

Water Conservation Plan

for

**San Jacinto River Authority
GRP Division**

Prepared by

San Jacinto River Authority

Adopted: March 27, 2014

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Section 1. Introduction

In 1996, severe drought conditions affected every region of the State. Water systems throughout the State were forced to cope with water shortages or system capacity problems. In response to the 1996 drought, the 75th Texas Legislature enacted Senate Bill 1, which directed the State to take a regional approach to water planning. One of the provisions of the legislation required the Texas Commission on Environmental Quality (TCEQ) to adopt rules requiring wholesale and retail public water suppliers to develop water conservation and drought contingency plans.¹

Water conservation and drought contingency plans work together to help Texans manage short-term and long-term water shortages. The goal of a water conservation plan is to achieve lasting, long-term improvements in water use efficiencies using strategies to reduce the amount of water withdrawn from a particular source, and to ensure that the water withdrawn is used in an efficient manner. Drought contingency plans are short-term in nature, using temporary supply and demand management measures in response to temporary and potentially recurring water shortages and other emergencies.

The San Jacinto River Authority (SJRA), as a water right holder and wholesale water supplier, is required to submit a Water Conservation and Drought Contingency Plan to the TCEQ and Texas Water Development Board (TWDB). SJRA was created by the Texas Legislature in 1937 to:

“Provide water for domestic, municipal, commercial, industrial and mining purposes within and without the watershed of [the San Jacinto River], including water supplies for cities, towns and industries, and in connection therewith to construct or otherwise acquire water transportation, treatment and distribution facilities and supplemental sources of water.”²

The SJRA watershed includes all of Montgomery County and portions of Waller, Grimes, Walker, San Jacinto, and Liberty Counties (Figure 1-1). The SJRA also serves customers in the Houston area and is authorized to operate in east Harris County through an agreement with the City of Houston.

SJRA provides both surface water and groundwater to its customers. In 2001, the Texas Legislature created the Lone Star Groundwater Conservation District (LSGCD) to conserve, protect, and enhance the groundwater resources of Montgomery County. Scientific studies conducted by the LSCGD confirmed that the demand for groundwater in many places within the county was exceeding what the

¹ Senate Bill 1, 75th Legislature, Section 12.1272 of the Texas Water Code.

² House Bill No. 832, 45th Legislature, Regular Session, Austin, TX, 1937.

aquifers could sustainably yield, and water levels were declining. Modeling of future population and water demand showed that the projected impacts of continued reliance on groundwater would soon create significant water-level declines and severe problems for water suppliers in Montgomery County. As a result of this study, the LSGCD has developed groundwater reduction goals for users in Montgomery County. The SJRA is committed to meeting these goals as it converts from primarily groundwater use to more surface water use.

The following is provided as the Water Conservation Plan (including utility description, service area description, and customer data) for the SJRA Groundwater Reduction Plan (GRP) Division (the Division). The Division's Drought Contingency Plan is provided under separate cover.

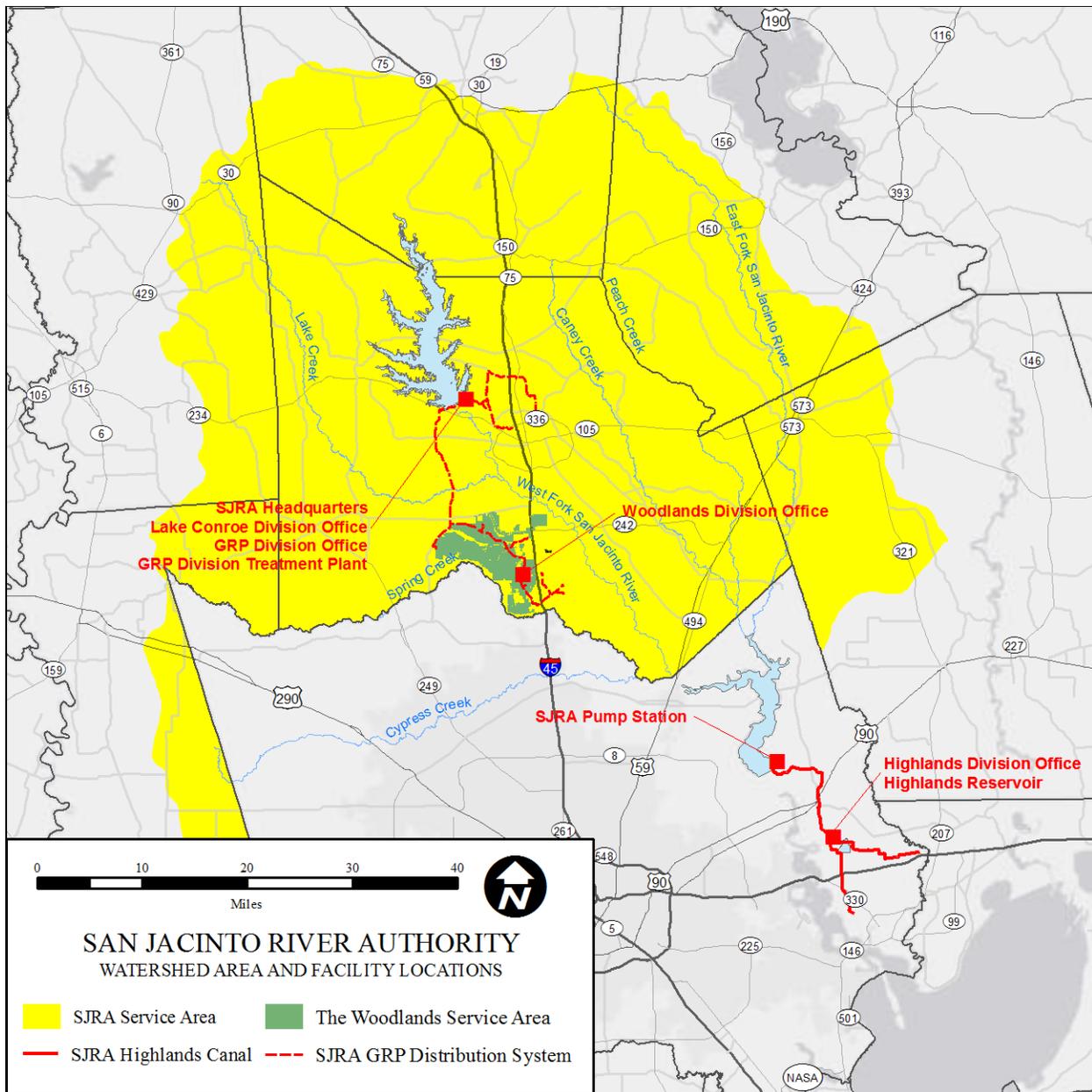


Figure 1-1. Watershed Area and Facility Locations

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Section 2. Utility and Service Area Description

2.1 Utility Description

The Division's goal is to provide treated surface water to its GRP Participants in such a way that allows the participants to meet the groundwater reduction requirements mandated by Phase II(B) of the Lone Star Groundwater Conservation District (LSGCD) District Regulatory Plan (DRP). Through their research and permitting efforts, LSGCD determined that groundwater production in Montgomery County exceeded the sustainable recharge rate and in response established certain requirements to reduce groundwater use. Phase I of the LSGCD DRP, which was adopted in 2006, established a target for sustainable production. DRP Phase II(A) was adopted in 2008 and required entities or groups of entities permitted to produce 10,000,000 gallons per year of groundwater (Large Volume Groundwater Users, or LVGUs) to assess future water needs and potential alternative supplies. Phase II(B) of the DRP requires that all LVGUs either individually or in conjunction with others reduce their groundwater production to not more than 70% of their year 2009 permitted production (Total Qualifying Demand) no later than January, 2016.

In order to achieve this goal, the Division will treat and distribute water to over-convert certain selected GRP Participants to surface water in order to achieve the overall target reduction for the GRP service area while other GRP Participants will continue to utilize groundwater to meet the entirety of their water needs. This approach ensures the most cost-effective solution to the problem of groundwater reduction. Infrastructure required to serve selected GRP Participants, including a surface water treatment plant and distribution pipeline system, is currently in development. The Division is scheduled to begin actively providing surface water on a wholesale basis before January 1, 2016 in order to meet LSGCD requirements. Although not all GRP Participants will receive surface water from the Division, this water conservation plan will be applied equally all GRP Participants.

SJRA operates Lake Conroe, one of two major surface water supply reservoirs located in the San Jacinto River Basin. Completed in 1973, Lake Conroe is owned by SJRA and the City of Houston. SJRA owns one-third and the City of Houston owns two-thirds of the total 100,000 acft/yr permitted water rights from the lake under Certificate of Adjudication (COA) 10-4963. Lake Houston, which is owned by the City of Houston, is the other surface water supply reservoir in the basin.

SJRA's portion of the Lake Conroe water right plus a long-term water supply contract with the City of Houston for its water in Lake Conroe will be used by the Division to meet the needs of its GRP Participants. The SJRA's water right for Lake Conroe (33,333 ac-ft/yr) is permitted for multiple uses. The Division will serve municipal customers when it begins actively supplying wholesale surface water.

2.2 Service Area Description

The approximately 2,314-square mile SJRA watershed area of the San Jacinto River Basin is bounded on the north and the east by the Trinity River Basin and the Trinity-San Jacinto Coastal Basin, on the west by the Brazos River Basin, and on the south by Harris County. However, the GRP Participants are located in Montgomery County. A map of the Division, showing the location of the Participants, is provided below (Figure 2-1). Prior to the LSGCD conversion deadline of January 1, 2016 the Division will begin to supply select GRP Participants with water from Lake Conroe, with additional GRP Participants served with Lake Conroe supplies for subsequent conversion phases of implementation. Other GRP Participants will continue to utilize their current groundwater sources. Some GRP Participants may potentially also utilize other alternative water sources (Catahoula Formation groundwater, reuse, etc.) in conjunction with existing groundwater supplies or treated surface water. The Division does not own or operate wastewater infrastructure.

Prior to the surface water conversion, SJRA does not actively provide treated surface water to GRP Participants and thus in 2013 there was no actual usage of contract supplies. Table 2-1 summarizes estimated GRP Participant water use by source for 2016, when SJRA will begin to actively supply treated surface water to selected GRP Participants. It is anticipated that total GRP Participant water demand at that time will be 63.20 MGD, of which 23.95 MGD is expected to be met by SJRA treated surface water.

The Division's service area is distributed across an extensive portion of Montgomery County, encompassing a large number of the communities south and east of Lake Conroe. The Division's infrastructure will reach GRP Participants through a phased development process, with the first phase of water distribution pipelines installed and operational prior to the LSGCD conversion deadline of January 1, 2016. The first phase will provide treated Lake Conroe water supplies to the City of Conroe, The Woodlands, and several adjacent entities. Additional GRP Participants will be served in future phases by expansion of the transmission system. As of 2013, the Division included 141 GRP Participants. The largest participants are The Woodlands and the City of Conroe.

The Woodlands is a master-planned community located in southern Montgomery County and is made up of 11 individual Municipal Utility Districts (MUDs) that operate as a single entity through The Woodlands Joint Powers Agency (WJPA), in addition to a twelfth MUD that is not a part of the WJPA. The WJPA provides retail water and wastewater service to The Woodlands and purchases wholesale groundwater and Wastewater treatment services from SJRA through the SJRA Woodlands Division. While The Woodlands will receive treated surface water from the GRP Division by the LSGCD conversion deadline of 2016, The Woodlands MUDs will continue to be wholesale groundwater customers of the SJRA Woodlands Division.

The City of Conroe is the county Seat of Montgomery County and is located southeast of Lake

Conroe near the intersection of IH-45 and Hwy 105. Conroe has grown rapidly in recent years, increasing in population from 36,811 in Year 2000 to 56,207 by Year 2010. Other GRP Participants include the cities of Cut and Shoot, Magnolia, Oak Ridge North, Splendora, Willis, and Woodbranch, as well as numerous MUDs, water utilities, and communities.

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Table 2-1. Projected Year 2016 GRP Participant Water Demand

Use Type	Treated Surface Water (MGD)	Groundwater (MGD)	Brackish Groundwater (MGD)	Reuse (MGD)	Total
Municipal	23.95	38.46	0.43	0.35	63.20
Industrial	0.00	0.00	0.00	0.00	0.00
Agricultural	0.00	0.00	0.00	0.00	0.00
Total	23.95	38.46	0.43	0.35	63.20

A full description of the Division's customer information can be found in Appendix A, (GRP Participant Summary) and Appendix B (Water Utility Profile).

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Section 3. Water Conservation Plan

In the Texas Water Code, water conservation is defined as follows:

“(A) The development of water resources; and,

“(B) Those practices, techniques, and technologies that will reduce the consumption of water, reduce the loss or waste of water, improve the efficiency in the use of water, or increase the recycling and reuse of water so that a water supply is made available for future or alternative uses.”³

Based upon these concepts of water conservation, the Division’s objective is to develop a water conservation plan that increases water use efficiency, thereby reducing water demands, without adversely affecting population and the economic growth potential of its customers.

The goals of this Plan are to encourage GRP Participants to reduce water consumption, limit unaccounted for water, and extend the capacity of both existing and future water supplies. The potential results of a successfully implemented policy are reduced demands, prolonged capacity of existing facilities, delayed need for new facilities, and potential reduction, or downsizing of treatment and distribution facilities, which could result in economic benefits to the Division and its GRP Participants. The greatest obstacle to implementing any water conservation strategy is the implementation cost relative to the cost of existing water supplies. As the cost of compliance with existing regulations increases, the incentive to conserve water will increase.

3.1 GRP Division 5- and 10-year Water Conservation Target Goals

As a wholesale water provider, the Division is not involved in the day-to-day operations of its GRP Participants and therefore does not have direct control over the demands that it serves; however, it is working closely with the GRP Participants to encourage water-use reduction. Additionally, the Division is empowered through the GRP contracts to take certain enforcement measures to promote compliance with GRP requirements. The water conservation measures described below include those under the direct control of, and being implemented by, the Division as well as goals supported and encouraged by the Division for implementation by its customers. The SJRA goal across for the Division is to achieve a reduction in water demand of 1% per year.

³ TWC, Section 17.001 (23) (A) and (B).

3.2 Water Conservation Methods

The Division's water conservation plan includes the following water conservation methods. Each method is described in greater detail in the following subsections.

- Metering and Record Management;
- Leak Detection, Repair, and Minimization of Conveyance Losses;
- Recycling and Reuse;
- Rate Structure;
- Conservation Coordination;
- Conservation Stakeholder Group;
- Contractual Requirements for Customer Water Conservation Plans;
- Customer Conservation Plan Guidance;
- Customer Reporting Requirements;
- Public Information and Education;
- Awards and Recognition Program;
- Encouraging Customer Conservation Practices; and
- Implementation, Enforcement, Coordination with RWPG, and Updating of the Plan.

3.2.1 Metering and Record Management

The GRP contracts executed with Division customers provide extensive requirements for metering of flows. Water delivered to selected GRP Participants from Lake Conroe supplies are to be monitored using meters installed and maintained by SJRA and the Division, with testing for meter accuracy at least once every twelve months. Meters must register flows between 97 and 102% of the correct value.

The GRP Participants are responsible for meter installation and maintenance for groundwater withdrawals from their own wells or water imported from other entities who are not Participants in the SJRA GRP. GRP Participants must test meters for accuracy at least once every twelve months. Meters must register flows between 97 and 102% of the correct value.

The data collected from the metering of the GRP Participants allows the Division and SJRA to maintain a detailed record management system of water deliveries.

3.2.2 Leak Detection, Repair, and Minimization of Conveyance Losses

The Division will maintain its transmission infrastructure supplying treated surface water to GRP Participant receiving facilities. Potential leaks identified through accounting, inspection, or customer reporting will be repaired promptly to minimize conveyance losses. Those components of the GRP

Participant's retail system used to distribute water from the receiving facilities into each of the selected GRP Participant's system are owned and maintained by the GRP Participant. The Division encourages its customers to engage in leak detection and repair in their own systems. The Division encourages its GRP Participants to take measures to reduce unaccounted-for water to prevent waste and facilitate achievement of the Water Conservation Plan demand reduction goals as specified above.

3.2.3 Recycling and Reuse

The Division encourages continued once-through reuse of water supply by GRP Participants. While Lake Conroe will serve as the supply source of raw surface water for the Division, the benefits of ongoing reuse efforts by GRP Participants are recognized by the Division as important contributors to meeting future needs. As part of the GRP process, draft policy has been adopted regarding reuse by GRP Participants. This draft policy includes elements to evaluate potential reuse projects, promote reuse to reduce groundwater production, prohibit unauthorized resale of SJRA-supplied non-potable water, protect other supplies, and maintain legal and regulatory compliance. SJRA and the Division will continue to consider and evaluate opportunities for reuse as they develop.

3.2.4 Rate Structure

SJRA utilizes a non-promotional rate structure for contracts with its GRP Participants; these rates are periodically reviewed and adjusted as necessary. SJRA also encourages its GRP Participants to establish rate structures promoting conservation for sales to their wholesale and retail customers.

3.2.5 Conservation Coordination

The GRP Division Manager and/or a designee will serve as conservation liaison and primary point of contact for GRP Participants and State agencies regarding the development, monitoring, and implementation of the Division's Water Conservation Plan. The Division Manager and/or a designee will oversee the execution and implementation of all elements of the program and will be responsible for maintaining adequate records for program verification.

3.2.6 Conservation Stakeholder Group

SJRA will coordinate with the GRP Review Committee regarding conservation practices and Water Conservation Plan implementation. Meetings may be held periodically at the discretion of the General Manager, GRP Division manager, or a designated representative to discuss issues relevant to conservation and gather stakeholder input.

3.2.7 Contractual Requirements for Customer Water Conservation Plans

Through the Division, SJRA requires in its contracts that GRP Participants adopt and enforce water conservation and drought contingency plans meeting or exceeding the requirements to Title 30, Texas Administrative Code, Chapter 288. Customer water conservation plans should be consistent with the conservation goals of the Division and must be at least as stringent as the Division's Plan. Further, these plans must be submitted to the GRP Administrator. The specific contract language is as follows:

Section 3.05: Water Conservation; Drought Contingency. Participant agrees to adopt and enforce a water conservation plan meeting the applicable minimum requirements of the Conservation District and the TCEQ (30 T.A.C. §§ 288.1-288.7, or any successor rules), as well as a drought contingency plan meeting the applicable minimum requirements of the Conservation District and the TCEQ (30 T.A.C. §§ 288.20-288.22, or any successor rules). Participant may, but shall not be obligated, to include provisions in such plans that exceed or are more stringent than the minimum requirements described in the preceding sentence. Such plans must be completed and filed with the GRP Administrator at such times as may be reasonably required by the GRP Administrator, without regard to whether Participant will connect to the Project. In addition, after review by the Review Committee, the Authority may require Participant to adopt and enforce minimum requirements adopted by the Authority for such water conservation plans and drought contingency plans but only if: (i) such minimum requirements apply on an equal and uniform basis to all Participants and to all entities located in whole or in part in Montgomery County to which the Authority supplies wholesale groundwater or Water; and (ii) the Authority has the legal right to impose such minimum requirements on all such entities to which the Authority supplies wholesale groundwater or Water.

SJRA will include in all water supply contracts entered into, renewed, or amended after the adoption of the Division's Water Conservation Plan a requirement that customers develop and implement water conservation a plans as required by Title 30, Texas Administrative Code, Chapter 288 30 TAC §288). Per 30 TAC §288, any future contract, renewal, or amendment will also require that successive sales from SJRA customers to others include a contractual stipulation for water conservation requirements. At a minimum, customer conservation plans must comply with the requirements of 30 TAC §288. Customers should submit to SJRA on an annual basis a summary of water conservation and drought contingency plan implementation.

SJRA may periodically update these criteria, as well as the Water Conservation and Drought Contingency Plans for the Division to meet legal requirements or address changing conditions; subsequent to such revisions, customers of the Division are requested to update their water conservation and drought contingency plans as applicable.

3.2.8 Customer Conservation Plan Guidance

SJRA will develop, and will provide to GRP Participants upon request, model water conservation plans meeting the contractual requirements described in Section 3.2.7 above for each customer type. Additionally, SJRA will at request of its GRP Participants review draft water conservation and drought contingency plans for consistency with contractual requirements and the Division's Water Conservation and Drought Contingency Plans. SJRA will also hold one or more workshops providing information to its GRP Participants regarding the Plans and contractual requirements.

3.2.9 Customer Reporting Requirements

In 2011, the 82nd Texas Legislature passed Senate Bill (SB) 181, which addressed the need for consistency in water use reporting by municipalities, water utilities, and others. Subsequently, TWDB and TCEQ developed detailed guidance and procedures for calculating and reporting water use, water loss, and other factors.

While SJRA is not directly impacted by these requirements as a wholesale provider, the Division and other divisions provide contracted water supply to a number of entities which are impacted by SB181. The broad range of water uses served by SJRA and the requirements of multiple State reporting programs creates a need for the consistent reporting. As such, SJRA will require GRP Participant water usage reports, including any values for per-capita water demand, to follow the procedures established by TWDB and TCEQ.⁴ Water use reports should include data at the sector level (single family residential, multi-family residential, industrial, commercial, agricultural, etc.) and should additionally include estimated population served and calculated water loss. Further, SJRA will request that GRP Participants annually submit to SJRA a copy of all conservation plan reporting forms submitted to the TCEQ.

SJRA will also hold one or more workshops providing information to GRP Participants on the reporting requirements discussed in this section.

⁴ TWDB et al. 2012. Guidance and Methodology for Reporting on Water Conservation and Water Use

3.2.10 Public Information and Education

SJRA will use the resources of the TWDB, the American Water Works Association, and the American Public Works Association to assist in obtaining publications and materials for the public education program. Individual pamphlets and flyers provided from these entities would be selected for specialized water-conservation needs as they arise. SJRA also provides information on conservation and efficient water use on the Authority website at <http://www.sanjacintoriverauthority.com/>.

SJRA will provide, as needed, water conservation literature to its GRP Participants. Through dialogue with its customers, the Division is committed to promoting improvements in industrial, municipal, and irrigation processes to achieve conservation.

SJRA will make information available through its public information and education program for plumbers and customers to use when purchasing and installing plumbing fixtures, water-using appliances, and watering equipment. Information regarding retrofit devices, such as low-flow shower heads or toilet dams that reduce water use by replacing or modifying existing fixtures or appliances, will also be provided.

Other public information approaches which SJRA has utilized in the past and may implement in the future include public tours of facilities, participation in local environmental events, and joint operation with Lone Star Groundwater Conservation District of a Mobile Teaching Lab.

3.2.11 Awards and Recognition Program

SJRA will develop a program annually providing non-monetary recognition of GRP Participant efforts in implementing and promoting water conservation practices. Recognition of Participants will include posting of articles describing customer achievements on the SJRA website. SJRA may additionally establish criteria regarding:

- Requirements for consideration for eligibility, including any nomination or application process and any minimum level of conservation required for consideration;
- The number of entities of each user type to be considered;
- Additional public notification or recognition measures; and
- Other criteria as deemed applicable by SJRA.

3.2.12 Encouraging Customer Conservation Practices

SJRA encourages all of its GRP Participants to consider implementing rules, measures, and emerging technologies that promote water conservation and efficient use. Recommended measures include, but are not limited to, the following:

- Prohibitions on wasting water;

- Time-of-day watering restrictions;
- Water conservation pricing structures;
- Landscape irrigation conservation, including integrating rainfall/freeze sensors into irrigation systems;
- Water reuse
- Rainwater harvesting
- Public education programs

Additional information on conservation practices for a wide range of water uses can be found at the TWDB website (<http://www.twdb.state.tx.us/>).

3.2.13 Implementation, Enforcement, Coordination with RWPG, and Updating of the Plan

The GRP Division Manager and/or designees will act as the administrators of the water conservation program. The administrators will oversee the execution and implementation of all elements of the program and monitor the progress of the plan. Additionally, the administrators will be responsible for submission of an annual report to the TCEQ and TWDB on the progress, and any changes to, the water conservation plan. SJRA is responsible for maintaining adequate records for program verification.

SJRA will enforce the terms of contracts with GRP Participants related to water conservation measures and Water Conservation Plan requirements.

The Division is located within the Region H Regional Water Planning Area. In accordance with the TCEQ rules, the Division provides a copy of its water conservation plan to the Region H Regional Water Planning Group. A copy of the transmittal letter is included in Appendix C.

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Appendix A
GRP Participant Summary

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Appendix A: GRP Participant Summary

GRP Participant	Projected Water Demand (MGD)			
	2016	2025	2035	2045
City of Conroe	11.11	15.16	19.18	23.15
City of Cut and Shoot	1.53	3.41	5.51	7.60
City of Magnolia	0.47	0.47	0.47	0.47
City of Oak Ridge North	0.42	0.43	0.43	0.43
City of Splendor	0.71	0.71	0.71	0.71
City of Willis	0.72	1.04	1.25	1.43
City of Woodbranch	0.13	0.20	0.27	0.41
Consumers Water Inc. (Porter Terrace)	0.03	0.03	0.03	0.03
Consumers Water Inc. (Spring Forest)	0.08	0.09	0.09	0.10
HMW SUD (Allenwood)	0.08	0.10	0.13	0.15
HMW SUD (Armadillo Woods)	0.04	0.04	0.04	0.05
HMW SUD (Coe Country)	0.17	0.17	0.18	0.18
HMW SUD (Hunters Retreat)	0.12	0.16	0.21	0.26
HMW SUD (Kipling Oaks 1)	0.09	0.09	0.09	0.09
HMW SUD (Kipling Oaks 2)	0.12	0.12	0.12	0.12
HMW SUD (Sendera)	0.08	0.08	0.08	0.08
HMW SUD (Towering Oaks)	0.12	0.15	0.17	0.20
MC MUD No. 19	0.57	0.57	0.57	0.57
MC UD No. 2	0.32	0.32	0.32	0.32
MC WCID No. 1	0.31	0.34	0.37	0.41
New Caney MUD	0.98	1.07	1.16	1.26
Patton Village (East)	0.05	0.06	0.07	0.07
Patton Village (West)	0.04	0.05	0.06	0.07
Point Aquarius MUD	0.39	0.39	0.39	0.39
Rayford Road MUD	1.47	1.47	1.47	1.47
Roman Forest	0.27	0.30	0.32	0.35
San Jacinto River Authority (The Woodlands)	19.66	21.50	23.37	25.23
Southern MC MUD	1.26	1.26	1.26	1.26
Southwest Utilities, Inc. (Texan American Water-Hidden Forest)	0.05	0.09	0.12	0.15
Southwest Utilities, Inc. (Texas American Water-Frontier Arrowhead)	0.07	0.07	0.08	0.11
Spring Creek UD	0.59	0.59	0.59	0.59
1404 Blaketree, LP	1.10	2.11	3.13	4.14
Aqua Texas, Inc. (Brushy Creek)	0.04	0.04	0.04	0.04
Aqua Texas, Inc. (Carriage Hills)	0.25	0.28	0.30	0.33
Aqua Texas, Inc. (Cimarron Country)	0.16	0.16	0.16	0.16
Aqua Texas, Inc. (Clear Creek Forest)	0.12	0.13	0.13	0.14
Aqua Texas, Inc. (Crystal Forest)	0.17	0.32	0.42	0.56
Aqua Texas, Inc. (Decker Woods)	0.05	0.05	0.05	0.05
Aqua Texas, Inc. (Deerwood Sub.)	0.09	0.09	0.09	0.09
Aqua Texas, Inc. (Dogwood Hills)	0.06	0.06	0.06	0.06
Aqua Texas, Inc. (Greenfield Forest)	0.05	0.05	0.05	0.05
Aqua Texas, Inc. (Huntington Est.)	0.03	0.04	0.04	0.04
Aqua Texas, Inc. (Indigo Ranch)	0.06	0.09	0.17	0.25
Aqua Texas, Inc. (Lake Conroe Forest & Tejas Creek)	0.38	0.57	0.76	0.95
Aqua Texas, Inc. (Lake Conroe Village)	0.04	0.04	0.04	0.04
Aqua Texas, Inc. (Lake Creek Forest)	0.12	0.24	0.35	0.46
Aqua Texas, Inc. (Legends Ranch Estates)	0.11	0.11	0.11	0.11
Aqua Texas, Inc. (Shadow Bay)	0.03	0.03	0.03	0.03
Aqua Texas, Inc. (Timberloch Estates)	0.05	0.05	0.06	0.07
Aqua Texas, Inc. (Turtle Creek)	0.05	0.05	0.05	0.05
Aqua Texas, Inc. (Walnut Springs)	0.07	0.07	0.08	0.09
Aqua Texas, Inc. (Westwood 1&2/Old Egypt)	0.21	0.21	0.21	0.21
Archdiocese of Galveston - Houston Circle Lake Retreat Center	0.06	0.06	0.06	0.06
C & R Water Supply Inc (Bridgepoint Water System) fka Wagner Services	0.03	0.03	0.03	0.03
C & R Water Supply Inc (Clear Water Cove) fka Wagner Services	0.03	0.03	0.03	0.03
C & R Water Supply Inc (Emerson Estates) fka Wagner Services	0.10	0.10	0.10	0.10
C & R Water Supply Inc (Rogers Road WS) fka Wagner Services	0.06	0.06	0.07	0.07
C & R Water Supply, Inc. (Timberline Estates) (fka Wagner Services)	0.08	0.10	0.11	0.13

Appendix A: GRP Participant Summary

GRP Participant	Projected Water Demand (MGD)			
	2016	2025	2035	2045
Cape Malibu Water Supply Inc.	0.03	0.03	0.03	0.03
Clover Creek MUD	0.06	0.07	0.08	0.11
Conroe ISD (Moorehead Jr. High/Caney Creek High)	0.06	0.06	0.06	0.06
Conroe Resort Utilities, LLC (fka D L Utilities)	0.18	0.18	0.18	0.18
Corinthian Point MUD No.2	0.13	0.13	0.14	0.14
Del Lago Estates	0.06	0.06	0.07	0.07
Diamondhead Water & Sewer	0.05	0.05	0.05	0.05
Domestic Water Company	0.17	0.30	0.41	0.54
East Montgomery County Mud 3	0.11	0.16	0.20	0.24
Everett Square Inc. (Windcrest Est., Honea Egypt, Part of 1488 System)	0.05	0.07	0.09	0.11
Everett Square, Inc. (Shady Oaks)	0.04	0.04	0.04	0.04
Far Hills Utility District	0.22	0.26	0.31	0.36
Gallant GP, LLC (Wedgewood Golf Course) (fka Wedgewood Golf Course)	0.10	0.14	0.17	0.21
Johnston's Utilities, Inc.	0.61	0.67	0.73	0.79
Keenan Water Supply Corp.	0.29	0.68	1.26	1.88
Kings Manor MUD	0.40	0.40	0.40	0.40
Lake Bonanza Water Supply Corp.	0.15	0.16	0.17	0.18
Lake Conroe Hills MUD	0.13	0.15	0.16	0.17
Lake South Water Supply	0.07	0.08	0.08	0.09
Lakeland Section 4 Civic Club	0.03	0.03	0.03	0.03
Lazy River Improvement District	0.16	0.22	0.28	0.33
MC Fresh Water Supply (Dist #6)	0.03	0.03	0.03	0.03
MC MUD No. 112	0.23	0.30	0.38	0.46
MC MUD No. 119	0.43	0.53	0.65	0.74
MC MUD No. 15	0.48	0.59	0.65	0.76
MC MUD No. 16	0.07	0.09	0.11	0.14
MC MUD No. 24	0.07	0.09	0.12	0.14
MC MUD No. 83 (Also MUD No. 84)	0.63	0.67	0.72	0.77
MC MUD No. 89 (Also MUD No. 88)	0.98	0.98	0.98	0.98
MC MUD No. 94	0.49	0.49	0.49	0.49
MC MUD No. 99	0.29	0.71	0.71	0.71
MSEC Enterprises (Crown Ranch)	0.53	0.98	1.49	1.99
MSEC Enterprises (Highland Ranch/Lake Forest/Shoreline)	0.06	0.07	0.08	0.08
MSEC Enterprises (Montgomery Trace WS/Crown Oaks)	1.92	3.59	4.39	5.54
North Woods Water Supply Corp.	0.04	0.05	0.06	0.06
Northwest Water System (White Oak Valley)	0.04	0.04	0.04	0.04
Northwest Water Systems (Hazy Hallow East Estates)	0.11	0.12	0.12	0.13
Pinedale Mobile Home Community	0.05	0.05	0.05	0.05
Pinehurst Decker Prairie	0.10	0.12	0.13	0.15
Piney Shores Utility	0.07	0.09	0.10	0.11
Quadvest, LP. (Benders Landing)	1.04	1.25	1.46	1.67
Quadvest, LP. (Creeside Village)	0.11	0.11	0.11	0.11
Quadvest, LP. (Indigo Lakes)	0.47	0.57	0.66	0.75
Quadvest, LP. (Lakes of Magnolia)	0.06	0.09	0.12	0.15
Quadvest, LP. 1 (Lake Windcrest WS)	0.47	0.47	0.47	0.47
Quadvest, LP. 1 (Mostyn Manor)	0.09	0.16	0.23	0.31
Quadvest, LP. 1 (Red Oak Ranch WS)	0.08	0.08	0.08	0.08
Quadvest, LP. 1 (Sendera Ranch)	0.20	0.23	0.23	0.23
Quadvest, LP. 2 (Lonestar Ranch)	0.16	0.16	0.16	0.16
Quadvest, LP. 2 (Northcrest Ranch 1,2 &3)	0.21	0.23	0.24	0.25
Quadvest, LP. 2 (Stonecrest Ranch)	0.05	0.06	0.06	0.06
Ranch Utilities (Caddo Village)	0.09	0.09	0.09	0.09
San Jo Utilities	0.04	0.04	0.04	0.04
Southwest Water Co.-Decker Hills/Park Place (fka Monarch)	0.24	0.25	0.25	0.25
Southwest Water Co.-Hulon Lake/Woodcreek Valley (fka Monarch)	0.06	0.06	0.07	0.07
Southwest Water Co.-Serenity Woods, Pine (fka Monarch)	0.03	0.03	0.03	0.03
T & I Taylor, Inc. (River Club/River Ridge)	0.03	0.03	0.03	0.03
T & W Water Services (Deer Run)	0.11	0.19	0.27	0.35

Appendix A: GRP Participant Summary

GRP Participant	Projected Water Demand (MGD)			
	2016	2025	2035	2045
T & W Water Services (Grand Harbor/Gemstone)	0.40	0.63	0.89	1.18
T & W Water Services (Harborside)	0.10	0.15	0.19	0.23
T & W Water Services (Hidden Springs Ranch)	0.05	0.05	0.05	0.05
T & W Water Services (Old Mill Lake)	0.07	0.08	0.08	0.08
T & W Water Services (Riverwalk)	0.52	0.88	1.27	1.67
T & W Water Services (Thousand Oaks)	0.17	0.22	0.24	0.26
Texaba Water System	0.06	0.06	0.06	0.06
Texas National MUD	0.11	0.15	0.20	0.24
Walnut Cove Water Supply Corp.	0.09	0.10	0.11	0.11
Washington County Railroad	0.05	0.05	0.05	0.05
Westwood North Water Supply	0.28	0.28	0.28	0.28
White Oak Utilities, Inc.	0.08	0.08	0.09	0.09
White Oak Water Supply Corporation	0.15	0.19	0.23	0.26
Woodland Oaks Utility Co. Inc.	0.42	0.52	0.59	0.65
Cypresswood Estates Water System	0.06	0.06	0.06	0.06
Sequoia Golf Woodlands LLC (Lake Windcrest)(fka Lake Windcrest Golf Club)	0.15	0.15	0.15	0.15
Sequoia Golf Woodlands LLC (Palmer)	0.30	0.30	0.30	0.30
Sequoia Golf Woodlands LLC (Panther Trails)	0.18	0.18	0.18	0.18
Sequoia Golf Woodlands LLC (Player)	0.14	0.14	0.14	0.14
Sequoia Golf Woodlands LLC (TPC)	0.41	0.41	0.41	0.41
MCMUD 115	0.23	0.67	0.67	0.67
MC MUD 96	0.04	0.55	0.55	0.55
MC MUD 139	0.05	0.60	0.60	0.60
MC MUD 105	0.14	0.69	0.69	0.69
MC MUD 137	0.00	0.00	0.00	0.00
TOTAL	63.20	80.47	94.73	109.49

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Appendix B
Water Utility Profiles

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Texas Commission on Environmental Quality



PROFILE & WATER CONSERVATION PLAN REQUIREMENTS FOR WHOLESALE PUBLIC WATER SUPPLIERS

This form is provided to assist wholesale public water suppliers in water conservation plan development. Information from this form should be included within a wholesale public water supplier water conservation plan. If you need assistance in completing this form or in developing your plan, please contact the conservation staff of the Resource Protection Team in the Water Supply Division at (512) 239-4691.

Name of Entity: San Jacinto River Authority - GRP Division
Address & Zip: SJRA General Administration GRP Division, PO Box 329, Conroe, TX 77305
Telephone Number: (936) 588.3111 (936) 588.1662
Form Completed by: Mark Smith
Title: GRP Division Manager
Signature: [Handwritten Signature] Date: 3/27/14
Name and Phone Number of Person/Department responsible for implementing a water conservation program: SJRA - GRP Division, (936) 588.1662

PROFILE

I. WHOLESALE SERVICE AREA POPULATION AND CUSTOMER DATA

A. Population and Service Area Data

- 1. Service area size in square miles: 1,042 (Montgomery County)
2. Current population of service area: 0 (Current - see note below), 361,303 (2016 Estimate)
3. Current population served for: a. water 0 (Current - see note below) 361,303 (2016 Estimate), b. wastewater 0

Note: Current population served is 0. The SJRA GRP Division will begin providing surface water by January 1, 2016. Please note that only a portion of the population listed in the table above will actively receive treated surface water from the SJRA GRP Division.

4. Population served for previous five years:

<u>Year</u>	<u>Population</u>
2009	0
2010	0
2011	0
2012	0
2013	0

5. Projected population for service area in the following decades:

<u>Year</u>	<u>Population</u>
<u>2010</u>	0
<u>2020</u>	425,654
<u>2030</u>	582,808
<u>2040</u>	747,319
<u>2050</u>	NO DATA

6. List source or method for the calculation of current and projected population:

Population projections above were developed from data included SJRA's Groundwater Reduction Plan Pumpage Rate Study and the Harris-Galveston Subsidence District Regional Groundwater Update. Please note that only a portion of the population listed in the table above will actively receive treated surface water from the SJRA GRP Division.

B. Customers Data

List (or attach) the names of all wholesale customers, amount of annual contract, and amount of the annual use for each for the previous year:

Wholesale Customer	Contracted Amount MGD, (acre-feet)*	Previous Year Amount of Water Delivered (acre-feet)
(1) The Woodlands	11.70 MGD (≈13,115 ac-ft)	0
(2) City of Conroe	7.10 MGD (≈7,958 acft)	0
(3) MSEC Enterprises	1.00 MGD (≈1,120 acft)	0
(4) MC MUD 99	0.31 MGD (≈347 acft)	0
(5) Southern MC MUD	1.40 MGD (≈1,569 acft)	0
(6) Rayford RD MUD	1.20 MGD (≈1,345 acft)	0
(7) Woodland Oaks	0.25 MGD (≈280 ac-ft)	0

*1 million gallons per day (MGD) ≈ 3.07 acft/day

II. WATER USE DATA FOR SERVICE AREA

A. Water Delivery

Indicate if the water provided under wholesale contracts is treated or raw water and the annual amount for each for previous year:

	Total amount delivered or sold for previous year (acre-feet)
Treated	0
Raw	0

B. Water Accounting Data

1. Total amount of water diverted at point of diversion(s) for previous five years (in acre-feet) for all water uses: *

Year	2009	2010	2011	2012	2013
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	0	0	0	0	0
May	0	0	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	0	0	0	0	0
October	0	0	0	0	0
November	0	0	0	0	0
December	0	0	0	0	0
TOTAL	0	0	0	0	0

** The SJRA GRP Division will begin providing surface water by January 1, 2016. Divisions from Lake Conroe are listed under TCEQ Form 20162 for the SJRA Lake Conroe Division.*

2. Wholesale population served and total amount of water diverted for **municipal use** for previous five years:

Year	Total Population Served	Total Annual Water Diverted for Municipal Use (acre feet)
2009	0	0
2010	0	0
2011	0	0
2012	0	0
2013	0	0

C. Projected Water Demands

If applicable, project and attach water supply demands for the next ten years using information such as population trends, historical water use, and economic growth in the service area over the next ten years and any additional water supply requirement from such growth.

Projected municipal demands are shown in the table below. These values were developed from data included in the SJRA Groundwater Reduction Plan (GRP), the SJRAGR Pumpage Rate Study, and the Harris-Galveston Subsidence District Regional Groundwater Update. Please note that some GRP participants will remain on self-supplied groundwater, while others will be converted to surface water provided by the SJRA GRP Division.

Year	Projected GRP Participant Demand - Total		Projected GRP Participant Demand - Surface Water	
	MGD*	ac-ft	MGD	ac-ft
2014	N/A	N/A	N/A	N/A
2015	N/A	N/A	N/A	N/A
2016	63.20	70,987	23.95	26,901
2017	65.15	72,977	22.99	25,752
2018	67.10	75,162	23.03	25,797
2019	69.00	77,290	23.08	25,853
2020	70.88	79,613	23.13	25,980
2021	72.81	81,558	23	25,954
2022	74.73	83,708	23.22	26,010
2023	76.62	85,825	23.27	26,066

*Millions of gallons per day.

III. WATER SUPPLY SYSTEM DATA

A. Water Supply Sources

List all current water supply sources and the amounts authorized with each:

	Source	Amount Authorized
Surface Water:	<u>Lake Conroe (10-4963)</u>	<u>33,333</u> acre-feet
	<u>Lake Conroe Contract w/ Houston</u>	<u>66,667</u> acre-feet

Groundwater: _____ 0 acre-feet
Other: _____ 0 acre-feet

B. Treatment and Distribution System (if provide treated water)

1. Design daily capacity of system: 30.0 MGD
2. Storage Capacity: Elevated 0 MGD, Ground 10 MGD
3. Please describe the water system and attach. Include the number of treatment plants, wells, and storage tanks. If possible, attach a sketch of the system layout.

The SJRA GRP Division is scheduled to begin providing treated surface water to selected GRP Participants on or before January 1, 2016. The Division is currently engaged in construction of treated water infrastructure. Surface water facilities at Lake Conroe will include an intake and high service pump station as well as a two ground storage tanks and a water treatment plant. Treated surface water will then be conveyed through a network of approximately 55 miles of pipeline to selected GRP Participants. The additional infrastructure for customers to distribute it to their retail systems will be the responsibility of the customers. The system layout is shown in Attachment B to TCEQ Form 20162.

IV. WASTEWATER SYSTEM DATA N/A*

* The Division does not provide wastewater service.

A. Wastewater System Data (if applicable)

1. Design capacity of wastewater treatment plant(s): 0 MGD
2. Briefly describe the wastewater system(s) of the area serviced by the wholesale public water supplier. Describe how treated wastewater is disposed of. Where applicable, identify treatment plant(s) with the TCEQ name and number, the operator, owner, and, if wastewater is discharged, the receiving stream. If possible, attach a sketch or map which locates the plant(s) and discharge points or disposal sites.

B. Wastewater Data for Service Area (if applicable)

1. Percent of water service area served by wastewater system: 0 %
2. Monthly volume treated for previous three years (in 1,000 gallons):

Year	2011	2012	2013
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
TOTAL	0	0	0

REQUIREMENTS FOR WATER CONSERVATION PLANS FOR WHOLESALE PUBLIC WATER SUPPLIERS

In addition to the description of the wholesaler's service area (profile from above), a water conservation plan for a wholesale public water supplier must include, at a minimum, additional information as required by Title 30, Texas Administrative Code, ' 288.5. Note: If the water conservation plan does not provide information for each requirement, an explanation must be included as to why the requirement is not applicable.

Specific, Quantified 5 & 10-Year Targets

The water conservation plan must include specific, quantified five-year and ten-year targets for water savings including, where appropriate, target goals for municipal use in gallons per capita per day for the wholesaler's service area, maximum acceptable unaccounted-for water, and the basis for the development of these goals. Note that the goals established by wholesale water suppliers under this subparagraph are not enforceable.

Metering Devices

The water conservation plan must include a description as to which practice(s) and/or device(s) will be utilized to measure and account for the amount of water diverted from the source(s) of supply.

Record Management Program

The water conservation plan must include a monitoring and record management program for determining water deliveries, sales, and losses.

Metering/Leak-Detection and Repair Program

The water conservation plan must include a program of metering and leak detection and repair for the wholesaler's water storage, delivery, and distribution system.

Reservoir Systems Operations Plan

The water conservation plan must include a reservoir systems operations plan, if applicable, providing for the coordinated operation of reservoirs owned by the applicant within a common watershed or river basin. The reservoir systems operations plans shall include optimization of water supplies as one of the significant goals of the plan.

Contract Requirements for Successive Customer Conservation

The water conservation plan must include a requirement in every water supply contract entered into or renewed after official adoption of the water conservation plan, and including

any contract extension, that each successive wholesale customer develop and implement a water conservation plan or water conservation measures using the applicable elements of this chapter. If the customer intends to resell the water, then the contract between the initial supplier and customer must provide that the contract for the resale of the water must have water conservation requirements so that each successive customer in the resale of the water will be required to implement water conservation measures in accordance with the provisions of Title 30 TAC Chapter 288.

Enforcement Procedure & Official Adoption

The water conservation plan must include a means for implementation and enforcement, which shall be evidenced by a copy of the ordinance, rule, resolution, or tariff, indicating official adoption of the water conservation plan by the water supplier; and a description of the authority by which the water supplier will implement and enforce the conservation plan.

Coordination with the Regional Water Planning Group(s)

The water conservation plan must include documentation of coordination with the regional water planning groups for the service area of the wholesale water supplier in order to ensure consistency with the appropriate approved regional water plans.

Example statement to be included within the water conservation plan:

The service area of the _____ (name of water supplier) is located within the _____ (name of regional water planning area or areas) and _____ (name of water supplier) has provided a copy of this water conservation plan to the _____ (name of regional water planning group or groups).

Plan Review and Update

Beginning May 1, 2005, the wholesale water supplier shall review and update its water conservation plan, as appropriate based on an assessment of previous five-year and ten-year targets and any other new or updated information. A wholesale water supplier shall review and update the next revision of its water conservation plan not later than May 1, 2009, and every five years after that date to coincide with the regional water planning group. The revised plan must also include an implementation report.

Best Management Practices Guide

On November 2004, the Texas Water Development Board's (TWDB) Report 362 was completed by the Water Conservation Implementation Task Force. Report 362 is the Water Conservation Best Management Practices (BMP) Guide. The BMP Guide is a voluntary list of management practices that water users may implement in addition to the required components of Title 30, Texas Administrative Code, Chapter 288. The BMP Guide is available on the TWDB's website at the link below or by calling (512) 463-7847.

<http://www.twdb.state.tx.us/assistance/conservation/TaskForceDocs/WCITFBMPGuide.pdf>

If you have any questions on how to fill out this form or about the Wholesale Public Water Suppliers program, please contact us at 512/239-4691.

Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512-239-3282.

Appendix A

Definitions of Commonly Used Terms

Conservation - Those practices, techniques, and technologies that reduce the consumption of water, reduce the loss or waste of water, improve the efficiency in the use of water, or increase the recycling and reuse of water so that a water supply is made available for future or alternative uses.

Industrial use - The use of water in processes designed to convert materials of a lower order of value into forms having greater usability and commercial value, commercial fish production, and the development of power by means other than hydroelectric, but does not include agricultural use.

Irrigation - The agricultural use of water for the irrigation of crops, trees, and pastureland, including, but not limited to, golf courses and parks which do not receive water through a municipal distribution system.

Municipal per capita water use - The sum total of water diverted into a water supply system for residential, commercial, and public and institutional uses divided by actual population served.

Municipal use - The use of potable water within or outside a municipality and its environs whether supplied by a person, privately owned utility, political subdivision, or other entity as well as the use of sewage effluent for certain purposes, including the use of treated water for domestic purposes, fighting fires, sprinkling streets, flushing sewers and drains, watering parks and parkways, and recreational purposes, including public and private swimming pools, the use of potable water in industrial and commercial enterprises supplied by a municipal distribution system without special construction to meet its demands, and for the watering of lawns and family gardens.

Municipal use in gallons per capita per day - The total average daily amount of water diverted or pumped for treatment for potable use by a public water supply system. The calculation is made by dividing the water diverted or pumped for treatment for potable use by population served. Indirect reuse volumes shall be credited against total diversion volumes for the purpose of calculating gallons per capita per day for targets and goals.

Public water supplier - An individual or entity that supplies water to the public for human consumption.

Regional water planning group - A group established by the Texas Water Development Board to prepare a regional water plan under Texas Water Code, ' 16.053.

Retail public water supplier - An individual or entity that for compensation supplies water to the public for human consumption. The term does not include an individual or entity that supplies water to itself or its employees or tenants when that water is not resold to or used by others.

Reuse - The authorized use for one or more beneficial purposes of use of water that remains unconsumed after the water is used for the original purpose of use and before that water is either

disposed of or discharged or otherwise allowed to flow into a watercourse, lake, or other body of state-owned water.

Water conservation plan - A strategy or combination of strategies for reducing the volume of water withdrawn from a water supply source, for reducing the loss or waste of water, for maintaining or improving the efficiency in the use of water, for increasing the recycling and reuse of water, and for preventing the pollution of water. A water conservation plan may be a separate document identified as such or may be contained within another water management document(s).

Water loss - The difference between water diverted or treated and water delivered (sold). Water loss can result from:

1. inaccurate or incomplete record keeping;
2. meter error;
3. unmetered uses such as firefighting, line flushing, and water for public buildings and water treatment plants;
4. leaks; and
5. water theft and unauthorized use.

Wholesale public water supplier - An individual or entity that for compensation supplies water to another for resale to the public for human consumption. The term does not include an individual or entity that supplies water to itself or its employees or tenants as an incident of that employee service or tenancy when that water is not resold to or used by others, or an individual or entity that conveys water to another individual or entity, but does not own the right to the water which is conveyed, whether or not for a delivery fee.

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San Jacinto River Authority – GRP Division

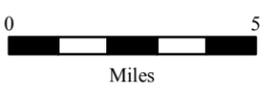
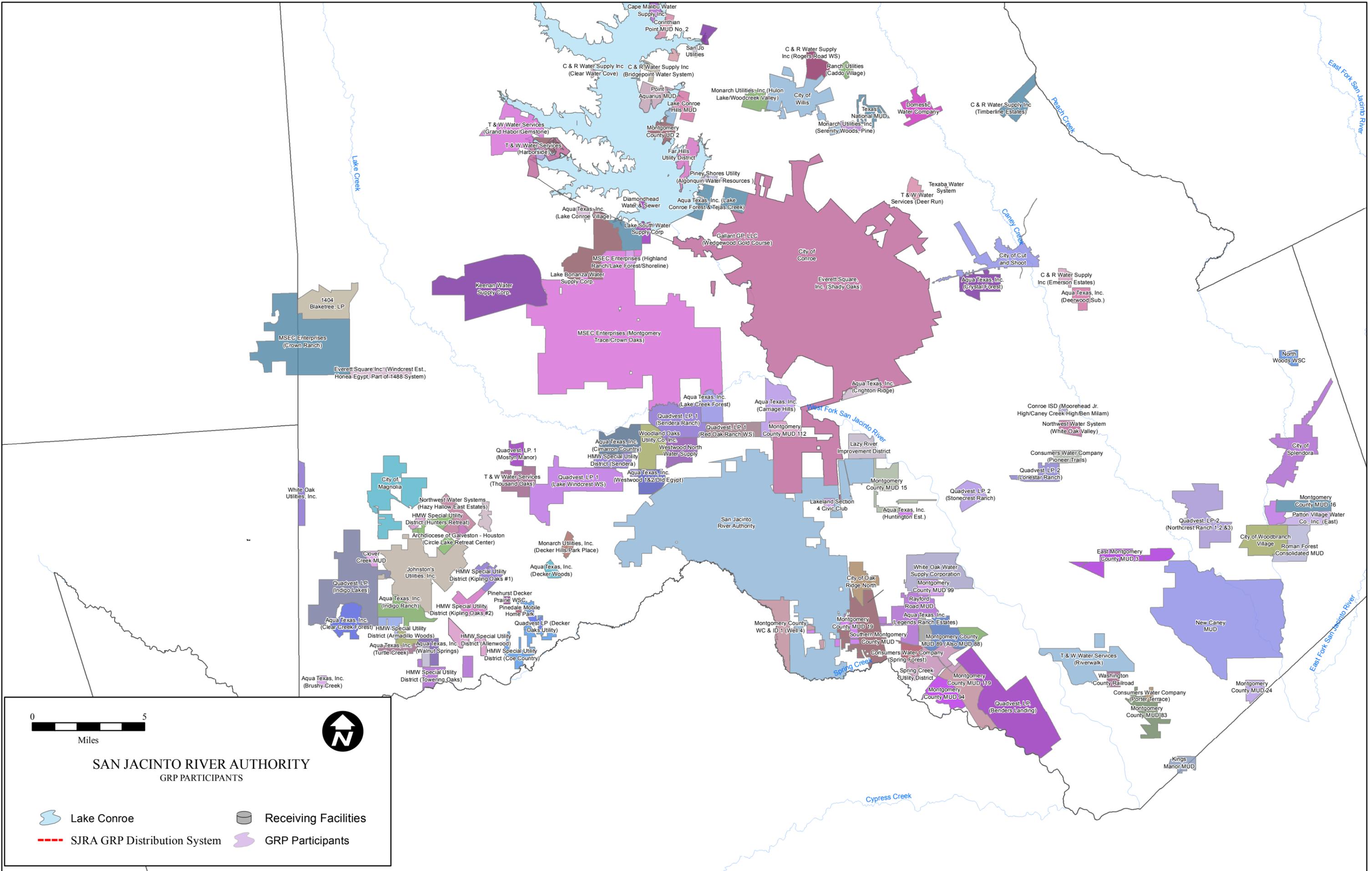
Attachments to TCEQ Form 20162:
Profile & Water Conservation Plan
Requirements for Wholesale Public Water
Suppliers

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Attachment A

SJRA GRP Division Customers

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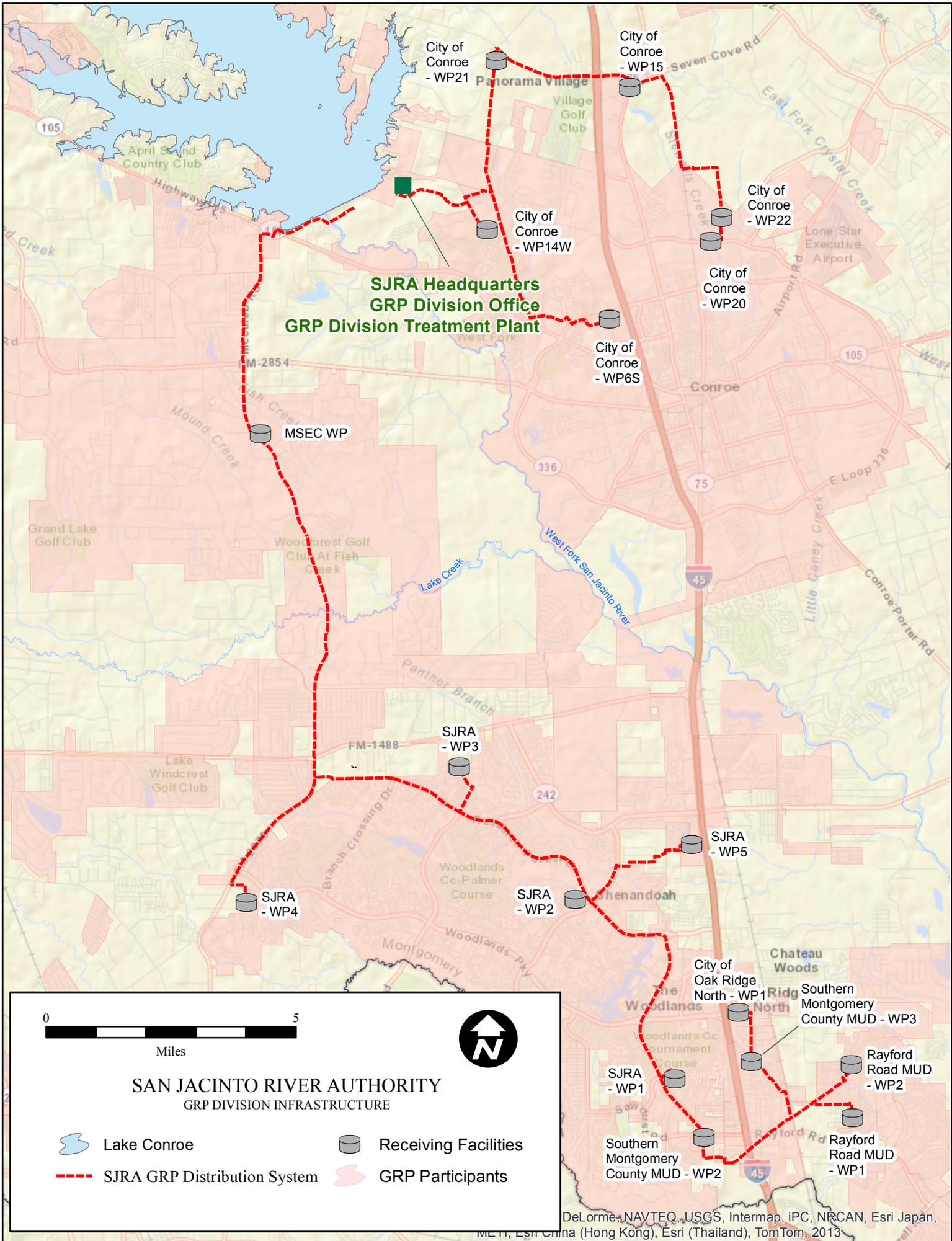
SAN JACINTO RIVER AUTHORITY
GRP PARTICIPANTS

- Lake Conroe
- SJRA GRP Distribution System
- Receiving Facilities
- GRP Participants

Attachment B

SJRA GRP Division Treated Water Infrastructure

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Appendix C
Resolutions Passed by SJRA
Transmittal Letter to Region H RWPG

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RESOLUTION ADOPTING REVISED WATER CONSERVATION PLANS AND DROUGHT CONTINGENCY PLANS; AUTHORIZING THE IMPLEMENTATION OF SUCH REVISED PLANS; REPEALING AND RESCINDING ALL PRIOR PLANS; AND CONTAINING OTHER PROVISIONS RELATING TO THE SUBJECT

WHEREAS, the San Jacinto River Authority (the "Authority") has water rights issued by the Texas Commission on Environmental Quality and its predecessor agencies (collectively, the "TCEQ") to divert water from the San Jacinto River and Trinity River basins; and

WHEREAS, the Authority, by and through its Highlands Division, owns and operates water supply and distribution systems and facilities, including the Lake Houston Pump Station, Highlands Reservoir, and Highlands Canal System, in order to sell and deliver water out of such rights to certain customers generally located in eastern Harris County; and

WHEREAS, the Authority also owns an interest in Lake Conroe Dam and Reservoir, located in Montgomery and Walker Counties ("Lake Conroe") upstream on the San Jacinto River from the Lake Houston Reservoir, and holds certain contract rights and water rights issued by the TCEQ to divert or release and use water from Lake Conroe; and

WHEREAS, the Authority, by and through its Lake Conroe Division, operates Lake Conroe and sells water out of such rights to customers located in Montgomery County, generally in close proximity to Lake Conroe; and

WHEREAS, the Authority, by and through its Woodlands Division, owns and operates an extensive water supply and distribution system and facilities for providing regional, wholesale services to customers in the area of The Woodlands; and

WHEREAS, the Authority, by and through its Groundwater Reduction Plan Division (the "GRP Division"), is presently in the process of constructing a surface water treatment facility and transmission system that will withdraw water from Lake Conroe for treatment, distribution and sale to its Woodlands Division and certain other customers; and

WHEREAS, in connection with the management of such facilities, systems and operations, the Authority has previously adopted a Water Conservation and Drought Contingency Plan (the "Plan") in accordance with the requirements of Chapter 11, Texas Water Code, as amended, and the rules of the TCEQ under Chapter 288 of Title 30, Texas Administrative Code, as amended; and

WHEREAS, the Board of Directors of the Authority has determined that it is in the public interest to revise and replace the Plan; Now, Therefore,

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SAN JACINTO RIVER AUTHORITY, THAT:

Section 1: The Plan, as previously adopted and amended by the Authority, is hereby repealed and rescinded in its entirety.

Section 2: The Board of Directors of the Authority hereby approves and adopts the revised water conservation and drought contingency plans, each dated as of the date hereof, titled as follows: *Water Conservation Plan for San Jacinto River Authority Highlands Division; Drought Contingency Plan for San Jacinto River Authority Highlands Division; Water Conservation Plan for San Jacinto River Authority Lake Conroe Division; Drought Contingency Plan for San Jacinto River Authority Lake Conroe Division; Water Conservation Plan for San Jacinto River Authority Woodlands Division; Drought Contingency Plan for San Jacinto River Authority Woodlands Division; Water Conservation Plan for San Jacinto River Authority GRP Division; and Drought Contingency Plan for San Jacinto River Authority GRP Division* (collectively, the "Revised Plans").

Section 3: The Revised Plans, together with any amendments thereto which may be made from time to time, shall be maintained on file in the official records of the Authority and filed, as appropriate, with the TCEQ, the Texas Water Development Board and any other agencies with jurisdiction.

Section 4: It shall be the policy of the Authority that the programs and procedures set forth in the Revised Plans be implemented immediately. The General Manager of the Authority shall report to the Board of Directors of the Authority and other interested agencies annually on the implementation and effectiveness of the Revised Plans in accordance with the procedures set forth in the Revised Plans.

Section 5: The General Manager of the Authority is hereby designated as the official responsible for implementation of the Revised Plans in accordance with the guidelines set forth in the Revised Plans.

Section 6: It shall be the policy of the Authority to support and assist its wholesale and retail customers in (1) designating their pre-assigned officials as having the responsibility and authority to implement the Revised Plans, (2) allowing for enforcement of the Revised Plans, and (3) providing civil penalties for noncompliance with the Revised Plans.

Section 7: It shall be the policy of the Authority that the *Water Conservation Plan for San Jacinto River Authority GRP Division* and the *Drought Contingency Plan for San Jacinto River Authority GRP Division* establish minimum requirements which shall be adopted, respectively, in a water conservation plan and a drought contingency by each participant in the Authority's Groundwater Reduction Plan. The General Manager of the Authority and the GRP Administrator are hereby authorized and directed to take such actions as are deemed necessary and appropriate to ensure that the participants in the Authority's Groundwater Reduction Plan (the "Participants") adopt water conservation plans and drought contingency plans that are reasonably determined to meet or exceed such minimum requirements. Further, it shall be the policy of the Authority to support and assist the Participants in (1) adopting such water conservation plans and drought contingency plans, and (2) implementing and enforcing such water conservation plans and drought contingency plans.

Section 8: This Resolution shall be and remain in full force and effect from and after the date of its passage and approval.

PASSED AND APPROVED this 27th day of March, 2014.



President, Board of Directors



Secretary, Board of Directors

(SEAL)



San Jacinto River Authority

ADMINISTRATIVE OFFICE
P.O. Box 329 • Conroe, Texas 77305
(T) 936.588.3111 • (F) 936.588.3043

March 31, 2014

Region H Water Planning Group
c/o San Jacinto River Authority
P. O. Box 329
Conroe, Texas 77305

Re: Water Conservation and Drought Contingency Plans

Dear Region H;

Please find enclosed one (1) copy of the revised Water Conservation and Drought Contingency Plans for the Lake Conroe, GRP, Woodlands and Highlands Divisions of San Jacinto River Authority. The Woodlands Division is the wholesale provider of water to the eleven municipal utility districts (MUDs) that comprise The Woodlands. The Woodlands Joint Powers Agency is the retail provider of water to these MUDs and will submit its Water Conservation and Drought Contingency Plans separately. These revisions have been initiated to meet the regulatory requirement to update and submit the plans by May 1, 2014.

If you have any questions, please do not hesitate to contact us.

Sincerely,

Ronald D. Kelling, P.E.
Deputy General Manager
San Jacinto River Authority

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HIGHLANDS DIVISION
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