

AGENDA ITEM REQUEST FORM

Hays County Commissioners Court

Tuesdays at 9:00 AM

Request forms are due in Microsoft Word Format via email by 2:00 p.m. on Wednesday.

AGENDA ITEM

Discussion and possible action to authorize execution of an Interlocal Funding Agreement and Memorandum of Understanding between Hays County and the Hays Trinity Groundwater Conservation District related to monitoring of groundwater within that district and amend the budget accordingly.

ITEM TYPE	MEETING DATE	AMOUNT REQUIRED
ACTION-MISCELLANEOUS	August 15, 2017	\$50,000 - FY17 \$50,000 - FY18

LINE ITEM NUMBER

001-895-98-331.5800

AUDITOR USE ONLY

AUDITOR COMMENTS:

PURCHASING GUIDELINES FOLLOWED: N/A **AUDITOR REVIEW:** MARISOL VILLARREAL-ALONZO

REQUESTED BY	SPONSOR	CO-SPONSOR
	CONLEY	WHISENANT

SUMMARY

As part of the comprehensive Hays-County-wide groundwater monitoring effort, this proposed ILA/MOU is designed much like the agreement executed between Hays County and BSEACD last year. This agreement covers the Hays Trinity in the western parts of Hays County. It proposes the installation of 4 groundwater monitoring wells.

Potential Funding Source for FY17:
County Wide Misc Capital Improvements

Funds for the FY18 commitment have been included in the County Judge's Recommended budget.



Hays Trinity Groundwater Conservation District

Dedicated Monitoring Well Project in Western Hays County

Rick Broun: HTGCD General Manager
June, 2017



Hays Trinity Groundwater Conservation District

Promoting conservation, preservation, recharge & prevention of groundwater waste within western Hays County

Mail to: PO Box 1648, Dripping Springs, Texas 78620 Physical: 14101 Hwy 290 West, Bldg 100, Ste 212, Austin, Texas 78737
Tel: 512-858-9253 Fax: 512-858-2384
www.haysgroundwater.com

June, 2017

Dedicated Monitoring Well Project in Western Hays County

Dear Hays County Commissioners,

The Hays Trinity Groundwater Conservation District (HTGCD) has initiated a project to drill, evaluate and monitor four dedicated wells in western Hays County. The primary goal of the project is to record and analyze water levels and water quality in selected Trinity sub-aquifers. The well locations will be selected for hydrogeologic merit in active, sensitive sites to improve district and regional (GMA 9) groundwater management capabilities. Project data will be made available to support the TWDB revision of the Hill Country Trinity Groundwater Availability Model (GAM).

Data recording transducers will be installed in each well and each will contain a submersible pump for periodic water quality sampling and analysis. The wells will be thoroughly evaluated during drilling with operations including: geophysical logging, sampling, cored intervals, pumping tests and completion techniques designed to isolate specific sub-aquifers. Each well will have a unique assignment to both gather data during drilling (an exploration goal) and to carefully monitor specific intervals through time (a development goal). The District will partner with neighboring groundwater conservation districts, the TWDB, local universities and other agencies. Data will be made available online on the HTGCD website.

The HTGCD currently monitors 49 wells in western Hays County. Data capture methodology includes monthly e-line, quarterly transducer and daily telemetry satellite methods. All data is made available to the public online expressed as hydrographs recording water level measurements vs. time. The boreholes used for monitoring are from volunteer well owners and most are from active pumping wells. Over the past 10 years the District has lost access to 13 wells due to property sales or land owner priorities. The interpretation and projection of water level trends in an aquifer require long term data gathering for viable analysis. Through the use of dedicated wells the District, GMA 9 and the community will benefit from long term uninterrupted coverage.

The projected costs involved in the drilling and acquisition phase of the project will depend on the depth of the well and the extent of the data collection. Additional costs will involve site logistics and preparation, ongoing maintenance and periodic sampling/geochemical analysis. Manpower will be supplied by the HTGCD and volunteers. We request \$100,000 in funding from Hays County to be granted over a two year period: 2017 & 2018. Dripping Springs Water Supply Corp has generously donated \$30,000 for a Middle Trinity dedicated monitor well near their well field (\$25K for operations and \$5K for monitoring equipment). District partners including BPGCD & BSEACD, will assist with formation evaluation expertise and equipment. We anticipate additional assistance from TWDB, local universities and volunteers. Grants may also be available on a site by site basis.

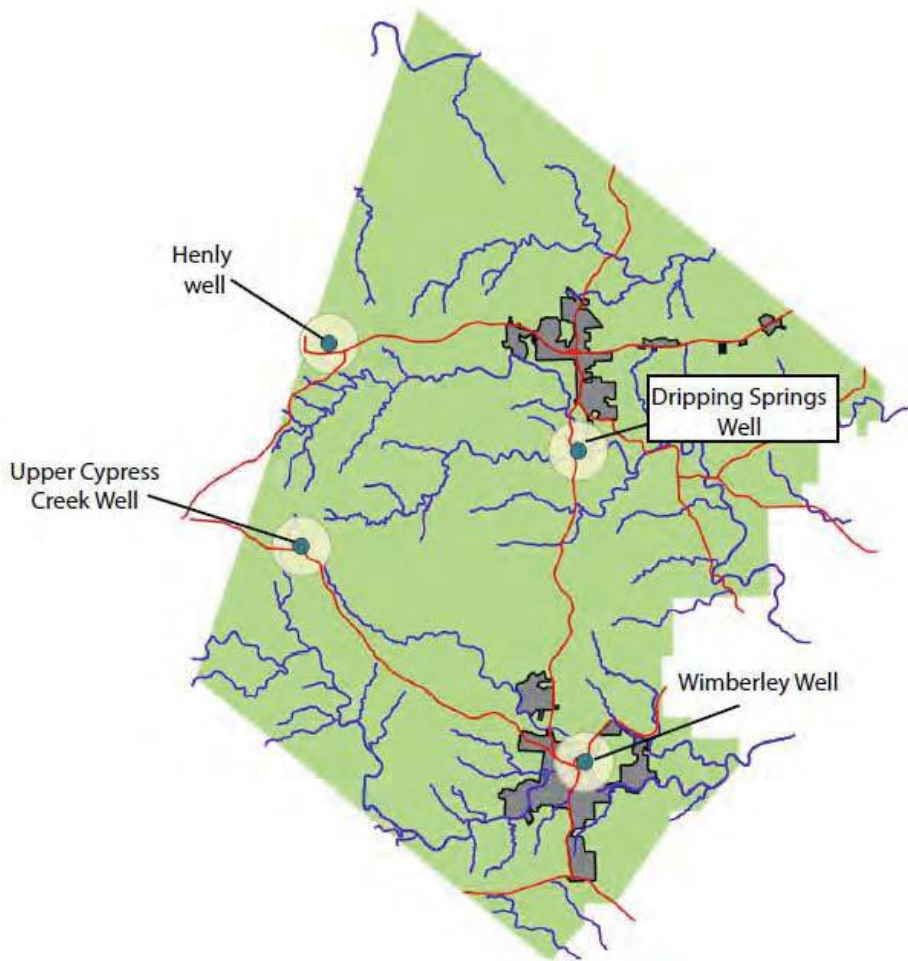
Cost of Four Dedicated Monitor Wells: \$180,000

Hays County \$100,000
HTGCD \$80,000 (includes \$30,000 from donations)

In addition beginning in 2018, HTGCD will budget \$5,000/year for maintenance, water sampling and geochemical analysis. Project expenditures will be reported on a yearly basis.

Respectfully,

Rick Brown
HTGCD District General Manager



Drilling Schedule for HTGCD Dedicated Monitoring Well Program

Dedicated Wells	2017	2018
Skipton (Henly) Well	site logistics/planning July-August * operations completion report **	on-going water sampling & interpretation
Dripping Springs Well	August-September * operations completion report **	on-going water sampling & interpretation
Wimberley Well		April * operations completion report **
Cypress Creek Well		May * operations completion report **

*2 week period includes total drilling, testing, site clean up. operations

**Completion report: test data analysis, geophysical log interpretation, and geochemistry water quality