

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 03-04-001

Title/Description: Highland Ditch Improvements – Armoring
Category: Supply Improvements-Dams-Flumes-Ditches
Ranking: Essential
Fiscal Year: 2004-2008

Impact:

Annual cost to concrete line approximately 3,000' of the Highland Ditch. The concrete lining improves water flow rates and volume to the Chalk Bluff Treatment Plant by minimizing losses through infiltration. The current year budget anticipates armoring and rebuilding the ditch on the east corner of Mogul.

Cost/Funding

Funding Source: Customer water rates

Cost:

Project Cost: \$5,500,000

Funding Decision:

| | | |
|------------------|--------------|-------------|
| Funding FY 03/04 | Project Cost | \$1,100,000 |
| Funding FY 04/05 | Project Cost | \$1,100,000 |
| Funding FY 05/06 | Project Cost | \$1,100,000 |
| Funding FY 06/07 | Project Cost | \$1,100,000 |
| Funding FY 07/08 | Project Cost | \$1,100,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-04-002**

Title/Description: Independence Lake General Improvements
Category: Supply Improvements-Dams-Flumes-Ditches
Ranking: Deferrable
Fiscal Year: 2004-2008

Impact:

Contingency is provided annually for minor reconstruction efforts at the dam gates.

Cost/Funding

Funding Source: Customer water rates

| | | | |
|-------------------------|--------------------------|--------------|----------|
| Cost: | Funding Decision: | | |
| Project Cost: \$125,000 | Funding FY 03/04 | Project Cost | \$25,000 |
| | Funding FY 04-05 | Project Cost | \$25,000 |
| | Funding FY 05-06 | Project Cost | \$25,000 |
| | Funding FY 06-07 | Project Cost | \$25,000 |
| | Funding FY 07-08 | Project Cost | \$25,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 03-04-003

Title/Description: Donner Dam Upgrade
Category: Supply Improvements-Dams-Flumes-Ditches
Ranking: Required 03-04; Deferrable 04-08
Fiscal Year: 2004-2008

Impact:

Upon approval by the California Department of Dams, improvements would be added to the Donner Dam to improve strength. This effort would reduce the risk of dam collapse in a period of overflows.

Cost/Funding

Funding Source: Customer water rates

| | |
|-------------------------|---|
| Cost: | Funding Decision: |
| Project Cost: \$320,000 | Funding FY 03/04 Project Cost \$200,000 |
| | Funding FY 04/05 Project Cost \$30,000 |
| | Funding FY 05/06 Project Cost \$30,000 |
| | Funding FY 06/07 Project Cost \$30,000 |
| | Funding FY 07/08 Project Cost \$30,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-04-004**

Title/Description: Highland Flume Reconstruction
Category: Supply Improvements-Dams-Flumes-Ditches
Ranking: Essential 03-04;Contingency 04-08
Fiscal Year: 2004-2008

Impact:

The flumes within the Highland Ditch System are an integral part of conveying water to the Chalk Bluff Treatment Plant. Expenditure authority is available each year to maintain and rebuild flumes. Planned expenditure for FY 03-04 is to replace the steel flume on the west side of Mogul and rebuild concrete entrances to the flume.

Cost/Funding

Funding Source: Customer water rates

| | |
|-------------------------|---|
| Cost: | Funding Decision: |
| Project Cost: \$300,000 | Funding FY 03/04 Project Cost \$100,000 |
| | Funding FY 04/05 Project Cost \$50,000 |
| | Funding FY 05/06 Project Cost \$50,000 |
| | Funding FY 06/07 Project Cost \$50,000 |
| | Funding FY 07/08 Project Cost \$50,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-04-005**

Title/Description: Ditch Watershed Monitoring Improvement
Category: Supply Improvements-Dams-Flumes-Ditches
Ranking: Required
Fiscal Year: 2004-2008

Impact:

Flow and water quality monitoring are required to alert Treatment Operations of upstream conditions.

Cost/Funding

Funding Source: Customer water rates

| Cost: | Funding Decision: |
|-------------------------|--|
| Project Cost: \$250,000 | Funding FY 03/04 Project Cost \$50,000 |
| | Funding FY 04/05 Project Cost \$50,000 |
| | Funding FY 05/06 Project Cost \$50,000 |
| | Funding FY 06/07 Project Cost \$50,000 |
| | Funding FY 07/08 Project Cost \$50,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 03-04-006

Title/Description: Hunter Creek Reservoir Cover and Liner
Category: Supply Improvements-Dams-Flumes-Ditches
Ranking: Essential 03-04; Deferrable 04-08
Fiscal Year: 2004-2008

Impact:

The Hunter Creek Reservoir cover and liner are scheduled for replacement. The reservoir cover experienced material failure long before the expiration of the cover's life. Replacement of the reservoir cover is essential for stable operations. Contingency is not provided for alternate reservoir construction if the Health Department denies the variance to reconstruct with the liner/floating-cover option.

Cost/Funding

Funding Source: Customer Water Rates

Cost:

Project Cost: \$2,200,000

Funding Decision:

Funding FY 03/04 Project Cost \$2,000,000

Funding FY 04/05 Project Cost \$50,000

Funding FY 05/06 Project Cost \$50,000

Funding FY 06/07 Project Cost \$50,000

Funding FY 07/08 Project Cost \$50,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 03-04-007

Title/Description: Washoe County School District (WCSD) Non-potable Water Supply Projects
Category: Supply Improvements-Dams-Flumes-Ditches
Ranking: Required
Fiscal Year: 2004-2006

Impact:

Non-potable irrigation projects have begun on Washoe County School District properties to reduce potable irrigation on large turf areas. This solution benefits TMWA by reducing peak demand on TMWA potable water infrastructure while reducing irrigation expenses for the WCSD.

Cost/Funding

Funding Source: Customer water rates

Cost:

Project Cost: \$450,000

Funding Decision:

Funding FY 03/04 Project Cost \$150,000

Funding FY 04/05 Project Cost \$150,000

Funding FY 05/06 Project Cost \$150,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-04-008**

Title/Description: Highland Reservoir General Improvements
Category: Supply Improvements-Dams-Flumes-Ditches
Ranking: Required; Deferrable 04-08
Fiscal Year: 2004-2008

Impact:

The Highland Reservoir was rebuilt to comply with the Safe Water Drinking Act in the late 1990's. Annual provisions are granted for replacement and betterments. Spending on this reservoir would be on an as needed basis.

Cost/Funding

Funding Source: Customer water rates

| | |
|-------------------------|--|
| Cost: | Funding Decision: |
| Project Cost: \$250,000 | Funding FY 03/04 Project Cost \$50,000 |
| | Funding FY 04/05 Project Cost \$50,000 |
| | Funding FY 05/06 Project Cost \$50,000 |
| | Funding FY 06/07 Project Cost \$50,000 |
| | Funding FY 07/08 Project Cost \$50,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-04-009**

Title/Description: Well Development Program
Category: Supply Improvements-Well Development
Ranking: Essential
Fiscal Year: 2004-2008

Impact:

To provide reliable water services to the Truckee Meadows and outlying areas. Well development is recognized as an essential for future growth as well as a backup water supply to the surface water supply. Specific projects will be identified after test drilling identifies sufficient productivity and quality of groundwater resources.

Cost/Funding

Funding Source: Customer water rates – (potentially system development charges/New development)

| | |
|---|---|
| Cost: Project Cost: \$8,000,000 | Funding Decision: Funding FY 03/04 Project Cost \$2,000,000 Funding FY 04/05 Project Cost \$1,500,000 Funding FY 05/06 Project Cost \$1,500,000 Funding FY 06/07 Project Cost \$1,500,000 Funding FY 07/08 Project Cost \$1,500,000 |
|---|---|

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-04-010**

Title/Description: Well Rehabilitation & Improvements
Category: Supply Improvements-Well Development
Ranking: Required
Fiscal Year: 2004-2008

Impact:

Funding is available to rehabilitate TMWA production wells as required. Activities included but not limited to, pump replacements, electrical upgrades, telemetry upgrades, well casing cleaning, and other productivity enhancements.

Cost/Funding

Funding Source: Customer water rates

| Cost: | Funding Decision: |
|---------------------------|---|
| Project Cost: \$1,250,000 | Funding FY 03/04 Project Cost \$250,000 |
| | Funding FY 04/05 Project Cost \$250,000 |
| | Funding FY 05/06 Project Cost \$250,000 |
| | Funding FY 06/07 Project Cost \$250,000 |
| | Funding FY 07/08 Project Cost \$250,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-04-011**

Title/Description: Construction Well Sites & Pumps
Category: Supply Improvements-Well Development
Ranking: Required
Fiscal Year: 2004-2008

Impact:

TMWA currently operates three construction water supply sites. Additional sites would reduce travel time to limited sites to obtain non-potable construction water. A general provision is made each year for additional construction well sites.

Cost/Funding

Funding Source: Construction water revenues

| Cost: | Funding Decision: |
|-------------------------|---|
| Project Cost: \$350,000 | Funding FY 03/04 Project Cost \$150,000 |
| | Funding FY 04/05 Project Cost \$50,000 |
| | Funding FY 05/06 Project Cost \$50,000 |
| | Funding FY 06/07 Project Cost \$50,000 |
| | Funding FY 07/08 Project Cost \$50,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-04-012**

Title/Description: Chalk Bluff General Improvements
Category: Treatment-Improvements
Ranking: Required
Fiscal Year: 2003-2008

Impact:

A general provision is provided in each fiscal year's budget for minor replacements and betterments to the Chalk Bluff Treatment Plant. This provision would cover security, safety and minor improvements.

Cost/Funding

Funding Source: Customer water rates

| Cost: | Funding Decision: |
|---------------------------|---|
| Project Cost: \$1,000,000 | Funding FY 03/04 Project Cost \$200,000 |
| | Funding FY 04/05 Project Cost \$200,000 |
| | Funding FY 05/06 Project Cost \$200,000 |
| | Funding FY 06/07 Project Cost \$200,000 |
| | Funding FY 07/08 Project Cost \$200,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-04-013**

Title/Description: Glendale Plant General Improvements
Category: Treatment-Improvements
Ranking: Required
Fiscal Year: 2004-2008

Impact:

A general provision is provided in each fiscal year's budget for minor replacements and/or betterments to the Glendale Treatment Plant. This provision would cover security, safety and other minor improvements. Maintains present treatment capacity.

Cost/Funding

Funding Source: Customer water rates

| Cost: | Funding Decision: |
|-------------------------|---|
| Project Cost: \$625,000 | Funding FY 03/04 Project Cost \$125,000 |
| | Funding FY 04/05 Project Cost \$125,000 |
| | Funding FY 05/06 Project Cost \$125,000 |
| | Funding FY 06/07 Project Cost \$125,000 |
| | Funding FY 07/08 Project Cost \$125,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-04-014**

Title/Description: Chalk Bluff Phase III Expansion
Category: Treatment-Improvements
Ranking: Essential
Fiscal Year: 2004-2005

Impact:

The Chalk Bluff Phase III expansion will result in an additional 14 MGD (million gallons per day) of supply for new water demand. The planned budget would include an additional 14,000 gpm (gallons per minute) Hunter Creek Pump. The scope of the project now combines previous CIP projects such as the Chalk Bluff to Highland Transfer Pumps for \$600,000. The Chalk Bluff CO2 improvements for \$500,000 will improve treatment and help reduce other chemical demands. The expansion can be completed by fiscal year-end 03-04.

Cost/Funding

Funding Source: Customer water rates - (potentially system development charges/New development)

| | |
|---------------------------|---|
| Cost: | Funding Decision: |
| Project Cost: \$7,850,000 | Funding FY 03/04 Project Cost \$7,600,000 |
| | Funding FY 04/05 Project Cost \$250,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-04-015**

Title/Description: Glendale High Lift
Category: Treatment-Improvements
Ranking: Deferrable
Fiscal Year: 2004-2008

Impact:

The Glendale High Lift Pumps have been replaced over the last two years. A contingency is allowed each year for unscheduled replacements due to unexpected failures. Once pumps are scheduled for replacement the budget and plan will be revised in the future.

Cost/Funding

Funding Source: Customer water rates

| Cost: | Funding Decision: |
|-------------------------|---|
| Project Cost: \$500,000 | Funding FY 03-04 Project Cost \$100,000 |
| | Funding FY 04/05 Project Cost \$100,000 |
| | Funding FY 05/06 Project Cost \$100,000 |
| | Funding FY 06/07 Project Cost \$100,000 |
| | Funding FY 07/08 Project Cost \$100,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 03-04-016

Title/Description: Glendale Diversion Improvements
Category: Treatment-Improvements
Ranking: Required
Fiscal Year: 2004-2007

Impact:

The present Glendale Diversion works allows significant bypass flows when diverting river water into the Glendale Treatment Plant. Consequently the plant capacity is not fully utilized. Diversion improvements would increase water supply to the Glendale Plant for treatment and better utilize available plant capacity.

Cost/Funding

Funding Source: Customer water rates

Cost:

Project Cost: \$8,800,000

Funding Decision:

Funding FY 03/04 Project Cost \$300,000

Funding FY 04/05 Project Cost \$500,000

Funding FY 05/06 Project Cost \$4,000,000

Funding FY 06/07 Project Cost \$4,000,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-04-017**

Title/Description: Arsenic Abatement
Category: Treatment-Improvements
Ranking: Required
Fiscal Year: 2004-2006

Impact:

Improvements are required at several TMWA wells to reduce arsenic concentrations to below EPA's new standard of 10 parts per billion. TMWA has filed a notice of intent to fund this project through borrowings from the Drinking Water State Revolving Loan Fund (DWSRF). Mitigation efforts must be complete by January 2006. Work plan for 03-04 is to perform dynamic modeling on dilution opportunities.

Cost/Funding

Funding Source: Customer water rates – Repay DWSRF Loans

| | |
|----------------------------|---|
| Cost: | Funding Decision: |
| Project Cost: \$13,500,000 | Funding FY 03/04 Project Cost \$500,000 |
| | Funding FY 04/05 Project Cost \$6,000,000 |
| | Funding FY 05/06 Project Cost \$7,000,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-04-018**

Title/Description: Lab Equipment
Category: Treatment-Improvements
Ranking: Deferrable
Fiscal Year: 2004-2008

Impact:

Provision is made in each annual budget for replacement of specialized lab equipment used to analyze water. Water analyses are performed to ensure water supplies meet or exceed drinking water standards. Spending on new equipment would be on an as needed basis.

Cost/Funding

Funding Source: Customer water rates

| Cost: | Funding Decision: |
|-------------------------|--|
| Project Cost: \$125,000 | Funding FY 03/04 Project Cost \$25,000 |
| | Funding FY 04/05 Project Cost \$25,000 |
| | Funding FY 05/06 Project Cost \$25,000 |
| | Funding FY 06/07 Project Cost \$25,000 |
| | Funding FY 07/08 Project Cost \$25,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-04-019**

Title/Description: Contingency
Category: Treatment-Improvements
Ranking: Deferrable
Fiscal Year: 2004-2008

Impact:

Budget for contingency is provided to cover emergency replacements (unscheduled maintenance) for major items such as smaller pumps, piping, electrical, and HVAC. Budget authority maintains current capacity. Spending on such items would be on an as needed basis.

Cost/Funding

Funding Source: Customer water rates

| Cost: | Funding Decision: |
|---------------------------|---|
| Project Cost: \$1,250,000 | Funding FY 03/04 Project Cost \$250,000 |
| | Funding FY 04/05 Project Cost \$250,000 |
| | Funding FY 05/06 Project Cost \$250,000 |
| | Funding FY 06/07 Project Cost \$250,000 |
| | Funding FY 07/08 Project Cost \$250,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 023-04-020**

Title/Description: Pressure Improvements/Conversions
Category: Distribution-Improvements
Ranking: Required
Fiscal Year: 2004-2008

Impact:

The budget anticipates general pressure improvements such as water main ties and pressure regulating station construction and modification. Budget items maintain current capacities.

Cost/Funding

Funding Source: Customer water rates

| Cost: | Funding Decision: |
|-------------------------|---|
| Project Cost: \$750,000 | Funding FY 03/04 Project Cost \$150,000 |
| | Funding FY 04/05 Project Cost \$150,000 |
| | Funding FY 05/06 Project Cost \$150,000 |
| | Funding FY 06/07 Project Cost \$150,000 |
| | Funding FY 07/08 Project Cost \$150,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 03-04-021

Title/Description: Pump Station Rebuilds - General
Category: Distribution-Improvements
Ranking: Required
Fiscal Year: 2004-2008

Impact:

TMWA has 92 pump stations in service that may require upgrading due to (1) the need for reconstruction or replacement of pumps required to maintain present capacity or (2) the need for pump station rebuilds that are driven by new capacity requirements.

Cost/Funding

Funding Source: Customer water rates and System Development Charges/ New Development

Cost:

Project Cost: \$4,000,000

Funding Decision:

Funding FY 03/04 Project Cost \$500,000

Funding FY 04/05 Project Cost \$500,000

Funding FY 05/06 Project Cost \$1,000,000

Funding FY 06/07 Project Cost \$1,000,000

Funding FY 07/08 Project Cost \$1,000,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-04-022**

Title/Description: Standby Generator Replacements/System Interties
Category: Distribution-Improvements
Ranking: Required
Fiscal Year: 2004-2008

Impact:

Standby generators are utilized by TMWA to power pump stations serving customers in the event of power outages. Back-up supply is also to be provided by constructing system interties (pipelines and pressure regulating stations) from one zone to another. Spending on these projects would be on an as needed basis.

Cost/Funding

Funding Source: Customer water rates

| | |
|-------------------------|---|
| Cost: | Funding Decision: |
| Project Cost: \$875,000 | Funding FY 03/04 Project Cost \$175,000 |
| | Funding FY 04/05 Project Cost \$175,000 |
| | Funding FY 05/06 Project Cost \$175,000 |
| | Funding FY 06/07 Project Cost \$175,000 |
| | Funding FY 07/08 Project Cost \$175,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 03-04-023

Title/Description: White Sands Pump Station
Category: Distribution-Improvements
Ranking: Essential
Fiscal Year: 2004

Impact:

Project required serving new development in the South Truckee Meadows. Amount budgeted is sufficient to cover carryover expenses from fiscal year 2002-2003.

Cost/Funding

Funding Source: New development

Cost:

Project Cost: \$25,000

Funding Decision:

Funding FY 03/04 Project Cost \$25,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 03-04-024

Title/Description: U.S. 40 Pump Station Rebuilds
Category: Distribution-Improvements
Ranking: Essential
Fiscal Year: 2004

Impact:

Reconstruction of the US 40 Pump Station is required to accommodate new capacity demand in northwest Reno. This project has been carried over from fiscal year 2002-2003.

Cost/Funding

Funding Source: System Development Charge/New Development

Cost:

Project Cost: \$400,000

Funding Decision:

Funding FY 03/04 Project Cost \$400,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-04-025**

Title/Description: S. Hills Pump Rebuild
Category: Distribution-Improvements
Ranking: Essential
Fiscal Year: 2004

Impact:

The rebuild of this pump station is required to increase pumping efficiency in the South Hills area. This project is carried over from fiscal year 2002-2003. This provision is to cover final expenses for construction.

Cost/Funding

Funding Source: System Development Charge/New Development

| | |
|------------------------|--|
| Cost: | Funding Decision: |
| Project Cost: \$30,000 | Funding FY 03/04 Project Cost \$30,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 03-04-026

Title/Description: Mae Anne Pump Station #1 Rebuilds
Category: Distribution-Improvements
Ranking: Essential
Fiscal Year: 2004

Impact:

Reconstruction of the Mae Anne Pump Station # 1 is required to increase pumping capacity to accommodate new growth in Northwest Reno. This project has been carried over from fiscal year 2002-2003.

Cost/Funding

Funding Source: System Development Charges/New Development

Cost:

Project Cost: \$400,000

Funding Decision:

Funding FY 03/04 Project Cost \$400,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 03-04-027

Title/Description: Mae Anne Pump Station #2 Rebuilds
Category: Distribution-Improvements
Ranking: Essential
Fiscal Year: 2004

Impact:

Reconstruction of the Mae Anne Pump Station # 2 is required to increase pumping capacity to accommodate new growth in Northwest Reno. This project has been carried over from fiscal year 2002-2003.

Cost/Funding

Funding Source: System Development Charge/ New Development

Cost:

Project Cost: \$400,000

Funding Decision:

Funding FY 03/04 Project Cost \$400,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-04-028**

Title/Description: Stead Pump Station Rebuilds
Category: Distribution-Improvements
Ranking: Required
Fiscal Year: 2004-2006

Impact:

Reconstruction of the Stead Pumping System and/or other improvements are required to increase reliability of service and accommodate expected future capacity in the North Valleys.

Cost/Funding

Funding Source: Customer water rates – System Development Charge/New Development

| | |
|---------------------------|---|
| Cost: | Funding Decision: |
| Project Cost: \$2,100,000 | Funding FY 03/04 Project Cost \$100,000 |
| | Funding FY 04/05 Project Cost \$1,000,000 |
| | Funding FY 05/06 Project Cost \$1,000,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 03-04-029

Title/Description: Vista Pump Station #1 Relocation
Category: Distribution-Improvements
Ranking: Required
Fiscal Year: 2004

Impact:

The Vista Pump Station #1 will require relocation due to adverse site conditions and road realignments in northeast Sparks. This project is carried over from fiscal year 2002-2003.

Cost/Funding

Funding Source: Customer water rates

Cost:
Project Cost: \$500,000

Funding Decision:
Funding FY 03/04 Project Cost \$500,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-04-030**

Title/Description: Pyramid Pump Station #2
Category: Distribution-Improvements
Ranking: Required
Fiscal Year: 2004-2005

Impact:

The Pyramid Pump Station #2 will be built to provide surface water for growing demand in the Spanish Springs service area. New growth is in the Washoe County and TMWA service territories. Project cost for fiscal year 2003-2004 will pay for design. Project budget is carried over from fiscal year 2002-2003.

Cost/Funding

Funding Source: Washoe County Dept. of Water Resources 67%
Developer Rule 9 Fees 33%

| | |
|-------------------------|---|
| Cost: | Funding Decision: |
| Project Cost: \$800,000 | Funding FY 03/04 Project Cost \$50,000 |
| | Funding FY 04/05 Project Cost \$750,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 03-04-031

Title/Description: Disc Dr. Pump Station Construction
Category: Distribution-Improvements
Ranking: Essential-Land; Required-Pump Station
Fiscal Year: 2003-2004 and 2006-2007

Impact:

The budget anticipates acquiring land for the Disc Drive Pump Station. The land needs to be secured ensuring a place to construct the 10,000-gallon per minute-pump station with an in-service date – Summer 2007. Site acquisition has been carried over from fiscal year 2002-2003.

Cost/Funding

Funding Source: System Development Charge/New Development-Customer Water Rates

Cost:

Project Cost: \$875,000

Funding Decision:

Funding FY 03/04 Project Cost \$75,000

Funding FY 06/07 Project Cost \$800,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 03-04-032

Title/Description: Huffaker 24" Pipeline
Category: Distribution-Improvements
Ranking: Essential
Fiscal Year: 2004

Impact:

The Huffaker 24" pipeline will be built to provide additional water supplies to the Southeast Truckee Meadows. The area served is mostly in the Washoe County service territory. This project has been carried over from fiscal year 2002-2003. Washoe County has requested that TMWA move forward with this project.

Cost/Funding

Funding Source: Washoe County Dept. of Water Resources 47%
Developer Rule 9 Fees 53%

Cost:
Project Cost: \$960,000

Funding Decision:
Funding FY 03/04 Project Cost \$960,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-04-033**

Title/Description: Somerset Offsite Mains
Category: Distribution-Improvements
Ranking: Essential
Fiscal Year: 2004-2005

Impact:

The budget anticipates spending on offsite mains to primarily serve the Somerset Development in Northwest Reno. Other developments are planned in this oversizing. Much of the expense for fiscal year 2003-2004 was carried over from fiscal year 2002-2003.

Cost/Funding

Funding Source: Rule 9 developer fees

| | | | |
|---------------------------|--|--------------------------|------------------------|
| Cost: | | Funding Decision: | |
| Project Cost: \$1,100,000 | | Funding FY 03/04 | Project Cost \$700,000 |
| | | Funding FY 04/05 | Project Cost \$400,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 03-04-034

Title/Description: Wedekind Whitfield to Exit 14
Category: Distribution-Improvements
Ranking: Required
Fiscal Year: 2004

Impact:

This project envisions installation of 365 ‘ of 10” main. This project will provide additional capacity for growth.

Cost/Funding

Funding Source: Rule 9 developer feeder main fees

Cost:
Project Cost: \$50,000

Funding Decision:
Funding FY 03/04 Project Cost \$50,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 04-05-035

Title/Description: N. McCarran from Greenbrae to York
Category: Distribution-Improvements
Ranking: Required
Fiscal Year: 2005

Impact:

Project timing is dependent upon growth in N.E. Sparks. The project scope envisions installation of 2,100' of 30" water main. This project will provide additional capacity for growth.

Cost/Funding

Funding Source: Rule 9 developer feeder main fees

Cost:
Project Cost: \$675,000

Funding Decision:
Funding FY 04/05 Project Cost \$675,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 04-05-036

Title/Description: Stanford from Prater to "J" Street
Category: Distribution-Improvements
Ranking: Required
Fiscal Year: 2005

Impact:

Project timing is dependent upon growth in N.E. Sparks. The project scope envisions installation of 950' of 16" main to provide new capacity for development.

Cost/Funding

Funding Source: Rule 9 developer feeder main fees

Cost:

Project Cost: \$175,000

Funding Decision:

Funding FY 04/05 Project Cost \$175,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 04-05-037

Title/Description: Greenbrae from Stanford to Probasco
Category: Distribution-Improvements
Ranking: Required
Fiscal Year: 2005

Impact:

Project timing is dependent upon growth in N.E. Sparks. The project anticipates installation of 800' of 30" water main. This project will create new capacity for growth.

Cost/Funding

Funding Source: Rule 9 developer feeder main fees.

Cost:
Project Cost: \$275,000

Funding Decision:
Funding FY 04/05 Project Cost \$275,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 04-05-038**

Title/Description: N. McCarran from York to N. Truckee
Category: Distribution-Improvements
Ranking: Required
Fiscal Year: 2005

Impact:

Project timing is dependent upon growth in N.E. Sparks. This project anticipates installation of 1,390' of 24" main. The project will provide additional capacity for growth in Sparks.

Cost/Funding

Funding Source: Rule 9 developer feeder main fees

| | |
|-------------------------|---|
| Cost: | Funding Decision: |
| Project Cost: \$350,000 | Funding FY 04/05 Project Cost \$350,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 04-05-039

Title/Description: Stanford from "J" Street to Greenbrae
Category: Distribution-Improvements
Ranking: Required
Fiscal Year: 2005

Impact:

Project timing is dependent upon growth in N.E. Sparks. This project anticipates installation of 1,070' of 16" main. The project will provide additional capacity for growth in Sparks.

Cost/Funding

Funding Source: Rule 9 developer feeder main fees

Cost:
Project Cost: \$195,000

Funding Decision:
Funding FY 04/05 Project Cost \$195,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 04-05-040

Title/Description: Baring from N. Truckee to Goldy
Category: Distribution-Improvements
Ranking: Required
Fiscal Year: 2005

Impact:

Project timing is dependent upon growth in N.E. Sparks. The project anticipates installation of 1,850' of 24" main. This project will provide additional capacity for growth in Sparks.

Cost/Funding

Funding Source: Rule 9 developer feeder main fees

Cost:
Project Cost: \$475,000

Funding Decision:
Funding FY 04/05 Project Cost \$475,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 04-05-041

Title/Description: N. Truckee from Baring to Existing 8"
Category: Distribution-Improvements
Ranking: Required
Fiscal Year: 2005

Impact:

The project anticipates installation of 150' of 8" main. The project will provide additional capacity for growth in Sparks.

Cost/Funding

Funding Source: Rule 9 developer feeder main fees

Cost:
Project Cost: \$15,000

Funding Decision:
Funding FY 04/05 Project Cost \$15,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 04-05-042

Title/Description: N. McCarran and York Intertie
Category: Distribution-Improvements
Ranking: Required
Fiscal Year: 2005

Impact:

Required to provide additional capacity for growth in Sparks.

Cost/Funding

Funding Source: Rule 9 developer feeder main fees

Cost:
Project Cost: \$12,000

Funding Decision:
Funding FY 04/05 Project Cost \$12,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 04-05-043

Title/Description: Greenbrae from Probasco to N. McCarran
Category: Distribution
Ranking: Required
Fiscal Year: 2005

Impact:

The plan anticipates installation of 1,800' of 30" water main. This project will serve new growth in North Sparks/Spanish Springs area.

Cost/Funding

Funding Source: Rule 9 developer fees

Cost:
Project Cost: \$575,000

Funding Decision:
Funding FY 04/05 Project Cost \$575,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 06-07-044**

Title/Description: Kumle Lane to S. Virginia Intertie
Category: Distribution-Improvements
Ranking: Required
Fiscal Year: 2007

Impact:

Required to provide additional capacity for future growth in wholesale area served by Washoe County.

Cost/Funding

Funding Source: Washoe County Department of Water Resources 100%

| | |
|------------------------|--|
| Cost: | Funding Decision: |
| Project Cost: \$24,000 | Funding FY 06/07 Project Cost \$24,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 06-07-045

Title/Description: S. Virginia from Kumle to Peckham
Category: Distribution-Improvements
Ranking: Required
Fiscal Year: 2007

Impact:

This project anticipates installation of 1,810' of 24" main. The project will provide additional capacity for future growth in wholesale area served by Washoe County.

Cost/Funding

Funding Source: Washoe County Department of Water Resources 100%

Cost:
Project Cost: \$750,000

Funding Decision:
Funding FY 06/07 Project Cost \$750,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 07-08-046

Title/Description: "F" Street from 19th to 15th Main
Category: Distribution-Improvements
Ranking: Required
Fiscal Year: 2008

Impact:

Project timing is dependent upon growth in N.E. Sparks. The project anticipates installation of 1,840' of 30" water main.

Cost/Funding

Funding Source: Rule 9 developer feeder main fees

Cost:

Project Cost: \$675,000

Funding Decision:

Funding FY 07/08 Project Cost \$675,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 07-08-047

Title/Description: 15th St. to "F" to Prater
Category: Distribution-Improvements
Ranking: Required
Fiscal Year: 2008

Impact:

Project timing is dependent upon growth in N.E. Sparks. The project anticipates installation of 150' of 24" water main.

Cost/Funding

Funding Source: Rule 9 developer feeder main fees

Cost:
Project Cost: \$40,000

Funding Decision:
Funding FY 07/08 Project Cost \$40,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 07-08-048

Title/Description: 21st Street from Glendale WTP to Pacific
Category: Distribution-Improvements
Ranking: Required
Fiscal Year: 2008

Impact:

Timing of this project is dependent upon pace of development in Sparks. The project anticipates installation of 2,050' of 30" main. This project will create new capacity for growth.

Cost/Funding

Funding Source: Rule 9 developer feeder main fees

Cost:

Project Cost: \$700,000

Funding Decision:

Funding FY 07/08 Project Cost \$700,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 07-08-049

Title/Description: 21st Street from Glendale WTP to Glendale Ave.
Category: Distribution-Improvements
Ranking: Required
Fiscal Year: 2008

Impact:

This project anticipates installation of 1,510' of 30" main. The project will provide additional capacity for future growth.

Cost/Funding

Funding Source: Rule 9 developer fees

Cost:

Project Cost: \$550,000

Funding Decision:

Funding FY 07/08 Project Cost \$550,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 07-08-050

Title/Description: "A" St. & 19th to I-80 to "F" St.
Category: Distribution-Improvements
Ranking: Required
Fiscal Year: 2008

Impact:

Project timing is dependent upon growth rate in Sparks. This project anticipates installation of 2,387' of 30' main to be constructed. The new main will serve new growth in North Sparks.

Cost/Funding

Funding Source: Rule 9 developer fees

Cost:

Project Cost: \$700,000

Funding Decision:

Funding FY 07/08 Project Cost \$700,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 07-08-051

Title/Description: I-80 to Pacific to "A" St.
Category: Distribution-Improvements
Ranking: Required
Fiscal Year: 2008

Impact:

The budget anticipates installation of 413' of 30" main to serve new growth in Sparks. This project is expected to cost \$40 per inch diameter per lineal ft of pipe length at 2003-2004 pricing.

Cost/Funding

Funding Source: Rule 9 developer fees

Cost:
Project Cost: \$550,000

Funding Decision:
Funding FY 07/08 Project Cost \$550,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 03-04-052

Title/Description: Park St. Main Replacement
Category: Distribution-Improvements
Ranking: Essential
Fiscal Year: 2004

Impact:

The Park St. Main crosses the Truckee River. This main has become exposed due to river scouring of the riverbed. Rock impacts have damaged the main which now requires replacement.

Cost/Funding

Funding Source: Customer Water Rates

Cost:
Project Cost: \$500,000

Funding Decision:
Funding FY 03/04 Project Cost \$500,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 03-04-053

Title/Description: Mayberry to US 40 Main Oversizing
Category: Distribution
Ranking: Essential
Fiscal Year: 2004

Impact:

Developer will be installing mains along Mayberry Avenue to serve growth in NW Reno. TMWA will request mains be oversized and will pay for additional capacity. This capacity will be held for growth expected in the Verdi area.

Cost/Funding

Funding Source: Rule 9 developer fees

Cost:
Project Cost: \$75,000

Funding Decision:
Funding FY 03/04 Project Cost \$75,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 04-08-054

Title/Description: General Distribution Line Over sizing
Category: Distribution
Ranking: Required
Fiscal Year: 2004-2008

Impact:

Provision is made each year in the capital improvement plan to partner with a developer installed distribution main. By oversizing such mains, TMWA can provide for additional future distribution capacity without having to place expensive parallel mains for future development.

Cost/Funding

Funding Source: Rule 9 developer fees

Cost:

Project Cost: \$475,000

Funding Decision:

| | | |
|------------------|--------------|-----------|
| Funding FY 03/04 | Project Cost | \$75,000 |
| Funding FY 04/05 | Project Cost | \$100,000 |
| Funding FY 05/06 | Project Cost | \$100,000 |
| Funding FY 06/07 | Project Cost | \$100,000 |
| Funding FY 07/08 | Project Cost | \$100,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-05-055**

Title/Description: RETRAC - Distribution Realignments
Category: Distribution-Improvements
Ranking: Required
Fiscal Year: 2005

Impact:

Consideration is given in the budget for water utility realignment as approved in the cooperative agreement. The proposed railroad trench will provide an opportunity to replace approximately 30 distribution line crossings through the railroad right-of-way. The average age of the distribution lines subject to replacement is 1960. The water distribution crossings range in age from 1912 to 1988.

Cost/Funding

Funding Source: Customer water rates. TMWA is responsible for the first \$1,250,000 of project costs and the RETRAC project will fund the remainder. TMWA has estimated \$100,000 charged in fiscal year 2002-2003.

| | |
|---------------------------|---|
| Cost: | Funding Decision: |
| Project Cost: \$1,150,000 | Funding FY 03/04 Project Cost \$1,000,000 |
| | Funding FY 04/05 Project Cost \$150,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 02-07-056**

Title/Description: General Main Replacements
Category: Distribution-Improvements
Ranking: Essential
Fiscal Year: 2004-2007

Impact:

Provision is made each year for main replacements in conjunction with repaving efforts by the City of Reno, City of Sparks, and Washoe County. The annual provision is considered adequate to replace steel and cast iron pipelines in the older service areas.

Cost/Funding

Funding Source: Customer water rates

| | |
|--|---|
| Cost: Project Cost: \$12,500,000 | Funding Decision: Funding FY 03/04 Project Cost \$2,500,000 Funding FY 04/05 Project Cost \$2,500,000 Funding FY 05/06 Project Cost \$2,500,000 Funding FY 06/07 Project Cost \$2,500,000 Funding FY 07/08 Project Cost \$2,500,000 |
|--|---|

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 04-05-057**

Title/Description: Stead Silver Lake Improvements
Category: Distribution-Improvements
Ranking: Required
Fiscal Year: 2005-2008

Impact:

Sierra Pacific Power/West Pac Utilities acquired the Silver Lake Water Company several years prior to the formation of the Truckee Meadows Water Authority. The Silver Lake service area will require service line, water main and well improvements on an as-needed basis. A general provision is made in the CIP to cover future projects.

Cost/Funding

Funding Source: Customer water rates

| | |
|---|--|
| Cost: Project Cost: \$1,600,000 | Funding Decision: Funding FY 04/05 Project Cost \$400,000 Funding FY 05/06 Project Cost \$400,000 Funding FY 06/07 Project Cost \$400,000 Funding FY 07/08 Project Cost \$400,000 |
|---|--|

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-08-058**

Title/Description: Galvanized Service Replacements
Category: Distribution-Improvements
Ranking: Required
Fiscal Year: 2004-2008

Impact:

Galvanized water service laterals are responsible for significant water losses in the TMWA system due to corrosion of the metal service lines. TMWA does systematic replacement of these services, or once a galvanized service line leaks it is completely replaced with a meter box and setter installed when required.

Cost/Funding

Funding Source: Customer water rates/Meter Retrofit Fund

| | | | |
|---------------------------|--------------------------|--------------|-----------|
| Cost: | Funding Decision: | | |
| Project Cost: \$2,500,000 | Funding FY 03/04 | Project Cost | \$500,000 |
| | Funding FY 04/05 | Project Cost | \$500,000 |
| | Funding FY 05/06 | Project Cost | \$500,000 |
| | Funding FY 06/07 | Project Cost | \$500,000 |
| | Funding FY 07/08 | Project Cost | \$500,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 03-08-059

Title/Description: Polybutylene Service Replacements
Category: Distribution-Improvements
Ranking: Required
Fiscal Year: 2004-2008

Impact:

Polybutylene services were installed during the 1970's and early 1980's. These services are responsible for significant water losses in the TMWA system due to the brittle nature of polybutylene. TMWA does systematic replacement of these services, or once a polybutylene service leaks it is completely replaced with a meter box and setter installed.

Cost/Funding

Funding Source: Customer water rates/Meter Retrofit Fund

Cost:

Project Cost: \$3,250,000

Funding Decision:

Funding FY 03/04 Project Cost \$500,000

Funding FY 04/05 Project Cost \$500,000

Funding FY 05/06 Project Cost \$750,000

Funding FY 06/07 Project Cost \$750,000

Funding FY 07/08 Project Cost \$750,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 04-08-060

Title/Description: Fire Hydrant Replacements
Category: Distribution-Improvements
Ranking: Required
Fiscal Year: 2004-2008

Impact:

TMWA intends to take over fire hydrant maintenance in fiscal year 2004-2005. TMWA needs to bring helpers through the apprenticeship program to become fitters. Once more fitters are available TMWA can begin to take over fire hydrant maintenance.

Cost/Funding

Funding Source: Customer water rates

| | |
|---------------------------|---|
| Cost: | Funding Decision: |
| Project Cost: \$1,000,000 | Funding FY 04/05 Project Cost \$250,000 |
| | Funding FY 05/06 Project Cost \$250,000 |
| | Funding FY 06/07 Project Cost \$250,000 |
| | Funding FY 07/08 Project Cost \$250,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 03-08-061

Title/Description: SCADA Upgrades and Improvements
Category: Distribution-Improvements
Ranking: Required
Fiscal Year: 2003-2008

Impact:

A modest provision is made each year for any telemetry upgrades at established sites. This provision is not for new construction.

Cost/Funding

Funding Source: Customer water rates

| | |
|-------------------------|--|
| Cost: | Funding Decision: |
| Project Cost: \$200,000 | Funding FY 03/04 Project Cost \$40,000 |
| | Funding FY 04/05 Project Cost \$40,000 |
| | Funding FY 05/06 Project Cost \$40,000 |
| | Funding FY 06/07 Project Cost \$40,000 |
| | Funding FY 07/08 Project Cost \$40,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 02-03-062

Title/Description: Vaughn Mill Steel Tank Replacement
Category: Storage -Improvements
Ranking: Essential
Fiscal Year: 2004

Impact:

The Vaughn Mill tank replacement was delayed from fiscal year 2002-2003 because TMWA could not secure a construction site. TMWA has now secured a new tank construction site and can proceed with the project in fiscal year 2003-2004. This project was carried over from fiscal year 2002-2003. The proposed tank will be steel and will replace an older concrete tank.

Cost/Funding

Funding Source: Customer water rates – Capital reserve fund

Cost:

Project Cost: \$1,500,000

Funding Decision:

Funding FY 03/04 Project Cost \$1,500,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 02-03-063**

Title/Description: Ridgeview Buried Concrete Tank
Category: Storage -Improvements
Ranking: Essential
Fiscal Year: 2003-2004

Impact:

The Ridgeview tank is required to provide additional storage in Southwest Reno. The tank will have capacity of 1.5 million gallons. Ability to acquire a suitable construction site may delay the project into fiscal year 2003-2004. The original tank design called for a steel structure. The present tank will be concrete and will also be partially buried.

Cost/Funding

Funding Source: Customer Rates and System Development Charges

| | |
|---------------------------|---|
| Cost: | Funding Decision: |
| Project Cost: \$3,440,000 | Funding FY 03/04 Project Cost \$2,750,000 |
| | Funding FY 04-05 Project Cost \$690,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 02-05-064

Title/Description: Pyramid buried Concrete Tank
Category: Storage -Improvements
Ranking: Required
Fiscal Year: 2003-2004:2005-2006

Impact:

The Pyramid tank will be required to provide additional storage in Northeast Sparks. The planned tank capacity will be 3.7 million gallons. The cost of the tank may be shared with Washoe County Department of Water Resources. The tank design calls for a concrete tank that is partially buried. The 2003-2004 budget is for securing a construction site.

Cost/Funding

Funding Source: Potential cost sharing with Washoe County Department of Water Resources. TMWA portion to be funded from System Development Charges

Cost:
Project Cost: \$4,200,000

Funding Decision:
Funding FY 03/04 Project Cost \$100,000
Funding FY 05/06 Project Cost \$4,100,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 02-04-065

Title/Description: Somerset Buried Concrete Tank
Category: Storage - Improvements
Ranking: Essential
Fiscal Year: 2004-2005

Impact:

The Somerset tank will primarily serve the Somerset development project in Northwest Reno. Planned tank capacity is expected at 1.7 million gallons. Tank design will call for a concrete tank that is partially buried.

Cost/Funding

Funding Source: System Development Charges-potential for build and dedicate

Cost:

Project Cost: \$2,955,000

Funding Decision:

Funding FY 03/04 Project Cost \$2,375,000

Funding FY 04/05 Project Cost \$580,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 02-04-066**

Title/Description: Beaumont Tank
Category: Storage -Improvements
Ranking: Required
Fiscal Year: 2004-2005

Impact:

The Beaumont tank will primarily serve the Beaumont development project in Northwest Reno. Planned tank capacity is expected at 1.1 million gallons. Tank design will call for a concrete tank that is partially buried.

Cost/Funding

Funding Source: System Development Charges

| | | | |
|---------------------------|--|--------------------------|--------------------------|
| Cost: | | Funding Decision: | |
| Project Cost: \$1,300,000 | | Funding FY 03/04 | Project Cost \$1,000,000 |
| | | Funding FY 04/05 | Project Cost \$300,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-04-067**

Title/Description: D'Andrea Tank East Sparks
Category: Storage -Improvements
Ranking: Required
Fiscal Year: 2003-2004; 2006-2007

Impact:

The D'Andrea Tank will be required at some time in the future to provide storage for new capacity. The budget for fiscal year 2003-2004 is to secure a construction site.

Cost/Funding

Funding Source: System Development Charges

| | |
|---------------------------|--|
| Cost: | Funding Decision: |
| Project Cost: \$2,150,000 | Funding FY 03/04 Project Cost \$50,000 |
| | Funding FY 06/07 Project Costs \$2,100,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-04-068**

Title/Description: Zolezzi Tank Roof Replacement
Category: Storage -Improvements
Ranking: Essential
Fiscal Year: 2004

Impact:

TMWA introduced a systematic tank inspection program in fiscal year 2002-2003. During these inspections the Zolezzi Tank roof was found to have suffered serious deterioration. It is essential that the tank roof is replaced with less reactive construction materials. This project was not listed in the previous year's CIP.

Cost/Funding

Funding Source: Customer water rates

Cost:

Project Cost: \$500,000

Funding Decision:

Funding FY 03/04 Project Cost \$500,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-08-069**

Title/Description: Tank Interior Re-linings
Category: Storage -Improvements
Ranking: Required
Fiscal Year: 2004-2008

Impact:

TMWA has 32 tanks in service. The expected life of the interior lining of the tank is estimated at 15 years. The budget provides for the relining of two tanks per year if conditions warrant.

Cost/Funding

Funding Source: Customer water rates

| Cost: | Funding Decision: |
|---------------------------|---|
| Project Cost: \$1,750,000 | Funding FY 03/04 Project Cost \$350,000 |
| | Funding FY 04/05 Project Cost \$350,000 |
| | Funding FY 05/06 Project Cost \$350,000 |
| | Funding FY 06/07 Project Cost \$350,000 |
| | Funding FY 07/08 Project Cost \$350,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-08-070**

Title/Description: Flume – Dam Reconstruction Contingency
Category: Hydroelectric Plant & Flume-Improvements
Ranking: Deferrable
Fiscal Year: 2004-2008

Impact:

Provision is made each year for hydroelectric flume reconstruction from unexpected rock falls, ice expansion damage, and penstock reconstruction. Operation of hydroelectric facilities provides power generation revenue, which offset the power costs of TMWA.

Cost/Funding

Funding Source: Hydroelectric revenues – Customer water rates

| Cost: | Funding Decision: |
|---------------------------|---|
| Project Cost: \$1,250,000 | Funding FY 03/04 Project Cost \$250,000 |
| | Funding FY 04/05 Project Cost \$250,000 |
| | Funding FY 05/06 Project Cost \$250,000 |
| | Funding FY 06/07 Project Cost \$250,000 |
| | Funding FY 07/08 Project Cost \$250,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 03-05-071

Title/Description: Verdi Penstock Repair
Category: Hydroelectric Plant & Flume-Improvements
Ranking: Required
Fiscal Year: 2004-2005

Impact:

The Verdi Penstock is a wooden structure that requires complete replacement. The penstock itself is unable to hold the fasteners for metal cladding. Numerous leaks exist in the wooden stave penstock. This project has been carried over from fiscal year 2002-2003 since reconstruction efforts focused on the Fleisch Flume.

Cost/Funding

Funding Source: Hydroelectric revenues – Customer water rates

Cost:

Project Cost: \$1,000,000

Funding Decision:

Funding FY 03/04 Project Cost \$100,000

Funding FY 04/05 Project Cost \$900,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 02-07-072

Title/Description: Contingency-Plant & Turbines
Category: Hydroelectric Plant & Flume-Improvements
Ranking: Deferrable
Fiscal Year: 2004-2008

Impact:

Provision is made each year to provide expenditure authority for emergency replacements or betterments to hydroelectric plants and turbines. If no unscheduled replacements are required, spending will not occur.

Cost/Funding

Funding Source: Hydroelectric revenues – Customer water rates

Cost:

Project Cost: \$500,000

Funding Decision:

| | | |
|------------------|--------------|-----------|
| Funding FY 03/04 | Project Cost | \$100,000 |
| Funding FY 04/05 | Project Cost | \$100,000 |
| Funding FY 05/06 | Project Cost | \$100,000 |
| Funding FY 06/07 | Project Cost | \$100,000 |
| Funding FY 07/08 | Project Cost | \$100,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 03-08-073

Title/Description: Rule 17 Water Rights Purchase
Category: Water Resources & Planning
Ranking: Essential
Fiscal Year: 2004-2008

Impact:

TMWA purchases water rights in the open market. The water rights are retained by TMWA and will-serves are sold to developers with a modest administrative charge to cover our costs. The provision for water right purchases was decreased to \$3.0 million from \$4.0 million in the previous CIP based upon recent experience.

Cost/Funding

Funding Source: Developers purchase will-serves from TMWA

Cost:

Project Cost: \$15,000,000

Funding Decision:

Funding FY 03/04 Project Cost \$3,000,000

Funding FY 04/05 Project Cost \$3,000,000

Funding FY 05/06 Project Cost \$3,000,000

Funding FY 06/07 Project Cost \$3,000,000

Funding FY 07/08 Project Cost \$3,000,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-08-074**

Title/Description: Water Meter Retrofits
Category: Water Resources & Planning
Ranking: Essential
Fiscal Year: 2004-2008

Impact:

TMWA has been systematically retrofitting water services for a number of years. There are over 15,000 services left to be retrofitted. The process of retrofitting will take five to seven more years based upon present funding sources.

Cost/Funding

Funding Source: Developer retrofit fees

| | |
|----------------------------|---|
| Cost: | Funding Decision: |
| Project Cost: \$10,000,000 | Funding FY 03/04 Project Cost \$2,000,000 |
| | Funding FY 04/05 Project Cost \$2,000,000 |
| | Funding FY 05/06 Project Cost \$2,000,000 |
| | Funding FY 06/07 Project Cost \$2,000,000 |
| | Funding FY 07/08 Project Cost \$2,000,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-05-075**

Title/Description: Billing System Modifications
Category: TMWA-Customer Service
Ranking: Essential
Fiscal Year: 2004-2005

Impact:

TMWA contracts billing and bill print functions with ORCOM. Certain modifications will be implemented in fiscal year 2003-2004. One project is comparison billing of flat rate customer charges to metered usage for customers with meters. Another project will allow TMWA to take credit card payments. Once new customer rates are adjusted the billing program will have to be modified. Provision is made in Fiscal year 2004-2005 for further adjustments if water rates are changed again.

Cost/Funding

Funding Source: Customer water rates

Cost:

Project Cost: \$400,000

Funding Decision:

Funding FY 03/04 Project Cost \$275,000

Funding FY04-05 Project Cost \$125,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 02-03-076

Title/Description: Field Crew GIS Access Computers
Category: TMWA-Customer Service
Ranking: Essential; Contingency
Fiscal Year: 2004-2008

Impact:

TMWA deployed field computers for all Servicemen, Inspectors, and Crew Foreman. These computers allow field crews to locate services and other infrastructure without returning to the office to review paper maps. This productivity enhancement allows crews to continue work in the field and reduce trip time. Also work orders can be closed out from the field. These computers are for new positions. Provisions are made in the remaining four years for replacements if required. The present computers have proved their durability in the field.

Cost/Funding

Funding Source: Customer water rates

Cost:

Project Cost: \$81,000

Funding Decision:

| | | |
|------------------|--------------|----------|
| Funding FY 02/03 | Project Cost | \$21,000 |
| Funding FY 04/05 | Project Cost | \$15,000 |
| Funding FY 05/06 | Project Cost | \$15,000 |
| Funding FY 06/07 | Project Cost | \$15,000 |
| Funding FY 07/08 | Project Cost | \$15,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 03-04-077

Title/Description: Meter Reading Equipment
Category: TMWA-Customer Service
Ranking: Deferrable
Fiscal Year: 2004

Impact:

TMWA currently contracts with SPPCo for meter reading services. TMWA has begun to take over meter reading in certain service areas and routes. This equipment will allow TMWA to reduce the cost of meter charges by SPPCo to TMWA.

Cost/Funding

Funding Source: Customer water rates

Cost:
Project Cost: \$25,000

Funding Decision:
Funding FY 03/04 Project Cost \$25,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 03-04-078

Title/Description: Leasehold Improvements
Category: TMWA-Customer Service
Ranking: Deferrable
Fiscal Year: 2004-2008

Impact:

TMWA has provided for minor leasehold modifications if the TMWA board approves new personnel positions. TMWA present location is at capacity so further additions of staff may require certain leasehold modifications. The present lease is expected to terminate June 11,2005. TMWA will limit any modifications made to the present facilities and only if they are essential.

Cost/Funding

Funding Source: Customer water rates

Cost:
Project Cost: \$25,000

Funding Decision:
Funding FY 03/04 Project Cost \$25,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 03-04-079

Title/Description: New Business Meters
Category: TMWA-Customer Service
Ranking: Essential
Fiscal Year: 2004-2008

Impact:

As new services are required to be metered, meters are purchased by TMWA and installed by TMWA at customer/developer request. The meters are paid by the individual/entity requesting service.

Cost/Funding

Funding Source: New business revenue – Meter installs

Cost:

Project Cost: \$2,500,000

Funding Decision:

| | | |
|------------------|--------------|-----------|
| Funding FY 03/04 | Project Cost | \$500,000 |
| Funding FY 04/05 | Project Cost | \$500,000 |
| Funding FY 05/06 | Project Cost | \$500,000 |
| Funding FY 06/07 | Project Cost | \$500,000 |
| Funding FY 07/08 | Project Cost | \$500,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 02-07-080

Title/Description: Small Service Meter Replacements, less than 3"
Category: TMWA-Customer Service
Ranking: Essential
Fiscal Year: 2004-2008

Impact:

Residential meter replacements are required annually. Meters have an expected service life of fifteen years. Field investigations have confirmed that many meters are not registering usage accurately, as meters age they slow down. To protect revenue stream TMWA has proposed to step up meter replacements not only to standardize meter equipment but also protect revenue streams. Meters less than 3" in size are primarily for small commercial and residential premises.

Cost/Funding

Funding Source: Customer water rates

Cost:

Project Cost: \$5,000,0000

Funding Decision:

Funding FY 03/04 Project Cost \$1,000,000

Funding FY 04/05 Project Cost \$1,000,000

Funding FY 05/06 Project Cost \$1,000,000

Funding FY 06/07 Project Cost \$1,000,000

Funding FY 07/08 Project Cost \$1,000,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 02-07-81

Title/Description: Large Meter Replacements, greater than or equal to 3"
Category: TMWA-Customer Service
Ranking: Essential
Fiscal Year: 2004-2008

Impact:

As with residential water meters, commercial water meters have a life expectancy of ten to fifteen years. All commercial services are metered. TMWA and local governments risk significant revenue losses if meters are not replaced in a systematic fashion. TMWA moved aggressively in fiscal year 2002-2003 to replace non-registering or poorly registering meters. This effort has been demonstrated to be effective. Annual efforts from fiscal year 2003-2004 will not be required to be at fiscal year 2002-2003 levels

Cost/Funding

Funding Source: Customer water rates

Cost:

Project Cost: \$1,500,000

Funding Decision:

Funding FY 03/04 Project Cost \$300,000

Funding FY 04/05 Project Cost \$300,000

Funding FY 05/06 Project Cost \$300,000

Funding FY 06/07 Project Cost \$300,000

Funding FY 07/08 Project Cost \$300,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 03-06-082

Title/Description: GIS System Mapping Project
Category: TMWA-Transportation-IT-General
Ranking: Essential
Fiscal Year: 2004-2006

Impact:

TMWA is committed to fully use GIS technology to improve field crew productivity, engineering design productivity and participation in the Regional Base Map Committee. TMWA made significant inroads in mapping the system in fiscal year 2002-2003. TMWA envisions at least two and one half years to complete the full inventory of system infrastructure including valve locations and fire hydrant locations. This allows TMWA to not rely on institutional knowledge of facility locations and will assist in valve exercising programs and fire hydrant maintenance. Sierra Pacific Resources failed to update water system maps for new subdivisions. TMWA is now current with new infrastructure maps but holes still exist requiring further investigation.

Cost/Funding

Funding Source: Customer water rates

Cost:

Project Cost: \$350,000

Funding Decision:

Funding FY 03/04 Project Cost \$200,000

Funding FY 04/05 Project Cost \$100,000

Funding FY 05/06 Project Cost \$50,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-04-083**

Title/Description: Administrative PC's and Network Upgrades
Category: TMWA-Administration-Operations
Ranking: Required
Fiscal Year: 2004-2008

Impact:

TMWA will implement a PC refresh program similar to the local governments. TMWA has 130 PC's in service with approximately ¼, or 33, to be changed out each year. Spending would be determined on an as needed basis. TMWA has completed a full inventory of all IT equipment. Many older Micron PC's exist that are no longer supportable. About 21 of these computers are to be replaced. The replacement will be computers that are networked. A large part of the budget is dedicated to obtain various software to operate the TMWA network (ORACLE applications, Microsoft exchange software).

Cost/Funding

Funding Source: Customer water rates

| | | | |
|---|--|--------------|----------|
| Cost: Project Cost: \$385,000 | Funding Decision: Funding FY 03/04 | Project Cost | \$85,000 |
| | Funding FY 04/05 | Project Cost | \$75,000 |
| | Funding FY 05/06 | Project Cost | \$75,000 |
| | Funding FY 06/07 | Project Cost | \$75,000 |
| | Funding FY 07/08 | Project Cost | \$75,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-04-084**

Title/Description: Engineering Computer/Software Upgrades
Category: TMWA-Engineering
Ranking: Required
Fiscal Year: 2004-2008

Impact:

TMWA performs a significant amount of design functions for the development community. TMWA is reimbursed for these services. TMWA provides the most up to date equipment and software for engineering design, hydraulic modeling to serve the customer. Computers that are replaced in engineering are trickled down to other users. TMWA is also purchasing new H2O net software to assist engineers in complex hydraulic modeling.

Cost/Funding

Funding Source: Customer water rates

| | |
|-------------------------|---|
| Cost: | Funding Decision: |
| Project Cost: \$423,000 | Funding FY 03/04 Project Cost \$103,000 |
| | Funding FY 04/05 Project Cost \$80,000 |
| | Funding FY 05/06 Project Cost \$80,000 |
| | Funding FY 06/07 Project Cost \$80,000 |
| | Funding FY 07/08 Project Cost \$80,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-04-085**

Title/Description: Water Resource Computer Software
Category: TMWA-Water Resources
Ranking: Required
Fiscal Year: 2004-2008

Impact:

Water Resources oversees GPS and GIS applications of TMWA. Also Water Resources requires software to link the ORCOM AS 400 data with ORACLE to model revenue elasticity to rate change and model revenue. TMWA will perform rate analyses in-house to avoid very expensive consulting contracts. Provision has been made for replacement of Leica GPS units, which are heavily used, in the system-mapping project. Also GIS mapping work requires very high powered hardware which may be subject to replacement.

Cost/Funding

Funding Source: Customer water rates

| | |
|-------------------------|--|
| Cost: | Funding Decision: |
| Project Cost: \$274,400 | Funding FY 03/04 Project Cost \$74,400 |
| | Funding FY 04/05 Project Cost \$50,000 |
| | Funding FY 05/06 Project Cost \$50,000 |
| | Funding FY 06/07 Project Cost \$50,000 |
| | Funding FY 07/08 Project Cost \$50,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 03-04-086

Title/Description: Phone System
Category: TMWA-Transportation-IT-General
Ranking: Essential
Fiscal Year: 2004

Impact:

TMWA is currently under the umbrella of the phone contract SPPCo has with MCI. When this contract expires TMWA will not be able to take advantage of the call volume discounts that SPPCo experiences. Consequently TMWA will not be in a better negotiating position with respect to phone rates. TMWA is planning to purchase a phone system that is portable and allow TMWA to have more lines than currently available. This project has been carried over from fiscal year 2002-2003. TMWA is currently out of phone lines.

Cost/Funding

Funding Source: Customer water rates

Cost:
Project Cost: \$135,000

Funding Decision:
Funding FY 03/04 Project Cost \$135,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 03-04-087

Title/Description: Furniture
Category: TMWA-Transportation-IT-General
Ranking: Deferrable
Fiscal Year: 2003-2008

Impact:

A provision is made in each of the five plan years for furniture purchases. This amount should cover furniture for new employees as well as replacements at the plants. Spending in this area would only be on an as needed basis.

Cost/Funding

Funding Source: Customer water rates

| | |
|---|--|
| Cost: Project Cost: \$135,000 | Funding Decision: Funding FY 03/04 Project Cost \$35,000 Funding FY 04/05 Project Cost \$25,000 Funding FY 05/06 Project Cost \$25,000 Funding FY 06/07 Project Cost \$25,000 Funding FY 07/08 Project Cost \$25,000 |
|---|--|

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 04-05-088

Title/Description: Dump Trucks 12.5 yd
Category: TMWA-Transportation-IT-General
Ranking: Required
Fiscal Year: 2004-2005, and 2006-2007

Impact:

TMWA employs dump trucks to move backhoes to water main leak sites, meter retrofit sites and other tasks. Dump truck/backhoe equipment configurations are essential for efficient field tasks. TMWA does not require a new dump truck in fiscal year 03-04. Each year a needs assessment is performed with these vehicles as to whether they require replacement.

Cost/Funding

Funding Source: Customer water rates

Cost:

Project Cost: \$260,000

Funding Decision:

Funding FY 04/05 Project Cost \$130,000

Funding FY 06/07 Project Cost \$130,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 02-07-089

Title/Description: Backhoe Trailers
Category: TMWA-Transportation-IT-General
Ranking: Required
Fiscal Year: 2004-2005 and 2005-2006

Impact:

In addition to new dump trucks, backhoe trailers are required for backhoe transportation. This reduces travel time and excessive wear of backhoes. TMWA expects to be replacing backhoe trailers in later fiscal years. No trailer is required in the fiscal year 03-04 budget. Replacements will be only on an as needed basis.

Cost/Funding

Funding Source: Customer water rates

Cost:

Project Cost: \$30,000

Funding Decision:

Funding FY 04/05 Project Cost \$15,000

Funding FY 05/06 Project Cost \$15,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 03-04-090

Title/Description: Light Crew Trucks Cab & Chassis
Category: TMWA-Transportation-IT-General
Ranking: Required
Fiscal Year: 2004-2008

Impact:

Five light crew cabs and chassis will be purchased each year if required. In fiscal year 2003-2004 two vehicles will be purchased for two new servicemen and three planned replacements as conditions may warrant. Five vehicles will be purchased while eight vehicles are slated for disposal through combined auctioning with City of Reno disposals. TMWA will experience a net decrease in the fleet primarily old and obsolete vehicles (1990-1995) in fiscal year 2003-2004. These vehicles have high maintenance costs and low availabilities.

Cost/Funding

Funding Source: Customer water rates

| | |
|-------------------------|---|
| Cost: | Funding Decision: |
| Project Cost: \$625,000 | Funding FY 03/04 Project Cost \$125,000 |
| | Funding FY 04/05 Project Cost \$125,000 |
| | Funding FY 05/06 Project Cost \$125,000 |
| | Funding FY 06/07 Project Cost \$125,000 |
| | Funding FY 07/08 Project Cost \$125,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 03-04-091

Title/Description: Light Crew Truck Improvements
Category: TMWA-Transportation-IT-General
Ranking: Required
Fiscal Year: 2004-2008

Impact:

Light crew trucks will require improvements such as heavy utility boxes, parts storage and compressors. The maximum amount of improvements for each new light crew vehicle is expected to be \$20k each. TMWA makes every effort to transfer such equipment from chassis to chassis. Expenditures are made only on an as needed basis.

Cost/Funding

Funding Source: Customer water rates

| | |
|-------------------------|---|
| Cost: | Funding Decision: |
| Project Cost: \$500,000 | Funding FY 03/04 Project Cost \$100,000 |
| | Funding FY 04/05 Project Cost \$100,000 |
| | Funding FY 05/06 Project Cost \$100,000 |
| | Funding FY 06/07 Project Cost \$100,000 |
| | Funding FY 07/08 Project Cost \$100,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 05-06-092**

Title/Description: Heavy Crew Trucks Cab & Chassis
Category: TMWA-Transportation-IT-General
Ranking: Required
Fiscal Year: 2005-2006:2007-2008

Impact:

TMWA has evaluated its need for additional heavy crew vehicles and has determined that additional vehicles will not be required until 2005-2006 based upon present usage. In the previous CIP an annual provision was made each year to replace at least one heavy crew truck. An evaluation of these vehicles indicates that TMWA can defer purchase for a couple of years.

Cost/Funding

Funding Source: Customer water rates

| | |
|------------------------|--|
| Cost: | Funding Decision: |
| Project Cost: \$90,000 | Funding FY 05/06 Project Cost \$45,000 |
| | Funding FY 07/08 Project Cost \$45,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 05-06-093**

Title/Description: Heavy Crew Truck Improvements
Category: TMWA-Transportation-IT-General
Ranking: Required
Fiscal Year: 2005-2006; 2007-2008

Impact:

TMWA has evaluated its need for additional heavy crew vehicles and has determined that additional vehicles will not be required until 2005-2006 based upon present usage. In the previous CIP an annual provisions was made each year to replace at least one heavy crew truck. Evaluation of these vehicles indicates that TMWA can defer purchase for a couple of years.

Cost/Funding

Funding Source: Customer water rates

| | |
|-------------------------|--|
| Cost: | Funding Decision: |
| Project Cost: \$100,000 | Funding FY 05/06 Project Cost \$50,000 |
| | Funding FY 07/08 Project Cost \$50,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-04-094**

Title/Description: TMWA Website Development
Category: Customer Service/Conservation
Ranking: Essential
Fiscal Year: 2003-2004

Impact:

The Truckee Meadows Water Authority is committed to public outreach. One of the most effective communication tools is the Internet. Development of a in-depth web site informs the public of the many facets of TMWA especially in the area of conservation and customer service. Also TMWA engineering design standards are found on the website assisting developers with TMWA requirements. This amount has been carried forward from fiscal year 2002-2003. The website provides consistent information to the public.

Cost/Funding

Funding Source: Customer water rates

| | | | |
|---------------------|--|--------------------------|-----------------------|
| Cost: | | Funding Decision: | |
| Operating: \$50,000 | | Funding FY 02/03 | Project Cost \$50,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary **Project #: 03-04-095**

Title/Description: Security Vulnerability Assessment Project
Category: TMWA-Transportation-IT-General
Ranking: Essential
Fiscal Year: 2004-2005

Impact:

TMWA has performed a vulnerability assessment with grant support from the Department of Environmental Protection. This assessment outlined various security improvements that TMWA will move forward with at TMWA locations. Also increasing security of TMWA's computer network and databases is considered vital.

Cost/Funding

Funding Source: Customer water rates

| | | | | |
|--------------|-------------|--------------------------|--------------|-----------|
| Cost: | | Funding Decision: | | |
| Operating: | \$1,172,500 | Funding FY 03/04 | Project Cost | \$672,500 |
| | | Funding FY 04-05 | Project cost | \$500,000 |

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**

Project Summary

Project #: 03-04-096

Title/Description: New TMWA Facilities
Category: TMWA-Transportation-IT-General
Ranking: Essential
Fiscal Year: 2004-2005

Impact:

TMWA has evaluated a number of options for future housing of TMWA distribution crews, customer service, engineering, water planning, and administrative functions. TMWA has eliminated certain options and concluded that a new facility would be operationally and financially efficient and the lowest cost option for TMWA customers. The CIP assumes that TMWA would construct these facilities. TMWA has not precluded other financing options at this time.

Cost/Funding

Funding Source: Customer water rates

Cost:

Operating: \$7,500,000

Funding Decision:

Funding FY 03/04 Project Cost \$2,000,000

Funding FY 04-05 Project cost \$5,500,000

**TRUCKEE MEADOWS WATER AUTHORITY
FY 2004-2008 CAPITAL IMPROVEMENT PLAN**