

Blue Plains WWTP: Liquid Train Projects, Part 2

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000022.06	954811	Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Bi-County 30
Planning Areas	Bi-County

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision											
Land											
Construction	357,675		18,264	280,540	27,075	40,351	43,260	55,680	58,436	55,738	58,871
Other	3,307		183	2,535		404	433	557	584	557	589
Total	360,982		18,447	283,075	27,075	40,755	43,693	56,237	59,020	56,295	59,460

C. Funding Schedule (000's)

WSSC Bonds	341,191		17,444	267,519	25,434	38,540	41,318	53,180	55,812	53,235	56,228
City of Rockville	19,791		1,003	15,556	1,641	2,215	2,375	3,057	3,208	3,060	3,232

D. Description & Justification

DESCRIPTION

This project provides funding for WSSC Water's share of Blue Plains liquid process train projects for which construction began after June 30, 1993. This project is comprised of 24 projects that have been identified and prioritized by DC Water in their capital program. Projects with significant spending in FY'26 include: upgrades to the grit, screening, and primary treatment systems (BQ); upgrading effluent filters (IY); replacing/upgrading the primary clarifier mechanical components (J2); improvements to the headworks influent structures (BC); nitrification reactors/sedimentation upgrades (PE); liquid process rehabilitation (RN); and liquid processing PM (A2); and a rehab of the nitrification/sedimentation process - 20 year rebuild (LF).

BENEFIT

Regulatory & Other Agreements: This project is required to meet regulatory requirements, multi-jurisdictional agreements, and/or consent decrees; Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life

JUSTIFICATION

This is a continuation of the DC Water's upgrading of the Blue Plains Wastewater Treatment Plant. Blue Plains Inter-Municipal Agreement of 2012; DCWASA Master Plan (1998); Blue Plains Facilities Master Plan (2016); DC Water's preliminary FY'25 - FY'34 Capital Improvements Program.

COST CHANGE

The schedule and expenditure projections were updated to reflect the latest estimates available from DC Water for the constituent Blue Plains joint-use projects as of April 2024.

OTHER

The project scope has remained the same. Project costs are derived from the DC Water Capital Budget 10-year forecast of spending and DC Water's latest project management data, and fully reflect DC Water's cost estimates and expenditure schedules available at the time this document was prepared. Given the open-ended nature of the Blue Plains projects, this PDF does not fully reflect the total project costs. These projects are, in fact, expected to continue indefinitely. As new sub-projects are added to the Blue Plains facility plans, the associated costs will be added to this project. The funding schedule also indicates the calculated Rockville share of the cost.

COORDINATION

Coordinating Agencies: City of Rockville;(responsible for a share of funding); DC Water;(responsible for design and construction)
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	\$16,614	
Total Cost	\$16,614	
Impact on Water and Sewer Rate	\$0.04	

F. Approval and Expenditure Data (000's)

Date First in Program	FY'95
Date First Approved	FY'95
Initial Cost Estimate	
Cost Estimate Last FY	387,893
Present Cost Estimate	360,982
Approved Request Last FY	18,447
Total Expense & Encumbrances	
Approval Request Year 1	27,075

G. Status Information

Land Status	Not Applicable
Project Phase	On-Going
Percent Complete	0 %
Estimated Completion Date	On-Going

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	169.6 / 370 MGD

H. Map

