Appendix 1.

Currently, there is no equipment in place to automatically read and record water level data in the City of Hayward's monitoring wells. There is a need to install such a system within five of the City's wells, however, as it would allow for greater frequency of collection and further provide consistency with systems currently in place within EBMUD's monitoring network.

As noted, wells are currently in place. No new facilities are required as part of this project.

As part of this project, the City will perform the following tasks: Prepare plans and specification for the procurement and installation of monitoring probes; procure probes; field installation of monitoring devices; installation of software (on City of Hayward Computers) as necessary to translate monitoring data as collected; testing and translation of equipment; and preparation of a monitoring Technical Memorandum to document the work effort.

Quality and Usefulness of the Information Obtained:

Data collected will be used to record water level readings within the portion of the South East Bay Plain Basin that underlies their community. Automated equipment will enable to collect high quality time series data. Having this system in place will provide information to augment the existing CASGEM monitoring program underway in the basin and will also be used to manage groundwater pumping in this critical area of the basin.

Collaboration with Other Local Agencies with Regard to This Effort:

The Stakeholder group formed for the ongoing SEBP Basin GMP effort will be informed of the plans for probe installation. Data derived will be used to update the database and models prepared as part of the GMP, and will be beneficial to all stakeholders (EBMUD, City of Oakland, City of Alameda, the Port of Oakland, etc.).

Funding Consideration(s) Following Grant Completion:

The City of Hayward staff have ongoing responsibilities associated with well maintenance, operation, etc. and hence will make use of this new system for years to come. This effort is a budgeted staff responsibility.

EBMUD will work with the City of Hayward to supply well data from one of the instrumented wells to DWR as part of their CASGEM reporting responsibilities for the SEBP Basin. Water level and water quality readings as collected over the years from all of the wells will be collected / stored as part of the overall monitoring database prepared in keeping with GMP implementation.