

STAFF REPORT

To: Coastside County Water District Board of Directors
via David Dickson, General Manager

From: Joe Guistino

Agenda: August 10, 2010

Report

Date: July 5, 2010

Subject: Award of Contract for Denniston/San Vicente Flow
Measurements

Recommendation

Authorize staff to award a contract to Balance Hydrologics, Inc. for stream measurement and analysis tasks as presented below and in the attached document for a total not to exceed \$29,000.

Background

Accurate and reliable water flow measurements from Denniston and San Vicente Creeks are required in our effort to perfect our water rights for the Denniston Project. Our latest request for an extension of time to 2016 to perfect our rights is presently under review by the State Water Resources Control Board (SWRCB).

A thorough and accurate assessment of surface water flows in the Denniston and San Vicente Creeks is critical to determine what yields can be expected from these systems throughout the year. Balance Hydrologics has just completed the Midcoast Groundwater Study Phase III, which had a component to determine the relationship between stream flows and groundwater levels. The proposed contract scope (copy attached) would have them continue their stream assessments through 2010 to encompass dry season flows. It would also commission them to install a stream gauge upstream and downstream of our diversion structure on San Vicente Creek to allow a more complete understanding of the impact of irrigation on stream flows. Also in the scope of this contract would be a calibration and certification of our present flume on Denniston Creek upstream of the reservoir. This will then bring credibility to the measurements that we have been taking on this creek for many years.

Fiscal Impact

Cost of \$29,000, to be charged against CIP budget for water supply development.



**Balance
Hydrologics, Inc.®**

EXHIBIT A

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May 11, 2010

Mr. Joe Guistino
Coastside County Water District
766 Main Street
Half Moon Bay, CA 94019-1995

RE: Proposal to gage Denniston Creek, San Vicente Creek, and monitoring inactive wells, May through September 2010.

Dear Mr. Guistino:

Balance Hydrologics (Balance) has recently completed baseflow gaging at two stations on Pilarcitos Creek and groundwater monitoring in three Coastside County Water District (CCWD) inactive water wells for the Midcoast Groundwater Study Phase III (Woynshner and others, 2010). Figure 1 identifies the locations of the CCWD wells and Denniston Creek gaging stations. You have requested that we provide you with a scope and costs for continued monitoring during dry-season baseflow recession 2010 – May through October. In addition, you have asked us to gage San Vicente Creek and to calibrate the CCWD flume on Denniston Creek above the reservoir.

It is our understanding that you seek this information for:

- CCWD's own planning, to evaluate when and how much flow may be available for diversion and for environmental flows
- Regulatory purposes, including both water-supply permitting and water-rights support
- Protection of CCWD's use of water from Denniston sources in light of increasing pumpage from and use of the Airport Aquifer.

To address the objectives of this work, we have scoped work in bundles as summarized in the following task list:

1. *Gaging of both stations on Denniston Creek utilizing equipment currently installed*
2. *Installation and gaging of the CCWD flume site on Denniston Creek and on San Vicente Creek*
3. *Groundwater monitoring*
4. *Water year 2010 reporting*
5. *Water years 2008 and 2009 reporting*
6. *Consultation with biologist (Jim Steele)*
7. *Project administration*

The next several paragraphs elaborate on this work proposed. Please note that access to the upper station on Denniston Creek has been via Cabrillo Farms and requires permission from David Lea.

Work Scope

Task 1. Gaging of both stations on Denniston Creek utilizing equipment currently installed

The equipment currently installed at both stations on Denniston Creek consists of a Solinst F15 Levelogger and a Watermark style "A" staff plate, both attached to a T-post in a channel pool. We programmed the leveloggers to measure and log water depth and temperature every 15 minutes. We consider this a minimal gage install with no redundancy.

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Task 4. Water year 2010 reporting

We will summarize and interpret the hydrologic findings in a water year 2010 report. The written report will include a summary form for each station tabulating the daily mean data and identifying station descriptors and plots of the data and rating curves. We will also include previous record we have on file for Dendiston Creek and San Vicente Creek from water year 1999 and any inferences to our recent gaging.

Deliverable: Report pdf and one bound hard copy.

Cost: \$6,000

Task 5. Water years 2008 and 2009 reporting

Data from water years 2008 (dry season only) and 2009 for the lower Denniston Creek gaging station was collected and prepare for the Resource Conservation District (RCD), and recently for your use. The additional record will assist your with your water rights and correlation with the USGS Pilarcitos Creek gage. The RCD budget for this work was frozen as part of the State budget crisis. We propose CCWD cost share with the RCD for this data. We will review and potentially revise the data worked up for water years 2008 and 2009 based on additional data collected during water year 2010.

Deliverable: Daily mean flow forms for water years 2008 and 2009 (revised)

Cost: \$4,000

Task 6. Consultation with biologist (Jim Steele)

This task simply provides a nominal amount of time for correspondence with Jim Steele.

Cost: \$2,900

Task 7. Project administration

This task simply provides time to help schedule and administer project in a way that best helps you and us regularly track schedule and budget.

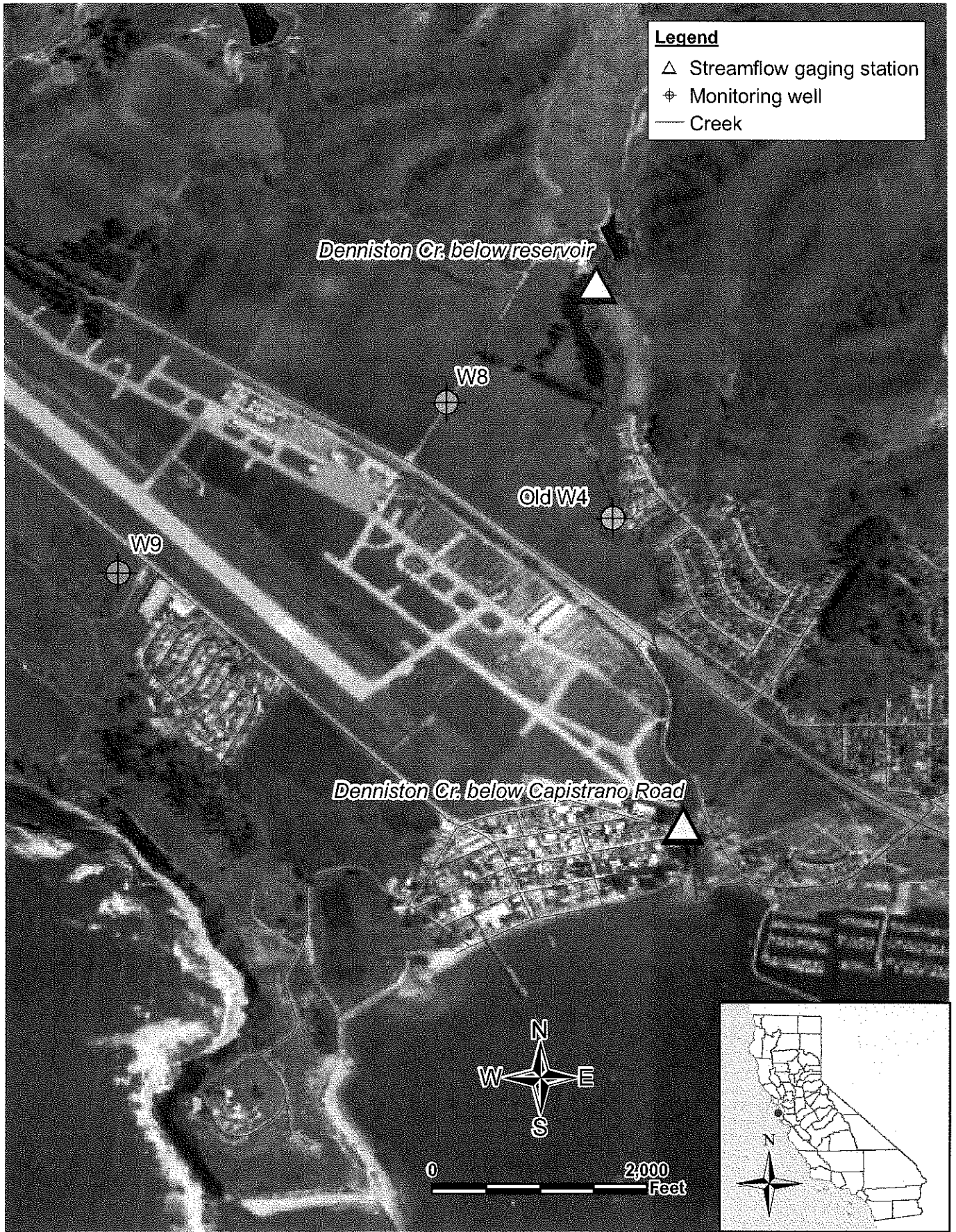
Cost: \$1,000

Anticipated Costs

We have tasked our work to assist you with you decision on which level of effort fits your needs and budget. The total cost for all seven tasks is \$29,000. After reviewing the costs, please let me know if they are in line with your expectations. Although we have made out best effort to provide an accurate estimate to you, our work is done on a time-and-expense basis, so costs could be somewhat higher or lower than these estimates.

Anticipated Schedule

We are prepared to conduct the proposed work immediately. The first site visit is proposed for the first week in May.



**Balance
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210057 monitoring proposal.mxd

Figure 1. Proposed monitoring stations, Coastside County Water District, San Mateo County, California.