

**Winchester Municipal Utilities
2018-19 Five-Year Capital Plan
Projected Unencumbered Depreciation Fund Balance**

	Fund Activity	Fund Balance
Projected Unencumbered Fund Balance		
Current Actual Cash Balance, 4-30-18	2,569,931	
Plus: Collection of Utility Revenues	356,000	
Plus: Collection of Tap Fees	10,000	
Plus: Interest Income	2,100	
Less: Funds Allocated to Specific Projects (carryover)	(2,648,050)	
Less: Funds Allocated to Routine/Emergency	(188,000)	
Projected Unencumbered Fund Balance, 6-30-18		101,981
Fiscal 2018-19		
Revenue Transfers	1,984,248	
Tap Fees	30,000	
Interest Income	8,000	
Routine and Emergency Projects (PP&E)	(275,000)	
Identified Capital Projects	(1,835,700)	
	<u>(88,452)</u>	<u>13,529</u>
Fiscal 2019-20		
Revenue Transfers	2,004,090	
Tap Fees	30,000	
Interest Income	6,000	
Routine and Emergency Projects (PP&E)	(275,000)	
Identified Capital Projects	(1,718,500)	
	<u>46,590</u>	<u>60,119</u>
Fiscal 2020-21		
Revenue Transfers	2,024,131	
Tap Fees	30,000	
Interest Income	6,000	
Routine and Emergency Projects (PP&E)	(275,000)	
Identified Capital Projects	(1,570,500)	
	<u>214,631</u>	<u>274,751</u>
Fiscal 2021-22		
Revenue Transfers	2,044,373	
Tap Fees	30,000	
Interest Income	6,000	
Routine and Emergency Projects (PP&E)	(275,000)	
Identified Capital Projects	(1,570,500)	
	<u>234,873</u>	<u>509,623</u>
Fiscal 2022-23		
Revenue Transfers	2,064,816	
Tap Fees	30,000	
Interest Income	6,000	
Routine and Emergency Projects (PP&E)	(275,000)	
Identified Capital Projects	(1,570,500)	
	<u>255,316</u>	<u>764,940</u>

**Winchester Municipal Utilities
2018-19 Five-Year Capital Plan
Depreciation Funded Capital Projects**

Reference Page	2017-2018		Five-Year Capital Plan					Capital Plan	
	Release	Carryover	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	5-Year	Total
14	2,510	0	500	500	500	500	500	2,500	2,500
	2,510	0	500	500	500	500	500	2,500	2,500
15	0	103,761	25,000	25,000	25,000	25,000	25,000	125,000	228,761
	0	103,761	25,000	25,000	25,000	25,000	25,000	125,000	228,761
16	273,497		150,000	150,000	150,000	150,000	150,000	750,000	1,023,497
17	9,840		12,000	12,000	12,000	12,000	12,000	60,000	69,840
18	4,528		10,000	10,000	10,000	10,000	10,000	50,000	54,528
19	358,758		100,000	100,000	100,000	100,000	100,000	500,000	858,758
20	56,262		300,000	300,000	300,000	300,000	300,000	1,500,000	1,556,262
21	2,747		30,000	30,000	30,000	30,000	30,000	150,000	152,747
22	16,000		50,000	50,000	50,000	50,000	50,000	250,000	250,000
23			12,500					12,500	16,000
24			18,500					18,500	12,500
25	0	721,633	683,000	652,000	652,000	652,000	652,000	3,291,000	4,012,633
	0	721,633	683,000	652,000	652,000	652,000	652,000	3,291,000	4,012,633
26	229,908		150,000	150,000	150,000	150,000	150,000	750,000	979,908
27	45,655		20,000	20,000	20,000	20,000	20,000	100,000	145,655
28	56,625		20,000	20,000	20,000	20,000	20,000	100,000	156,625
29	16,262		10,000	10,000	10,000	10,000	10,000	50,000	66,262
30	66,529		18,000	18,000	18,000	18,000	18,000	90,000	156,529
31	117,880		60,000	60,000	60,000	60,000	60,000	300,000	417,880
32	40,000							0	40,000
	0	572,858	278,000	278,000	278,000	278,000	278,000	1,390,000	1,962,858
	0	572,858	278,000	278,000	278,000	278,000	278,000	1,390,000	1,962,858

900 - Solid Waste Recycling
Recycling Containers
Total Department 900

1200 - Water Supply/Treatment
Water Treatment Plant Equipment Improvements
Total Department 1200

1300 - Water Transmission/Distribution
Main Replacement Program (MRP) - Water
Fire Hydrant Replacement
Gate Valve Replacement
Elevated Storage Tank Rehabilitation
Meter Change-Out/AMR Equipment
New Meter Services
Large Meter Change-Out Program
Purchase of Backhoe Front Mount Angle Sweeper
Meter Reading Handheld Unit (2)
Electrical Rear Gate
Total Department 1300

1500 - Wastewater Collection
Main Replacement Program (MRP) - Sewer
I&I Rehabilitation
Rehabilitation of Private Sewers
Flow Meters (EPA CMOM Requirement)
Continuous Sewer System Asmt Program
Routine Hydraulic Cleaning
Purchase of Sewer Inspection Camera & Equipment
Total Department 1500

**Winchester Municipal Utilities
2018-19 Five-Year Capital Plan
Depreciation Funded Capital Projects**

Reference Page	2017-2018		Five-Year Capital Plan					Capital Plan	
	Release	Carryover	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	5-Year	Total
1600 - Wastewater Treatment - SC									
33		6,576	2,000	2,000	2,000	2,000	2,000	10,000	16,576
34		202,788	60,000	60,000	60,000	60,000	60,000	300,000	502,788
	0	209,363	62,000	62,000	62,000	62,000	62,000	310,000	519,363
1700 - Wastewater Solids Processing - SC									
35		450,364	65,000	65,000	65,000	65,000	65,000	325,000	775,364
36			73,200					73,200	73,200
37		28,000	71,000	58,000				129,000	157,000
	0	478,364	209,200	123,000	65,000	65,000	65,000	527,200	1,005,564
1800 - Wastewater Treatment - LHC									
38		52,714	40,000	40,000	40,000	40,000	40,000	200,000	252,714
	0	52,714	40,000	40,000	40,000	40,000	40,000	200,000	252,714
1900 - Wastewater Solids Processing - LHC									
39		35,275	15,000	15,000	15,000	15,000	15,000	75,000	110,275
40			90,000	90,000				180,000	180,000
	0	35,275	105,000	105,000	15,000	15,000	15,000	255,000	290,275
Total Funded Projects	32,510	2,648,050	1,835,700	1,718,500	1,570,500	1,570,500	1,570,500	8,285,700	10,913,750
Summary									
Administrative, Engineering, & Operations			348,000	348,000	348,000	348,000	348,000	1,740,000	2,123,470
Vehicle Maintenance	30,000	383,470	0	0	0	0	0	0	0
Solid Waste Utility	2,510	90,612	85,500	85,500	85,500	85,500	85,500	427,500	518,112
Water Utility	0	825,394	708,000	677,000	677,000	677,000	677,000	3,416,000	4,241,394
Wastewater Utility	0	1,348,574	694,200	608,000	460,000	460,000	460,000	2,682,200	4,030,774
Total Funded Projects	32,510	2,648,050	1,835,700	1,718,500	1,570,500	1,570,500	1,570,500	8,285,700	10,913,750

**Winchester Municipal Utilities
2018-19 Five-Year Capital Plan
Depreciation Funded Annual Allocations**

	2017-18 Plan	2018-19 Plan	Change
200 - Finance and Administration			
Copiers	5,000	5,000	0
Upgrade Local Area Network	7,000	7,000	0
Replace Microcomputers	6,000	6,000	0
400 - Field Operation			
Large Utility Vehicles	250,000	250,000	0
Small Utility Vehicles	80,000	80,000	0
600 - Solid Waste Collection			
Curbit Replacement	25,000	25,000	0
Container Replacement	50,000	50,000	0
Replace Compactor Ejector Receiver Box	10,000	10,000	0
900 - Solid Waste Recycling			
Recycling	1,000	500	(500)
1200 - Water Treatment Plant			
Water Treatment Plant Equipment Improvements	50,000	25,000	(25,000)
Water System Improvements	50,000	0	(50,000)
1300 - Water Transmission/Distribution			
Main Replacement Program (MRP)	100,000	150,000	50,000
Fire Hydrant Replacement	12,000	12,000	0
Gate Valve Replacement	10,000	10,000	0
Elevated Storage Tank Rehabilitation	100,000	100,000	0
Meter Change-Out / AMR Equipment	230,000	300,000	70,000
New Meter Services	30,000	30,000	0
Large Meter Change-Out Program	0	50,000	50,000
1500 - Wastewater Collection			
Main Replacement Program (MRP)	100,000	150,000	50,000
I&I Rehabilitation	20,000	20,000	0
Rehabilitation of Private Sewers	20,000	20,000	0
Flow Meters (EPA CMOM Requirement)	10,000	10,000	0
Continuous Sewer System Assessment Program	18,000	18,000	0
Routine Hydraulic Cleaning	60,000	60,000	0
1600 - Wastewater Treatment Plant (SC)			
Replacement of Laboratory Equipment	2,000	2,000	0
WWTP Equipment Improvements	407,000	60,000	(347,000)
1700 - Wastewater Solids Processing (SC)			
Solids Processing Improvements	297,000	65,000	(232,000)
1800 - Wastewater Treatment Plant (LHC)			
Annual Allocation for Equipment Improvements	40,000	40,000	0
1900 - Wastewater Solids Processing (LHC)			
Annual Allocation for Equipment Improvements	15,000	15,000	0
Total	<u>2,005,000</u>	<u>1,570,500</u>	<u>(434,500)</u>
Summary			
Administrative Support	18,000	18,000	0
Infrastructure Renewal	1,987,000	1,552,500	(434,500)
	<u>2,005,000</u>	<u>1,570,500</u>	<u>(434,500)</u>

**Winchester Municipal Utilities
2018-19 Five-Year Capital Plan
Capital Project Detail Information**

Name:	Annual Allocation of WWTP Equipment Improvements
Department:	1600 - Strodes Creek (SC) Wastewater Treatment
Category:	Replacement / Improvement
Funding Source:	Depreciation - Annual Allocation

Description: WWTP Equipment Improvements

Justification: As the wastewater treatment plant ages, electrical improvements and repairs are needed as well as equipment improvements.

Estimate of Total Cost (\$):	
Annual Allocation - WWTP Equipment Improvements	\$ 60,000
Total Estimated Cost	<u>\$ 60,000</u>

Budget Allocation by Year (\$):	
Carryover from Prior Plan	\$ 202,788
2018-19 (year 1)	60,000
2019-20 (year 2)	60,000
2020-21 (year 3)	60,000
2021-22 (year 4)	60,000
2022-23 (year 5)	60,000
Total Included in Plan	<u>\$ 502,788</u>

Operating Cost Impact:
Lower operations and maintenance costs.

**Winchester Municipal Utilities
2018-19 Five-Year Capital Plan
Capital Project Detail Information**

Name:	Annual Allocation for Equipment Improvements
Department:	1700 - Strodes Creek (SC) Solids Processing Facility
Category:	Replacement / Improvement
Funding Source:	Depreciation - Annual Allocation

Description: Solids Processing Facility Equipment Improvements.

Justification: The Solids Processing Facility has been in operation for nearly seventeen years. The process equipment is showing signs of wear and is starting to require more repairs and/or replacements. The drain lines need to be expanded from a 6" to a 12" line. A new conveyor is needed and replacement of flow control valves as failure occurs. Door mechanisms at the facilities have deteriorated and need replacement.

Estimate of Total Cost (\$):		
Annual Allocation - Solids Processing Equipment Improvements	\$	65,000
Total Estimated Cost	<u>\$</u>	<u>65,000</u>

Budget Allocation by Year (\$):		
Carryover from Prior Plan	\$	450,364
2018-19 (year 1)		65,000
2019-20 (year 2)		65,000
2020-21 (year 3)		65,000
2021-22 (year 4)		65,000
2022-23 (year 5)		65,000
Total Included in Plan	<u>\$</u>	<u>775,364</u>

Operating Cost Impact:
Lower operations and maintenance costs.

**Winchester Municipal Utilities
2018-19 Five-Year Capital Plan
Capital Project Detail Information**

Name:	Concrete Road Repairs / Improvements
Department:	1700 - Strodes Creek (SC) Solids Processing Facility
Category:	Replacement / Improvement
Funding Source:	Depreciation - Annual Allocation

Description: Over the next several years, make repairs to damaged roadways, expand corners to better accommodate heavy equipment, and expand the truck loading area beside the sludge bay.

Justification: The concrete roadways leading to and from the facility are in need of repairs due to excessive heavy truck traffic. Expanding the truck loading area will allow us to maximize our storage capacity and will better accommodate tractor trailers if needed. Projects are listed in order of priority.

Estimate of Total Cost (\$):

Annual Allocation - Concrete Road Repairs/Improvements	\$	157,000
Year 1: Repairs and Corner Expansions	28,000	
Year 2: Loading Bay Expansion	71,000	
Year 3: Repairs to the Corner between Admin & Aeration Bldg.	58,000	
Total Estimated Cost	<u>\$</u>	<u>157,000</u>

Budget Allocation by Year (\$):

Carryover from Prior Plan	\$	28,000
2018-19 (year 1)		71,000
2019-20 (year 2)		58,000
2020-21 (year 3)		
2021-22 (year 4)		
2022-23 (year 5)		
Total Included in Plan	<u>\$</u>	<u>157,000</u>

Operating Cost Impact:
Lower operations and maintenance costs.