

**CITY OF SUGAR LAND  
2009 - 2013 CAPITAL IMPROVEMENT PROGRAM  
SURFACE WATER**

<b>PROJECT NO.</b>	<b>PROJECT NAME</b>	<b>PRIOR FUNDING</b>	<b>2009 BUDGET</b>	<b>2010 ESTIMATE</b>	<b>2011 ESTIMATE</b>	<b>2012 ESTIMATE</b>	<b>2013 ESTIMATE</b>	<b>2009-2013 TOTAL</b>
SW0801	Surface Water Conversion Transmission Line	250,000	225,000	1,650,000	13,500,000			15,375,000
SW0802	Surface Water Treatment Plant	2,700,000	2,650,000	39,000,000				41,650,000
SW1001	Water Plant Upgrades for Surface Water Conversion			205,000	2,000,000			2,205,000
	<b>TOTAL FUNDING</b>	<b>\$ 2,950,000</b>	<b>\$2,875,000</b>	<b>\$40,855,000</b>	<b>\$15,500,000</b>			<b>\$59,230,000</b>

<b>SOURCE OF FUNDS</b>	<b>PRIOR FUNDING</b>	<b>2009 BUDGET</b>	<b>2010 ESTIMATE</b>	<b>2011 ESTIMATE</b>	<b>2012 ESTIMATE</b>	<b>2013 ESTIMATE</b>	<b>2009-2013 TOTAL</b>
General Revenue							
Revenue Bonds	2,000,000	2,650,000	40,650,000	15,500,000			58,800,000
SLDC							
SL4B							
Airport Revenues							
System Revenues	250,000	225,000	205,000				430,000
Connection Fees							
Other Funding Sources	700,000						
<b>TOTAL</b>	<b>\$2,950,000</b>	<b>\$2,875,000</b>	<b>\$40,855,000</b>	<b>\$15,500,000</b>			<b>\$59,230,000</b>

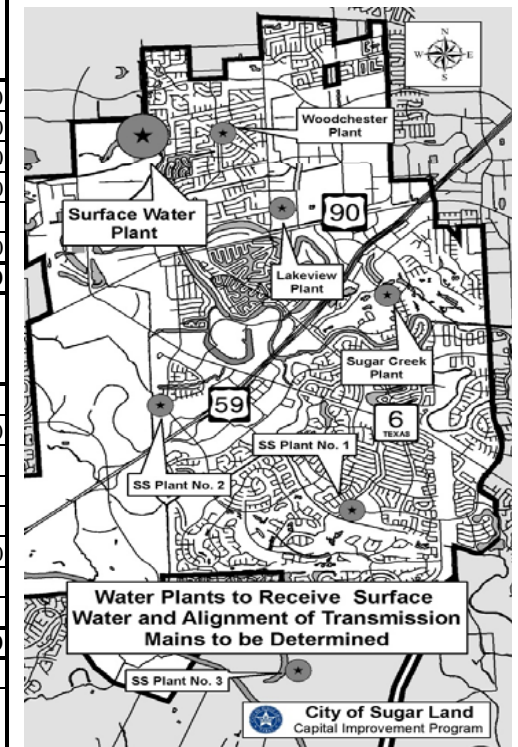
**CITY OF SUGAR LAND  
2009 - 2013 CAPITAL IMPROVEMENT PROGRAM  
SUMMARY BY FUNDING SOURCES - SURFACE WATER**

<b>PROJECT NAME</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>TOTAL</b>
Surface Water Conversion Transmission Line		1,650,000	13,500,000			15,150,000
Surface Water Treatment Plant	2,650,000	39,000,000				41,650,000
Water Plant Upgrades for Surface Water Conversion			2,000,000			2,000,000
<b>TOTAL - REVENUE BONDS</b>	<b>\$2,650,000</b>	<b>\$40,650,000</b>	<b>\$15,500,000</b>			<b>\$58,800,000</b>

<b>Surface Water Conversion Transmission Line</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>TOTAL</b>
Surface Water Conversion Transmission Line	225,000					225,000
Water Plant Upgrades for Surface Water Conversion		205,000				205,000
<b>TOTAL - SYSTEM REVENUES</b>	<b>\$225,000</b>	<b>\$205,000</b>				<b>\$430,000</b>

**CITY OF SUGAR LAND  
2009 - 2013 CAPITAL IMPROVEMENT PROGRAM  
SURFACE WATER**

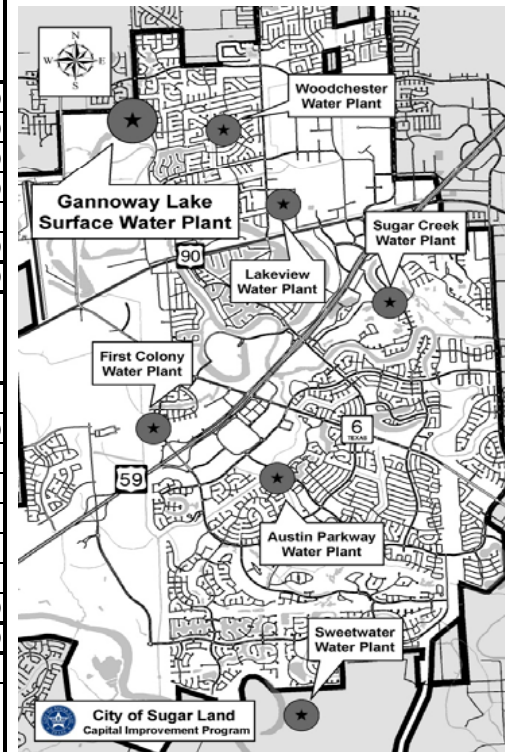
PROJECT NO.	PROJECT TITLE	Priority																												
SW0801	Surface Water Conversion Transmission Line	M1																												
<b>DESCRIPTION</b> A Routing Study was performed in FY2008 to identify and recommend a route for construction of transmission pipeline and easements from the proposed Surface Water Treatment plant at Gannoway Lake to the Lakeview and First Colony Boulevard water plants. In FY2009, design will include Phase I pipeline of 20,000 LF of 36" waterline, 3,400 LF of 24" waterline, and 10,000 LF of 20" waterline. Easement and land acquisition for Phase I will commence based on results of Routing Study. PER in FY2009 will identify needed easements for Phase II.		<b>IMPACT ON OPERATING BUDGET</b>																												
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Expenditures</th> <th style="width: 10%;">2009</th> <th style="width: 10%;">2010</th> <th style="width: 10%;">2011</th> <th style="width: 10%;">2012</th> <th style="width: 10%;">2013</th> </tr> </thead> <tbody> <tr> <td>Personnel Services</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Operations &amp; Maintenance</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Capital</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>TOTAL</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Expenditures	2009	2010	2011	2012	2013	Personnel Services						Operations & Maintenance						Capital						<b>TOTAL</b>			
Expenditures	2009	2010	2011	2012	2013																									
Personnel Services																														
Operations & Maintenance																														
Capital																														
<b>TOTAL</b>																														
<b>JUSTIFICATION</b> The City must convert 30% of water usage from groundwater to surface water by 2013. Transmission lines must be constructed to bring the treated surface water from the future surface water treatment plant to the existing groundwater plants for redistribution. Phase I piping construction to begin in FY2011, while Phase II piping is expected in in FY2023.																														
<b>PROJECT COSTS</b>	<b>Project Budget To Date</b>	<b>FISCAL YEAR PLAN</b>					<b>Project Total</b>																							
		<b>BUDGET</b>	<b>ESTIMATED</b>																											
		<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>																								
Preliminary Engineering Report/Study		150,000					150,000																							
Land/Right of Way	250,000	75,000	150,000				475,000																							
Design/Surveying			1,500,000				1,500,000																							
Construction				12,500,000			12,500,000																							
Equipment and Furniture																														
Contingency				1,000,000			1,000,000																							
<b>TOTAL COSTS</b>	<b>\$250,000</b>	<b>\$225,000</b>	<b>\$1,650,000</b>	<b>\$13,500,000</b>			<b>\$15,625,000</b>																							
<b>SOURCE OF FUNDS</b>	<b>Project Budget To Date</b>	<b>FISCAL YEAR PLAN</b>					<b>Project Total</b>																							
		<b>BUDGET</b>	<b>ESTIMATED</b>																											
		<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>																								
General Revenue																														
Revenue Bonds			1,650,000	13,500,000			15,150,000																							
SLDC																														
SL4B																														
Airport Revenues																														
System Revenues	250,000	225,000					475,000																							
Connection Fees																														
Other Funding Sources																														
<b>TOTAL SOURCE</b>	<b>\$250,000</b>	<b>\$225,000</b>	<b>\$1,650,000</b>	<b>\$13,500,000</b>			<b>\$15,625,000</b>																							
<b>PROJECT SCHEDULE</b>	<b>START (MTH, YEAR)</b>	<b>FINISH (MTH, YEAR)</b>		<b>OTHER:</b>																										
Preliminary Engineering Report	Oct-08	Aug-2009		FY2009 - PER and Land Acquisition FY2010 - Land Acquisition & Design FY2011 - Construction																										
Land/Right of Way	Sept-2008	Aug-2009																												
Design/Surveying	2010	2010																												
Construction	2011	2012																												
Equipment and Furniture																														
Contingency																														
<b>TOTAL PROJECT</b>																														



City Goal: Responsible City Government  
 Reference: Water Master Plan  
 Project Manager: Tim Jahn  
 Estimator: Tim Jahn

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2009 - 2013 CAPITAL IMPROVEMENT PROGRAM  
SURFACE WATER**

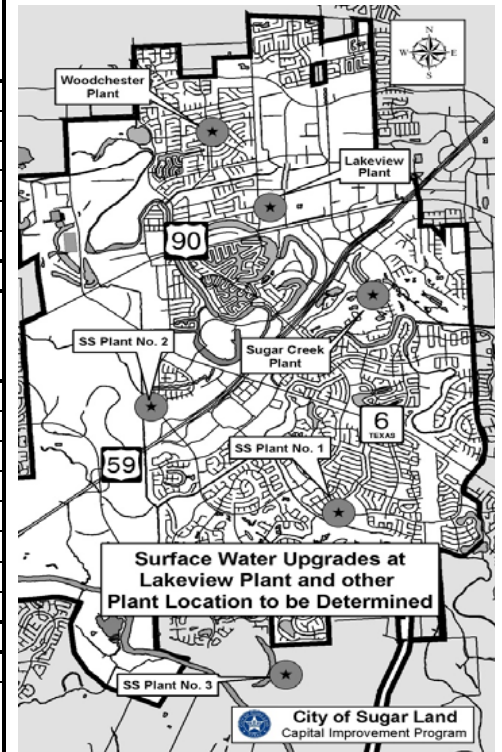
PROJECT NO.	PROJECT TITLE	Priority																												
SW0802	Surface Water Treatment Plant	M1																												
<b>DESCRIPTION</b> To implement the phased surface water conversion, the City is in the process of constructing a new 9 MGD Surface Water Treatment Plant (SWTP). The treatability study and preliminary engineering design of the SWTP will be completed in April 2009. The project will include the final engineering design and construction management of the SWTP. The project will also include geotechnical survey and system operation O&M manual development.		<b>IMPACT ON OPERATING BUDGET</b>																												
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Expenditures</th> <th style="width: 10%;">2009</th> <th style="width: 10%;">2010</th> <th style="width: 10%;">2011</th> <th style="width: 10%;">2012</th> <th style="width: 10%;">2013</th> </tr> </thead> <tbody> <tr> <td>Personnel Services</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Operations &amp; Maintenance</td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: right;">2,800,000</td> </tr> <tr> <td>Capital</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>TOTAL</b></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: right;"><b>\$2,800,000</b></td> </tr> </tbody> </table>	Expenditures	2009	2010	2011	2012	2013	Personnel Services						Operations & Maintenance					2,800,000	Capital						<b>TOTAL</b>			
Expenditures	2009	2010	2011	2012	2013																									
Personnel Services																														
Operations & Maintenance					2,800,000																									
Capital																														
<b>TOTAL</b>					<b>\$2,800,000</b>																									
<b>JUSTIFICATION</b> The City must convert 30% of water usage from groundwater to surface water by 2013 and 60% of surface water by 2025. A recent surface water study conducted indicates that the most cost-effective method for surface water conversion is for the City to own and operate its own surface water treatment plant.																														
<b>PROJECT COSTS</b>	<b>Project Budget To Date</b>	<b>FISCAL YEAR PLAN</b>					<b>Project Total</b>																							
		<b>BUDGET</b>	<b>ESTIMATED</b>																											
		<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>																								
Preliminary Engineering Report/Study	2,250,000						2,250,000																							
Land/Right of Way	450,000						450,000																							
Design/Surveying		2,400,000	4,000,000				6,400,000																							
Construction			35,000,000				35,000,000																							
Equipment and Furniture																														
Contingency		250,000					250,000																							
<b>TOTAL COSTS</b>	<b>\$2,700,000</b>	<b>\$2,650,000</b>	<b>\$39,000,000</b>				<b>\$44,350,000</b>																							
<b>SOURCE OF FUNDS</b>	<b>Project Budget To Date</b>	<b>FISCAL YEAR PLAN</b>					<b>Project Total</b>																							
		<b>BUDGET</b>	<b>ESTIMATED</b>																											
		<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>																								
General Revenue																														
Revenue Bonds	2,000,000	2,650,000	39,000,000				43,650,000																							
SLDC																														
SLAB																														
Airport Revenues																														
System Revenues																														
Connection Fees																														
Other Funding Sources	700,000						700,000																							
<b>TOTAL SOURCE</b>	<b>\$2,700,000</b>	<b>\$2,650,000</b>	<b>\$39,000,000</b>				<b>\$44,350,000</b>																							
<b>PROJECT SCHEDULE</b>	<b>START (MTH, YEAR)</b>	<b>FINISH (MTH, YEAR)</b>		<b>OTHER:</b>																										
Preliminary Engineering Report	Mar-08	Apr-09		Design fee includes design to 100% (\$2.4M) with a \$250,000 contingency in FY2009 and \$4M in FY2010 funding  Other Source: Surface Water Fund Balance																										
Land/Right of Way	Mar-08	Apr-09																												
Design/Surveying	Jun-09	Jun-10																												
Construction	Aug-10	Dec-12																												
Equipment and Furniture																														
Contingency																														
<b>TOTAL PROJECT</b>																														



City Goal: Responsible City Government  
 Reference: Water Master Plan/ Engineer Estimates  
 Project Manager: Jessie Li  
 Estimator: Jessie Li

**CITY OF SUGAR LAND  
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SURFACE WATER**

PROJECT NO.	PROJECT TITLE	Priority																												
SW1001	Water Plant Upgrades for Surface Water Conversion	M2																												
<b>DESCRIPTION</b> The Lakeview and First Colony Water Plants will be the take points for the treated surface water. In preparation of surface water conversion, the two water plants will need to be upgraded. Upgrades will be based on 2009 PER and include design in FY2011 and construction in FY2012 for installation of a 1.5 MG GST at Lakeview Plant and upsizing of booster pump capacities and suction and distribution headers. The project will also include adding ammonia feed systems at all groundwater plants.		<b>IMPACT ON OPERATING BUDGET</b>																												
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<b>TOTAL</b>																														
<b>JUSTIFICATION</b> The City must convert 30% of water usage from groundwater to surface water by 2013. In order to distribute the treated surface water, existing groundwater plants will need to be upgraded. To minimize the groundwater and surface water blending issue, ammonia feed systems will be installed to convert the groundwater disinfectant from free chlorine to chloramines.																														
<b>PROJECT COSTS</b>	Project Budget To Date	<b>FISCAL YEAR PLAN</b>					Project Total																							
		<b>BUDGET</b>	<b>ESTIMATED</b>																											
		2009	2010	2011	2012	2013																								
Preliminary Engineering Report/Study																														
Land/Right of Way																														
Design/Surveying			205,000				205,000																							
Construction				2,000,000			2,000,000																							
Equipment and Furniture																														
Contingency																														
<b>TOTAL COSTS</b>			<b>\$205,000</b>	<b>\$2,000,000</b>			<b>\$2,205,000</b>																							
<b>SOURCE OF FUNDS</b>	Project Budget To Date	<b>FISCAL YEAR PLAN</b>					Project Total																							
		<b>BUDGET</b>	<b>ESTIMATED</b>																											
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Airport Revenues																														
System Revenues			205,000				205,000																							
Connection Fees																														
Other Funding Sources																														
<b>TOTAL SOURCE</b>			<b>\$205,000</b>	<b>\$2,000,000</b>			<b>\$2,205,000</b>																							
<b>PROJECT SCHEDULE</b>	<b>START (MTH, YEAR)</b>	<b>FINISH (MTH, YEAR)</b>		<b>OTHER:</b>																										
Preliminary Engineering Report																														
Land/Right of Way																														
Design/Surveying	2010	2010																												
Construction	2011	2012																												
Equipment and Furniture																														
Contingency																														
<b>TOTAL PROJECT</b>																														



City Goal: Responsible City Government  
 Reference: Surface Water Conversion Study  
 Project Manager: Jessie Li  
 Estimator: Jessie Li



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