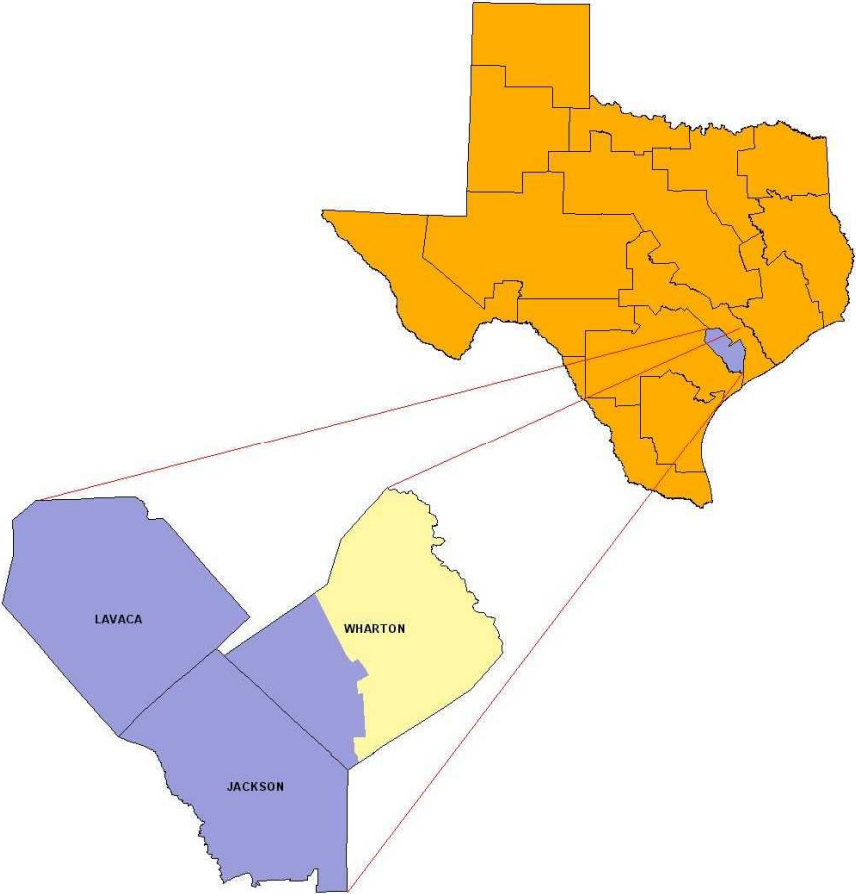


# LAVACA REGIONAL PLANNING GROUP



**APPLICATION TO THE  
TEXAS WATER DEVELOPMENT BOARD  
REQUESTING GRANT FUNDS TO DEVELOP A  
REGIONAL WATER PLAN FOR THE LAVACA  
REGIONAL WATER PLANNING AREA**

**I. GENERAL INFORMATION**

- 1. Legal name of applicant(s).

Lavaca-Navidad River Authority
- 2. Regional Water Planning Group:

Lavaca Regional Water Planning Group
- 3. Authority of law under which the applicant was created.

Lavaca-Navidad River Authority is a body politic and corporate created by the Texas Legislature and existing pursuant to article XVI, Section 59 of the Texas Constitution and a series of acts formerly compiled as Article 8280-131, Vernon's Annotated Texas Civil Statutes
- 4. Applicant's official representative, Name, Title, Mailing address, Phone number, Fax number, if available, E-mail Address, and Vendor ID Number.

Patrick Brzozowski, General Manager  
Lavaca-Navidad River Authority  
P.O. Box 429  
Edna, Texas 77957-0429  
Phone No. 361.782.5229  
Fax No. 361.782.5310  
Email [info@lnra.org](mailto:info@lnra.org)  
Vendor ID No. 74-1600109
- 5. Is this application in response to a Request for Proposals published in the Texas Register?

Yes  No
- 6. If yes to No. 5 above, list document number and date of publication of the Texas Register.

Texas Register Document No. 200603279, published June 23, 2006
- 7. Type of proposed planning:

Initial scope of work	<input checked="" type="checkbox"/>
Development of a regional water plan	<input type="checkbox"/>
Revision of a regional water plan	<input type="checkbox"/>
Special studies approved by TWDB	<input checked="" type="checkbox"/>
- 8. Total proposed planning cost.

\$250,900
- 9. Cash Contribution to the study.

No funds are currently identified to assist with the proposed study.
- 10. List source of cash contribution, explanation of source of local cash contribution.

N/A
- 11. Total grant funds requested from the Texas Water Development Board.

\$250,900
- 12. Detailed statement of the purpose for which the money will be used.

Funding special studies to better define issues relating to the investigation of updated groundwater availability, updating of agricultural irrigation demands, investigation of spring flows in the area, the addition of plan amendments to allow for new water supplies, and public outreach and administration.

- 13. Detailed description of why state funding assistance is needed.

The cities in the region would normally be the candidates for providing local matches for area needs, but the needs of the cities for water supply are met throughout the 50-year planning horizon from the available groundwater supplies and are substantially less than the demands of agriculture. Therefore, the burden of exploring the development of water supplies to meet future needs falls upon agricultural producers that are unable to develop the significant amounts of capital required for matching shares to fund a conventional matching grant application.

In view of the above, the Lavaca Regional Water Planning Group is requesting that 100 percent of the technical work be funded for this study in the same manner in which the technical work was funded in previous studies.

- 14. Identify potential sources and amounts of funding available for implementation of viable solutions resulting from proposed planning.

The Natural Resource Conservation Service matching funds for conservation improvements. Texas Water Development board loan fund.

## **II. PLANNING INFORMATION**

- 15. A detailed scope of work for proposed planning.

The major scope items proposed for this planning process are listed below. Please see **Appendix A** for a detailed description of these tasks.

1. Groundwater Availability Determinations
2. Review and Update Demand information for Rice Irrigation
3. Investigation of Springflows
4. Changed Conditions/Plan Amendments
5. Public Outreach/Administration

- 16. Prioritization of scope of work tasks by the regional planning group.

The scope items presented in **Appendix A** and above are listed in the priority order assigned by the LRWPG.

- 17. A task budget for detailed scope of work by task.

Please see **Appendix B**.

- 18. An expense budget for detailed scope of work by expense category.

Please see **Appendix C**.

- 19. A time schedule for completing detailed Scope of Work by task.

Please see **Appendix D**.

- 20. Specific deliverables for each task in Scope of Work.

Deliverables for the scope items are presented with each scope item in **Appendix A**.

- 21. Method of monitoring study progress.

Progress reports to the TWDB, Regional Planning Group, and Lavaca-Navidad River Authority.

- 22. Qualifications and direct experience of proposed project staff.

Please see **Appendix E**.

### **III. WRITTEN ASSURANCES**

Written assurance of the following items:

- Proposed planning does not duplicate existing projects;  
The proposed planning does not duplicate existing projects.
- Implementation of viable solutions identified through the proposed planning will be diligently pursued and identification of potential sources of funding for implementation of viable solutions;  
Securing funds for water projects in the Lavaca Region is especially difficult due to the way that the only unmet needs have been identified within agricultural users who are least capable of funding major projects. The completion of the proposed scope items will allow a better definition of users who would stand to benefit from such projects and where funding may be secured for implementing the recommended strategies.
- If a grant is awarded, written evidence that local matching funds are available for the proposed planning must be provided when the contract is executed.  
Due to the reason given above, the Lavaca Regional Water Planning Group requests funds for these studies without local matching funds.

### **IV. PROOF OF NOTIFICATION**

- Proof of notification

Develop or revise regional water plans. Eligible applicants requesting funds to develop or revise regional water plans must, not less than 30 days before board consideration of the application, provide notice that an application for planning assistance is being filed with the executive administrator by:

- (1) publishing notice once in a newspaper of general circulation in each county located in whole or in part in the regional water planning area; and
- (2) mailing notice to each mayor of a municipality with a population of 1,000 or more or which is a county seat and that is located in whole or in part in the regional water planning area, to each county judge of a county located in whole or in part in the regional water planning area, to all districts and authorities created under Texas Constitution, Article III, §52, or Article XVI, §59, located in whole or in part in the regional water planning area based upon lists of such water districts and river authorities obtained from Texas Commission on Environmental Quality, and all regional water planning groups in the state.

The notice must include the following:

- Name and address of applicant and applicant's official representative;
- Brief description of proposed planning area;
- Purpose of the proposed planning;
- Texas Water Development Board Executive Administrator's name and address; and
- Statement that any comments on the proposed planning must be filed with the applicant and the Texas Water Development Board Executive Administrator within 30 days of the date on which the notice was mailed.

The Lavaca-Navidad River Authority has complied with this requirement. Copies of the notices can be found in **Appendix F**.

**APPENDIX A**  
**PRIORITIZED SCOPE OF WORK**

The Texas Water Development Board has published the guidelines for the next round of regional planning and announced the availability of grant funds to accomplish specific tasks within the regional planning process. The Board also requested the submission of grant applications from each of the regional planning areas to perform additional tasks during this funding round as long as they fit into one of the following categories:

1. Evaluation of new water management strategies in response to changed conditions;
2. Studies that will further implementation of recommended water management strategies;
3. Refinement of water supply information or water management strategies;
4. Activities that will help overcome problems from the last round of planning;
5. Further evaluation of water management strategies, especially regional solutions, to meet needs in small communities or rural areas;
6. Reevaluation of population and demand projections only under the presence of changed conditions;
7. Interregional coordination; and
8. Administrative and public participation activities.

This scope is being prepared for the Lavaca Regional Water Planning Group (LRWPG) as a part of the grant application process and also to be included in the public deliberation process. Each specific scope item has been outlined below to include: 1) a statement of the problem or issue, 2) an explanation of how this item corresponds to the allowable categories listed above, 3) an outline of the specific activities required, and 4) a list of the desired outcome or deliverables expected.

## **Scope Item Number 1 - Groundwater Availability Determinations**

### Statement of the Problem/ Issue

One of the critical issues from the last round of water planning was the lack of completion of the Upper and Middle Gulf Coast GAMs until late in the planning round and the subsequent questions which were raised about those GAMs as a result of the differences between them in Wharton County. While the decision was made to use the Middle Gulf Coast GAM, there was not time to really evaluate it, since the completion came well after the supplies were established and the Planning Group was working on strategies. In addition, there is a new model being developed as part of the LCRA/SAWS Water Project (LSWP) that is more focused on Wharton and Matagorda Counties, and which may more accurately predict potential draw down of the aquifer in response to the overdraft conditions in the Lavaca Region during droughts. Another area of concern is the potential for changes in water quality as a result of additional pumping, particularly in the southern reaches of Jackson County, and in some localized areas in Lavaca County. For all of the reasons noted above, a reevaluation of the available groundwater supply is needed.

### Allowable Board Category

The issues noted above correspond to No. 3, Refinement to water supply availability. It also corresponds to No. 4, overcoming problems noted in the last round, namely the lack of a usable model at the time the availability numbers were generated and the questions about LSWP that the modeling effort in that study was not far enough along to address, and it also corresponds to No. 7, Interregional Coordination, since Wharton County is split between Regions K and P.

### Scope of Services

1. Develop a list of the data and data sources to adequately evaluate groundwater conditions in Lavaca, Jackson, and the Region P portion of Wharton County.
2. Review current groundwater level measurement sites, both those used by the TWDB as well as those developed and implemented by Groundwater Conservation Districts, identify the

- frequency of monitoring, and recommend any increases in frequency of the monitoring schedule.
3. Perform data gap analysis to determine adequacy of water level measuring data in the Lavaca Region, both in terms of geographic and aquifer condition coverage as well as frequency of monitoring.
  4. Develop recommendations for the number of additional sample sites, or increased frequency of monitoring at existing sites to maximize the value of the water level data.
  5. Enter requests for category of technical and planning data to the appropriate agency.
  6. Acquire most recent update of TWDB Groundwater Database and provide each County in Region P with water well inventory and other technical data needed.
  7. Use TWDB base maps and begin development of GIS dataset that will include all of the data on wells and water level monitoring noted above.
  8. Review status of Upper and Middle Gulf Coast GAMs to determine whether differences still exist in the Region P areas of the two models.
  9. Coordinate with LSWP project team to determine status of LSWP modeling efforts and to determine what additional data has been used that was not used in the two GAMs already developed
  10. Review assumptions made for planted acreage of rice and other irrigated crops in the LSWP model.
  11. Compare assumptions with demands included in the LRWPG 2006 Regional Plan.
  12. Determine extent of drawdown effects from the LSWP model and estimate additional drawdown that might occur from LSWP in the Lavaca Region area.
  13. Present findings to LRWPG
  14. Assist LRWPG in developing a modeling committee to meet jointly with Lower Colorado River Regional Water Planning Group (LCRWPG) modeling committee to discuss common interests and concerns.
  15. Participate with LCRWPG modeling committee in comparing all of the models available and determining which more accurately represents the interests of each area. It is noted that one model may not be the best for both areas.
  16. Review modeling results noted above with water level information and water quality information from various time periods.
  17. Link the water quality data to specific well pumping levels in the areas.
  18. Expand the GIS database developed above to include water quality information keyed to the pumping level information, depicting quality as a function of water levels in a specific area, and plotting maps of quality variation from different aquifer levels.
  19. Assess coverage of water quality information and determine whether data gaps exist that limit the accuracy of the data.
  20. Plot projected contours of water levels from conjunctive use of groundwater during dry year conditions.
  21. Plot projected water quality conditions based on the contour levels developed in 23 above.
  22. Review water quality needs for agricultural producers, municipalities, and local industries.
  23. Determine whether or not the level of pumping anticipated in the dry year over production is sufficient to cause water quality problems from the lowered water tables.
  24. Develop graphical representations of the above issues, and present them to a normally scheduled monthly meeting of the LRWPG.
  25. Review comparisons with LRWPG and discuss potential paths forward.
  26. Arrange joint meetings with LCRWPG scoping or modeling committees in developing scopes for next biennium of current planning round.
  27. Develop coordinated scope items for next biennium of the current planning round to address any additional monitoring, analyses, and other data inputs needed to more accurately assess availability both in terms of quantity and quality.
  28. Produce draft report and submit for LRWPG and public comment.
  29. Make revisions to report, as appropriate, and submit final version to LRWPG and TWDB.

## Deliverables

1. Technical report on the comparison of the various models reviewed, along with strengths, weaknesses and general applicability to the Lavaca Regional Water Planning Area.
2. GIS Database of water level and water quality information
3. Database of projected water levels and water quality information for anticipated pumping rates identified in current plan.
4. Draft and final report on quality versus pumping.
5. Detailed list of scope items and budget needed in next biennium of current planning round.

## **Scope Item No. 2 – Review and Update Demand Information for Rice Irrigation.**

### Statement of the Problem/Issue

Agricultural usage makes up approximately 95 percent of the total water demand in Region P, with rice irrigation comprising approximately 85 percent of the agricultural demand. As a result of the predominance of agricultural needs, the LRWPG is relatively independent of the U.S. Census process, and population is a relatively small factor in determining demands. However, there are many factors that can and do significantly impact the amount of rice grown, which include Federal price supports, Federal export policies, adverse weather conditions in other major rice producing areas, fuel costs, and a number of other factors. As a result, it is important to continually review and update the projections for rice usage in attempting to produce the most accurate projection possible.

### Allowable Board Category

This investigation fits within No. 3, Refinement of strategies, since a decreased or increased rice planting estimate will require changes in the drawdown determination and may have a lesser or greater effect on the water table and potentially on water quality as well. It also has application to No. 5, since it greatly impacts a predominantly rural area, and No. 6, since it represents a potentially changed condition with respect to demand. As noted above, rice acreage is not tied to either the population as a whole, or the census.

### Scope of Services

1. Download TWDB maps of planted rice acreage for 2001 through 2005 and compare to planted acreage information from the Texas Agricultural Statistics Service.
2. Print maps of planted acreage and indicate data and source.
3. Meet with rice producers, agricultural extension agents, Soil conservation agents and other agricultural interests for a workshop session to review current available state of knowledge about rice acreage for the past 10 years, as well as acknowledged sources of predictions for future production. One workshop will be held in each county of the region.
4. Review aerial photographs and other data to identify rice growing areas and perform surveys to determine changes in acreages that have been improved for conservation purposes.
5. Present maps to the local rice producers and extension agents in each workshop and obtain information on the amount of acreage currently used as well as the amount of acreage potentially suitable for rice cultivation.
6. Solicit information from the workshop attendees on those lands which have been improved through precision leveling, multiple inlets, and other features to confirm or refute information gathered in 4 above.
7. Review basic background information used in the two previous plans on usage per acre for the various crops and discuss whether there are discernible trends in these numbers over time.
8. Collect meteorological data from the same time period as the rice production numbers and compare water usage during dry years versus wetter years on a per acre basis.
9. Review upcoming farm bills and determine potential impacts of changes in price supports and farm policy as well as foreign policy changes that could potentially open up new markets for



- rice and impact the price. The Federal Farm Bills follow a 7 year cycle and the Farm Bill is up for deliberation within the next year.
10. Develop demand projections for rice irrigation based on all of the above tasks and present to the LRWPG in open meeting.
  11. Review and incorporate comments into the draft and finalize report.

#### Deliverables

1. Spreadsheet of acreage and amounts of water per various crops for Lavaca, Jackson, and Western Wharton County.
2. Draft report of tasks noted above including projected agricultural demands from the analysis above compared with the demands from the last planning round.
3. If the demands are significantly different, a scope item will be developed for selecting the appropriate groundwater availability modeling tool and running various scenarios of projected demand to determine the potential impact on the aquifer.

### **Scope Item No. 3 – Investigation of Springflows**

#### Statement of Problem/Issue

Comments were received after the last planning round in response to the issue of spring flows in the LRWPG. The report had indicated that there were no active springs, although there were springs in the past. The impacts of the management strategy of conjunctive use of groundwater and surface water was presented as having no impact on spring flows because spring flows were essentially zero. The following scope of work is to perform an investigation of former spring flow areas and determine if they have flowed recently, under what hydrologic conditions, etc.

#### Allowable Board Category

This task would relate to No. 2, in that resolution of potential impacts to springs would make the proposed management strategy more acceptable to the environmental community. It also relates to No. 3 in that if springs are present that need to be accounted for in the determination of desired future conditions, it may require a refinement of the strategy to limit the amount of pumping to that which is compatible with the springflow observed.

#### Scope of Services

1. Review historic accounts to determine locations of past reported spring flows and perform field investigations to determine whether springs currently exist in those areas or to find evidence if they exist during wetter periods.
2. If springs are located, estimate flows coming from them and determine the likely impact of water table changes on those springs, as well as whether or not there is a significant contribution to the surface water supply from those springs.
3. Review the revised Gulf Coast Aquifer Middle and Upper Gulf Coast models as well as the completed LSWP model to determine whether or not springs impacts are accounted for in any of those models.
4. Develop maps of locations of former and any currently observed springs as well as measured outputs.
5. Present spring investigation data to a regular meeting of the LRWPG in the form of a draft report and solicit input.
6. Make appropriate changes to the draft report and submit to LRWPG and TWDB.

#### Deliverables

1. Map of spring locations, past and present.
2. Draft and final report of investigation of springflows and appropriate model.

3. Listing of any appropriate scope items in next biennium of current planning round, with budgets identified.

## **Scope Item Number 4 – Changed Conditions/Plan Amendments**

### Statement of the Problem/Issues

The current requirements for receiving funding from the TWDB for a water supply related project, and for processing permits for water resources through the TCEQ state that the project being contemplated for funding or for permitting must be in accordance with the completed and adopted regional plan for its area. As a result of this, there is significant emphasis placed on being specifically acknowledged in the plan. For these reasons, there is a potential need for short term plan amendments to allow new sources of supply to be placed in line in advance of need.

### Allowable Board Category

This task fits into Board Category No. 1, Evaluation of new water management strategies in response to changed conditions. The development of multiple potential sources of water is common in the industry in order to ensure an adequate long term supply. Where these sources do not correspond with a single strategy from the existing plan, then a plan amendment must be sought in order to allow the project to proceed.

### Scope of Work

A generic scope of work for the types of amendments that might be likely is as follows:

1. Meet with the applicant for the plan amendment and determine the reason behind the amendment.
2. Review the amendment proposed and determine whether or not there is an adverse impact on any WUG as a result of the amendment.
3. Prepare presentation materials for the LRWPG to review to determine the potential impact to other WUGs and resources, and whether or not the implementation of this strategy caused a shortage to another WUG.
4. Exercise water model (if surface water) to determine potential impacts on the environment from the proposed strategy.
5. Develop presentation materials and present pros and cons of the amendment to the assembled LRWPG.
6. Review situation with LRWPG and request determination of whether or not LRWPG recommends approval with information available.
7. Provide support to LRWPG in holding public hearing on plan amendments, and responding to comments received.
8. Make any changes needed as a result of the public hearing and submit to LRWPG for transmittal to the TWDB.

### Deliverables

The work product for this scope of work will consist of either amended pages to the plan incorporating the revised strategy, or a written determination that the proposed amendment is in conflict with the plan.

## **Scope Item Number 5 – Public Outreach/Administration**

### Statement of the Problem/Issue

The LRWPG has a vested interest in having professional representation at its meetings and in meeting all of the necessary requirements for outreach to the public related to the workings and deliberations of LRWPG. These requirements include assisting with the presentation of materials and statements from various sources, providing advice and guidance on the response to some of the presentations given to the LRWPG, and providing the notice required for public meetings, public hearings, and other venues for obtaining public input to the process. Some funds are needed to provide the necessary support and make the required publications and notifications of availability of scopes of work and draft reports.

### Allowable Board Category

The work contemplated here fits within the Board's set aside for administrative purposes which was allocated to the regions based on a funding formula developed by the Board staff. The purpose of including it here is to ensure that the work done under these funds is recoverable by the LRWPG.

### Scope of Work

1. Attend regularly scheduled meetings of the LRWPG even when there is not a specific report to make by the consultant team.
2. Coordinate with Board staff to determine adequacy of notice for each instance in which notice is required.
3. Provide all required notices of availability for scopes of work, grant applications, and draft and final documents. This includes providing notices in the newspaper of general circulation in each county.
4. Perform other duties as assigned.

### Deliverables

Deliverables from this scope will include properly prepared notices of availability of scopes of work and draft and final products, properly prepared newspaper notices, etc.

**APPENDIX B**  
**TASK BUDGET**

## Baseline Project Task Budget by Scope Item

Task	Subtask	Task Description	Total Amount
<b>1</b>		<b>Groundwater Availability Determinations</b>	<b>\$ 120,000</b>
	1	Develop a list of data to adequately evaluate groundwater conditions	\$ 3,800
	2	Review current groundwater level measurement sites	\$ 4,600
	3	Perform data gap analysis to determine adequacy of water level measuring data	\$ 3,500
	4	Develop recommendations for the number of additional sample sites	\$ 1,600
	5	Enter requests for category of technical and planning data to the appropriate agency	\$ 2,300
	6	Acquire update of TWDB GW database and provide each GCD with well inventory and data for minor aquifer DFC development	\$ 2,500
	7	Develop GIS dataset that will include all of the data on wells and water level monitoring	\$ 7,600
	8	Review status of Upper and Middle Gulf Coast GAMs to determine whether differences still exist in the Region P areas of the two models	\$ 7,400
	9	Determine what additional data has been used that was not used in the two GAMs	\$ 4,800
	10	Review assumptions made for planted acreage	\$ 1,500
	11	Compare assumptions with demands included in the LRWPG 2006 Regional Plan	\$ 500
	12	Determine extent of drawdown effects from the LSWP model	\$ 3,700
	13	Present findings to LRWPG	\$ 4,000
	14	Assist LRWPG in developing a modeling committee	\$ 2,800
	15	Participate with LCRWPG modeling committee in comparing all of the models available	\$ 4,000
	16	Review modeling results with water level information and water quality information	\$ 5,200
	17	Link the water quality data to specific well pumping levels in the areas	\$ 5,500
	18	Expand the GIS database to include water quality information keyed to the pumping level information	\$ 5,100
	19	Assess coverage of water quality information	\$ 5,500
	20	Plot projected contours of water levels from conjunctive use of groundwater	\$ 4,700
	21	Plot projected water quality conditions based on the contour levels developed	\$ 5,400
	22	Review water quality needs for agricultural producers, municipalities, and local industries	\$ 2,900
	23	Determine whether or not pumping in dry years will cause water quality problems	\$ 5,500
	24	Develop graphical representations of the above issues	\$ 2,700
	25	Review comparisons with LRWPG and discuss potential paths forward	\$ 3,800
	26	Arrange joint meetings with LCRWPG scoping or modeling committees in developing scopes for next biennium of current planning round	\$ 5,700
	27	Develop coordinated scope items for next biennium of the current planning round	\$ 6,000
	28	Produce draft report and submit for LRWPG and public comment	\$ 5,000
	29	Make revisions to report and submit final version to LRWPG and TWDB	\$ 2,400
<b>2</b>		<b>Review and Update Demand Information for Rice Irrigation</b>	<b>\$ 35,000</b>
	1	Download TWDB maps of planted rice acreage 2001-2005	\$ 1,000
	2	Print maps of planted acreage and indicate data source	\$ 1,000
	3	Meet with rice producers, agricultural extension, soil cons.	\$ 5,000
	4	Review aerial photos and perform surveys	\$ 7,000
	5	Present maps to local rice producers and extension to receive acreage data	\$ 4,200
	6	Solicit information on improvements	\$ 2,800
	7	Review data from previous plan	\$ 1,000
	8	Collect meteorological data and compare usage for dry and wet years	\$ 2,000
	9	Review upcoming farm bills	\$ 1,500
	10	Develop demand projections present to LRWPG	\$ 5,000
	11	Review comments and finalize report	\$ 4,500
<b>3</b>		<b>Investigation of Springflows</b>	<b>\$ 33,200</b>
	1	Review historic accounts of springs	\$ 9,600
	2	Perform field studies to investigate springs and estimate flow rates	\$ 4,600
	3	Review Gulf Coast GAMs and LSWP model to determine if spring impacts are accounted for	\$ 4,800
	4	Develop maps of former and currently observed springs as well as measured outputs	\$ 2,700
	5	Present draft data to LRWPG	\$ 8,700
	6	Finalize report and present to LRWPG	\$ 2,800
<b>4</b>		<b>Changed Conditions/Plan Amendments</b>	<b>\$ 36,700</b>
	1	Meet with amendment applicants	\$ 8,900
	2	Review proposed amendment and determine any adverse impact on WUGs	\$ 2,000
	3	Prepare presentation materials for LRWPG regarding impacts	\$ 2,900
	4	Exercise the surface water model as necessary to determine impacts	\$ 2,000
	5	Prepare and deliver presentation materials to LRWPG	\$ 7,700
	6	Review situation with LRWPG	\$ 1,900
	7	Provide support to LRWPG in holding public hearings on amendments and responding to comments	\$ 8,500
	8	Make any changes needed as a result of the public hearing and submit to LRWPG for transmittal to TWDB	\$ 2,800
<b>5</b>		<b>Public Outreach/Administration</b>	<b>\$ 26,000</b>
	1	Attend LRWPG meetings to present progress	
	2	Coordinate with TWDB staff to determine adequacy of notice for each instance of notice	
	3	Provide all required notices of availability for scopes of work, grant applications, and draft docs.	
	4	Perform other duties as assigned.	
<b>Total Budget Request</b>			<b>\$ 250,900</b>

**APPENDIX C**  
**EXPENSE BUDGET**

### Task 1 – Groundwater Availability Determinations

Category	Total Amount
Salaries & Wages <sup>1</sup>	\$ 19,788
Fringe <sup>2</sup>	\$ 10,369
Travel	\$ 1,000
Other Expenses <sup>3</sup>	\$ 2,000
Subcontract Services	\$ 51,700
Overhead <sup>4</sup>	\$ 22,103
Profit	\$ 13,040
<b>Total</b>	<b>\$ 120,000</b>

### Task 2 – Review and Update Demand Information for Rice Irrigation

Category	Total Amount
Salaries & Wages <sup>1</sup>	\$ 9,636
Fringe <sup>2</sup>	\$ 5,049
Travel	\$ 1,200
Other Expenses <sup>3</sup>	\$ 2,000
Subcontract Services	\$ -
Overhead <sup>4</sup>	\$ 10,764
Profit	\$ 6,350
<b>Total</b>	<b>\$ 35,000</b>

### Task 3 – Investigation of Springflows

Category	Total Amount
Salaries & Wages <sup>1</sup>	\$ 9,152
Fringe <sup>2</sup>	\$ 4,795
Travel	\$ 1,000
Other Expenses <sup>3</sup>	\$ 2,000
Subcontract Services	\$ -
Overhead <sup>4</sup>	\$ 10,222
Profit	\$ 6,031
<b>Total</b>	<b>\$ 33,200</b>

### Task 4 – Changed Conditions/Plan Amendments

Category	Total Amount
Salaries & Wages <sup>1</sup>	\$ 10,212
Fringe <sup>2</sup>	\$ 5,351
Travel	\$ 1,000
Other Expenses <sup>3</sup>	\$ 2,000
Subcontract Services	\$ -
Overhead <sup>4</sup>	\$ 11,407
Profit	\$ 6,730
<b>Total</b>	<b>\$ 36,700</b>

### Task 5 – Public Outreach/Administration

Category	Total Amount
Salaries & Wages <sup>1</sup>	\$ 6,364
Fringe <sup>2</sup>	\$ 3,335
Travel	\$ -
Other Expenses <sup>3</sup>	\$ -
Subcontract Services	\$ 5,000
Overhead <sup>4</sup>	\$ 7,108
Profit	\$ 4,194
<b>Total</b>	<b>\$ 26,000</b>

<sup>1</sup> Salaries and Wages is defined as the cost of salaries of engineers, draftsmen, stenographers, surveyors, clerks, laborers, etc., for time directly chargeable to this contract.

<sup>2</sup> Fringe is defined as the cost of social security contributions, unemployment, excise, and payroll taxes, employment compensation insurance, retirement benefits, medical and insurance benefits, sick leave, vacation, and holiday pay applicable thereto.

<sup>3</sup> Other Expenses is defined to include expendable supplies, communications, reproduction, postage, and costs of public meetings.

<sup>4</sup> Overhead is defined as the costs incurred in maintaining a place of business and performing professional services similar to those specified in this contract. These costs shall include the following:

- Indirect salaries, including that portion of the salary of principals and executives that is allocable to general supervision;
- Indirect salary fringe benefits;
- Accounting and legal services related to normal management and business operations;
- Travel costs incurred in the normal course of overall administration of the business;
- Equipment rental;
- Depreciation of furniture, fixtures, equipment, and vehicles;
- Dues, subscriptions, and fees associated with trade, business, technical, and professional organizations;
- Other insurance;
- Rent and utilities; and
- Repairs and maintenance of furniture, fixtures, and equipment.



**APPENDIX D**  
**TIME SCHEDULE**



**APPENDIX E**  
**QUALIFICATIONS AND DIRECT EXPERIENCE OF**  
**PROPOSED PROJECT STAFF**

## **Patrick Brzozowski, P.E.**

**Lavaca-Navidad River Authority  
P.O. Box 429 Edna, Texas 77957**

**361-782-5229 Fax 361-782-5310**

**[pbrzozowski@lnra.org](mailto:pbrzozowski@lnra.org)**

2003 to Present

Lavaca-Navidad River Authority  
General Manager

As the Chief Administrative Officer, manages and operates the affairs of the Authority, subject only to Board of Director orders.

1998 to 2003

Lavaca-Navidad River Authority  
Water Resource Manager

Manage operation and maintenance of water delivery and utility sections  
Manage environmental matters  
Reservoir Management Operations

BS Civil Engineering, University of Houston  
Registered Professional Engineer

Secretary, Lavaca Regional Water Planning Group  
Board Member – Texas Water Conservation Association  
Member – American Water Works Association, Texas Water Utilities Association

**APPENDIX F**  
**PROOF OF NOTIFICATION**



Lavaca-Navidad River Authority  
Notice of Public Meeting

copy

STATE OF TEXAS

COUNTY OF WHARTON

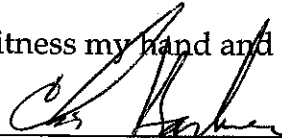
Before me, the undersigned authority, on this day personally appeared **Chris Barbee**, the managing editor of the **El Campo Leader-News**, a newspaper having general circulation in Wharton County, Texas, who being by me duly sworn, deposes and says that the foregoing attached notice was published in said newspaper on the following date(s), to wit:

July 26

Subscribed and sworn to before me this

the 26 day of July, 2006,

to certify which witness my hand and seal of office.

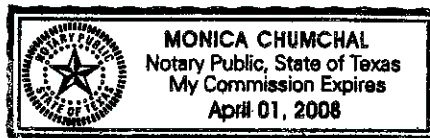


Chris Barbee, Editor

Monica Chumchal

Monica Chumchal

Notary Public in and for  
Wharton County, Texas



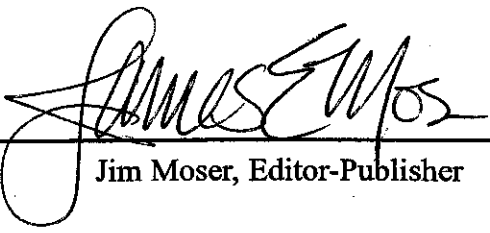
*copy*

# PUBLISHER'S AFFIDAVIT

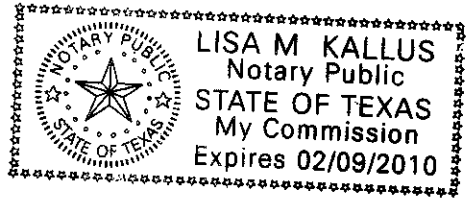
**STATE OF TEXAS  
COUNTY OF JACKSON**


Personally appeared before the undersigned, a notary public within and for said County and State, Jim Moser, Editor-Publisher of THE JACKSON COUNTY HERALD-TRIBUNE a newspaper have general circulation in Jackson County, Texas, who, being duly sworn, states on oath that the foregoing attached notice was published in said newspaper on the following date(s), to wit:

7-26-04  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

  
\_\_\_\_\_  
Jim Moser, Editor-Publisher

Subscribed and sworn to me before this 31 day of July, 2004,  
to certify which witness my hand and seal of office.



  
\_\_\_\_\_  
Lisa M. Kallus, Notary Public  
in and for  
Jackson County, Texas  
Commission Expires: 02-09-2010



**AFFIDAVIT OF PUBLICATION**

STATE OF TEXAS

COUNTY OF Lavaca

Before me, the undersigned authority, on this day personally appeared

Kristie Klekar, who being by me duly sworn,  
*(name of newspaper representative)*

deposes and says that (s)he is the Advertising Representative  
*(title of newspaper representative)*

of the Hallettsville Tribune-Herald; that said newspaper is generally  
*(name of newspaper)*

circulated in Hallettsville, Texas;  
*(in the municipality(s) listed in the attached notice)*

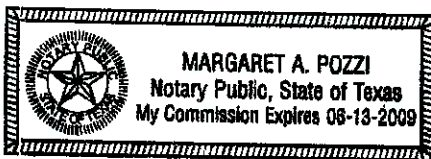
that the attached notice was published in said newspaper on the following date(s):

Wednesday, July 26, 2006 - 3x4.75 Notice of Public Meeting

*K. Klekar*  
*(newspaper representative's signature)*

Subscribed and sworn to before me this the 2nd day of August, 2006, to  
certify and witness my hand and seal of office.

(Seal)



*Margaret A. Pozzi*  
Notary Public in and for the State of Texas

Margaret A. Pozzi

Print or Type Name of Notary Public

6-13-09

My Commission Expires

**AFFIDAVIT OF PUBLICATION**

STATE OF TEXAS

COUNTY OF Lavaca

Before me, the undersigned authority, on this day personally appeared

Kristie Klekar, who being by me duly sworn,  
*(name of newspaper representative)*

deposes and says that (s)he is the Advertising Representative  
*(title of newspaper representative)*

of the Moulton Eagle; that said newspaper is generally  
*(name of newspaper)*

circulated in Moulton, Texas;  
*(in the municipality(s) listed in the attached notice)*

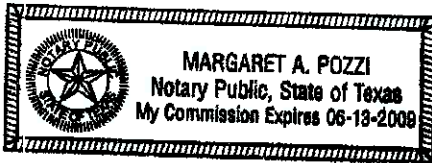
that the attached notice was published in said newspaper on the following date(s):

Wednesday, July 26, 2006 - 3x4.75 Notice of Public Meeting

*Kristie Klekar*, Advertising Rep  
*(newspaper representative's signature)*

Subscribed and sworn to before me this the 2nd day of August, 2006, to  
certify and witness my hand and seal of office.

(Seal)



*Margaret A. Pozzi*  
Notary Public in and for the State of Texas

Margaret A. Pozzi  
Print or Type Name of Notary Public

6-13-09  
My Commission Expires

**AFFIDAVIT OF PUBLICATION**

STATE OF TEXAS

COUNTY OF Lavaca

Before me, the undersigned authority, on this day personally appeared

Agnes Sedlmeyer, who being by me duly sworn,  
*(name of newspaper representative)*

deposes and says that (s)he is the Managing Editor  
*(title of newspaper representative)*

of the Shiner Gazette; that said newspaper is generally  
*(name of newspaper)*

circulated in Shiner, Texas;  
*(in the municipality(s) listed in the attached notice)*

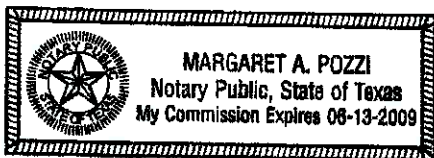
that the attached notice was published in said newspaper on the following date(s):

Wednesday, July 26, 2006 - 3x4.75 Notice of Public Meeting

Agnes Sedlmeyer  
*(newspaper representative's signature)*

Subscribed and sworn to before me this the 2nd day of August, 2006, to  
certify and witness my hand and seal of office.

(Seal)



Margaret A. Pozzi  
Notary Public in and for the State of Texas

Margaret A. Pozzi  
Print or Type Name of Notary Public

6-13-09  
My Commission Expires

**AFFIDAVIT OF PUBLICATION**

STATE OF TEXAS

COUNTY OF Lavaca

Before me, the undersigned authority, on this day personally appeared

Charles Grafe, who being by me duly sworn,  
*(name of newspaper representative)*

deposes and says that (s)he is the Editor  
*(title of newspaper representative)*

of the Yoakum Herald-Times; that said newspaper is generally  
*(name of newspaper)*

circulated in Yoakum, Texas;  
*(in the municipality(s) listed in the attached notice)*

that the attached notice was published in said newspaper on the following date(s):

Wednesday, July 26, 2006 - 3x4.75 Notice of Public Meeting

*Charles Grafe*  
*(newspaper representative's signature)*

Subscribed and sworn to before me this the 2nd day of August, 2006, to certify and witness my hand and seal of office.

(Seal)



*Margaret A. Pozzi*  
Notary Public in and for the State of Texas

Margaret A. Pozzi  
Print or Type Name of Notary Public

6-13-09  
My Commission Expires

# LAVACA REGIONAL WATER PLANNING GROUP

P.O. Box 429  
Phone: 361-782-5229

Edna, Texas 77957  
Fax: 361-782-5310

## EXECUTIVE COMMITTEE

Judge Harrison Stafford II  
Chairman  
Counties

Judge Ronald L. Leck  
Vice-Chairman  
Counties

Patrick Brzozowski  
Secretary  
River Authorities

Roy D. Griffin  
Electric Service

Paul Morkovsky  
Industries

Ed Weinheimer  
Small Businesses

Bob Weiss  
Public

## MEMBERS

Calvin Bonzer  
Small Business

John Butschek  
Municipalities

Gerald Clark  
Agricultural

Pat Hertz  
Water Districts

Jack Maloney  
Municipalities

Comm. Philip Miller  
Counties

Richard J. Ottis  
Industries

Wayne Popp  
Water Districts

L. G. Raun  
Agricultural

Dean Schmidt  
Agricultural

Robert Shoemate  
Environmental

Larry Waits  
Agricultural

## NOTICE OF PUBLIC MEETING On Scope of Work to Prepare an Updated Regional Water Plan

**A public meeting to receive comments on a proposed scope of work will be held on August 28, 2006 at 1:30 p.m. as part of the regular meeting of the Lavaca Regional Water Planning Group (LRWPG) at the main office of the Lavaca-Navidad River Authority, 4631 FM 3131, Edna, Texas 77957.**

The Lavaca Region is a 3 county area including all of Lavaca and Jackson Counties as well as Precinct 3 and all of the City of El Campo in Wharton County. Water User Groups in the regional planning area rely primarily on groundwater to meet their needs for municipal, manufacturing, steam electric power generation, irrigation and livestock water, although some surface water is used when surface water is plentiful. The Lavaca Region's water usage is predominantly for agricultural purposes.

The LRWPG is applying for a grant from the Texas Water Development Board to perform special studies to better define water supply availability, both surface and ground water in the region and to review the changed conditions of demands in the rice industry, which uses approximately 80 percent of the water used in the LRWPG area. This additional information will assist in the implementation of selected water management strategies. The public meeting is being held as required by 31 TAC Chapter 357.12 (a) (1).

The studies noted above will facilitate providing the necessary information to respond to changed conditions as well as the use of the finalized groundwater availability model for the Gulf Coast Aquifer to better determine the impacts of additional dry year pumpage on the agricultural community. An initial listing of topics being considered by the LRWPG are available for review on the website of the Texas Water Development Board (TWDB) at [www.twdb.state.tx.us](http://www.twdb.state.tx.us), on the LNRA website at [www.lnra.org](http://www.lnra.org), and at the office of LNRA as shown above during regular business hours.

Comments on the proposed scope of work may also be made in writing by submitting them to Mr. Patrick Brzozowski, General Manager, Lavaca-Navidad River Authority, P.O. Box 429, Edna, Texas, 77957 within 30 days of the date of this notice.

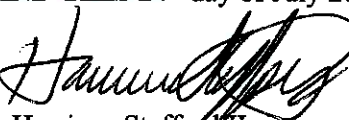
Comments on the notice to apply for funding from the Texas Water Development Board (TWDB) should be made in writing to Mr. J. Kevin Ward, Executive Administrator, Texas Water Development Board, P.O. Box 13231, Austin, Texas, 78711-3231, with a copy to Mr. Brzozowski at the address shown above. The grant application must be submitted to the TWDB by September 14, 2006, and copies may be obtained from the LNRA when it becomes available. Comments must be submitted prior to October 31, 2006.

WITNESS MY HAND THIS 24<sup>th</sup> day of July 2006.

FILED 7/25/06 at 9:55 AM  
KENNETH W. McELVEEN-Clerk of County Court

Jackson County, Texas

BY 

  
Harrison Stafford II  
Chairman

# LAVACA REGIONAL WATER PLANNING GROUP

P.O. Box 429  
Phone: 361-782-5229

Edna, Texas 77957  
Fax: 361-782-5310

## EXECUTIVE COMMITTEE

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Chairman  
Counties

Judge Ronald L. Leck  
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Municipalities

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Agricultural

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Larry Waits  
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RECEIVED  
JUL 27 2006  
LNRA

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WITNESS MY HAND THIS 24<sup>th</sup> day of July 2006.

  
Harrison Stafford II  
Chairman

**FILED FOR RECORD**

At 8:05 O'clock 9<sup>th</sup> M

JUL 26 2006

ELIZABETH A. KOUBA, CLERK  
COUNTY COURT, LAVACA CO., TX

Wharton Co

POSTED

JUL 27 2006

10: AM

PD

# LAVACA REGIONAL WATER PLANNING GROUP

P.O. Box 429  
Phone: 361-782-5229

Edna, Texas 77957  
Fax: 361-782-5310

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L. G. Raun  
Agricultural

Dean Schmidt  
Agricultural

Robert Shoemate  
Environmental

Larry Waits  
Agricultural

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RECEIVED  
JUL 31 2006  
LNRA

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WITNESS MY HAND THIS 24<sup>th</sup> day of July 2006.

  
Harrison Stafford II  
Chairman

J.K. Allen Estate  
C/O Grady Allen, Executor  
411 Tallow Lane  
El Campo, Texas 77437-2322

T.J. Babb Heirs Revocable Trust  
C/O Robert Helepeska, Trust Officer  
First Victoria National Bank  
P.O. Box 203  
Victoria, Texas 77902-0203

Carl B. Bain  
HC 1, Box 114  
Louise, Texas 77455-9511

Jack Birkner et ux  
1201 Rebe Sue Street  
El Campo, Texas 77437-3847

Matt J Bozka  
11434 FM 530  
Hallettsville, Texas 77964-4840

Anton Brandl, Jr. et ux  
C/O Terry Brandl  
RR 3, Box 145  
El Campo, Texas 77437-9701

Richard B. Collins et al  
(S.R., C.R., R.B., R.R. Collins)  
P.O. Box 1567  
El Campo, Texas 77437-1567

Mark and Charlotte Defriend  
HC 1, Box 44C  
Louise, Texas 77455-9502

El Rancho De Los Patos, Inc.  
HC 1, Box 71  
Louise, Texas 77455-9507

Formosa Plastics Corporation  
P.O. Box 176  
LaWard, Texas 77970-0176

E.G. Goff et al  
Kenneth Goff and Jan Goff  
HC 1, Box 88  
Louise, Texas 77455-9507

Kathleen Halamicek  
C/O John T. Halamicek  
RR 3, Box 90  
El Campo, Texas 77437-9604

Eva Ruth Hancock et al  
C/O Edward H. Sacco  
P.O. Box 1624  
El Campo, Texas 77437-1624

Jackson County  
115 W. Main Street  
Edna, Texas 77957

Francis Koop  
2605 Goldfinch Drive  
Cedar Park, Texas 78613-5113

Johnnie E. Kotlar  
203 S. East Street  
Edna, Texas 77957

Leigh Ann Allen Larsen et al  
Kathryn E Allen Roller  
411 Tallow Lane  
El Campo, Texas 77437-2322

John B. Lay et al  
Lillie Jane Lay Durst  
712 Brownlee Circle  
Austin, Texas 78703-5215

John E. Leavesley et al  
701 Harborside Way  
Kemah, Texas 77565-3083

Robert Martin et al  
750 CR 317  
Edna, Texas 77957-4801

Alan Wayne Meek et al  
2906 Tina Circle  
El Campo, Texas 77437-2194

Brian Nelson Meek  
908 Georgia Street  
El Campo, Texas 77437-2414

Dale Charles Meek  
419 Scarlet Maple Drive  
Sugarland, Texas 77479-5006

Gary Kenneth Meek  
113 W. Swim  
Stillwater, Oklahoma 74075-2820

City of Moulton  
P.O. Box 369  
Moulton, Texas 77975-0369

Vlasta Mraz  
253 CR 343A  
Shiner, Texas 77984-5612

Mustang Exploration Co., Inc.  
P.O. Box 467  
Louise, Texas 77455-0467

William J. Naiser and Jerome Naiser  
506 E. Watt Street  
El Campo, Texas 77437-3050

Pin Oak Farms 2  
HC 1, Box 69  
Louise, Texas 77455-9507

Norris Raun  
201 Webb Street  
El Campo, Texas 77437-2205



Travis Norris Raun et al  
Richard Truitt Raun and Norris Raun  
201 Webb Street  
El Campo, Texas 77437-2205

Eva Reigh Tucker  
HC 1, Box 133  
Louise, Texas 77455-9513

John L. and Susan H. Richards  
Richards Brothers Company  
105 North Washington Street  
El Campo, Texas 77437-4430

Gebrueder Viehof Farms OHG  
DBA Inez Farms  
P.O. Box 849  
Edna, Texas 77957-0849

Estate of Velma Lee Robinson  
C/O Mary H. Thedford  
P.O. Box 924  
Edna, Texas 77957-0924

Harry E. Vitera  
1213 Appling Street  
El Campo, Texas 77437-2101

E. T. Rose Estate  
C/O Gerald M. Clark  
501 Jackson Street  
Edna, Texas 77957-3232

Edmund Weinheimer, III et al  
Steven S. Weinheimer  
P.O. Box 999  
El Campo, Texas 77437-0999

Gregory Paul Schmidt et al  
Robert John Schmidt  
RR 1, 48A  
Louise, Texas 77455-9306

Gaynard and Elaine Wiggington  
1009 W. Norris Street  
El Campo, Texas 77437-2436

M. T. Simons, Jr. et al  
C/O Robert Shoemate  
P.O. Box 741  
Edna, Texas 77957-0741

Edmund A. Weinheimer, Jr.  
P.O. Box 212  
El Campo, Texas 77437-0212

Harrison Stafford, II et al  
P.O. Box 609  
Edna, Texas 77957-0609

Larkin T. Thedford  
525 FM 234 South  
Edna, Texas 77957

Albert W. and Claudia P. Swenson  
P.O. Box 311  
Ganado, Texas 77962-0311

Brian M. Swenson et al  
1201 W. Norris Street  
El Campo, Texas 77437-2440

T-Bar-D, L.L.C.  
P.O. Box 2067  
Cypress, Texas 77410-2067

The Honorable Harrison Stafford, II  
Jackson County Judge  
115 West Main, Room 207  
Edna, Texas 77957

The Honorable Anita Rodriguez  
Mayor, City of Yoakum  
P.O. Box 738  
Yoakum, Texas 77995

The Honorable Warren Grindeland  
Mayor, City of Hallettsville  
101 North Main  
Hallettsville, Texas 77964

The Honorable Kathy Koranek  
Mayor, City of Moulton  
P.O. Box 369  
Moulton, Texas 77975

The Honorable Laura Watzlavick  
Mayor, City of Shiner  
P.O. Box 308  
Shiner, Texas 77984

The Honorable Clinton Tegeler  
Mayor, City of Ganado  
P.O. Box 264  
Ganado, Texas 77962

The Honorable John Wesley Murrile  
Wharton County Judge  
309 East Milam, Suite 600  
Wharton, Texas 77488

The Honorable Bryan Kocian  
Mayor, City of Wharton  
120 East Caney Street  
Wharton, Texas 77488

The Honorable Randy Collins  
Mayor, City of El Campo  
315 Jackson Street  
El Campo, Texas 77437

The Honorable Jewel Hunt  
Mayor, City of LaWard  
P.O. Box 178  
LaWard, Texas 77970

The Honorable Ronald L. Leck  
Lavaca County Judge  
P.O. Box 243  
Hallettsville, Texas 77964

The Honorable Joe Hermes  
Mayor, City of Edna  
126 West Main  
Edna, Texas 77957

Aquasource Utility, Inc.  
1421 Wells Street  
Pflugerville, Texas 78660-3230

City of Shiner  
P.O. Box 308  
Shiner, Texas 77984

Port Alto Investment  
2406 Hutchins Lane  
El Campo, Texas 77437-2114

Bernard Timbers WSC  
P.O. Box 725  
East, Texas 77435

City of Wharton  
120 East Caney  
Wharton, Texas 77488

Southwest Utilities, Inc.  
P.O. Box 907  
El Campo, Texas 77437-907

Boling Municipal Water  
P.O. Box 307  
Boling, Texas 77420

City of Yoakum  
P.O. Drawer 738  
Yoakum, Texas 77995

Tri-County Point Property  
Association  
14 County Road 480  
Palacios, Texas 77465-1642

Cape Carancahua WSC  
2903 West Bayshore Drive  
Palacios, Texas 77465

D & S Water Service  
P.O. Box 570177  
Houston, Texas 77257-177

Walker Water Works, Inc.  
P.O. Box 907  
El Campo, Texas 77437-907

City of Edna  
126 West Main  
Edna, Texas 77957

Enchanted Harbor Utility  
912 Fahrenthold  
El Campo, Texas 77437

Wharton County WCID 1  
P.O. Box 395  
Louise, Texas 77455

City of El Campo  
315 East Jackson  
El campo, Texas 77437

Hungerford MUD 1  
P.O. Box 130  
Hungerford, Texas 77448

Wharton County WCID 2  
P.O. Box 639  
East, Texas 77435

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Shiner Gazette  
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