

ATTACHMENT 3. STATUS OF GWMP

Carpinteria Valley Water District Carpinteria Groundwater Basin Sentry Well Project

The Carpinteria Valley Water District formally adopted a Groundwater Management Plan, pursuant to the Groundwater Management Act (Water Code, SS 10750 et. seq.) on August 14, 1996, Resolution Number 670. The District's Groundwater Management Plan remains in effect. A copy of Resolution No. 670 is presented below, and a portion of the GWMP, which includes the cover, the table of contents, and the executive summary, is attached.

The purpose of GWMP is to provide for systematic monitoring and analysis of groundwater levels and water quality in the Carpinteria Groundwater Basin. The goal of the GWMP is to provide a management tool which will allow for an informed decision-making process relative to possible groundwater management actions in order to maintain the groundwater basin as a sustainable drinking water resource for all.

In an effort to manage the basin in the most effective manner, the GWMP identified the following action elements to be implemented:

1. Inventory all private and public wells within the basin boundary;
2. Monitor groundwater level and quality;
3. Creation of a database and reporting system for groundwater data;
4. Identification and monitor of recharge areas;
5. Implementation of a sanitary seal retrofit program;
6. Implementation of a well abandonment and destruction program;
7. Dissemination of public information relative to the Plan.

Presented below is a summary of how the action elements have been implemented since adoption of the GWMP:

Inventory of Wells. Physical well information collection efforts (well inventory) have been ongoing since the adoption of the GWMP. Much of the information collected has been in the form of paper records, however some efforts have been made to transfer summary data to MS Excel tables. Some of the information collected to date includes well owner, driller's log, State ID, location, active/inactive status, photos, casing diameter, and in some cases motor size.

Monitoring Groundwater Levels and Water Quality. The District has been monitoring groundwater levels every other month since the adoption of the GWMP. Additionally, twice annually water quality analysis is done on 30 wells throughout the District. This data is digitally catalogued by the District and used to assess the basin health annually.

Creation of a Database and Reporting System. In 2002 as part of the Wellhead Protection Demonstration Project (destruction of abandoned wells and wells with no sanitary seals), the District reviewed current available records and conducted a limited field investigation to map private wells on a Geographic Information System (GIS). Nearly 300 wells were

identified to have existed at one time and 110 were located in the field. Data was collected on the abandoned wells in order to prioritize the destruction of abandoned wells. The mapping effort in a GIS environment allowed the District to set up a geo-referenced database for well information. As the District continues to gather additional well information, it has a central database location for storing that information. As the information availability and uses expand, the data structure can also be expanded and tailored to the needs of the groundwater management efforts.

Identification and Monitoring of Recharge Areas. The Recharge area for the basin has been identified in the GTC Groundwater reports of 1976 and 1986 as well as in the Groundwater Management Report. Monitoring of the recharge area is done on an ongoing basis through the annual land use study, field inspections and development review process.

Implementation of a Sanitary Seal Retrofit Program. The District has not conducted a structured program for this item as of yet because it does not appear from existing data that there are many wells that fall in this category; however, the District actively works with the County Environmental Health Department to identify these types of wells and enforce the County Well Standards.

Implementation of a Well Abandonment Program. In 2002, the District implemented the Wellhead Protection Demonstration Program. This Program identified the magnitude of the problem of improperly destroyed wells. Nearly 80 wells that were questionable were identified. Five of the worst wells were selected and destroyed. The program is still active.

Dissemination of Public Information Relative to the Plan. Annually the District produces a report on the health of the basin and the groundwater activities of the District. Additionally, the District from time to time will hold workshops or contribute to other workshops related to groundwater in the region. The District is in the process of developing a Well Owner's Handbook.

In addition to implementing the various action items identified in the GWMP, numerous other accomplishments have occurred with respect to the CGB since adoption of the GWMP, including:

- UCSB Study and Modeling Effort, January 15, 1997
- Development of the Groundwater Basin Data Collection Program, December 16, 1998
- First Annual Report (for 1999) of the Carpinteria Groundwater Basin, April 26, 2000
- Draft Technical Memorandum: Aquifer Storage and Recovery (ASR) Fatal Flaws Analysis, September 2000
- Groundwater Committee Workshop Relative to Nitrate Loading, March 10, 2001
- Perennial Yield Review of the Carpinteria Groundwater Basin, February 2003
- 2003 LGA Funded Wellhead Demonstration Program Report Submitted To DWR, May 2005

- 2003 LGA Funded ASR Demonstration Program Report Submitted To DWR, May 2005
- 2007 LGA Funded CGB Hydrogeologic Update and Model Development Draft Report Completed, June 2012

The GWMP was developed through a series of Groundwater Management Workshops and Committee Meetings, as well as regular Board of Directors Meetings. The District's Board of Directors is composed of members of the public elected to the Board to represent basin stakeholders in basin management decision-making. As such, basin stakeholders were involved in the development, as well as the ongoing implementation, of the GWMP. The unanimous adoption of the GWMP by the Board is a testament to the support among basin stakeholders for the GWMP. In addition, workshops and meetings were, and are, publicly noticed and open to interested members of the public. Members of the public have the opportunity to provide comments and ask questions at these workshops and meetings that occur during the development and implementation of the GWMP. Documentation supporting collaboration with the public and other local public agencies with regard to management of the CGB is attached.

The GWMP fosters a cooperative effort between the stakeholders of the Carpinteria Groundwater Basin to responsibly manage the valuable resource of local groundwater. The GWMP provides a blueprint of groundwater management activities including; data collection, data analysis, dissemination of information, and other activities to aid the overall objective of managing the basin in a responsible manner consistent with sound geologic and hydrologic principals. Presented below is a brief description of how the GWMP addresses specific issues and components of groundwater management:

- *Control of saline water intrusion:* Although the principal aquifer system in the Carpinteria Groundwater Basin (Storage Unit No. 1) is believed to be hydraulically isolated from the Pacific Ocean by the Rincon Creek Thrust Fault (see the hydrogeologic cross-section presented in Section B.3), the GWMP addresses the potential for saline water intrusion through the collection of water level data to ensure a positive (seaward) groundwater gradient and water quality data (specifically chloride ion) to monitor/detect any evidence of intrusion at coastal wells.
- *Wellhead protection and recharge areas:* Action Element No. 4 of the GWMP requires the identification and monitoring of basin recharge areas. Monitoring of the recharge areas is done on an ongoing basis through the annual land use study, field inspections and development review process.
- *Regulation of the migration of contaminated groundwater:* Not applicable. Regulation of contaminated groundwater in the basin is performed by the County of Santa Barbara, Fire Prevention Division.
- *Administration of well abandonment and destruction program:* Action Element No. 6 of the GWMP is the implementation of a well abandonment program. In 2002, the

District implemented the Wellhead Protection Demonstration Program. This Program identified the magnitude of the problem of improperly destroyed wells. Nearly 80 wells that were questionable were identified. Five of the worst wells were selected and destroyed. The program is still active; however, no additional wells have been destroyed since 2003.

- *Mitigation of conditions of overdraft:* Action Element No. 2 of the GWMP involves the bi-monthly collection of water levels and water storage conditions are evaluated as part of developing the annual GWMP reports.
- *Replenishment of groundwater extracted by water producers:* This issue is not directly addressed by the GWMP; however, as noted previously, the District has been evaluating the potential for improved conjunctive use of the basin since 2000. In particular, the District performed an ASR demonstration project under a previous AB303 Grant in 2003.
- *Monitoring of groundwater levels and storage:* Action Element No. 2 of the GWMP specifically involves the bi-monthly collection of water levels and basin health (i.e., water storage conditions) is evaluated as part of developing the annual GWMP reports.
- *Facilitating conjunctive use operations:* This issue is not directly addressed by the GWMP; however, as noted previously, the District has been evaluating the potential for improved conjunctive use of the basin since 2000. In particular, the District performed an ASR demonstration project under a previous AB303 Grant in 2003.
- *Identification of well construction policies:* Action Element Nos. 5, 6, and 7 all relate to issues of ensuring proper well construction in the basin. Element No. 5 involves the implementation of a sanitary seal retrofit program and specifically references California Well Standards – Bulletins 74-81 and -90, excerpts from which are included as Exhibits C and D in the GWMP. Element No. 6 involves implementation of an abandoned well program to ensure proper well destruction in accordance with State and County requirements. Element No. 7 involves the preparation of a Well Owners Handbook to include information regarding proper well construction and destruction procedures.
- *Construction and operation of various groundwater projects:* Not applicable. The GWMP does not address this issue.
- *Development of relationships with state and federal regulatory agencies:* Not applicable. The GWMP does not address this issue.
- *Review of land use plans and coordination with land use planning agencies to assess activities which create a risk of groundwater contamination:* Action Element No. 4 involves the identification and monitoring of basin recharge areas to identify potential threats caused by pollution of the recharge area. This includes the performance of land use surveys as part of each GWMP Annual Report.