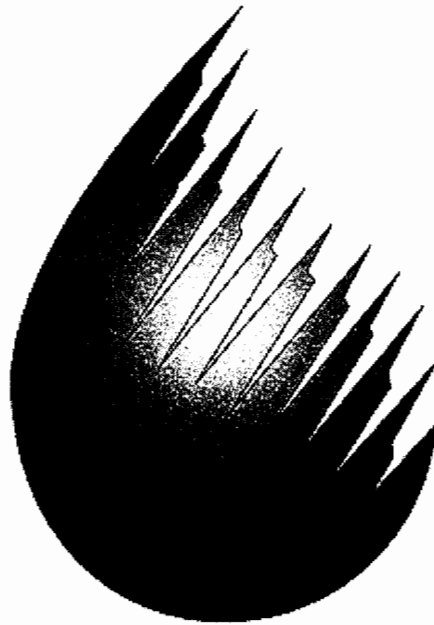


Southern Nevada Water Authority

**MAJOR CONSTRUCTION
AND CAPITAL PLAN**



PROJECT DEFINITION AND STATUS REPORT

Amendment 7 Issued May 18, 2006
First Issued June 20, 2002

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Southern Nevada Water Authority

MAJOR CONSTRUCTION AND CAPITAL PLAN

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SECTION 1

INTRODUCTION AND PLAN SUMMARY

Introduction

The Southern Nevada Water Authority was formed in 1991 by a Cooperative Agreement among the following local entities:

- Big Bend Water District
- City of Boulder City
- City of Henderson
- City of Las Vegas
- City of North Las Vegas
- Clark County Water Reclamation District
- Las Vegas Valley Water District

The Southern Nevada Water Authority was established to unite these entities in cooperative efforts to address regional water resource and facility issues. In the early 1990s Clark County's population was about 800,000 and projected to grow to about 1,000,000 by the year 2000 and to 1,800,000 by the year 2025. Clark County's current population is more than 1,700,000 and forecasts issued in 2005 project a population in 2035 of approximately 3,500,000.

The Cooperative Agreement creating the Authority, together with the adjunct Facilities and Operations Agreement, stipulate that proposed facilities and other capital initiatives of the Authority will be defined and authorized in approved capital plan documents.

The Major Construction and Capital Plan (MCCP) was developed to meet continuing water needs of the community of Southern Nevada. The MCCP defines and authorizes projects to maintain facilities in a sound and functional condition, develop water resources, reduce operating costs, maintain or improve water quality, address environmental and safety issues, provide for support facilities (including power), and meet other objectives defined by the Authority.

The MCCP was initially approved and issued on June 20, 2002 and was last amended on September 15, 2005. The character of the MCCP is dynamic and responsive to the changing needs of the Authority. The projects presented and defined in the MCCP are reviewed and revised at least annually. The status of each project is updated in each revision. Only the Authority's Board of Directors can authorize revisions to the MCCP. Additionally, all increases to the total cost of the MCCP must be approved by the governing board of each Southern Nevada Water System (SNWS) Purveyor Member.

Plan Summary

The various sections of this MCCP document define the general location, scope, estimated costs, and schedule for each active project, list candidate projects that are not yet approved but may be proposed for future implementation, list all completed projects and project cash flows for active projects.

Cost estimates for previously approved projects have been updated since the previous amendment to reflect changes affecting project costs. All approved and active projects are individually defined in Section 3. This amendment of the MCCP adds eighteen new projects.

- Project No. 090G – Clark, Lincoln and White Pine Counties Groundwater Development
- Project No. 300E – SCADA System Replacement
- Project No. 300G – RMWTF Operators Video Display Upgrade
- Project No. 300H – Stage I and II Facilities PLC Upgrade
- Project No. 300I – AMSWTF Asbestos Removal
- Project No. 310E – North I-15 Treatment and Transmission Facilities Planning
- Project No. 320O – AMSWTF Filter Improvements Demonstration
- Project No. 320P – AMSWTF Chlorine Building I Rehabilitation
- Project No. 320Q – AMSWTF Process Drainage Improvements
- Project No. 340I – McCullough Lateral Planning
- Project No. 340J – Ductile Iron Pump Inspection and Evaluation
- Project No. 340K – Reservoir Vent Modifications
- Project No. 340L – Hemenway ROFC Improvements
- Project No. 340M – Air Vacuum and Relief Valve Piping Adjustments
- Project No. 340N – Stage II ROFC Isolation Valve Replacements
- Project No. 340O – Pumping Station 6 Forebay Relining
- Project No. 340P – Charleston Heights Lateral Repair and Valve Installation
- Project No. 370L – SCADA Communications Upgrades

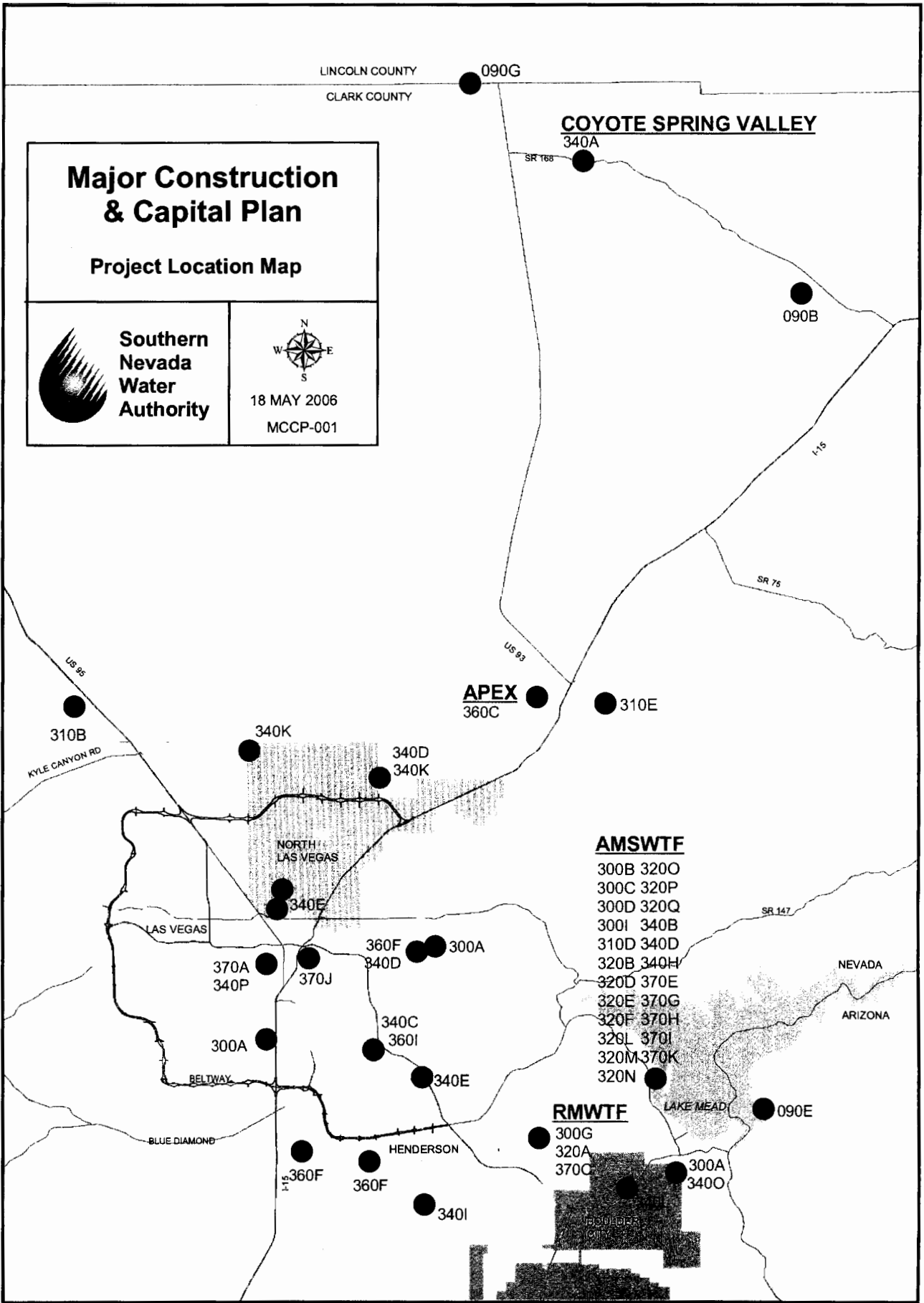
Fifteen of these new projects are for miscellaneous repair, maintenance or upgrade of major facility components of the SNWS that are necessary to keep the system in a sound and functional condition. Three projects are for planning efforts associated with the potential future projects developing additional water resources and system capacity. The estimated cost increase of these eighteen new projects is \$179,021,000.

The following table summarizes the changes of this amendment and the current status of the MCCP.

	This Amendment			
	Added Projects	Deleted Projects	Completed Projects	Adjustments to Previously Approved Projects
Number	18	0	2	---
Value (\$1,000)	179,021	0	1,320	77,831

SECTION 2

PROJECT LOCATION MAP



LINCOLN COUNTY
CLARK COUNTY

COYOTE SPRING VALLEY
340A

**Major Construction
& Capital Plan**
Project Location Map



18 MAY 2006
MCCP-001

AMSWTF

- 300B 320O
- 300C 320P
- 300D 320Q
- 300I 340B
- 310D 340D
- 320B 340H
- 320D 370E
- 320E 370G
- 320F 370H
- 320L 370I
- 320M 370K
- 320N

RMWTF

- 300G
- 320A
- 370C

SR 147

NEVADA
ARIZONA

LAKE MEAD

090E

Las Vegas
City

SECTION 3

ACTIVE PROJECTS

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Water Resources (Muddy River)	Project Number: 090B <hr/> Project Status: Procurement												
Project Description: Acquisition of water shares in the Muddy Valley Irrigation Company and other water rights on the Muddy River.													
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Jun-1997 A</td> </tr> <tr> <td>Project Complete</td> <td>Jan-2011</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Jun-1997 A	Project Complete	Jan-2011	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Acquisition of Water Rights</td> <td style="text-align: right;">28,405</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">28,405</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Acquisition of Water Rights	28,405	Total \$	28,405
<u>Activity</u>	<u>Date *</u>												
Project Approved	Jun-1997 A												
Project Complete	Jan-2011												
<u>Activity</u>	<u>Cost (\$1,000) *</u>												
Acquisition of Water Rights	28,405												
Total \$	28,405												
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".													
Remarks: As of March 2006, SNWA had acquired approximately 7,159 acre-feet out of 9,500 acre-feet of Muddy Valley Irrigation Company shares authorized to be acquired and 2,001 acre-feet of long-term leases on other Muddy River surface water rights.													
Primary Funding: Regional Funding Plan													

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Arizona Groundwater Banking	Project Number: 090E <hr/> Project Status: Implementation												
Project Description: Funding for banking of Colorado River water in Arizona that creates long term storage credits for Nevada's future use.													
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Dec-2004 A</td> </tr> <tr> <td>Project Complete</td> <td>Dec-2018</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Dec-2004 A	Project Complete	Dec-2018	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Water Purchase</td> <td style="text-align: right;">340,000</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">340,000</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Water Purchase	340,000	Total \$	340,000
<u>Activity</u>	<u>Date *</u>												
Project Approved	Dec-2004 A												
Project Complete	Dec-2018												
<u>Activity</u>	<u>Cost (\$1,000) *</u>												
Water Purchase	340,000												
Total \$	340,000												
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".													
Remarks: A December 2004 amended agreement between the Southern Nevada Water Authority, the Nevada Colorado River Commission and the Arizona Water Banking Authority guarantees an additional 1.13 million acre-feet of long-term storage credits which, with the existing 0.12 million acre-feet of credits, totals 1.25 million acre-feet of banked Colorado River water for Nevada's future use.													
Primary Funding: Regional Funding Plan													

**Southern Nevada Water Authority
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Project Title: Water Resource Acquisition and Development	Project Number: 090F Project Status: Implementation																								
Project Description: Acquire rights to and develop the water resources needed to meet the needs of the community of Southern Nevada. These water resources include the Colorado River and Nevada's in-state water resources.																									
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Oct-2003 A</td> </tr> <tr> <td>Integrated Water Planning</td> <td>Nov-2005 A</td> </tr> <tr> <td>Planning Complete</td> <td>Jul-2010</td> </tr> <tr> <td>Project Complete</td> <td>Jun-2020</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Oct-2003 A	Integrated Water Planning	Nov-2005 A	Planning Complete	Jul-2010	Project Complete	Jun-2020	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">6,000</td> </tr> <tr> <td>Planning</td> <td style="text-align: right;">4,000</td> </tr> <tr> <td>Environment</td> <td style="text-align: right;">5,000</td> </tr> <tr> <td>Water Rights</td> <td style="text-align: right;">24,000</td> </tr> <tr> <td>Water Purchase</td> <td style="text-align: right;">25,000</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">64,000</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	6,000	Planning	4,000	Environment	5,000	Water Rights	24,000	Water Purchase	25,000	Total \$	64,000
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Water Rights	24,000																								
Water Purchase	25,000																								
Total \$	64,000																								
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".																									
Remarks: Six years of severe drought have reduced available supplies of Colorado River water and impart urgency to the need to acquire and develop other water resources. A Water Planning Advisory Committee presented recommendations for development of water resource options to the SNWA Board of Directors on November 17, 2005. These recommendations have supported efforts to pursue water resources through a broad range of options, including conservation and in-state groundwater and surface water development. As of March 2006, \$11,906,500 had been expended in the purchase of water rights on the Virgin River that predate the Colorado River Compact.																									
Primary Funding: Regional Funding Plan																									

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Clark, Lincoln, and White Pine Counties Groundwater Development	Project Number: 090G Project Status: Planning																				
Project Description: Conduct engineering and hydrologic studies, drill aquifer test wells, perform preliminary facility planning, conduct environmental analyses, and secure water rights required for development of groundwater resources in Clark, Lincoln, and White Pine Counties.																					
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>May-2006</td> </tr> <tr> <td>EIS Record of Decision Issued</td> <td>Oct-2008</td> </tr> <tr> <td>Test Wells Completed</td> <td>May-2009</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	May-2006	EIS Record of Decision Issued	Oct-2008	Test Wells Completed	May-2009	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">500</td> </tr> <tr> <td>Planning</td> <td style="text-align: right;">5,500</td> </tr> <tr> <td>Environment</td> <td style="text-align: right;">22,000</td> </tr> <tr> <td>Test Wells</td> <td style="text-align: right;">38,000</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">66,000</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	500	Planning	5,500	Environment	22,000	Test Wells	38,000	Total \$	66,000
<u>Activity</u>	<u>Date *</u>																				
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Environment	22,000																				
Test Wells	38,000																				
Total \$	66,000																				
<small>* Project Dates and Costs are projected unless indicated by an "A" for "Actual".</small>																					
Remarks: During 2004 and 2005, a stakeholder driven water planning process was conducted by means of a Water Planning Advisory Committee. The development of unused groundwater resources available in Clark, Lincoln, and White Pine Counties was one of several recommendations of the advisory committee. Related costs already incurred in support of this potential project which were authorized previously under Project No. 090F have been transferred to the budget for this project.																					
Primary Funding: Regional Funding Plan																					

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: PS6 - Valley View Regulating Tank Security and Offsite Improvements	Project Number: 300A <hr/> Project Status: Construction																		
Project Description: Construct security and off-site improvements, including walls, gates, sidewalks, curbs and gutters, lighting and landscaping at Pumping Station 6 and at the Valley View Regulating Tank.																			
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Jul-2003 A</td> </tr> <tr> <td>Design Complete</td> <td>Jul-2005 A</td> </tr> <tr> <td>Project Complete</td> <td>Jan-2007</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Jul-2003 A	Design Complete	Jul-2005 A	Project Complete	Jan-2007	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">10</td> </tr> <tr> <td>Design</td> <td style="text-align: right;">10</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">840</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">860</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	10	Design	10	Construction	840	Total \$	860
<u>Activity</u>	<u>Date *</u>																		
Project Approved	Jul-2003 A																		
Design Complete	Jul-2005 A																		
Project Complete	Jan-2007																		
<u>Activity</u>	<u>Cost (\$1,000) *</u>																		
Administration	10																		
Design	10																		
Construction	840																		
Total \$	860																		
<small>* Project Dates and Costs are projected unless indicated by an "A" for "Actual".</small>																			
Remarks: Off-site improvements at the Pumping Station No. 6 were requested by neighbors to make the facility's appearance more compatible with the community and are necessary to meet current county standards and improve site security. Coordination with the county has resulted in additional off-site improvement requirements at an increased cost. Improvements at the Valley View Regulating Tank are required to improve site security.																			
Primary Funding: Wholesale Delivery Charge																			

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Radio Communication System Upgrades	Project Number: 300B Project Status: Planning																				
Project Description: Purchase, install, and commission new radio communication equipment to upgrade the existing radio communication system for improved routine and emergency operations.																					
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Sep-2005 A</td> </tr> <tr> <td>Planning Complete</td> <td>May-2006</td> </tr> <tr> <td>Design Complete</td> <td>Jun-2006</td> </tr> <tr> <td>Procurement Complete</td> <td>Jul-2006</td> </tr> <tr> <td>Project Complete</td> <td>Aug-2006</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Sep-2005 A	Planning Complete	May-2006	Design Complete	Jun-2006	Procurement Complete	Jul-2006	Project Complete	Aug-2006	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">15</td> </tr> <tr> <td>Procurement</td> <td style="text-align: right;">600</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">615</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	15	Procurement	600	Total \$	615
<u>Activity</u>	<u>Date *</u>																				
Project Approved	Sep-2005 A																				
Planning Complete	May-2006																				
Design Complete	Jun-2006																				
Procurement Complete	Jul-2006																				
Project Complete	Aug-2006																				
<u>Activity</u>	<u>Cost (\$1,000) *</u>																				
Administration	15																				
Procurement	600																				
Total \$	615																				
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".																					
Remarks: The new system will provide better communication over a wider area during normal and emergency situations. This upgrade will be accomplished in consultation with the Southern Nevada Area Communication Council.																					
Primary Funding: Wholesale Delivery Charge																					

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Overhead Crane Upgrades	Project Number: 300C Project Status: Design																
Project Description: Refurbish overhead cranes at various pumping stations.																	
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Sep-2005 A</td> </tr> <tr> <td>Procurement Complete</td> <td>Jul-2006</td> </tr> <tr> <td>Construction Complete</td> <td>Dec-2006</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Sep-2005 A	Procurement Complete	Jul-2006	Construction Complete	Dec-2006	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">175</td> </tr> <tr> <td>Procurement</td> <td style="text-align: right;">175</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">350</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	175	Procurement	175	Total \$	350
<u>Activity</u>	<u>Date *</u>																
Project Approved	Sep-2005 A																
Procurement Complete	Jul-2006																
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Administration	175																
Procurement	175																
Total \$	350																
<small>* Project Dates and Costs are projected unless indicated by an "A" for "Actual".</small>																	
Remarks:																	
Primary Funding: Wholesale Delivery Charge																	

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Roofing Replacements	Project Number: 300D <hr/> Project Status: Planning																		
Project Description: Replace deteriorated roofing on various buildings throughout the Southern Nevada Water System.																			
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Sep-2005 A</td> </tr> <tr> <td>Planning Complete</td> <td>Nov-2005 A</td> </tr> <tr> <td>Procurement Complete</td> <td>May-2006</td> </tr> <tr> <td>Project Complete</td> <td>Nov-2006</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Sep-2005 A	Planning Complete	Nov-2005 A	Procurement Complete	May-2006	Project Complete	Nov-2006	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">15</td> </tr> <tr> <td>Procurement</td> <td style="text-align: right;">790</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">805</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	15	Procurement	790	Total \$	805
<u>Activity</u>	<u>Date *</u>																		
Project Approved	Sep-2005 A																		
Planning Complete	Nov-2005 A																		
Procurement Complete	May-2006																		
Project Complete	Nov-2006																		
<u>Activity</u>	<u>Cost (\$1,000) *</u>																		
Administration	15																		
Procurement	790																		
Total \$	805																		
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".																			
Remarks: This project initially was focused on the Chlorine Building roof at AMSWTF and the Administration area roof at RMWTF. It was subsequently determined that additional roofing at AMSWTF needs to be repaired and that the damaged roof at Lamb PS needs to be replaced.																			
Primary Funding: Wholesale Delivery Charge																			

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: SCADA System Replacement	Project Number: 300E <hr/> Project Status: Programmed														
Project Description: Phase 1 of this project will define requirements, evaluate potential systems and develop project criteria for a new Supervisory Control and Data Acquisition System (SCADA) for the entire Southern Nevada Water System.															
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>May-2006</td> </tr> <tr> <td>Planning Complete</td> <td>May-2007</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	May-2006	Planning Complete	May-2007	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">200</td> </tr> <tr> <td>Planning</td> <td style="text-align: right;">1,800</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">2,000</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	200	Planning	1,800	Total \$	2,000
<u>Activity</u>	<u>Date *</u>														
Project Approved	May-2006														
Planning Complete	May-2007														
<u>Activity</u>	<u>Cost (\$1,000) *</u>														
Administration	200														
Planning	1,800														
Total \$	2,000														
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".															
Remarks: This initial Phase 1 work is expected to be followed by a subsequent phase involving selection and implementation of a new SCADA system.															
Primary Funding: Wholesale Delivery Charge															

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: RMWTF Operators Video Display Upgrade	Project Number: 300G Project Status: Programmed																
Project Description: Upgrade the display unit for the operators in the control room of the River Mountains Water Treatment Facility.																	
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>May-2006</td> </tr> <tr> <td>Procurement Complete</td> <td>Oct-2006</td> </tr> <tr> <td>Project Complete</td> <td>Dec-2006</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	May-2006	Procurement Complete	Oct-2006	Project Complete	Dec-2006	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">40</td> </tr> <tr> <td>Procurement</td> <td style="text-align: right;">200</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">240</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	40	Procurement	200	Total \$	240
<u>Activity</u>	<u>Date *</u>																
Project Approved	May-2006																
Procurement Complete	Oct-2006																
Project Complete	Dec-2006																
<u>Activity</u>	<u>Cost (\$1,000) *</u>																
Administration	40																
Procurement	200																
Total \$	240																
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".																	
Remarks:																	
Primary Funding: Wholesale Delivery Charge																	

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Stage I and II Facilities PLC Upgrades	Project Number: 300H Project Status: Programmed																								
Project Description: Upgrade the programmable logic controllers at the pumping stations and rate-of-flow control stations on the Stage I and Stage II facilities constructed by the Bureau of Reclamation during the 1970s and 1980s.																									
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>May-2006</td> </tr> <tr> <td>Planning Complete</td> <td>Jun-2006</td> </tr> <tr> <td>Design Complete</td> <td>Dec-2006</td> </tr> <tr> <td>Procurement Complete</td> <td>Apr-2007</td> </tr> <tr> <td>Construction Complete</td> <td>Apr-2008</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	May-2006	Planning Complete	Jun-2006	Design Complete	Dec-2006	Procurement Complete	Apr-2007	Construction Complete	Apr-2008	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">200</td> </tr> <tr> <td>Design</td> <td style="text-align: right;">800</td> </tr> <tr> <td>Procurement</td> <td style="text-align: right;">2,000</td> </tr> <tr> <td>Installation</td> <td style="text-align: right;">1,650</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">4,650</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	200	Design	800	Procurement	2,000	Installation	1,650	Total \$	4,650
<u>Activity</u>	<u>Date *</u>																								
Project Approved	May-2006																								
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<u>Activity</u>	<u>Cost (\$1,000) *</u>																								
Administration	200																								
Design	800																								
Procurement	2,000																								
Installation	1,650																								
Total \$	4,650																								
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".																									
Remarks: SNWA Operations will install the new controllers using in-house personnel. The award of a construction contract for installation is not anticipated.																									
Primary Funding: Wholesale Delivery Charge																									

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: AMSWTF Asbestos Removal	Project Number: 3001 <hr/> Project Status: Programmed																
Project Description: Remove building materials containing asbestos from various areas of the Alfred Merritt Smith Water Treatment Facility.																	
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>May-2006</td> </tr> <tr> <td>Planning Complete</td> <td>Jul-2006</td> </tr> <tr> <td>Procurement Complete</td> <td>Sep-2006</td> </tr> <tr> <td>Project Complete</td> <td>Feb-2007</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	May-2006	Planning Complete	Jul-2006	Procurement Complete	Sep-2006	Project Complete	Feb-2007	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Asbestos Removal</td> <td style="text-align: right;">200</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">200</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Asbestos Removal	200	Total \$	200
<u>Activity</u>	<u>Date *</u>																
Project Approved	May-2006																
Planning Complete	Jul-2006																
Procurement Complete	Sep-2006																
Project Complete	Feb-2007																
<u>Activity</u>	<u>Cost (\$1,000) *</u>																
Asbestos Removal	200																
Total \$	200																
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".																	
Remarks:																	
Primary Funding: Wholesale Delivery Charge																	

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Three Lakes Valley Groundwater Development	Project Number: 310B <hr/> Project Status: Design																												
Project Description: Construct approximately 130,000 LF of 30-inch pipeline, up to 9 wells, required treatment facilities, a rate of flow control & hydroturbine facility, monitoring wells, power supply system and related appurtenances.																													
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Jul-2004 A</td> </tr> <tr> <td>Design Complete</td> <td>May-2007</td> </tr> <tr> <td>Construction Complete</td> <td>Mar-2009</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Jul-2004 A	Design Complete	May-2007	Construction Complete	Mar-2009	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">1,000</td> </tr> <tr> <td>Environment</td> <td style="text-align: right;">3,370</td> </tr> <tr> <td>ROW</td> <td style="text-align: right;">5,800</td> </tr> <tr> <td>Permitting</td> <td style="text-align: right;">50</td> </tr> <tr> <td>Design</td> <td style="text-align: right;">4,600</td> </tr> <tr> <td>Construction Management</td> <td style="text-align: right;">4,200</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">77,300</td> </tr> <tr> <td>Water Rights</td> <td style="text-align: right;">50</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">96,370</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	1,000	Environment	3,370	ROW	5,800	Permitting	50	Design	4,600	Construction Management	4,200	Construction	77,300	Water Rights	50	Total \$	96,370
<u>Activity</u>	<u>Date *</u>																												
Project Approved	Jul-2004 A																												
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Construction	77,300																												
Water Rights	50																												
Total \$	96,370																												
<p>* Project Dates and Costs are projected unless indicated by an "A" for "Actual".</p>																													
Remarks: In 2005, the State Engineer granted 8,018 AFY in ground water rights from the Three Lakes North, Three Lakes South, and Tikaboo South hydrologic basins. An application is under review to allow these rights to be diverted from well locations in the Three Lakes South basin.																													
Primary Funding: Regional Funding Plan																													

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: IPS-1 Pump and Motor Replacements	Project Number: 310C <hr/> Project Status: Construction																				
Project Description: Purchase and install larger motors and pumps with additional pump bowls to preserve pumping system capacity at Intake Pumping Station No. 1.																					
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Jul-2004 A</td> </tr> <tr> <td>Design Complete</td> <td>Mar-2005 A</td> </tr> <tr> <td>Construction Complete</td> <td>Mar-2007</td> </tr> <tr> <td>Project Complete</td> <td>May-2007</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Jul-2004 A	Design Complete	Mar-2005 A	Construction Complete	Mar-2007	Project Complete	May-2007	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">100</td> </tr> <tr> <td>Design</td> <td style="text-align: right;">1,000</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">25,000</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">26,100</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	100	Design	1,000	Construction	25,000	Total \$	26,100
<u>Activity</u>	<u>Date *</u>																				
Project Approved	Jul-2004 A																				
Design Complete	Mar-2005 A																				
Construction Complete	Mar-2007																				
Project Complete	May-2007																				
<u>Activity</u>	<u>Cost (\$1,000) *</u>																				
Administration	100																				
Design	1,000																				
Construction	25,000																				
Total \$	26,100																				
<p><small>* Project Dates and Costs are projected unless indicated by an "A" for "Actual".</small></p>																					
Remarks: This project was placed on an accelerated schedule as a result of rapidly declining Lake Mead water levels. The project is currently under construction and is scheduled to be completed before the peak pumping season in 2007.																					
Primary Funding: Regional Funding Plan																					

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: EBROFC Valve Replacements	Project Number: 310D Project Status: Construction																						
Project Description: Replace three 48-inch diameter butterfly valves in the rate-of-flow control station vault of the Emergency Bypass between the discharge of Intake Pumping Station No. 2 and the inlet of the Alfred Merritt Smith Water Treatment Facility.																							
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Sep-2005 A</td> </tr> <tr> <td>Design Complete</td> <td>Dec-2005 A</td> </tr> <tr> <td>Construction Complete</td> <td>Jun-2007</td> </tr> <tr> <td>Project Complete</td> <td>Aug-2007</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Sep-2005 A	Design Complete	Dec-2005 A	Construction Complete	Jun-2007	Project Complete	Aug-2007	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">1</td> </tr> <tr> <td>Design</td> <td style="text-align: right;">124</td> </tr> <tr> <td>Construction Management</td> <td style="text-align: right;">10</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">1,300</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">1,435</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	1	Design	124	Construction Management	10	Construction	1,300	Total \$	1,435
<u>Activity</u>	<u>Date *</u>																						
Project Approved	Sep-2005 A																						
Design Complete	Dec-2005 A																						
Construction Complete	Jun-2007																						
Project Complete	Aug-2007																						
<u>Activity</u>	<u>Cost (\$1,000) *</u>																						
Administration	1																						
Design	124																						
Construction Management	10																						
Construction	1,300																						
Total \$	1,435																						
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".																							
Remarks:																							
Primary Funding: Wholesale Delivery Charge																							

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: North I-15 Treatment and Transmission Facilities Planning	Project Number: 310E <hr/> Project Status: Programmed														
Project Description: Develop facilities concept plans and initiate environmental and predesign activities for potential treatment and transmission of Colorado River surplus and augmentation water along the north I-15 corridor.															
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>May-2006</td> </tr> <tr> <td>Planning Complete</td> <td>Jun-2008</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	May-2006	Planning Complete	Jun-2008	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Planning</td> <td style="text-align: right;">42,000</td> </tr> <tr> <td>Treatment Pilot Studies</td> <td style="text-align: right;">4,000</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">46,000</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Planning	42,000	Treatment Pilot Studies	4,000	Total \$	46,000
<u>Activity</u>	<u>Date *</u>														
Project Approved	May-2006														
Planning Complete	Jun-2008														
<u>Activity</u>	<u>Cost (\$1,000) *</u>														
Planning	42,000														
Treatment Pilot Studies	4,000														
Total \$	46,000														
<small>* Project Dates and Costs are projected unless indicated by an "A" for "Actual".</small>															
Remarks: This planning work is necessary to assure that facilities can be designed and constructed in time to deliver water resources that may become available through future agreements under discussion with the Colorado River basin states and the Bureau of Reclamation. The estimated costs shown above should be sufficient for planning activities through June 2008.															
Primary Funding: Regional Funding Plan															

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: River Mountains Water Treatment Facility Water Quality Laboratory and Pilot Plant	Project Number: 320A <hr/> Project Status: Construction																										
Project Description: Construct a regional water quality laboratory and pilot plant to test water quality as required by drinking water regulations, to perform applied research to optimize existing treatment technologies and to evaluate new treatment technologies. The facilities to be built at the River Mountains Water Treatment Facilities include a 45,000 square-foot central water quality laboratory and support facilities and a 2,000 square-foot, 10-gpm pilot plant.																											
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Jun-2002 A</td> </tr> <tr> <td>Design Complete</td> <td>Oct-2004 A</td> </tr> <tr> <td>Construction Complete</td> <td>Sep-2007</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Jun-2002 A	Design Complete	Oct-2004 A	Construction Complete	Sep-2007	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">989</td> </tr> <tr> <td>Planning</td> <td style="text-align: right;">860 A</td> </tr> <tr> <td>Environment</td> <td style="text-align: right;">207</td> </tr> <tr> <td>Permitting</td> <td style="text-align: right;">200</td> </tr> <tr> <td>Design</td> <td style="text-align: right;">6,500</td> </tr> <tr> <td>Construction Management</td> <td style="text-align: right;">1,928</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">36,637</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">47,321</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	989	Planning	860 A	Environment	207	Permitting	200	Design	6,500	Construction Management	1,928	Construction	36,637	Total \$	47,321
<u>Activity</u>	<u>Date *</u>																										
Project Approved	Jun-2002 A																										
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Construction Management	1,928																										
Construction	36,637																										
Total \$	47,321																										
<p>* Project Dates and Costs are projected unless indicated by an "A" for "Actual".</p>																											
Remarks: The project budget was amended to incorporate increases in scope which include new laboratory analytical equipment, office furnishings, moving costs for transfer of lab functions to new facility, and changes to the design and construction of the pilot plant.																											
Primary Funding: Wholesale Delivery Charge																											

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Remodel Former AMSWTF Laboratory Spaces	Project Number: 320B Project Status: Planning																										
Project Description: Remodel the former laboratory space at the AMSWTF. The remodeled space will house Maintenance Engineering and computer server equipment. It will also provide for a group assembly area.																											
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Jun-2002 A</td> </tr> <tr> <td>Design Complete</td> <td>Apr-2007</td> </tr> <tr> <td>Construction Complete</td> <td>Jul-2008</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Jun-2002 A	Design Complete	Apr-2007	Construction Complete	Jul-2008	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">50</td> </tr> <tr> <td>Planning</td> <td style="text-align: right;">40</td> </tr> <tr> <td>Environment</td> <td style="text-align: right;">12</td> </tr> <tr> <td>Permitting</td> <td style="text-align: right;">12</td> </tr> <tr> <td>Design</td> <td style="text-align: right;">137</td> </tr> <tr> <td>Construction Management</td> <td style="text-align: right;">87</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">1,246</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">1,584</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	50	Planning	40	Environment	12	Permitting	12	Design	137	Construction Management	87	Construction	1,246	Total \$	1,584
<u>Activity</u>	<u>Date *</u>																										
Project Approved	Jun-2002 A																										
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Permitting	12																										
Design	137																										
Construction Management	87																										
Construction	1,246																										
Total \$	1,584																										
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".																											
Remarks: The construction of the central laboratory at the RMWTF under Project No. 320A will allow laboratory functions at the AMSWTF to be shifted to the RMWTF. This project will remodel the resulting available spaces to provide for other necessary operations.																											
Primary Funding: Wholesale Delivery Charge																											

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: AMSWTF Cathodic Corrosion Protection System Repairs and Upgrades	Project Number: 320E <hr/> Project Status: Design																				
Project Description: Evaluate, repair, and upgrade the overall cathodic corrosion protection systems at the Alfred Merritt Smith Water Treatment Facility.																					
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date</u> *</th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Jul-2003 A</td> </tr> <tr> <td>Design Complete</td> <td>Apr-2006 A</td> </tr> <tr> <td>Construction Complete</td> <td>Aug-2007</td> </tr> <tr> <td>Project Complete</td> <td>Sep-2007</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date</u> *	Project Approved	Jul-2003 A	Design Complete	Apr-2006 A	Construction Complete	Aug-2007	Project Complete	Sep-2007	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000)</u> *</th> </tr> </thead> <tbody> <tr> <td>Planning</td> <td style="text-align: right;">25</td> </tr> <tr> <td>Design</td> <td style="text-align: right;">200</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">375</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">600</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000)</u> *	Planning	25	Design	200	Construction	375	Total \$	600
<u>Activity</u>	<u>Date</u> *																				
Project Approved	Jul-2003 A																				
Design Complete	Apr-2006 A																				
Construction Complete	Aug-2007																				
Project Complete	Sep-2007																				
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Primary Funding: Wholesale Delivery Charge																					

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: AMSWTF Filtration System Valve Repairs	Project Number: 320F Project Status: Design														
Project Description: Repair or replace valves and valve actuators in the filtration systems at the Alfred Merritt Smith Water Treatment Facility, including filter influent and effluent valves, wash water valves and air valves for filters 1 through 20.															
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Jul-2003 A</td> </tr> <tr> <td>Design Complete</td> <td>Jun-2006</td> </tr> <tr> <td>Project Complete</td> <td>Dec-2008</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Jul-2003 A	Design Complete	Jun-2006	Project Complete	Dec-2008	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Construction</td> <td style="text-align: right;">1,500</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">1,500</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Construction	1,500	Total \$	1,500
<u>Activity</u>	<u>Date *</u>														
Project Approved	Jul-2003 A														
Design Complete	Jun-2006														
Project Complete	Dec-2008														
<u>Activity</u>	<u>Cost (\$1,000) *</u>														
Construction	1,500														
Total \$	1,500														
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".															
Remarks: The existing filtration system valves in filters 1 through 20 have deteriorated and all leak. A major overhaul or replacement of the valves will restore filter performance.															
Primary Funding: Wholesale Delivery Charge															

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Alfred Merritt Smith Water Treatment Facility Pilot Plant		Project Number: 3201	
		Project Status: Planning	
Project Description: Construct a 10,000 square-foot, 150-gpm pilot plant for evaluation and optimization of treatment processes specific to the water quality characteristics at the AMSWTF.			
Project Schedule:		Project Cost:	
<u>Activity</u>	<u>Date *</u>	<u>Activity</u>	<u>Cost (\$1,000) *</u>
Project Approved	Jul-2004 A	Administration	330
Design Complete	Jun-2008	Environment	80
Construction Complete	May-2010	Permitting	80
Project Complete	Sep-2010	Design	850
		Construction Management	580
		Construction	8,250
		Total \$	10,170
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".			
Remarks: Project implementation is being deferred as a result of recent changes to the raw water delivery systems recently completed or currently in planning and construction.			
Primary Funding: Wholesale Delivery Charge			

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Chloramine Disinfection Study	Project Number: 320J <hr/> Project Status: Planning												
Project Description: Evaluate and define requirements that would be associated with chloramine disinfection of treated water as a potential technique for reducing formation of disinfection byproducts.													
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Dec-2004 A</td> </tr> <tr> <td>Project Complete</td> <td>Dec-2008</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Dec-2004 A	Project Complete	Dec-2008	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">500</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">500</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	500	Total \$	500
<u>Activity</u>	<u>Date *</u>												
Project Approved	Dec-2004 A												
Project Complete	Dec-2008												
<u>Activity</u>	<u>Cost (\$1,000) *</u>												
Administration	500												
Total \$	500												
<small>* Project Dates and Costs are projected unless indicated by an "A" for "Actual".</small>													
Remarks:													
Primary Funding: Wholesale Delivery Charge													

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Surface Water Treatment Pilot Studies	Project Number: 320K <hr/> Project Status: Planning												
Project Description: Perform pilot studies of treatment processes that would be appropriate for application to surface waters such as the Virgin and Muddy Rivers and the epilimnion of Lake Mead to achieve compliance with drinking water standards.													
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Dec-2004 A</td> </tr> <tr> <td>Project Complete</td> <td>Dec-2007</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Dec-2004 A	Project Complete	Dec-2007	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">1,700</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">1,700</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	1,700	Total \$	1,700
<u>Activity</u>	<u>Date *</u>												
Project Approved	Dec-2004 A												
Project Complete	Dec-2007												
<u>Activity</u>	<u>Cost (\$1,000) *</u>												
Administration	1,700												
Total \$	1,700												
<p><small>* Project Dates and Costs are projected unless indicated by an "A" for "Actual".</small></p>													
Remarks: The estimated costs indicated here are for initial pilot study activities, involving paper and bench scale studies. Full-scale pilot testing of target treatment processes will require additional funding.													
Primary Funding: Regional Funding Plan and Wholesale Delivery Charge													

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: AMSWTF Electrical Disconnect Switch Replacements	Project Number: 320L Project Status: Planning																
Project Description: Replace seven worn 4160-volt electrical disconnect switches at various locations in the Alfred Merritt Smith Water Treatment Facility.																	
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Sep-2005 A</td> </tr> <tr> <td>Procurement Complete</td> <td>Oct-2006</td> </tr> <tr> <td>Project Complete</td> <td>Feb-2007</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Sep-2005 A	Procurement Complete	Oct-2006	Project Complete	Feb-2007	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">105</td> </tr> <tr> <td>Procurement</td> <td style="text-align: right;">160</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">265</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	105	Procurement	160	Total \$	265
<u>Activity</u>	<u>Date *</u>																
Project Approved	Sep-2005 A																
Procurement Complete	Oct-2006																
Project Complete	Feb-2007																
<u>Activity</u>	<u>Cost (\$1,000) *</u>																
Administration	105																
Procurement	160																
Total \$	265																
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".																	
Remarks: Higher frequency of repair and reliability considerations of various subsystems in the plant result in the need for this project.																	
Primary Funding: Wholesale Delivery Charge																	

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Spare Filter Backwash Control Valve	Project Number: 320M Project Status: Planning																
Project Description: This project will purchase a new filter backwash control valve and allow for the refurbishment of the existing valve to be maintained as a spare.																	
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Sep-2005 A</td> </tr> <tr> <td>Procurement Complete</td> <td>May-2006</td> </tr> <tr> <td>Project Complete</td> <td>Dec-2006</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Sep-2005 A	Procurement Complete	May-2006	Project Complete	Dec-2006	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">15</td> </tr> <tr> <td>Procurement</td> <td style="text-align: right;">135</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">150</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	15	Procurement	135	Total \$	150
<u>Activity</u>	<u>Date *</u>																
Project Approved	Sep-2005 A																
Procurement Complete	May-2006																
Project Complete	Dec-2006																
<u>Activity</u>	<u>Cost (\$1,000) *</u>																
Administration	15																
Procurement	135																
Total \$	150																
<small>* Project Dates and Costs are projected unless indicated by an "A" for "Actual".</small>																	
Remarks: This valve is a single point of failure at the AMSWTF and is 35 years old. Current maintenance history and equipment life cycle necessitate this project.																	
Primary Funding: Wholesale Delivery Charge																	

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: AMSWTF A and B Clearwells Slide Gate Actuators	Project Number: 320N Project Status: Design																
Project Description: Purchase and install new slide gate actuators with waterproof enclosures for the A and B Clearwells at the Alfred Merritt Smith Water Treatment Facility. Repair or replace the Stage 1 gates as necessary, particularly Forebay 2 Aqueducts A and B inlet gates.																	
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Sep-2005 A</td> </tr> <tr> <td>Project Complete</td> <td>Aug-2006</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Sep-2005 A	Project Complete	Aug-2006	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">10</td> </tr> <tr> <td>Design</td> <td style="text-align: right;">190</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">1,000</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">1,200</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	10	Design	190	Construction	1,000	Total \$	1,200
<u>Activity</u>	<u>Date *</u>																
Project Approved	Sep-2005 A																
Project Complete	Aug-2006																
<u>Activity</u>	<u>Cost (\$1,000) *</u>																
Administration	10																
Design	190																
Construction	1,000																
Total \$	1,200																
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".																	
Remarks: Original equipment was installed during the construction of the A and B clearwells at the Alfred Merritt Smith Water Treatment Facility. Repair and replacement parts for this equipment are no longer available. An inspection was performed on all of the Stage 1 gates and repairs or replacements should be made as indicated in the inspection report.																	
Primary Funding: Wholesale Delivery Charge																	

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: AMSWTF Filter Improvements Demonstration	Project Number: 3200 Project Status: Programmed																				
Project Description: Implement recommended improvements to the media and underdrain systems of one filter basin to demonstrate the effectiveness of the recommended improvements.																					
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>May-2006</td> </tr> <tr> <td>Design Complete</td> <td>May-2007</td> </tr> <tr> <td>Construction Complete</td> <td>Mar-2008</td> </tr> <tr> <td>Project Complete</td> <td>Apr-2008</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	May-2006	Design Complete	May-2007	Construction Complete	Mar-2008	Project Complete	Apr-2008	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">50</td> </tr> <tr> <td>Design</td> <td style="text-align: right;">150</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">600</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">800</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	50	Design	150	Construction	600	Total \$	800
<u>Activity</u>	<u>Date *</u>																				
Project Approved	May-2006																				
Design Complete	May-2007																				
Construction Complete	Mar-2008																				
Project Complete	Apr-2008																				
<u>Activity</u>	<u>Cost (\$1,000) *</u>																				
Administration	50																				
Design	150																				
Construction	600																				
Total \$	800																				
<p><small>* Project Dates and Costs are projected unless indicated by an "A" for "Actual".</small></p>																					
Remarks: A study completed under Project No. 320D recommended certain improvements to the media and underdrain systems of the filters at the Alfred Merritt Smith Water Treatment Facility. This project is intended to demonstrate whether those recommendations will produce the predicted improvements.																					
Primary Funding: Wholesale Delivery Charge																					

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: AMSWTF Chlorine Building I Rehabilitation	Project Number: 320P <hr/> Project Status: Programmed																
Project Description: Recalibrate tanker scales, test chlorine piping, and repaint the building.																	
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>May-2006</td> </tr> <tr> <td>Project Complete</td> <td>Jun-2009</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	May-2006	Project Complete	Jun-2009	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">10</td> </tr> <tr> <td>Design</td> <td style="text-align: right;">140</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">600</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">750</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	10	Design	140	Construction	600	Total \$	750
<u>Activity</u>	<u>Date *</u>																
Project Approved	May-2006																
Project Complete	Jun-2009																
<u>Activity</u>	<u>Cost (\$1,000) *</u>																
Administration	10																
Design	140																
Construction	600																
Total \$	750																
<small>* Project Dates and Costs are projected unless indicated by an "A" for "Actual".</small>																	
Remarks: The Chlorine Building was constructed in 1995 and has been in use since that time. After completion of the new chlorine building the existing building needs to have the chlorine gas pipelines tested, the tanker scales recalibrated and the building needs repainting.																	
Primary Funding: Wholesale Delivery Charge																	

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: AMSWTF Process Drainage Improvements	Project Number: 320Q Project Status: Programmed																												
Project Description: Incorporate improvements to allow hydraulic components and structures of the Alfred Merritt Smith Water Treatment Facility to be drained more quickly.																													
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>May-2006</td> </tr> <tr> <td>Planning Complete</td> <td>Sep-2006</td> </tr> <tr> <td>Design Complete</td> <td>Sep-2007</td> </tr> <tr> <td>Construction Complete</td> <td>Sep-2008</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	May-2006	Planning Complete	Sep-2006	Design Complete	Sep-2007	Construction Complete	Sep-2008	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">75</td> </tr> <tr> <td>Planning</td> <td style="text-align: right;">50</td> </tr> <tr> <td>Environment</td> <td style="text-align: right;">10</td> </tr> <tr> <td>Permitting</td> <td style="text-align: right;">15</td> </tr> <tr> <td>Design</td> <td style="text-align: right;">150</td> </tr> <tr> <td>Construction Management</td> <td style="text-align: right;">120</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">750</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">1,170</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	75	Planning	50	Environment	10	Permitting	15	Design	150	Construction Management	120	Construction	750	Total \$	1,170
<u>Activity</u>	<u>Date *</u>																												
Project Approved	May-2006																												
Planning Complete	Sep-2006																												
Design Complete	Sep-2007																												
Construction Complete	Sep-2008																												
<u>Activity</u>	<u>Cost (\$1,000) *</u>																												
Administration	75																												
Planning	50																												
Environment	10																												
Permitting	15																												
Design	150																												
Construction Management	120																												
Construction	750																												
Total \$	1,170																												
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".																													
Remarks:																													
Primary Funding: Wholesale Delivery Charge																													

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Coyote Spring Valley Well and Moapa Transmission System	Project Number: 340A <hr/> Project Status: Design																										
Project Description: Construct a 6,200 gpm pumping station with a 0.75 MG forebay, approximately 81,200LF of 24-inch pipeline, a 0.75 MG regulating tank and associated appurtenances to convey water from the MX-5 well site in Coyote Spring Valley to Moapa Valley Water District facilities in Moapa. Equip the MX-5 well to produce approximately 6,500 acre-feet per year and connect supplies from other wells to the system to produce a total of approximately 9,000 acre-feet per year in Coyote Spring Valley.																											
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Jul-2002 A</td> </tr> <tr> <td>Design Complete</td> <td>Oct-2006</td> </tr> <tr> <td>Procurement Complete</td> <td>May-2008</td> </tr> <tr> <td>Construction Complete</td> <td>Nov-2008</td> </tr> <tr> <td>Project Complete</td> <td>Nov-2010</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Jul-2002 A	Design Complete	Oct-2006	Procurement Complete	May-2008	Construction Complete	Nov-2008	Project Complete	Nov-2010	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">1,461</td> </tr> <tr> <td>Environment</td> <td style="text-align: right;">5,125</td> </tr> <tr> <td>Design</td> <td style="text-align: right;">4,465</td> </tr> <tr> <td>Construction Management</td> <td style="text-align: right;">1,087</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">41,325</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">53,463</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	1,461	Environment	5,125	Design	4,465	Construction Management	1,087	Construction	41,325	Total \$	53,463
<u>Activity</u>	<u>Date *</u>																										
Project Approved	Jul-2002 A																										
Design Complete	Oct-2006																										
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<u>Activity</u>	<u>Cost (\$1,000) *</u>																										
Administration	1,461																										
Environment	5,125																										
Design	4,465																										
Construction Management	1,087																										
Construction	41,325																										
Total \$	53,463																										
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".																											
Remarks: This project is being accomplished in cooperation with the Moapa Valley Water District to comply with State Engineer Order No. 1169. Although design was completed in 2003, construction is pending right-of-way and environmental approvals by the Bureau of Land Management. Project completion is two years after construction completion to meet expected environmental mitigation requirements. Project costs have been revised to reflect new treatment requirements necessitating design revisions, potential environmental mitigation requirements, and price escalation over the past three years.																											
Primary Funding: Regional Funding Plan																											

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: PS 1A, 2A, 1B and 2B Pump Repairs and Flow Meter Installation	Project Number: 340B <hr/> Project Status: Design																								
Project Description: Repair or replace impellers, shafts, seal rings, bearings, and casings on up to 28 pumps and install individual flow meters at Pumping Stations 1A, 2A, 1B, and 2B.																									
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Jul-2003 A</td> </tr> <tr> <td>Design Complete</td> <td>Mar-2005 A</td> </tr> <tr> <td>Construction Complete</td> <td>Dec-2005 A</td> </tr> <tr> <td>Design Complete</td> <td>Jun-2007</td> </tr> <tr> <td>Construction Complete</td> <td>Jun-2009</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Jul-2003 A	Design Complete	Mar-2005 A	Construction Complete	Dec-2005 A	Design Complete	Jun-2007	Construction Complete	Jun-2009	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">100</td> </tr> <tr> <td>Planning</td> <td style="text-align: right;">100</td> </tr> <tr> <td>Design</td> <td style="text-align: right;">400</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">2,100</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">2,700</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	100	Planning	100	Design	400	Construction	2,100	Total \$	2,700
<u>Activity</u>	<u>Date *</u>																								
Project Approved	Jul-2003 A																								
Design Complete	Mar-2005 A																								
Construction Complete	Dec-2005 A																								
Design Complete	Jun-2007																								
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Administration	100																								
Planning	100																								
Design	400																								
Construction	2,100																								
Total \$	2,700																								
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".																									
Remarks: Cavitation has worn the pumps' impellers to the point where the pumps need to be repaired. Flow meters are necessary to gather data on the pumps' performance before and after they are repaired. The flow meter portion of the project is complete. The repair of the pumps will be started after the efficiency data has been developed to prioritize the repairs.																									
Primary Funding: Wholesale Delivery Charge																									

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Hacienda Pumping Station Improvements	Project Number: 340C Project Status: Design																						
Project Description: Repair or replace shafts, wear rings and bearings, machine pump casings, and grout pump bases, as needed, on seven pumps. Upgrade electrical switchgear and control system. Construct blockwall and improve on-site and off-site drainage.																							
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Jul-2003 A</td> </tr> <tr> <td>Planning Complete</td> <td>Dec-2004 A</td> </tr> <tr> <td>Design Complete</td> <td>Jul-2006</td> </tr> <tr> <td>Construction Complete</td> <td>Oct-2008</td> </tr> <tr> <td>Project Complete</td> <td>Nov-2008</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Jul-2003 A	Planning Complete	Dec-2004 A	Design Complete	Jul-2006	Construction Complete	Oct-2008	Project Complete	Nov-2008	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">230</td> </tr> <tr> <td>Design</td> <td style="text-align: right;">690</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">4,620</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">5,540</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	230	Design	690	Construction	4,620	Total \$	5,540
<u>Activity</u>	<u>Date *</u>																						
Project Approved	Jul-2003 A																						
Planning Complete	Dec-2004 A																						
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<u>Activity</u>	<u>Cost (\$1,000) *</u>																						
Administration	230																						
Design	690																						
Construction	4,620																						
Total \$	5,540																						
<small>* Project Dates and Costs are projected unless indicated by an "A" for "Actual".</small>																							
Remarks: The existing pumps and electrical switchgear require excessive and frequent maintenance. This project includes remachining or replacement of the pumps and upgrading the electrical switchgear and control system. These improvements, along with blockwall construction, will improve the operational reliability and security of this critical facility.																							
Primary Funding: Wholesale Delivery Charge																							

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: PS 1C, 2C, Sloan, Lamb, BPS1A, and BPS2 Variable Frequency Drive Enhancements	Project Number: 340D <hr/> Project Status: Programmed																						
Project Description: Enhance variable frequency drive backup capability by installing additional electrical gear for alternate constant speed operation in Pumping Stations 1C, 2C, Sloan, Lamb, BPS1A, and BPS2.																							
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Jul-2003 A</td> </tr> <tr> <td>Planning Complete</td> <td>Dec-2006</td> </tr> <tr> <td>Design Complete</td> <td>Sep-2007</td> </tr> <tr> <td>Construction Complete</td> <td>May-2009</td> </tr> <tr> <td>Project Complete</td> <td>Jul-2009</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Jul-2003 A	Planning Complete	Dec-2006	Design Complete	Sep-2007	Construction Complete	May-2009	Project Complete	Jul-2009	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">100</td> </tr> <tr> <td>Design</td> <td style="text-align: right;">400</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">2,200</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">2,700</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	100	Design	400	Construction	2,200	Total \$	2,700
<u>Activity</u>	<u>Date *</u>																						
Project Approved	Jul-2003 A																						
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Design Complete	Sep-2007																						
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<u>Activity</u>	<u>Cost (\$1,000) *</u>																						
Administration	100																						
Design	400																						
Construction	2,200																						
Total \$	2,700																						
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".																							
Remarks: Continual failures of the variable frequency drives have reduced the capability of the pumps to meet the demands placed on them. Operations has continued to work with the manufacturer to eliminate the problems. The performance and reliability of the variable frequency drives will continue to be evaluated through July 2006. The need for additional upgrades or modifications will be reassessed then.																							
Primary Funding: Wholesale Delivery Charge																							

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Sleeve Valve Installation at Galleria, Simmons and Carlton ROFC Stations	Project Number: 340E <hr/> Project Status: Design														
Project Description: Install sleeve valves to replace existing ball valves at the Galleria, Gibson, Simmons, and Carlton Rate-of-Flow Control Stations.															
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Jul-2003 A</td> </tr> <tr> <td>Design Complete</td> <td>Sep-2006</td> </tr> <tr> <td>Construction Complete</td> <td>Dec-2007</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Jul-2003 A	Design Complete	Sep-2006	Construction Complete	Dec-2007	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Construction</td> <td style="text-align: right;">600</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">600</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Construction	600	Total \$	600
<u>Activity</u>	<u>Date *</u>														
Project Approved	Jul-2003 A														
Design Complete	Sep-2006														
Construction Complete	Dec-2007														
<u>Activity</u>	<u>Cost (\$1,000) *</u>														
Construction	600														
Total \$	600														
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".															
Remarks:															
Primary Funding: Wholesale Delivery Charge															

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Transmission Pipelines Discharge Modifications Study	Project Number: 340G
	Project Status: Planning

Project Description:
Evaluate discharge locations on existing transmission pipelines to determine whether modifications should be made to mitigate potential damage to adjacent or downstream properties from water discharges during pipeline draining operations. Develop a report that recommends modifications which may include extension of discharge drain pipes to established storm drains or channels or construction of other improvements.

Project Schedule:		Project Cost:	
<u>Activity</u>	<u>Date *</u>	<u>Activity</u>	<u>Cost (\$1,000) *</u>
Project Approved	Jul-2004 A	Study	400
Project Complete	May-2006		
		Total \$	400

* Project Dates and Costs are projected unless indicated by an "A" for "Actual".

Remarks:
Recommendations from this study will be considered in developing the scope of potential future projects for discharge modifications.

Primary Funding:
Wholesale Delivery Charge

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Pumping Plant No. 7 Upgrades	Project Number: 340H <hr/> Project Status: Design																		
Project Description: Replace worn pumps, motors and electrical equipment in Pumping Plant No. 7 on the Boulder City Lateral.																			
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Sep-2005 A</td> </tr> <tr> <td>Design Complete</td> <td>Jul-2006</td> </tr> <tr> <td>Construction Complete</td> <td>Oct-2007</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Sep-2005 A	Design Complete	Jul-2006	Construction Complete	Oct-2007	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">10</td> </tr> <tr> <td>Design</td> <td style="text-align: right;">500</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">300</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">810</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	10	Design	500	Construction	300	Total \$	810
<u>Activity</u>	<u>Date *</u>																		
Project Approved	Sep-2005 A																		
Design Complete	Jul-2006																		
Construction Complete	Oct-2007																		
<u>Activity</u>	<u>Cost (\$1,000) *</u>																		
Administration	10																		
Design	500																		
Construction	300																		
Total \$	810																		
<small>* Project Dates and Costs are projected unless indicated by an "A" for "Actual".</small>																			
Remarks: The pumps at Pumping Plant No. 7 are 30 years old and have lost over 10 percent efficiency at various operating points. The internal wear has made rehabilitation of the pumps more costly than replacement of the pumps.																			
Primary Funding: Wholesale Delivery Charge																			

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: McCullough Lateral Planning	Project Number: 340I <hr/> Project Status: Programmed																
Project Description: Prepare facilities concept plans and initiate environmental and predesign activities for a potential transmission system from the River Mountains Water Treatment Facility to the southwest area of the Las Vegas Valley.																	
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>May-2006</td> </tr> <tr> <td>Planning Complete</td> <td>Jun-2008</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	May-2006	Planning Complete	Jun-2008	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">11,500</td> </tr> <tr> <td>Planning</td> <td style="text-align: right;">32,000</td> </tr> <tr> <td>Environment</td> <td style="text-align: right;">2,000</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">45,500</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	11,500	Planning	32,000	Environment	2,000	Total \$	45,500
<u>Activity</u>	<u>Date *</u>																
Project Approved	May-2006																
Planning Complete	Jun-2008																
<u>Activity</u>	<u>Cost (\$1,000) *</u>																
Administration	11,500																
Planning	32,000																
Environment	2,000																
Total \$	45,500																
<small>* Project Dates and Costs are projected unless indicated by an "A" for "Actual".</small>																	
Remarks: This planning work is expected to lead to definition of pumping, transmission, storage, and rate-of-flow control facilities that will be designed and constructed under a future separate authorization. The estimated costs shown above should be sufficient for planning activities through June 2008.																	
Primary Funding: Regional Funding Plan																	

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Ductile Iron Pump Inspection and Evaluation	Project Number: 340J Project Status: Programmed												
Project Description: Inspect and evaluate ductile iron pumps within the Southern Nevada Water System to assess corrosion effects and corrosion protection systems.													
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>May-2006</td> </tr> <tr> <td>Project Complete</td> <td>Jun-2008</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	May-2006	Project Complete	Jun-2008	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Planning</td> <td style="text-align: right;">782</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">782</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Planning	782	Total \$	782
<u>Activity</u>	<u>Date *</u>												
Project Approved	May-2006												
Project Complete	Jun-2008												
<u>Activity</u>	<u>Cost (\$1,000) *</u>												
Planning	782												
Total \$	782												
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".													
Remarks:													
Primary Funding: Wholesale Delivery Charge													

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Reservoir Vent Modifications	Project Number: 340K Project Status: Programmed																						
Project Description: Modify the vents at the Decatur, Horizon Ridge, South Valley Regulating Tank, and Grand Teton Reservoirs to provide better security and protection against contamination.																							
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>May-2006</td> </tr> <tr> <td>Design Complete</td> <td>Sep-2006</td> </tr> <tr> <td>Procurement Complete</td> <td>Dec-2006</td> </tr> <tr> <td>Construction Complete</td> <td>Jun-2007</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	May-2006	Design Complete	Sep-2006	Procurement Complete	Dec-2006	Construction Complete	Jun-2007	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">75</td> </tr> <tr> <td>Design</td> <td style="text-align: right;">200</td> </tr> <tr> <td>Procurement</td> <td style="text-align: right;">200</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">580</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">1,055</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	75	Design	200	Procurement	200	Construction	580	Total \$	1,055
<u>Activity</u>	<u>Date *</u>																						
Project Approved	May-2006																						
Design Complete	Sep-2006																						
Procurement Complete	Dec-2006																						
Construction Complete	Jun-2007																						
<u>Activity</u>	<u>Cost (\$1,000) *</u>																						
Administration	75																						
Design	200																						
Procurement	200																						
Construction	580																						
Total \$	1,055																						
<small>* Project Dates and Costs are projected unless indicated by an "A" for "Actual".</small>																							
Remarks:																							
Primary Funding: Wholesale Delivery Charge																							

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Hemenway ROFC Improvements	Project Number: 340L <hr/> Project Status: Programmed																
Project Description: Replace the flow control valve, construct another flow train, and refurbish the electrical and control systems.																	
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>May-2006</td> </tr> <tr> <td>Design Complete</td> <td>Feb-2007</td> </tr> <tr> <td>Construction Complete</td> <td>Nov-2007</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	May-2006	Design Complete	Feb-2007	Construction Complete	Nov-2007	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Design</td> <td style="text-align: right;">200</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">1,300</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">1,500</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Design	200	Construction	1,300	Total \$	1,500
<u>Activity</u>	<u>Date *</u>																
Project Approved	May-2006																
Design Complete	Feb-2007																
Construction Complete	Nov-2007																
<u>Activity</u>	<u>Cost (\$1,000) *</u>																
Design	200																
Construction	1,300																
Total \$	1,500																
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".																	
Remarks:																	
Primary Funding: Wholesale Delivery Charge																	

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Air Vacuum and Relief Valve Piping Adjustments	Project Number: 340M <hr/> Project Status: Programmed																		
Project Description: Adjust and upgrade air vacuum and relief valves along with the related piping at seven rate-of-flow control stations to provide for drainage outside of the facilities.																			
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>May-2006</td> </tr> <tr> <td>Design Complete</td> <td>Dec-2006</td> </tr> <tr> <td>Construction Complete</td> <td>Aug-2007</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	May-2006	Design Complete	Dec-2006	Construction Complete	Aug-2007	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">88</td> </tr> <tr> <td>Design</td> <td style="text-align: right;">150</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">600</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">838</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	88	Design	150	Construction	600	Total \$	838
<u>Activity</u>	<u>Date *</u>																		
Project Approved	May-2006																		
Design Complete	Dec-2006																		
Construction Complete	Aug-2007																		
<u>Activity</u>	<u>Cost (\$1,000) *</u>																		
Administration	88																		
Design	150																		
Construction	600																		
Total \$	838																		
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".																			
Remarks:																			
Primary Funding: Wholesale Delivery Charge																			

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Stage II ROFC Isolation Valve Replacements	Project Number: 340N Project Status: Programmed																						
Project Description: Replace isolation valves in the Stage II rate-of-flow control stations.																							
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>May-2006</td> </tr> <tr> <td>Planning Complete</td> <td>Dec-2006</td> </tr> <tr> <td>Design Complete</td> <td>Sep-2007</td> </tr> <tr> <td>Project Complete</td> <td>May-2010</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	May-2006	Planning Complete	Dec-2006	Design Complete	Sep-2007	Project Complete	May-2010	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">90</td> </tr> <tr> <td>Design</td> <td style="text-align: right;">324</td> </tr> <tr> <td>Procurement</td> <td style="text-align: right;">1,800</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">786</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">3,000</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	90	Design	324	Procurement	1,800	Construction	786	Total \$	3,000
<u>Activity</u>	<u>Date *</u>																						
Project Approved	May-2006																						
Planning Complete	Dec-2006																						
Design Complete	Sep-2007																						
Project Complete	May-2010																						
<u>Activity</u>	<u>Cost (\$1,000) *</u>																						
Administration	90																						
Design	324																						
Procurement	1,800																						
Construction	786																						
Total \$	3,000																						
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".																							
Remarks: The isolation valves in the Stage II ROFC stations (total of 9 ROFCs) are 25 years old and need to be replaced since they no longer provide isolation. 23 valves in total with diameters ranging from 10 inch to 48 inch.																							
Primary Funding: Wholesale Delivery Charge																							

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Pumping Station 6 Forebay Relining	Project Number: 3400 <hr/> Project Status: Programmed																
Project Description: Replace the membrane lining in the forebay of Pumping Station 6.																	
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>May-2006</td> </tr> <tr> <td>Design Complete</td> <td>May-2007</td> </tr> <tr> <td>Construction Complete</td> <td>Nov-2007</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	May-2006	Design Complete	May-2007	Construction Complete	Nov-2007	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Design</td> <td style="text-align: right;">150</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">250</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">400</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Design	150	Construction	250	Total \$	400
<u>Activity</u>	<u>Date *</u>																
Project Approved	May-2006																
Design Complete	May-2007																
Construction Complete	Nov-2007																
<u>Activity</u>	<u>Cost (\$1,000) *</u>																
Design	150																
Construction	250																
Total \$	400																
<small>* Project Dates and Costs are projected unless indicated by an "A" for "Actual".</small>																	
Remarks: The existing lining in the forebay was installed when the forebay was first constructed in 1970 and is approaching the end of its service life. An opportunity to replace the lining will occur during a planned extended outage of the pumping station.																	
Primary Funding: Wholesale Delivery Charge																	

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Charleston Heights Lateral Repair and Valve Installation	Project Number: 340P Project Status: Programmed																		
Project Description: Install 48-inch valve(s), assess pipeline condition and repair up to 525 LF of deteriorated pipe.																			
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>May-2006</td> </tr> <tr> <td>Design Complete</td> <td>Jun-2008</td> </tr> <tr> <td>Construction Complete</td> <td>Mar-2009</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	May-2006	Design Complete	Jun-2008	Construction Complete	Mar-2009	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">114</td> </tr> <tr> <td>Design</td> <td style="text-align: right;">600</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">3,172</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">3,886</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	114	Design	600	Construction	3,172	Total \$	3,886
<u>Activity</u>	<u>Date *</u>																		
Project Approved	May-2006																		
Design Complete	Jun-2008																		
Construction Complete	Mar-2009																		
<u>Activity</u>	<u>Cost (\$1,000) *</u>																		
Administration	114																		
Design	600																		
Construction	3,172																		
Total \$	3,886																		
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".																			
Remarks: This project will restore pipe integrity on a damaged section of the Charleston Heights Lateral and allow isolation of the Charleston Heights from the Twin Lakes Lateral.																			
Primary Funding: Wholesale Delivery Charge																			

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Electric Power Transmission Facilities		Project Number: 360C	
		Project Status: Planning	
Project Description: Construct or purchase electric power transmission facilities to deliver electric power from generating resources and other power-purchase locations to water pumping and other identified loads.			
Project Schedule:		Project Cost:	
<u>Activity</u>	<u>Date *</u>	<u>Activity</u>	<u>Cost (\$1,000) *</u>
Project Approved	Jan-2002 A	Administration	100
Design Complete	Feb-2008	Planning	100
Construction Complete	Sep-2009	Environment	300
Project Complete	Dec-2009	ROW	500
		Permitting	100
		Design	5,000
		Construction Management	2,500
		Construction	36,200
		Total \$	44,800
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".			
Remarks: The project schedule and costs are very preliminary pending definition on whether the transmission capacity will be acquired by building new facilities or by purchasing capacity in existing facilities. An agreement in 2002 with Nevada Power Company for transmission service from the Silverhawk Project allowed the building of these transmission facilities to be deferred. Opportunities for reducing transmission costs through implementation of this project are being assessed periodically.			
Primary Funding: Wholesale Delivery Charge			

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Energy Supplier Conversion	Project Number: 360D Project Status: Procurement																		
Project Description: Implement the changes in metering and communications required at both SNWA and purveyor facilities to meet NPC standards for energy supply from CRC through NPC's electric distribution grid.																			
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Jun-2002 A</td> </tr> <tr> <td>SNWA Facilities</td> <td>Aug-2004 A</td> </tr> <tr> <td>Project Complete</td> <td>Jun-2006</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Jun-2002 A	SNWA Facilities	Aug-2004 A	Project Complete	Jun-2006	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">40</td> </tr> <tr> <td>Construction Management</td> <td style="text-align: right;">360</td> </tr> <tr> <td>Procurement</td> <td style="text-align: right;">1,000</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">1,400</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	40	Construction Management	360	Procurement	1,000	Total \$	1,400
<u>Activity</u>	<u>Date *</u>																		
Project Approved	Jun-2002 A																		
SNWA Facilities	Aug-2004 A																		
Project Complete	Jun-2006																		
<u>Activity</u>	<u>Cost (\$1,000) *</u>																		
Administration	40																		
Construction Management	360																		
Procurement	1,000																		
Total \$	1,400																		
<small>* Project Dates and Costs are projected unless indicated by an "A" for "Actual".</small>																			
Remarks:																			
Primary Funding: Wholesale Delivery Charge																			

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: ROFC Energy Recovery	Project Number: 360F Project Status: Design																												
Project Description: Retrofit three existing rate-of-flow control stations (ROFCS) with mini hydro turbines where pressure head (energy) is lost delivering water to purveyors. Mini hydro turbines potentially may recover about 2.7 MW of capacity and an initial annual energy output of 11,000 MWh. One candidate ROFCS is at Horizon Ridge Reservoir and two are at Sloan Pumping Station.																													
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Dec-2002 A</td> </tr> <tr> <td>Feasibility Studies Complete</td> <td>Jun-2003 A</td> </tr> <tr> <td>FERC Exemption Received</td> <td>Mar-2004 A</td> </tr> <tr> <td>Design Complete</td> <td>May-2006</td> </tr> <tr> <td>Construction Complete</td> <td>Feb-2007</td> </tr> <tr> <td>Project Complete</td> <td>Mar-2007</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Dec-2002 A	Feasibility Studies Complete	Jun-2003 A	FERC Exemption Received	Mar-2004 A	Design Complete	May-2006	Construction Complete	Feb-2007	Project Complete	Mar-2007	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">50</td> </tr> <tr> <td>Permitting</td> <td style="text-align: right;">40</td> </tr> <tr> <td>Design</td> <td style="text-align: right;">650</td> </tr> <tr> <td>Construction Management</td> <td style="text-align: right;">110</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">5,600</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">6,450</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	50	Permitting	40	Design	650	Construction Management	110	Construction	5,600	Total \$	6,450
<u>Activity</u>	<u>Date *</u>																												
Project Approved	Dec-2002 A																												
Feasibility Studies Complete	Jun-2003 A																												
FERC Exemption Received	Mar-2004 A																												
Design Complete	May-2006																												
Construction Complete	Feb-2007																												
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Permitting	40																												
Design	650																												
Construction Management	110																												
Construction	5,600																												
Total \$	6,450																												
<p><small>* Project Dates and Costs are projected unless indicated by an "A" for "Actual".</small></p>																													
Remarks: The project approach has evolved since first conceived as a result of preliminary engineering analysis. The current approach entails identifying the best available turbine equipment through a competitive bidding process, then proceeding with design of structural, mechanical, and electrical modification to the ROFCS based on the selected turbine. Project estimates have increased to include replacement of certain valves that have not been functioning properly.																													
Primary Funding: Wholesale Delivery Charge																													

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Intermountain Power Project Unit 3 - Predevelopment	Project Number: 360G Project Status: Planning												
Project Description: Participate with other project partners in predevelopment activities to define project scope and design criteria for the proposed 900 MW expansion of electrical generating capacity at the coal-fired Intermountain Power Project facility near Delta, Utah.													
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Jul-2003 A</td> </tr> <tr> <td>Project Complete</td> <td>Apr-2008</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Jul-2003 A	Project Complete	Apr-2008	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Planning</td> <td style="text-align: right;">2,800</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">2,800</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Planning	2,800	Total \$	2,800
<u>Activity</u>	<u>Date *</u>												
Project Approved	Jul-2003 A												
Project Complete	Apr-2008												
<u>Activity</u>	<u>Cost (\$1,000) *</u>												
Planning	2,800												
Total \$	2,800												
<p>* Project Dates and Costs are projected unless indicated by an "A" for "Actual".</p>													
Remarks: Predevelopment activities for the proposed power plant began in June 2005 upon completion of the feasibility study previously authorized under Project No. 360E.													
Primary Funding: Wholesale Delivery Charge													

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Pumping Station Electrical Transformer Repairs	Project Number: 360H <hr/> Project Status: Planning																						
Project Description: Recondition or replace substation transformers at existing pumping stations.																							
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Jul-2003 A</td> </tr> <tr> <td>Design Complete</td> <td>Apr-2007</td> </tr> <tr> <td>Project Complete</td> <td>Nov-2008</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Jul-2003 A	Design Complete	Apr-2007	Project Complete	Nov-2008	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">7</td> </tr> <tr> <td>Planning</td> <td style="text-align: right;">11</td> </tr> <tr> <td>Permitting</td> <td style="text-align: right;">7</td> </tr> <tr> <td>Design</td> <td style="text-align: right;">55</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">770</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">850</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	7	Planning	11	Permitting	7	Design	55	Construction	770	Total \$	850
<u>Activity</u>	<u>Date *</u>																						
Project Approved	Jul-2003 A																						
Design Complete	Apr-2007																						
Project Complete	Nov-2008																						
<u>Activity</u>	<u>Cost (\$1,000) *</u>																						
Administration	7																						
Planning	11																						
Permitting	7																						
Design	55																						
Construction	770																						
Total \$	850																						
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".																							
Remarks: Electrical substation transformers at some pumping stations have been in operation for more than 25 years. Results of maintenance testing will be used to assess transformer degradation and the need for repair or replacement. Preventative work will reduce the risk of unplanned disruption to the pumping stations. The project schedule will be adjusted periodically to match the need for preventative work. This project will be accomplished in cooperation with the Colorado River Commission of Nevada.																							
Primary Funding: Wholesale Delivery Charge																							

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Hacienda Pumping Station Electrical Substation Upgrades	Project Number: 3601 Project Status: Procurement																								
Project Description: Install a second 69kV transformer and new breakers and relays in the electrical substation.																									
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Dec-2004 A</td> </tr> <tr> <td>Design Complete</td> <td>May-2006</td> </tr> <tr> <td>Procurement Complete</td> <td>Nov-2006</td> </tr> <tr> <td>Construction Complete</td> <td>Jun-2007</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Dec-2004 A	Design Complete	May-2006	Procurement Complete	Nov-2006	Construction Complete	Jun-2007	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">10</td> </tr> <tr> <td>Planning</td> <td style="text-align: right;">10</td> </tr> <tr> <td>Design</td> <td style="text-align: right;">60</td> </tr> <tr> <td>Construction Management</td> <td style="text-align: right;">30</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">1,390</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">1,500</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	10	Planning	10	Design	60	Construction Management	30	Construction	1,390	Total \$	1,500
<u>Activity</u>	<u>Date *</u>																								
Project Approved	Dec-2004 A																								
Design Complete	May-2006																								
Procurement Complete	Nov-2006																								
Construction Complete	Jun-2007																								
<u>Activity</u>	<u>Cost (\$1,000) *</u>																								
Administration	10																								
Planning	10																								
Design	60																								
Construction Management	30																								
Construction	1,390																								
Total \$	1,500																								
<p><small>* Project Dates and Costs are projected unless indicated by an "A" for "Actual".</small></p>																									
Remarks: Hacienda is a critical pumping station that has been continuously in service for over 20 years. These upgrades will make the electrical system as reliable as other SNWA pumping stations. The Colorado River Commission will help implement this project.																									
Primary Funding: Regional Funding Plan																									

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Production Group Satellite Facility		Project Number: 370A	
		Project Status: Programmed	
Project Description: Construct a satellite maintenance facility in the Las Vegas Valley for the SNWS Production Group.			
Project Schedule:		Project Cost:	
<u>Activity</u>	<u>Date *</u>	<u>Activity</u>	<u>Cost (\$1,000) *</u>
Project Approved	Jun-2002 A	Administration	250
Planning Complete	Dec-2006	Design	330
Design Complete	Oct-2007	Construction	3,400
Construction Complete	Apr-2009		
Project Complete	Jul-2009		
		Total \$	3,980
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".			
Remarks: It was determined that the SNWS Production Satellite Facility should be located on the Valley View Boulevard site to optimize use of support functions already available at that site. The location of this building is being coordinated with the overall facility planning for the Valley View Boulevard site.			
Primary Funding: Wholesale Delivery Charge			

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Security System Upgrades	Project Number: 370B Project Status: Construction																				
Project Description: Install communications equipment and surveillance systems that are consistent with the vulnerability assessments performed by MANTEC and other related studies done on Authority facilities. Develop, install and test security software to protect the SCADA system at SNWS.																					
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Jun-2002 A</td> </tr> <tr> <td>Vulnerability Assessment Complete</td> <td>Sep-2003 A</td> </tr> <tr> <td>Construction Complete</td> <td>Jun-2006</td> </tr> <tr> <td>Project Complete</td> <td>Sep-2006</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Jun-2002 A	Vulnerability Assessment Complete	Sep-2003 A	Construction Complete	Jun-2006	Project Complete	Sep-2006	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">20</td> </tr> <tr> <td>Planning</td> <td style="text-align: right;">50</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">3,430</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">3,500</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	20	Planning	50	Construction	3,430	Total \$	3,500
<u>Activity</u>	<u>Date *</u>																				
Project Approved	Jun-2002 A																				
Vulnerability Assessment Complete	Sep-2003 A																				
Construction Complete	Jun-2006																				
Project Complete	Sep-2006																				
<u>Activity</u>	<u>Cost (\$1,000) *</u>																				
Administration	20																				
Planning	50																				
Construction	3,430																				
Total \$	3,500																				
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".																					
Remarks:																					
Primary Funding: Wholesale Delivery Charge																					

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: RMWTF Fleet Maintenance & Electrical Maintenance Facility	Project Number: 370C <hr/> Project Status: Programmed																														
Project Description: Construct a fleet maintenance and electrical maintenance facility at the River Mountains Water Treatment Facility.																															
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Jun-2002 A</td> </tr> <tr> <td>Planning Complete</td> <td>Aug-2007</td> </tr> <tr> <td>Design Complete</td> <td>Feb-2008</td> </tr> <tr> <td>Construction Complete</td> <td>Jun-2009</td> </tr> <tr> <td>Project Complete</td> <td>Aug-2009</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Jun-2002 A	Planning Complete	Aug-2007	Design Complete	Feb-2008	Construction Complete	Jun-2009	Project Complete	Aug-2009	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">50</td> </tr> <tr> <td>Planning</td> <td style="text-align: right;">25</td> </tr> <tr> <td>Environment</td> <td style="text-align: right;">8</td> </tr> <tr> <td>Permitting</td> <td style="text-align: right;">8</td> </tr> <tr> <td>Design</td> <td style="text-align: right;">350</td> </tr> <tr> <td>Construction Management</td> <td style="text-align: right;">200</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">1,500</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">2,141</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	50	Planning	25	Environment	8	Permitting	8	Design	350	Construction Management	200	Construction	1,500	Total \$	2,141
<u>Activity</u>	<u>Date *</u>																														
Project Approved	Jun-2002 A																														
Planning Complete	Aug-2007																														
Design Complete	Feb-2008																														
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<u>Activity</u>	<u>Cost (\$1,000) *</u>																														
Administration	50																														
Planning	25																														
Environment	8																														
Permitting	8																														
Design	350																														
Construction Management	200																														
Construction	1,500																														
Total \$	2,141																														
<small>* Project Dates and Costs are projected unless indicated by an "A" for "Actual".</small>																															
Remarks: The project scope was amended to include an electrical maintenance facility to support Colorado River Commission electrical system work on SNWA projects.																															
Primary Funding: Wholesale Delivery Charge																															

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Fiber-Optic Network Improvements	Project Number: 370D Project Status: Implementation																								
Project Description: Upgrade the 12-count fiber-optic cable between Twin Lakes and Carlton Square to 48-count cable, procure a fiber-optic connection between the regional commercial network and the Sloan Pumping Station, procure a fiber-optic connection to the new SNWA building, and procure the services of a professional telecommunication consultant to evaluate the existing fiber-optic network.																									
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Jan-2003 A</td> </tr> <tr> <td>Construction Complete</td> <td>Apr-2006 A</td> </tr> <tr> <td>Telecom. Network Eval. complete</td> <td>Aug-2006</td> </tr> <tr> <td>Project Complete</td> <td>Dec-2006</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Jan-2003 A	Construction Complete	Apr-2006 A	Telecom. Network Eval. complete	Aug-2006	Project Complete	Dec-2006	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">450</td> </tr> <tr> <td>Design</td> <td style="text-align: right;">140</td> </tr> <tr> <td>Construction Management</td> <td style="text-align: right;">70</td> </tr> <tr> <td>Procurement</td> <td style="text-align: right;">680</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">420</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">1,760</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	450	Design	140	Construction Management	70	Procurement	680	Construction	420	Total \$	1,760
<u>Activity</u>	<u>Date *</u>																								
Project Approved	Jan-2003 A																								
Construction Complete	Apr-2006 A																								
Telecom. Network Eval. complete	Aug-2006																								
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Administration	450																								
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Procurement	680																								
Construction	420																								
Total \$	1,760																								
<p><small>* Project Dates and Costs are projected unless indicated by an "A" for "Actual".</small></p>																									
Remarks: Ongoing assessment of communications requirements for security and operations purposes resulted in a change of scope for this project. The Las Vegas Valley Water District (LVVWD) and the Authority have developed and approved an interlocal agreement for LVVWD to reimburse the Authority for costs associated with this project that directly benefit the LVVWD.																									
Primary Funding: Wholesale Delivery Charge																									

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: AMSWTF Mechanic Maintenance Shop Addition	Project Number: 370E Project Status: Design																				
Project Description: Construct a new mechanic maintenance shop.																					
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Jul-2003 A</td> </tr> <tr> <td>Design Complete</td> <td>Jun-2006</td> </tr> <tr> <td>Construction Complete</td> <td>Sep-2007</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Jul-2003 A	Design Complete	Jun-2006	Construction Complete	Sep-2007	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">220</td> </tr> <tr> <td>Design</td> <td style="text-align: right;">880</td> </tr> <tr> <td>Construction Management</td> <td style="text-align: right;">320</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">8,000</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">9,420</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	220	Design	880	Construction Management	320	Construction	8,000	Total \$	9,420
<u>Activity</u>	<u>Date *</u>																				
Project Approved	Jul-2003 A																				
Design Complete	Jun-2006																				
Construction Complete	Sep-2007																				
<u>Activity</u>	<u>Cost (\$1,000) *</u>																				
Administration	220																				
Design	880																				
Construction Management	320																				
Construction	8,000																				
Total \$	9,420																				
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".																					
Remarks: A new shop is needed with additional overhead space to accommodate an overhead crane, equipment, delivery vehicles and space for administrative and training functions. The project scope and cost estimates have been amended as a result of requirements and circumstances identified during the design process.																					
Primary Funding: Wholesale Delivery Charge																					

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: AMSWTF Computer Room HVAC Replacement	Project Number: 370G <hr/> Project Status: Procurement																
Project Description: Replace HVAC system in the computer room at the Alfred Merritt Smith Water Treatment Facility.																	
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Jul-2003 A</td> </tr> <tr> <td>Planning Complete</td> <td>Jun-2004 A</td> </tr> <tr> <td>Procurement Complete</td> <td>Apr-2006</td> </tr> <tr> <td>Project Complete</td> <td>May-2006</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Jul-2003 A	Planning Complete	Jun-2004 A	Procurement Complete	Apr-2006	Project Complete	May-2006	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Procurement</td> <td style="text-align: right;">95</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">95</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Procurement	95	Total \$	95
<u>Activity</u>	<u>Date *</u>																
Project Approved	Jul-2003 A																
Planning Complete	Jun-2004 A																
Procurement Complete	Apr-2006																
Project Complete	May-2006																
<u>Activity</u>	<u>Cost (\$1,000) *</u>																
Procurement	95																
Total \$	95																
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".																	
Remarks:																	
Primary Funding: Wholesale Delivery Charge																	

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Evaporative Cooler Upgrades	Project Number: 3701 Project Status: Planning																		
Project Description: Replace the evaporative coolers at fourteen different pumping stations with more efficient evaporative coolers.																			
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Jul-2004 A</td> </tr> <tr> <td>Procurement Complete</td> <td>Jun-2007</td> </tr> <tr> <td>Construction Complete</td> <td>Jun-2008</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Jul-2004 A	Procurement Complete	Jun-2007	Construction Complete	Jun-2008	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">210</td> </tr> <tr> <td>Procurement</td> <td style="text-align: right;">420</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">2,100</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">2,730</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	210	Procurement	420	Construction	2,100	Total \$	2,730
<u>Activity</u>	<u>Date *</u>																		
Project Approved	Jul-2004 A																		
Procurement Complete	Jun-2007																		
Construction Complete	Jun-2008																		
<u>Activity</u>	<u>Cost (\$1,000) *</u>																		
Administration	210																		
Procurement	420																		
Construction	2,100																		
Total \$	2,730																		
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".																			
Remarks: The replacement of the coolers at all 14 sites will result in a savings of over 650 acre feet of water per year.																			
Primary Funding: Wholesale Delivery Charge																			

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: SNWA Office Tenant Improvements	Project Number: 370J
	Project Status: Design

Project Description:

Construct improvements necessary for SNWA occupancy of leased office space in a new building planned to be finished and available in July 2007.

Project Schedule:

<u>Activity</u>	<u>Date *</u>
Project Approved	Sep-2005 A
Planning Complete	Dec-2005 A
Design Complete	Sep-2006
Construction Complete	Jul-2007
Project Complete	Oct-2007

Project Cost:

<u>Activity</u>	<u>Cost (\$1,000) *</u>
Administration	150
Permitting	75
Design	700
Construction	22,500
Furniture, Fixtures and Equipment	3,600
Total \$	27,025

* Project Dates and Costs are projected unless indicated by an "A" for "Actual".

Remarks:

On December 16, 2004, the Board approved a lease agreement with Parkway Center, LLC to lease office space for SNWA staff and functions. As is common in such lease agreements, SNWA is responsible for tenant improvements such as work space configuration, interior plumbing and electrical, floor coverings, finishes and furnishings. The revised cost includes two additional floors that will be partially sub-leased to LVVWD for a temporary term and the substantial increase in building trade related construction costs in the Las Vegas valley.

Primary Funding:

Regional Funding Plan

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: AMSWTF Warehouse Storage System Improvements	Project Number: 370K <hr/> Project Status: Planning																						
Project Description: Purchase new and modify existing storage shelves in the AMSWTF warehouse. Purchase and install required office furniture.																							
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Sep-2005 A</td> </tr> <tr> <td>Planning Complete</td> <td>Apr-2006 A</td> </tr> <tr> <td>Procurement Complete</td> <td>Jun-2006</td> </tr> <tr> <td>Construction Complete</td> <td>Aug-2006</td> </tr> <tr> <td>Project Complete</td> <td>Sep-2006</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Sep-2005 A	Planning Complete	Apr-2006 A	Procurement Complete	Jun-2006	Construction Complete	Aug-2006	Project Complete	Sep-2006	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">5</td> </tr> <tr> <td>Procurement</td> <td style="text-align: right;">120</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">125</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">250</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	5	Procurement	120	Construction	125	Total \$	250
<u>Activity</u>	<u>Date *</u>																						
Project Approved	Sep-2005 A																						
Planning Complete	Apr-2006 A																						
Procurement Complete	Jun-2006																						
Construction Complete	Aug-2006																						
Project Complete	Sep-2006																						
<u>Activity</u>	<u>Cost (\$1,000) *</u>																						
Administration	5																						
Procurement	120																						
Construction	125																						
Total \$	250																						
<p>* Project Dates and Costs are projected unless indicated by an "A" for "Actual".</p>																							
Remarks: Construction of the additional warehouse space was accomplished in project 080F. No provision was made in that contract for shelving and office furniture needed for operation.																							
Primary Funding: Wholesale Delivery Charge																							

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: SCADA Communications Upgrades	Project Number: 370L <hr/> Project Status: Programmed												
Project Description: Upgrade failsafe interlocks at 27 facilities and provide redundant timers on the fiber optic communications system.													
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>May-2006</td> </tr> <tr> <td>Project Complete</td> <td>Dec-2007</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	May-2006	Project Complete	Dec-2007	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Construction</td> <td style="text-align: right;">250</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">250</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Construction	250	Total \$	250
<u>Activity</u>	<u>Date *</u>												
Project Approved	May-2006												
Project Complete	Dec-2007												
<u>Activity</u>	<u>Cost (\$1,000) *</u>												
Construction	250												
Total \$	250												
<small>* Project Dates and Costs are projected unless indicated by an "A" for "Actual".</small>													
Remarks: This project will continue the deployment and upgrade of the failsafe interlock system and replace old telemetry equipment that is no longer available or supported by the manufacturer.													
Primary Funding: Wholesale Delivery Charge													

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SECTION 4

CANDIDATE PROJECTS

Candidate Projects

The following projects are candidates for potential future approval. These candidate projects are conceptual, with uncertain schedule and cost projections that are subject to change. As more definitive information about the possible scope and benefit of these projects becomes available, they may become active projects in future amendments of the MCCP or they may be dropped from further consideration.

Candidate Project	Possible Completion Date	Order-of-Magnitude Cost Estimate (\$1,000)
<p>SNWA Office Building</p> <p>Construct or purchase an office building dedicated to SNWA functions, including Board meeting room and offices; administrative, engineering, and water conservation offices; CRC offices; and conference rooms.</p>	2007	\$20,000
<p>Renewable Energy Project(s)</p> <p>Construct or purchase power from power generating plants using renewable energy such as mini-hydro-turbines on SNWS turnouts or the Las Vegas Wash, methane from wastewater treatment plants, wind, geothermal, or solar radiation.</p>	2008	\$30,000
<p>Electric Power Generation Facilities – Intermountain Power Project Unit 3</p> <p>Ownership of a portion of Unit 3 of a coal-fired power plant proposed for construction at the Intermountain Power Project facilities near Delta, Utah.</p>	2012	\$200,000

SECTION 5

COMPLETED PROJECTS SUMMARY

COMPLETED PROJECTS SUMMARY

<u>Project No.</u>	<u>Project Title</u>	<u>Year Completed</u>	<u>Cost (\$1,000)</u>
090A	Water Resource (Coyote Spring Valley)	2000	30,299
100D	SNWS Power System Upgrades — Equipment Prepurchase	2003	6,127
100E	SNWS Power System Upgrades — Equipment Installation	2003	16,239
100F	CRC Power System Upgrades	2003	4,832
100G	SNWS Power System Upgrades — Material Prepurchase	2003	1,041
100T	SNWS Power System Upgrades — Remote Terminal Units	2003	521
320C	Disinfection By-Products Control Strategy	2004	181
320D	AMSWTF Filter Media and Underdrain Improvements Study	2004	194
320G	Lake Mead Intake No. 1 Modifications	2004	7,095
320H	Pumping Plant 6 Rechlorination Station	2004	100
340F*	Transmission Pipelines Cathodic Corrosion Protection System Repairs	2005	1,116
360A	Equity Purchase of Electric Power Generation Facilities – Silverhawk Project	2004	115,100
360B	Equity Purchase of Electric Power Generation Facilities	2003	53,000
360E	Feasibility Study of Intermountain Project Unit 3	2005	525
370F	AMSWTF Utility Building Chiller Replacement	2005	85
370H*	Flame Detection Equipment for High Pressure Hydraulic System	2006	204
		TOTAL	236,659

*** Project definition sheets for recently completed projects are appended to this section.**

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Transmission Pipelines Cathodic Corrosion Protection System Repairs	Project Number: 340F Project Status: Complete																				
Project Description: Repair and upgrade the overall cathodic corrosion protection system for the Pittman and South Valley transmission pipelines.																					
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Jul-2003 A</td> </tr> <tr> <td>Design Complete</td> <td>Jan-2004 A</td> </tr> <tr> <td>Construction Complete</td> <td>Nov-2005 A</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Jul-2003 A	Design Complete	Jan-2004 A	Construction Complete	Nov-2005 A	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">4 A</td> </tr> <tr> <td>Design</td> <td style="text-align: right;">127</td> </tr> <tr> <td>Construction Management</td> <td style="text-align: right;">52 A</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">933 A</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">1,116</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	4 A	Design	127	Construction Management	52 A	Construction	933 A	Total \$	1,116
<u>Activity</u>	<u>Date *</u>																				
Project Approved	Jul-2003 A																				
Design Complete	Jan-2004 A																				
Construction Complete	Nov-2005 A																				
<u>Activity</u>	<u>Cost (\$1,000) *</u>																				
Administration	4 A																				
Design	127																				
Construction Management	52 A																				
Construction	933 A																				
Total \$	1,116																				
<small>* Project Dates and Costs are projected unless indicated by an "A" for "Actual".</small>																					
Remarks: These repairs and upgrades were recommended in a study completed in 2002.																					
Primary Funding: Wholesale Delivery Charge																					

**Southern Nevada Water Authority
MAJOR CONSTRUCTION AND CAPITAL PLAN**

Project Title: Flame Detection Equipment for High Pressure Hydraulic Systems	Project Number: 370H Project Status: Complete																		
Project Description: Install ultraviolet flame detectors for valve actuators in five pumping stations equipped with high pressure hydraulic systems.																			
Project Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: left;"><u>Date *</u></th> </tr> </thead> <tbody> <tr> <td>Project Approved</td> <td>Jul-2003 A</td> </tr> <tr> <td>Design Complete</td> <td>Sep-2004 A</td> </tr> <tr> <td>Construction Complete</td> <td>Dec-2005 A</td> </tr> <tr> <td>Project Complete</td> <td>Mar-2006 A</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Date *</u>	Project Approved	Jul-2003 A	Design Complete	Sep-2004 A	Construction Complete	Dec-2005 A	Project Complete	Mar-2006 A	Project Cost: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Activity</u></th> <th style="text-align: right;"><u>Cost (\$1,000) *</u></th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td style="text-align: right;">4 A</td> </tr> <tr> <td>Construction</td> <td style="text-align: right;">200 A</td> </tr> <tr> <td style="text-align: right;">Total \$</td> <td style="text-align: right;">204</td> </tr> </tbody> </table>	<u>Activity</u>	<u>Cost (\$1,000) *</u>	Administration	4 A	Construction	200 A	Total \$	204
<u>Activity</u>	<u>Date *</u>																		
Project Approved	Jul-2003 A																		
Design Complete	Sep-2004 A																		
Construction Complete	Dec-2005 A																		
Project Complete	Mar-2006 A																		
<u>Activity</u>	<u>Cost (\$1,000) *</u>																		
Administration	4 A																		
Construction	200 A																		
Total \$	204																		
* Project Dates and Costs are projected unless indicated by an "A" for "Actual".																			
Remarks:																			
Primary Funding: Wholesale Delivery Charge																			

SECTION 6

APPENDICES

APPENDIX A

Abbreviations

AMSWTF	Alfred Merritt Smith Water Treatment Facility
CIP	Capital Improvements Plan for 900 mgd Capacity
CRC	Colorado River Commission
ESDC	Engineering Services During Construction
gpm	gallons per minute
LF	linear feet
MCCP	Major Construction and Capital Plan
MG	million gallons
mgd	million gallons per day
MVWD	Moapa Valley Water District
MW	megawatts
NPC	Nevada Power Company
NTP	Notice to Proceed
PP	Pumping Plant
PS	Pumping Station
RMWTF	River Mountains Water Treatment Facility
ROFC	Rate of Flow Control Station
SNWA	Southern Nevada Water Authority
SNWS	Southern Nevada Water System

Notes

Projects are grouped into general categories and assigned project numbers based on those categories. The project categories and project numbering scheme is as follows.

<u>Number</u>	<u>Category</u>
090	Water Resources
100	Power Projects transferred from CIP
300 through 309	General Projects
310 through 319	Water Supply Projects
320 through 339	Water Treatment Projects
340 through 359	Water Transmission Projects
360 through 369	Power Projects
370 through 379	Support Facility Projects

In addition to the three-digit category number, project numbers also have distinguishing alpha character designations. For example, a water supply project might have a unique project number of 315D.

APPENDIX B

**MAJOR CONSTRUCTION AND CAPITAL PLAN
ACTUAL AND PROJECTED CASH FLOW FOR ACTIVE PROJECTS
AS OF MAY 18, 2006
(in \$1000)**

	Prior Years	2006	2007	2008	2009	Out Years	TOTAL
090B Water Resources (Muddy River)	21,489	1,150	1,150	1,150	1,150	2,316	28,405
090E Arizona Groundwater Banking	110,200	-	-	-	23,000	206,800	340,000
090F Water Resource Acquisition and Development	23,988	8,300	8,300	8,300	8,300	6,812	64,000
090G Clark, Lincoln and White Pine Counties Groundwater Development	24,006	2,060	19,371	18,124	2,439	-	66,000
300A PS6 - Valley View Regulating Tank Security and Offsite Improvements	11	489	360	-	-	-	860
300B Radio Communication System Upgrades	-	615	-	-	-	-	615
300C Overhead Crane Upgrades	-	-	178	172	-	-	350
300D Roofing Replacements	-	586	219	-	-	-	805
300E SCADA System Replacement	-	1,000	1,000	-	-	-	2,000
300G RMWTF Operators Video Display Upgrade	-	240	-	-	-	-	240
300H Stage I and II Facilities PLC upgrade	-	650	2,500	1,500	-	-	4,650
300I AMSWTF Asbestos Removal	-	-	200	-	-	-	200
310B Three Lakes Valley Groundwater Development	2,068	4,000	17,000	55,302	18,000	-	96,370
310C IPS-1 Pump and Motor Replacements	2,233	18,367	5,500	-	-	-	26,100
310D EBROFC Valve Replacements	8	600	827	-	-	-	1,435
310E North I-15 Treatment and Transmission Facilities Planning	-	7,000	22,000	17,000	-	-	46,000
320A RMWTF Water Quality Laboratory and Pilot Plant	16,387	21,934	9,000	-	-	-	47,321
320B Remodel Former AMSWTF Laboratory Spaces	-	80	220	1,284	-	-	1,584
320E AMSWTF Cathodic Corrosion Protection System Repairs and Upgrades	142	200	258	-	-	-	600
320F AMSWTF Filtration System Valve Repairs	-	1,250	250	-	-	-	1,500
320I AMSWTF Pilot Plant	-	-	450	550	4,370	4,800	10,170
320J Chloramine Disinfection Study	-	-	-	500	-	-	500
320K Surface Water Treatment Pilot Studies	-	971	729	-	-	-	1,700
320L AMSWTF Electrical Disconnect Switch Replacements	-	160	105	-	-	-	265
320M Spare Filter Backwash Control Valve	-	150	-	-	-	-	150
320N AMSWTF A and B Clearwells Slide Gate Actuators	-	1,200	-	-	-	-	1,200
320O AMSWTF Filter Improvements Demonstration	-	100	400	300	-	-	800
320P AMSWTF Chlorine Building I Rehabilitation	-	-	-	500	250	-	750
320Q AMSWTF Process Drainage Improvements	-	50	200	920	-	-	1,170
340A Coyote Spring Valley Well and Moapa Transmission System	2,277	500	22,000	23,486	2,600	2,600	53,463
340B PS 1A, 2A, 1B and 2B Pump Repairs and Flow Meter Installation	327	-	1,186	1,187	-	-	2,700
340C Hacienda Pumping Station Improvements	318	3,727	813	682	-	-	5,540
340D PS 1C, 2C, Sloan, Lamb, BPS1A, and BPS2 VFD Enhancements	-	250	700	1,500	250	-	2,700
340E Sleeve Valve Installation at Galleria, Simmons and Carlton ROFC Stations	-	300	300	-	-	-	600
340F* Transmission Pipelines Cathodic Corrosion Protection System Repairs	1,116	-	-	-	-	-	1,116
340G Transmission Pipelines Discharge Modifications Study	40	360	-	-	-	-	400
340H Pumping Plant No. 7 Upgrades	1	-	809	-	-	-	810
340I McCullough Lateral Planning	-	5,000	16,000	24,500	-	-	45,500
340J Ductile Iron Pump Inspection and Evaluation	-	100	500	182	-	-	782
340K Reservoir Vent Modifications	-	400	655	-	-	-	1,055
340L Hemenway ROFC Improvements	-	500	1,000	-	-	-	1,500
340M Air Vacuum and Relief Valve Piping Adjustments	-	180	658	-	-	-	838
340N Stage II ROFC Isolation Valve Replacements	-	100	500	1,000	1,100	300	3,000
340O Pumping Station 6 Forebay Relining	-	200	200	-	-	-	400
340P Charleston Heights Lateral Repair and Valve Installation	-	20	500	2,600	766	-	3,886
360C Electric Power Transmission Facilities	-	-	3,000	3,000	3,000	35,800	44,800
360D Energy Supplier Conversion	70	800	530	-	-	-	1,400
360F ROFC Energy Recovery	324	2,576	3,550	-	-	-	6,450
360G Intermountain Power Project Unit 3 - Predevelopment	288	1,497	1,015	-	-	-	2,800
360H Pumping Station Electrical Transformer Repairs	-	-	-	-	150	700	850
360I Hacienda Pumping Station Electrical Substation Upgrades	29	1,000	471	-	-	-	1,500
370A Production Group Satellite Facility	-	200	330	3,000	450	-	3,980
370B Security System Upgrades	1,381	1,800	319	-	-	-	3,500
370C RMWTF Fleet Maintenance & Electrical Maintenance Facility	-	-	141	1,300	700	-	2,141
370D Fiber-Optic Network Improvements	477	1,220	63	-	-	-	1,760
370E AMSWTF Mechanic Maintenance Shop Addition	23	-	2,397	7000	-	-	9,420
370G AMSWTF Computer Room HVAC Replacement	-	95	-	-	-	-	95
370H* Flame Detection Equipment for High Pressure Hydraulic Systems	204	-	-	-	-	-	204
370I Evaporative Cooler Upgrades	-	-	-	1000	1000	730	2,730
370J SNWA Office Tenant Improvements	98	3,525	23,402	-	-	-	27,025
370K AMSWTF Warehouse Storage System Improvements	-	120	130	-	-	-	250
370L SCADA Communications Upgrades	-	-	250	-	-	-	250
Total	\$207,505	\$95,622	\$171,636	\$176,039	\$67,525	\$260,858	\$979,185

**APPENDIX C
VARIANCE REPORT**

Comparative costs and changes for active and recently completed projects since last MCCP Amendment in thousand dollars.

		Sep. 2005 MCCP	Actual Costs thru Dec. 2005	Outstanding Committed Costs	Adjustment to Active Projects	Projects Added this Amendment
WATER RESOURCES						
090B	Water Resources (Muddy River)	28,405	21,489	-	-	-
090E	Arizona Groundwater Banking	340,000	110,200	230,000	-	-
090F	Water Resource Acquisition and Development	64,000	23,988	8,347	-	-
090G	Clark, Lincoln and White Pine Counties Groundwater Development	-	24,006	10,035	-	66,000
	Subtotal	432,405	179,683	248,382	-	66,000
GENERAL						
300A	PS6 - Valley View Regulating Tank Security and Offsite Improvements	350	11	-	510	-
300B	Radio Communication System Upgrades	615	-	615	-	-
300C	Overhead Crane Upgrades	350	-	-	-	-
300D	Roofing Replacements	180	-	-	625	-
300E	SCADA System Replacement	-	-	-	-	2,000
300G	RMWTF Operators Video Display Upgrade	-	-	-	-	240
300H	Stage I and II Facilities PLC upgrade	-	-	-	-	4,650
300I	AMSWTF Asbestos Removal	-	-	-	-	200
	Subtotal	1,495	11	615	1,135	7,090
WATER SUPPLY PROJECTS						
310B	Three Lakes Valley Groundwater Development	69,500	2,068	593	26,870	-
310C	IPS-1 Pump and Motor Replacements	26,100	2,233	22,723	-	-
310D	EBROFC Valve Replacements	1,231	8	1,427	204	-
310E	North I-15 Treatment and Transmission Facilities Planning	-	-	-	-	46,000
	Subtotal	96,831	4,309	24,743	27,074	46,000
WATER TREATMENT PROJECTS						
320A	RMWTF Water Quality Laboratory and Pilot Plant	41,321	16,387	20298	6,000	-
320B	Remodel Former AMSWTF Laboratory Spaces	1,584	-	-	-	-
320E	AMSWTF Cathodic Corrosion Protection System Repairs and Upgrades	400	142	-	200	-
320F	AMSWTF Filtration System Valve Repairs	1,500	-	750	-	-
320I	AMSWTF Pilot Plant	10,170	-	-	-	-
320J	Chloramine Disinfection Study	500	-	-	-	-
320K	Surface Water Treatment Pilot Studies	1,500	-	1,029	200	-
320L	AMSWTF Electrical Disconnect Switch Replacements	265	-	-	-	-
320M	Spare Filter Backwash Control Valve	150	-	-	-	-
320N	AMSWTF A and B Clearwells Slide Gate Actuators	480	-	-	720	-
320O	AMSWTF Filter Improvements Demonstration	-	-	-	-	800
320P	AMSWTF Chlorine Building 1 Rehabilitation	-	-	-	-	750
320Q	AMSWTF Process Drainage Improvements	-	-	-	-	1,170
	Subtotal	57,870	16,529	22,077	7,120	2,720
WATER TRANSMISSION PROJECTS						
340A	Coyote Spring Valley Well and Moapa Transmission System	31,484	2,277	480	21,979	-
40B	PS 1A, 2A, 1B and 2B Pump Repairs and Flow Meter Installation	2,700	327	29	-	-
40C	Hacienda Pumping Station Improvements	4,850	318	516	690	-
340D	PS 1C, 2C, Sloan, Lamb, BPS1A, and BPS2 VFD Enhancements	2,700	-	-	-	-
340E	Sleeve Valve Installation at Galleria, Simmons and Carlton ROFC Stations	600	-	-	-	-
340F*	Transmission Pipelines Cathodic Corrosion Protection System Repairs	1,151	1,116	-	(35)	-
340G	Transmission Pipelines Discharge Modifications Study	500	40	9	(100)	-
340H	Pumping Plant No. 7 Upgrades	810	1	-	-	-
340I	McCullough Lateral Planning	-	-	-	-	45,500
340J	Ductile Iron Pump Inspection and Evaluation	-	-	-	-	782
340K	Reservoir Vent Modifications	-	-	-	-	1,055
340L	Hemenway ROFC Improvements	-	-	-	-	1,500
340M	Air Vacuum and Relief Valve Piping Adjustments	-	-	-	-	838
340N	Stage II ROFC Isolation Valve Replacements	-	-	-	-	3,000
340O	Pumping Station 6 Forebay Relining	-	-	-	-	400
340P	Charleston Heights Lateral Repair and Valve Installation	-	-	-	-	3,886
	Subtotal	44,795	4,079	1,034	22,534	56,961
POWER PROJECTS						
360C	Electric Power Transmission Facilities	44,800	-	-	-	-
360D	Energy Supplier Conversion	1,400	70	-	-	-
360F	ROFC Energy Recovery	6,450	324	588	-	-
360G	Intermountain Power Project Unit 3 - Predevelopment	2,800	288	1,733	-	-
360H	Pumping Station Electrical Transformer Repairs	850	-	-	-	-
360I	Hacienda Pumping Station Electrical Substation Upgrades	1,500	29	-	-	-
	Subtotal	57,800	711	2,321	-	-
SUPPORT FACILITY PROJECTS						
370A	Production Group Satellite Facility	3,980	-	63	-	-
370B	Security System Upgrades	3,500	1,381	2,970	-	-
370C	RMWTF Fleet Maintenance & Electrical Maintenance Facility	1,067	-	-	1,074	-
370D	Fiber-Optic Network Improvements	1,440	477	520	320	-
370E	AMSWTF Mechanic Maintenance Shop Addition	5,800	23	59	3,620	-
370G	AMSWTF Computer Room HVAC Replacement	95	-	-	-	-
370H*	Flame Detection Equipment for High Pressure Hydraulic Systems	250	204	-	(46)	-
370I	Evaporative Cooler Upgrades	2,730	-	-	-	-
370J	SNWA Office Tenant Improvements	12,025	98	603	15,000	-
370K	AMSWTF Warehouse Storage System Improvements	250	-	-	-	-
370L	SCADA Communications Upgrades	-	-	-	-	250
	Subtotal	31,137	2,183	4,215	19,968	250
	Subtotal other commitments not appropriated to a specific project	-	-	7,659	-	-
	Totals	722,333	207,505	311,046	** 77,831	179,021

* Recently completed projects

** Commitments do not include SNWA administrative costs, land acquisition, legal and miscellaneous purchase order costs not specifically budgeted to a project