

City of Bentonville, Arkansas

Wastewater Department

**Capital
Improvement
Projects
FY 2007-2011**

Dept	Project Title	Year	Rank	Amount
Wastewater	Sludge Storage Renovation	2007	1	\$ 400,000
Wastewater	Broadband installation	2007	2	\$ 25,000
Wastewater	Compost Screen	2007	3	\$ 69,000
Wastewater	Truck with crane	2007	4	\$ 90,000
Wastewater	Generator	2007	5	\$ 33,500
Wastewater	Fence at Compost Facility	2007	6	\$ 30,000
Wastewater	Furniture	2007	7	\$ 9,100
Wastewater	Chemical Storage for Alum	2008	1	\$ 15,000
Wastewater	Generator - South Lift Statio	2008	2	\$ 36,000
Wastewater	Building for pump storage	2008	3	\$ 400,000
Wastewater	Shed for recycle station	2008	4	\$ 54,000
Wastewater	Grinder - Influent Channel	2008	5	\$ 50,000
Wastewater	Truck compact	2008	6	\$ 16,000
Wastewater	Biosolid Dewatering System	2009	1	\$ 800,000
Wastewater	Wood Grinder	2009	2	\$ 260,000
Wastewater	Truck compact	2009	3	\$ 14,000
Wastewater	Vehicle - Sedan	2009	4	\$ 16,000
Wastewater	Truck - Tanker	2009	5	\$ 40,000
Wastewater	Front end loader	2010	1	\$ 95,000
Wastewater	Truck - Dump	2011	1	\$ 50,000
Wastewater	Truck -1/2 ton	2011	2	\$ 20,000
Wastewater	Truck 4x4 pickup	2011	3	\$ 16,000
Wastewater	Backhoe	2011	4	\$ 55,000
Wastewater	Windrow Turner	2011	5	\$ 220,000
Wastewater	Truck 3/4 ton pick-up	2011	6	\$ 20,000
Wastewater	Truck - compact	2011	7	\$ 14,000
				\$ 2,847,600

City of Bentonville

Project Detail Sheet

CIP: 2007 - 2011

Department: Wastewater

Year: 2007

Project Title: Sludge Storage Renovation

Rank: 1

Category: Improvement

Project Location: Wastewater Treatment Plant

Project Status: New project

Est. Cost: \$ 400,000

Funding: Utility

Description and Justification:

Existing sludge drying beds are no longer suited to current use. The surface has deteriorated over the years and needs to be replaced with a more functional system. This price includes the engineering, design and construction of the storage surface and a dumping bay for water and sewer Vac-con equipment.

Relationship to mission and values:

To maintain the structures at the treatment plant to optimize performance.

Relationship to the General Plan:

We were sited by ADEQ for solids that could have escaped containment in existing beds.

Revised: June 2006

City of Bentonville

Project Detail Sheet

CIP: 2007 - 2011

Department: Wastewater

Year: 2007

Project Title: Broadband installation

Rank: 2

Category: Improvement

Project Location: Wastewater Treatment Plant

Project Status: New project

Est. Cost: \$ 25,000

Funding: Utility Fund

Description and Justification:

A broadband or fiber optic connection is necessary to support SCADA software for more reliable real time monitoring and pump control at McKisic. This will also provide connectivity of Compost facility and plant maintenance shop to City computer system by the server at the plant.

Relationship to mission and values:

To provide for an orderly, economic expansion of the utilities to meet projected demands. City of Bentonville wastewater is a key ingredient to growth.

Relationship to the General Plan:

This project supports the "General Plan" in improving current infrastructure to meet the needs of growth within the City of Bentonville.

Revised: March 2005

City of Bentonville
Project Detail Sheet
CIP: 2007 - 2011

Department: Wastewater **Year:** 2007
Project Title: Compost Screen **Rank:** 3
Category: Additional
Project Location: Wastewater Compost Facility
Project Status: N/A **Est. Cost:** \$ 69,000
Funding: Utility Fund

Description and Justification:

This unit will allow year round screening capabilities. At this time we rent a screen from Boston Mountian Solid Waste on a every other month deal. It is lacking in proper maintenance and needs repair often. We have been given a \$24,000 grant from Benton County Solid Waste to add towards the purchase of this screen. Grant \$24,000 + City \$69,000 =Total cost \$93,000. We spent \$3,500 on screen rental in 2005.

Relationship to mission and values:

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Relationship to the General Plan:

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Revised: March 2005

City of Bentonville

Project Detail Sheet

CIP: 2007 - 2011

Department: Wastewater

Year: 2007

Project Title: Truck with crane

Rank: 4

Category: Additional

Project Location: Wastewater Treatment

Project Status: N/A

Est. Cost: \$ 90,000

Funding: Utility fund

Description and Justification:

4X4 Cab and Chassis 325 HP engine, 6.0 liter V8 Power Stroke Diesel. Crane will be added to lift larger pumps.

Relationship to mission and values:

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Relationship to the General Plan:

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Revised: March 2005

City of Bentonville

Project Detail Sheet

CIP: 2007 - 2011

Department: Wastewater

Year: 2007

Project Title: Generator

Rank: 5

Category: Replacement

Project Location: North Lift Station

Project Status: N/A

Est. Cost: \$ 33,500

Funding: Utility Fund

Description and Justification:

The existing generator is over 20 years old. It is no longer in production and parts are no long available. The North station has limited wet well space and cannot withstand prolonged power outages without overflowing.

Relationship to mission and values:

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Relationship to the General Plan:

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Revised: March 2005

City of Bentonville

Project Detail Sheet

CIP: 2007 - 2011

Department: Wastewater

Year: 2007

Project Title: Fence at Compost Facility

Rank: 6

Category: Additional

Project Location: Wastewater Compost Facility

Project Status: N/A

Est. Cost: \$ 30,000

Funding: Utility Fund

Description and Justification:

The fence will provide a visual barrier for the N.W. "A" side of the compost facility. This will be a wooden fence with brick columns to coordinate with the nearby neighborhood.

Relationship to mission and values:

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Relationship to the General Plan:

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Revised: March 2005

City of Bentonville

Project Detail Sheet

CIP: 2007 - 2011

Department: Wastewater

Year: 2007

Project Title: Furniture

Rank: 7

Category: Additional

Project Location: Wastewater Treatment Plant

Project Status: N/A

Est. Cost: \$ 9,100

Funding: Utility Fund

Description and Justification:

This furniture is for the additional training space and secretaries office. It includes chairs, tables and file cabinets.

Relationship to mission and values:

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Relationship to the General Plan:

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Revised: March 2005

City of Bentonville

Project Detail Sheet

CIP: 2007 - 2011

Department: Wastewater

Year: 2008

Project Title: Chemical Storage for Alum

Rank: 1

Category: Additional

Project Location: Wastewater Treatment

Project Status: N/A

Est. Cost: \$ 15,000

Funding: Utility Fund

Description and Justification:

A large chemical storage tank will be needed to store Alum used for the chemical percipitation of Phosphorus.

Relationship to mission and values:

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Relationship to the General Plan:

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Revised: March 2005

City of Bentonville
Project Detail Sheet
CIP: 2007 - 2011

Department: Wastewater **Year:** 2008
Project Title: Generator - South Lift Station **Rank:** 2

Category: Replacement

Project Location: South Lift Station

Project Status: N/A **Est. Cost:** \$ 36,000

Funding: Utility

Description and Justification:

The existing generator is an older model that will need to be replaced. This station is a pivotal location and must be in operation in the case of prolonged power outages.

Relationship to mission and values:

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Relationship to the General Plan:

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Revised: March 2005

City of Bentonville

Project Detail Sheet

CIP: 2007 - 2011

Department: Wastewater

Year: 2008

Project Title: Building for pump storage

Rank: 3

Category: Additional

Project Location: Wastewater Treatment Plant

Project Status: New project

Est. Cost: \$ 400,000

Funding: Utility Fund

Description and Justification:

50 X 50 additional storage for spare equipment from lift stations and treatment plant. This price includes design and construction.

Relationship to mission and values:

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Relationship to the General Plan:

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Revised: March 2005

City of Bentonville
Project Detail Sheet
CIP: 2007 - 2011

Department: Wastewater **Year:** 2008

Project Title: Shed for recycle station **Rank:** 4

Category: Additional

Project Location: Wastewater Compost Facility

Project Status: New project **Est. Cost:** \$ 54,000

Funding: Utility Fund

Description and Justification:

The construction of a shed at the compost facility will provide space to shelter additional recycling containers. The additional containers will help meet the public demand for increased recycling efforts.

Relationship to mission and values:

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Relationship to the General Plan:

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Revised: March 2005

City of Bentonville
Project Detail Sheet
CIP: 2007 - 2011

Department: Wastewater **Year:** 2008

Project Title: Grinder - Influent Channel **Rank:** 5

Category: Additional

Project Location: Wastewater Treatment Plant

Project Status: N/A **Est. Cost:** \$ 50,000

Funding: Utility Fund

Description and Justification:

The grinder will be in the influent channel to reduce larger particles into a more managable size. This will help with rag and debris problems in further treatment.

Relationship to mission and values:

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Relationship to the General Plan:

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Revised: March 2005

City of Bentonville

Project Detail Sheet

CIP: 2007 - 2011

Department: Wastewater **Year:** 2008
Project Title: Truck compact **Rank:** 6
Category: Replacement
Project Location: Wastewater Treatment Plant
Project Status: N/A **Est. Cost: \$** 16,000
Funding: Utility Fund

Description and Justification:
This vehicle meets the criteria for replacement. 1998 F150 pick-up #525-15

Relationship to mission and values:
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Relationship to the General Plan:
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Revised: March 2005

City of Bentonville

Project Detail Sheet

CIP: 2007 - 2011

Department: Wastewater

Year: 2009

Project Title: Biosolid Dewatering System

Rank: 1

Category: Replacement

Project Location: Wastewater Treatment Plant

Project Status: N/A

Est. Cost: \$ 800,000

Funding: Utility Fund

Price from:

Description and Justification:

This is a Komlin-Sanderson 2.5 meter belt press installed in 1989. It is one of the major components in the treatment and ultimate disposal of Biosolids. No matter which option we use for disposal, sludge must be dewatered first. The demand for this equipment makes it necessary to keep an updated model available.

Relationship to mission and values:

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Relationship to the General Plan:

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Revised: March 2005

City of Bentonville

Project Detail Sheet

CIP: 2007 - 2011

Department: Wastewater

Year: 2009

Project Title: Wood Grinder

Rank: 2

Category: Additional

Project Location: Wastewater Compost Facility

Project Status: N/A

Est. Cost: \$ 260,000

Funding: Utility Fund

Description and Justification:

Currently the City is paying a contractor \$360 per hour to grind the greenwaste collected at the compost facility. A grinder onsite will enable employees to grind on a regular schedule. This will help with storage area shortage. We spent \$56,000 in 2005.

Relationship to mission and values:

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Relationship to the General Plan:

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Revised: March 2005

City of Bentonville

Project Detail Sheet

CIP: 2007 - 2011

Department: Wastewater

Year: 2009

Project Title: Truck compact

Rank: 3

Category: Additional

Project Location: Wastewater Treatment Plant

Project Status: N/A

Est. Cost: \$ 14,000

Funding: Utility Fund

Description and Justification:

Additional vehicles are needed for maintenance and operations personnel to be able to maintain peak performance. Trucks are shared at this time but increase in lift stations and time spent on projects taking employees away from the plant increases the need for additional transportation.

Relationship to mission and values:

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Relationship to the General Plan:

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Revised: March 2005

City of Bentonville

Project Detail Sheet

CIP: 2007 - 2011

Department: Wastewater **Year:** 2009
Project Title: Vehicle - Sedan **Rank:** 4
Category: Replacement
Project Location: Wastewater Treatment Plant
Project Status: N/A **Est. Cost:** \$ 16,000
Funding: Utility Fund

Description and Justification:
This is a replacement of #525-16. 1999 Dodge Intrepid. This vehicle meets the criteria for replacement.

Relationship to mission and values:
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Relationship to the General Plan:
This project supports the "General Plan" in improving current infrastructure to meet the needs of growth within the City of Bentonville.

Revised: March 2005

City of Bentonville

Project Detail Sheet

CIP: 2007 - 2011

Department: Wastewater

Year: 2009

Project Title: Truck - Tanker

Rank: 5

Category: Replacement

Project Location: Wastewater Treatment Plant

Project Status: N/A

Est. Cost: \$ 40,000

Funding: Utility Fund

Description and Justification:

This is a 1983 tanker truck originally used for the transportation of liquid sludge to farmland for application. It is currently used in the plant to clean out scum tanks and at lift stations to remove unwanted water in locations not accessible to other equipment. This vehicle meets the criteria for replacement. City vehicle #525-04.

Relationship to mission and values:

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Relationship to the General Plan:

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Revised: March 2005

City of Bentonville

Project Detail Sheet

CIP: 2007 - 2011

Department: Wastewater

Year: 2010

Project Title: Front end loader

Rank: 1

Category: Replacement

Project Location: Wastewater Compost Facility

Project Status: N/A

Est. Cost: \$ 95,000

Funding: Utility Fund

Description and Justification:

Replacement of 2000 621 Case front end loader used at the Compost Facility. It is used to transport greenwaste, woodchips, sludge and finished compost. This unit meets the criteria for replacement.

Relationship to mission and values:

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Relationship to the General Plan:

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Revised: March 2005

City of Bentonville

Project Detail Sheet

CIP: 2007 - 2011

Department: Wastewater **Year:** 2011
Project Title: Truck - Dump **Rank:** 1
Category: Replacement
Project Location: Wastewater Compost Facility
Project Status: N/A **Est. Cost: \$** 50,000
Funding: Utility Fund

Description and Justification:
1998 Ford 2 ton Dump truck #525-14 meets the criteria for replacement.

Relationship to mission and values:
To provide for an orderly, economic expansion of the utilities to meet projected demands. City of Bentonville wastewater is a key ingredient to growth.

Relationship to the General Plan:
This unit is used to transport sludge to storage and to compost facility.

Revised: March 2005

City of Bentonville

Project Detail Sheet

CIP: 2007 - 2011

Department: Wastewater **Year:** 2011
Project Title: Truck -1/2 ton **Rank:** 2
Category: Replacement
Project Location: Wastewater Treatment Plant
Project Status: N/A **Est. Cost: \$** 20,000
Funding: Utility Fund

Description and Justification:
#525-22 2001 1/2 ton Dodge truck with toolbox meets criteria for replacement. This unit is used for the monitoring and maintenance of lift stations.

Relationship to mission and values:
To provide for an orderly, economic expansion of the utilities to meet projected demands. City of Bentonville wastewater is a key ingredient to growth.

Relationship to the General Plan:
This project supports the "General Plan" in improving current infrastructure to meet the needs of growth within the City of Bentonville.

Revised: March 2005

City of Bentonville

Project Detail Sheet

CIP: 2007 - 2011

Department: Wastewater

Year: 2011

Project Title: Truck 4x4 pickup

Rank: 3

Category: Replacement

Project Location: Wastewater Treatment Facility

Project Status: N/A

Est. Cost: \$ 16,000

Funding: Utility Fund

Description and Justification:

#3030-05 2002 Chevrolet 4X4 pick-up truck meets the criteria for replacement. This unit is used by the maintenance department for the monitoring and maintenance of lift stations.

Relationship to mission and values:

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Relationship to the General Plan:

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Revised: March 2005

City of Bentonville

Project Detail Sheet

CIP: 2007 - 2011

Department: Wastewater **Year:** 2011
Project Title: Backhoe **Rank:** 4
Category: Replacement
Project Location: Wastewater Treatment Plant
Project Status: N/A **Est. Cost:** \$ 55,000
Funding: Utility Fund

Description and Justification:

This equipment meets the criteria for replacement. 2001 New Holland Backhoe #3030-03

Relationship to mission and values:

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Relationship to the General Plan:

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Revised: March 2005

City of Bentonville

Project Detail Sheet

CIP: 2007 - 2011

Department: Wastewater

Year: 2011

Project Title: Windrow Turner

Rank: 5

Category: Replacement

Project Location: Wastewater Compost Facility

Project Status: N/A

Est. Cost: \$ 220,000

Funding: Utility Fund

Description and Justification:

This is a 2000 model. It is the most critical piece of equipment at compost. #525-22

Relationship to mission and values:

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Relationship to the General Plan:

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Revised: March 2005

City of Bentonville

Project Detail Sheet

CIP: 2007 - 2011

Department: Wastewater **Year:** 2011
Project Title: Truck 3/4 ton pick-up **Rank:** 6
Category: Replacement
Project Location: Wastewater Treatment Plant
Project Status: N/A **Est. Cost:** \$ 20,000
Funding: Utility Fund

Description and Justification:
#525-17 Replacement of 1999 Dodge 3/4 ton pick-up. Vehicle meets criteria for replacement.

Relationship to mission and values:
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Relationship to the General Plan:
This project supports the "General Plan" in improving current infrastructure to meet the needs of growth within the City of Bentonville.

Revised: March 2005

City of Bentonville

Project Detail Sheet

CIP: 2007 - 2011

Department: Wastewater **Year:** 2011
Project Title: Truck - compact **Rank:** 7
Category: Replacement
Project Location: Wastewater Treatment Plant
Project Status: N/A **Est. Cost:** \$ 14,000
Funding: Utility Fund

Description and Justification:
#3030-01 Replacement of 2001 Dodge Ram. This vehicle meets the criteria for replacement.

Relationship to mission and values:
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Relationship to the General Plan:
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Revised: March 2005