



PLUM CREEK
CONSERVATION
DISTRICT

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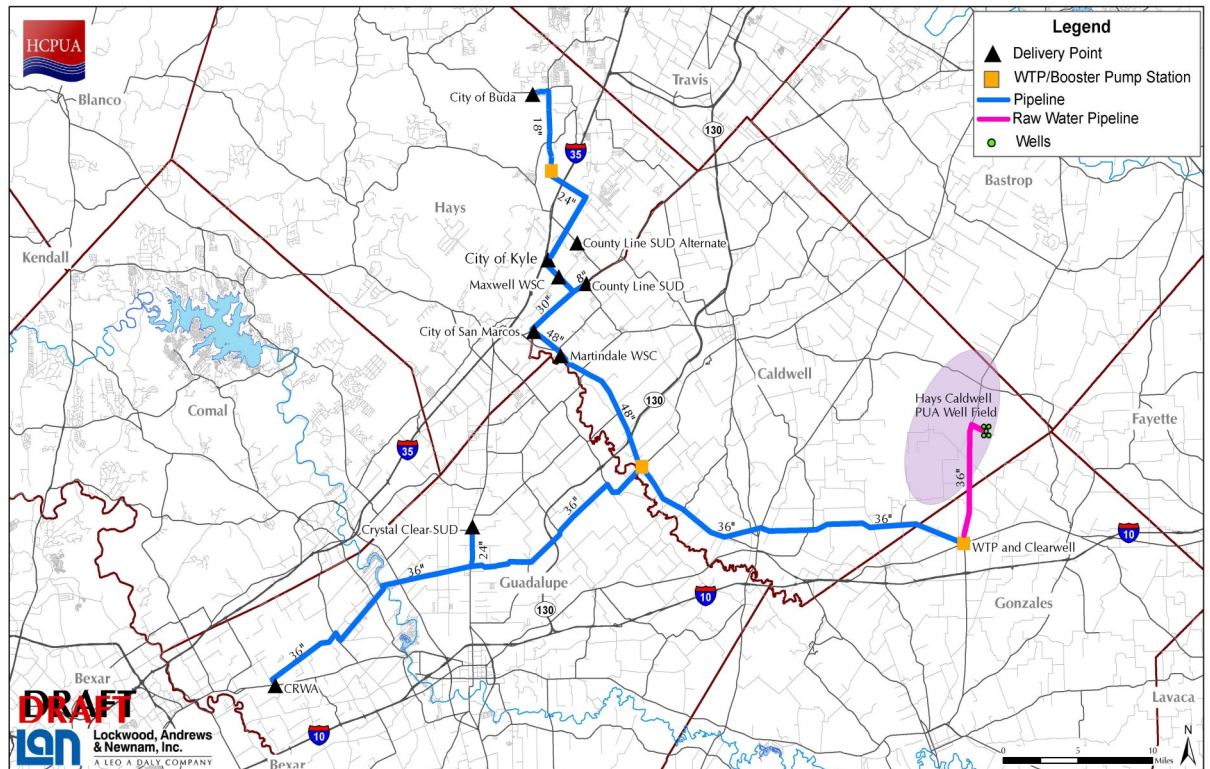
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HCPUA PERMIT APPROVED

After two years in the making, beginning in 2015, the Plum Creek Conservation District (PCCD) Board of Directors approved a permit for two public water supply wells to produce and transport up to a total of 4,700 acre feet of water per year to the members of the Hays Caldwell Public Utility Agency (HCPUA). HCPUA was created by legislation back in 2007 for the purpose of resolving long term water needs for its members (San Marcos, Kyle, Buda, and Canyon Regional Water Authority). Below is a map showing the anticipated location of the wells, storage facilities, and pipeline. A major consideration involved in the permitting process was the requirement of a mitigation plan. The plan would allow PCCD landowners with registered wells a vehicle to address any adverse water supply impacts possibly due to HCPUA pumping. In addition, the installation of two monitoring wells will be required in order to monitor Desired Future Condition (DFC) compliance and assist with any mitigation cases. One of the requirements for mitigation eligibility is the registration of one's well before HCPUA's #1 well is drilled and completed. Because a portion of the produced water will be delivered outside of the District, an export fee will be imposed on a percentage of the permitted groundwater. HCPUA's well #1 is scheduled to be online by the year 2023 and HCPUA's #2 well by 2030.

HCPUA Project Map - Phase 1B-1D

7/21/2014



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Lockwood, Andrews & Newnam, Inc. makes no representations or warranties regarding accuracy or completeness of the information depicted on this map or the data from which it was produced. This map is NOT suitable for survey purposes and does not purport to depict or establish boundaries between land owners or locations of utility infrastructure where survey data is available and field locations have been established.

2016/ 2017 Water Levels

The table below shows water levels for 9 wells that were measured in the Winter & Spring of 2016/2017, respectively, along with their corresponding lowest recorded water level. If you are interested in finding out the water level in your well and how it compares to other wells in the area, contact us to schedule a time to measure your well. A complete listing of PCCD water levels can be found on our website at www.pccd.org

Well	Winter 2016/2017 Levels	Lowest Recorded Level
Kosarek	- 46.1	- 50.8
Larsen	- 18.90	- 22.8
Lipscomb	- 86.35	- 93.9
Lockhart #8	- 79.1	- 108.0
McCormick #2	- 65.20	- 71.00
McCormick #1	- 70.50	- 71.75
Collier	- 63.95	- 70.6
6712111	- 49.77	- 64.4
Wells	- 79.95	- 90.35

**2016/2017
Water Levels**

GMA 13 approves DFCs

After holding multiple hearings on the proposed Desired Future Conditions (DFCs), Groundwater Management Area (GMA) 13 members* adopted, by resolution, the DFCs (see DFCs listed below) at its November 21, 2016 meeting.

These adopted DFCs have been sent, along with an explanatory report, to the Texas Water Development Board (TWDB) for “administratively complete” determination. Following meeting the TWDB “administratively complete” requirements, the DFCs will be returned to each district of GMA 13 for approval. Once approved, each district is required to incorporate the DFCs into their rules and management plan.

GMA 13’s DFCs focus on two particular aspects. One, they look at the average water level draw down for all of the designated aquifers (Wilcox, Carrizo, Weches, Sparta, and Queen City) within GMA 13, and secondly, they look at the percentage of the aquifers’ saturated thicknesses for outcrop (unconfined) areas. A major DFC compliance aspect will be to develop a network of monitoring wells both in outcrop areas, as well as down dip (confined) portions of the aquifers.

* **GMA 13:** Plum Creek Conservation District, Gonzales County Underground Water Conservation District, Uvalde County Underground Water Conservation District, Evergreen Groundwater Conservation District, Wintergarden Groundwater Conservation District, McMullen County groundwater Conservation District, Guadalupe County Groundwater Conservation District and Medina County Groundwater Conservation District.

GMA 13 DFCs

The first proposed desired future condition for the Carrizo-Wilcox, Queen City and Sparta aquifers in Groundwater Management Area 13 is that 75 percent of the saturated thickness in the outcrop at the end of 2012 remains in 2070. This desired future condition is considered feasible despite model predictions to the contrary as detailed in GMA 13 Technical Memorandum 16-08.

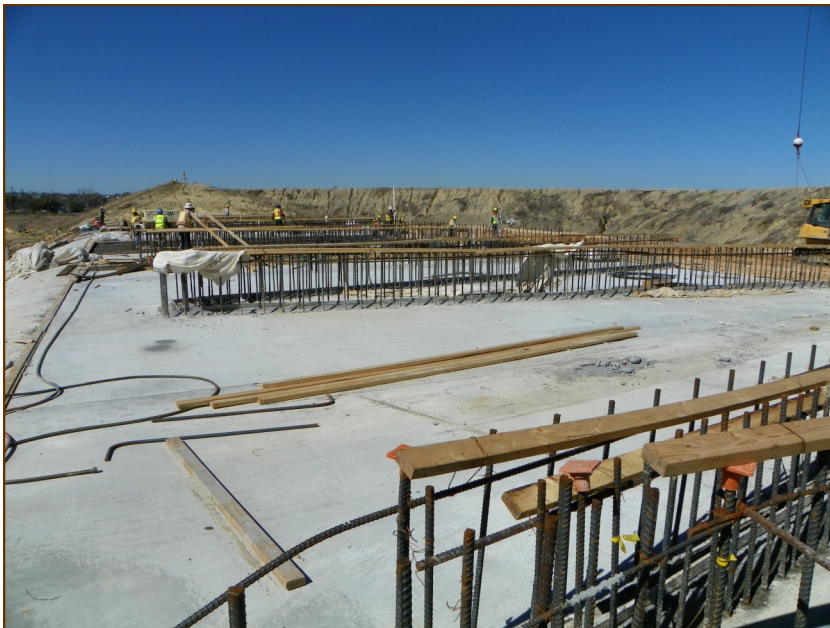
In addition, a secondary proposed desired future condition for the Carrizo-Wilcox, Queen City, and Sparta aquifers in Groundwater Management Area 13 is an average drawdown of 48 feet for all of GMA 13. The drawdown is calculated from the end of 2012 conditions to the year 2070. This desired future condition is consistent with Scenario 9 as detailed in GMA 13 Technical Memorandum 16-01 and GMA 13 Technical Memorandum 16-08.

**GMA 13
Approves DFCs**

Site 6 Rehab Project Update

Steady progress is ongoing in the rehabilitation of PCCD's Site 6 dam with the projected completion date to occur sometime in the fall of 2017. The project was initiated in order for Site 6 to become compliant with the Texas Commission on Environmental Quality's regulations that require all "high hazard" dams to be upgraded in order to withstand a Probable Maximum Flood (PMF) event. The Site 6 rehabilitation project, being constructed by Archer Western, involves a unique labyrinth weir design.

The primary function of a labyrinth weir is to allow for the release of waters during critical flood stages. Its labyrinth walls, which are laid out in an "accordion" type pattern, take up less space compared to an auxiliary spillway of a traditional earthen dam. Because Site 6 had space limitations on account of being virtually surrounded on all 3 sides by roads, houses and businesses, a labyrinth weir design was chosen by the engineers. In addition to Site 6, four



The initial construction of site 6's labyrinth weir walls.

other "high hazard" dams (Sites 10, 12, 21 and 28) are being considered for rehabilitation.

EWP Funding for 2015 Floods

Due to the flooding that occurred back in 2015 and the subsequent damage that resulted to Plum Creek Conservation District's (PCCD) dams, the District has applied for flood relief funding through the Natural Resources Conservation Service's (NRCS) Emergency Watershed Protection (EWP) program. The program is designed to help people and conserve natural resources by relieving imminent hazards to life

and property caused by floods and other natural occurrences. With the EWP program NRCS financially bears up to 75% percent of the construction costs, while sponsors, such as PCCD, are responsible for the remaining portion. PCCD has submitted EWPs for 6 dams (sites 2, 5, 7, 10, 11, 12, and 14) that request the assistance for debris removal and erosional damage repair. The District has recently published bid notices for their EWP projects and anticipates work beginning hopefully by June.



Significant erosional damage along the face of the upstream embankment for Site 12 following the 2015 flood.