



# Application

## Abridged

Due February 3, 2017 by

5:00pm

SWIFT@twdb.texas.gov

By submitting this abridged application, you understand and confirm that the information provided is true and correct to the best of your knowledge and further understand that the failure to submit a complete abridged application by the stated deadlines, or to respond in a timely manner to additional requests for information, may result in the withdrawal of the abridged application without review.

GENERAL INFORMATION				
<b>Name of Entity</b>		<b>County</b>	<b>Regional Water Planning Area</b>	
West Harris County Regional Water Authority		Harris	H - Region H	
Entity Contact Information				
<b>Contact Person</b>	<b>Name</b>	Melinda D. Silva, P.E.		
	<b>Title</b>	Deputy Program Manager		
<b>Mailing Address</b>	Dannenbaum Engineering Corporation			
	3100 West Alabama			
	Houston, Texas 77098			
<b>Phone Number</b>	713-527-6427	<b>Fax Number</b>	713-527-6427	
<b>Email Address</b>	melinda.silva@dannenbaum.com			
PROJECT DESCRIPTION				
<b>Name of Project</b> <i>(As it appears in the 2017 State Water Plan)</i>		Northeast Water Purification Plant Expansion		
<b>Where can the project be found in the most recent Regional Water Plan?</b>		<b>Project described on page:</b>	5-B-TRET-004-1	<b>Capital costs listed on page:</b> ES-12
<b>Phase(s) Applied For</b>		<input checked="" type="checkbox"/> Planning <input type="checkbox"/> Acquisition <input checked="" type="checkbox"/> Design <input checked="" type="checkbox"/> Construction		
<b>Population Served When Fully Operational</b>		COH-2,195,914 plus WHCRWA 681,985(in 2040) plus other Authorities		



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Description of Proposed Project
<p>Harris Galveston Subsidence District Regulations to convert users from groundwater to surface or alternate water is increasing treated water demands. The CoH is among the largest providers of surface water to customers in Region H. COH currently treats water originating in the Lakes Houston and Livingston in three treatment plants prior to distribution to its customers. The three plants are the Northeast Water Purification Plant (NEWPP), the East water Purification Plant (EWPP), and the Southeast Water Purification Plant (SEWPP). Over the course of RWP planning period, increasing CoH and customer demands as well as Harris Galveston Subsidence District Requirements will drive the need for additional surface water treatment. This NEWPP expansion will accommodate Houston customers including four regional Water Authority demand. The expanded plant will be built in four 80 MGD modules for a total potable water capacity of 320 MGD.</p> <p>This project is listed in the TWDB Water Plan under the COH. The Design Build project is being developed by the CoH but will serve WHCRWA as well as other water Authorities. WHCRWA is funding their pro-rata share of the project which is approximately 25% based on water demand allocation of the overall project. The overall project costs have increased approximately \$200M since the original loan application as a result of design development, pilot testing results and treatment refinements. Design refinements at the new facility attempt to address the ongoing treatment challenges that persist at the existing plant. WHCRWA is requesting additional funds to cover their portion of these increased costs.</p>

<b>Emergency</b> <i>(select all that apply)</i>	<input type="checkbox"/> Applicant/entity's water supply will last less than 180 days. <input type="checkbox"/> Water supply need occurs earlier than anticipated in the State Water Plan. <input type="checkbox"/> Applicant has received or applied for Federal emergency funding. <input checked="" type="checkbox"/> None of the above.
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<b>Agricultural Efficiency Project?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>Efficiency improvement achieved by implementing the project</b> <i>(Please provide an attachment showing the basis for your calculation.)</i>	<input type="checkbox"/> <1% <input type="checkbox"/> 1%-1.9% <input type="checkbox"/> 2%-5.9% <input type="checkbox"/> 6%-9.9% <input type="checkbox"/> 10%-13.9% <input type="checkbox"/> 14%-17.9% <input type="checkbox"/> ≥18%
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Household Cost Factor			
<i>(Household Cost Factor for SWIFT prioritization is calculated by dividing the service area's average residential water bill by its annual median household income. For regional projects, these should represent the combined service areas of all participating entities.)</i>			
<b>Estimated average annual residential water bill:</b>	for WHCRWA \$425.04	<b>Annual Median Household Income:</b>	\$52,533 Harris County

<b>The proposed project addresses:</b>	<input type="checkbox"/> Conservation <input type="checkbox"/> Water Loss <input checked="" type="checkbox"/> N/A
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Volume of Water Produced/Conserved (in Acre/Feet per Year)					
2020	2030	2040	2050	2060	2070
0	358,400	358,400	358,400	358,400	358,400

<b>Readiness to Proceed</b> <i>(select all that apply)</i>	<input checked="" type="checkbox"/> Preliminary planning or design work (30% of total project) has been completed or is not required. <input checked="" type="checkbox"/> Applicant is prepared to begin implementation or construction within 18 months of application deadline. <input checked="" type="checkbox"/> Applicant has acquired all water rights associated with the proposed project, or none will be required.
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ESTIMATED COSTS		
<b>Estimated Project Costs</b>	Low-interest Loan	\$ 50,000,000
	Deferred Loan	\$ 0
	Board Participation	\$ 0
	Local Contribution	\$ 76,550,000
	Other: \$306,200,000	\$
	<b>Total Estimated Project Costs</b>	<b>\$ 432,750,000</b>
<b>Anticipated Commitments</b> <i>Attach proposed schedule for multi-year commitments</i>		<input checked="" type="checkbox"/> One-Time Commitment <input type="checkbox"/> Multi-Year Commitments

**Please attach a list of all water systems served by the proposed project.**

**West Harris County Regional Water Authority (WHCRA)  
Entities to be Served (Source: WHCRA GRP as of January 2017)**

1	Addicks U.D.	31	Harris Co. M.U.D. 151		61	Harris Co. M.U.D. 371	91	Remington M.U.D. 1
2	Barker Cypress M.U.D.	32	Harris Co. M.U.D. 152		62	Harris Co. M.U.D. 374	92	Renn Road M.U.D.
3	Beechnut M.U.D.	33	Harris Co. M.U.D. 155		63	Harris Co. M.U.D. 405	93	Ricewood M.U.D.
4	Bissonnet MUD	34	Harris Co. M.U.D. 157		64	Harris Co. M.U.D. 418	94	Rolling Creek U.D.
5	Camfield MUD	35	Harris Co. M.U.D. 162		65	Harris Co. M.U.D. 419	95	Spencer Road P.U.D.
6	Castlewood M.U.D.	36	Harris Co. M.U.D. 163		66	Harris Co. M.U.D. 432	96	West Harris Co. M.U.D. 2
7	Chelford City M.U.D.	37	Harris Co. M.U.D. 165		67	Harris Co. M.U.D. 433	97	West Harris Co. M.U.D. 4
8	Chelford One MUD	38	Harris Co. M.U.D. 166		68	Harris Co. M.U.D. 434	98	West Harris Co. M.U.D. 5
9	Cimarron M.U.D.	39	Harris Co. M.U.D. 167		69	Harris Co. M.U.D. 437	99	West Harris Co. M.U.D. 7
10	Clay Road M.U.D.	40	Harris Co. M.U.D. 171		70	Harris Co. M.U.D. 438	100	West Harris Co. M.U.D. 14
11	Fry Road M.U.D.	41	Harris Co. M.U.D. 172		71	Harris Co. M.U.D. 449	101	West Harris Co. M.U.D. 15
12	Harris Co. M.U.D. 46	42	Harris Co. M.U.D. 173		72	Harris Co. M.U.D. 457	102	West Harris Co. M.U.D. 17
13	Harris Co. M.U.D. 61	43	Harris Co. M.U.D. 179		73	Harris Co. M.U.D. 458	103	West Memorial M.U.D.
14	Harris Co. M.U.D. 62	44	Harris Co. M.U.D. 180		74	Harris Co. M.U.D. 495	104	West Park M.U.D.
15	Harris Co. M.U.D. 63	45	Harris Co. M.U.D. 183		75	Harris Co. M.U.D. 500	105	Westlake M.U.D. 1
16	Harris Co. M.U.D. 64	46	Harris Co. M.U.D. 185		76	Harris Co. M.U.D. 506	106	Weston MUD
17	Harris Co. M.U.D. 70	47	Harris Co. M.U.D. 186		77	Harris Co. U.D. 6		
18	Harris Co. M.U.D. 71	48	Harris Co. M.U.D. 188		78	Harris Co. W.C.I.D. 157		
19	Harris Co. M.U.D. 81	49	Harris Co. M.U.D. 196		79	Harris-Ft. Bend M.U.D. 3		
20	Harris Co. M.U.D. 102	50	Harris Co. M.U.D. 208		80	Horsepen Bayou M.U.D.		
21	Harris Co. M.U.D. 105	51	Harris Co. M.U.D. 238		81	Interstate M.U.D.		
22	Harris Co. M.U.D. 106	52	Harris Co. M.U.D. 239		82	Jackrabbit Road P.U.D.		
23	Harris Co. M.U.D. 120	53	Harris Co. M.U.D. 250		83	Langham Creek U.D.		
24	Harris Co. M.U.D. 127/239	54	Harris Co. M.U.D. 257		84	Mayde Creek M.U.D.		
25	Harris Co. M.U.D. 130	55	Harris Co. M.U.D. 264 (WP No. 1)		85	Memorial M.U.D.		
26	Harris Co. M.U.D. 132	56	Harris Co. M.U.D. 276		86	Mission Bend M.U.D. 1		
27	Harris Co. M.U.D. 136	57	Harris Co. M.U.D. 284		87	Mission Bend M.U.D. 2		
28	Harris Co. M.U.D. 144	58	Harris Co. M.U.D. 287		88	Morton Road M.U.D.		
29	Harris Co. M.U.D. 147	59	Harris Co. M.U.D. 341		89	North West Harris Co. M.U.D. 12		
30	Harris Co. M.U.D. 149	60	Harris Co. M.U.D. 370		90	Nottingham Country M.U.D.		

**Note: This is a listing of all the MUDs in the WHCRA that have either existing active wells or approved permit applications for wells that will be drilled in near future and are included in the WHCRA's GRP.**