

Worksession

MEMORANDUM

March 12, 2025

TO: Transportation & Environment Committee

FROM: Keith Levchenko, Senior Legislative Analyst

SUBJECT: **Amendments to the FY25-30 Capital Improvements Program – Recycling and Resource Management (RRM) CIP¹**

PURPOSE: To review and make recommendations to the Council on FY25-30 amendments to the Recycling and Resource Management (RRM) CIP

NOTE: Expenditures in the RRM CIP are funded with Solid Waste Disposal Fund Current Revenue and Revenue Bonds with the debt service paid for with Solid Waste Disposal Fund Current Revenue. Therefore, expenditures in the RRM CIP do not affect the County's Spending Affordability Guidelines for General Obligation Bonds or General Current Revenue.

Summary

- Total Approved FY25-30 Six-Year CIP is \$69.4 million (a combination of Solid Waste Disposal Fund Bonds and Current Revenue)
- The Amended FY25-30 CIP recommended by the County Executive is \$77.9 million.
- The County Executive's recommended amendments include:
 - Cost increase of \$1.7 million to the Oaks Landfill Leachate Pre-Treatment project to address PFAS and PFOS mitigation
 - Project delay in the Full Upgrade of the Existing Recycling Center Complex because of additional design work required. No change in total project cost at this time, but \$6.8 million in costs moved into the FY25-30 period from FY24.
- A recommendation from the County Executive for capital work for the Resource Recovery Facility (RRF) is expected to be transmitted as part of the County Executive's March 15, 2025 Operating Budget recommendations.

Council Staff recommends approval of the amendments as recommended by the County Executive

¹ Key words: #DEP, Recycling and Resource Management

Meeting Participants

- Jeff Seltzer, Deputy Director, Department of Environmental Protection (DEP)
- Willie Wainer, Chief, Recycling and Resource Management (DEP)
- Vicky Wan, Chief, Strategic Services, DEP
- Rich Harris, Fiscal and Policy Analyst, Office of Management and Budget

Attachments to this Memorandum

- Excerpts from the County Executive's Recommended FY26 Capital Budget and Amendments to the FY25-30 Capital Improvements Program (©1-7)
- Approved FY23-28 RRM CIP Project Description Forms (©8-15)

Summary

The Approved FY25-30 CIP for Recycling and Resource Management (RRM) consists of four projects:

- Oaks Landfill Leachate Pretreatment Plant Retrofitting (Amended PDF on ©5, Approved PDF on ©14-15)
- Full Upgrade of Existing Recycling Center Complex (Amended PDF on ©6-7, Approved PDF on ©8-9)
- Gude Landfill Remediation (Approved PDF on ©10-11)
- New Organics Processing Facility (Approved PDF on ©12-13)

As shown below, the approved total cost for these projects is \$121.3 million with \$69.4 million in expenditures included in the Approved RRM FY25-30 CIP. The approved expenditures are funded entirely from within the Solid Waste Disposal Fund with a combination of revenue bonds (about \$62 million) and Solid Waste Disposal Fund Current Revenue (about \$7.4 million).

Table #1:
Table #1: RRM FY25-30 Approved CIP and Amended FY25-30 CE Recommended (in 000s)

Expenditures	Through Six-Year			FY25	FY26	FY27	FY28	FY29	FY30
	Total	FY24	Total (000)						
FY25-30 Approved	121,266	51,875	69,391	23,205	27,478	18,708	-	-	-
CE Amended FY25-30	122,954	45,046	77,908	21,516	30,954	20,478	4,960	-	-
change from approved	1,688	(6,829)	8,517			1,770	4,960	-	-
percent change from approved	1.4%	-13.2%	12.3%	0%	0%	9%			

The County Executive's recommended amendments include:

- Cost increase of \$1.7 million to the Oaks Landfill Leachate Pre-Treatment project to address PFAS and PFOS mitigation (with Solid Waste Disposal Fund Current Revenue)
- Project delay in the Full Upgrade of the Existing Recycling Center Complex because of additional design work required. No change in total project cost at this time, but \$6.8 million in costs moved into the FY25-30 period from FY24. (Revenues adjusted to include both Revenue Bonds and Solid Waste Disposal Fund Current Revenue).

NOTE: Not reflected in the above amendments are capital costs for the Resource Recovery Facility (RRF) associated with the contract extension to 2031 (as discussed at a [Council briefing on January 28](#) and regarding [DEP's Aiming for Zero Waste initiatives and alternative disposal options currently under review](#)). This capital work is expected to be transmitted by the County Executive in conjunction with the March 15 transmittal of his Operating Budget recommendations.

Project Review

Oaks Landfill Leachate Pretreatment Plant Retrofitting (Amended PDF on ©5)

Expenditures	Through		Six-Year		FY25	FY26	FY27	FY28	FY29	FY30
	Total	FY24	Total (000)							
FY23-28 Amended	3,890		3,890		2,000	1,890				
FY25-30 CE Recommended	5,578		5,578		2,000	3,578				
change from approved	1,688	-	1,688		0	1,688	-	-	-	-
percent change from approved	43.4%	n/a	43.4%		0%	89%				

This project was approved last year as part of the FY25-30 CIP. It is funded with current revenue from the Solid Waste Disposal Fund.

The project provides for the installation of new and upgraded leachate pretreatment equipment at the closed Oaks Landfill site. The landfill, located in Laytonsville, opened in 1982 and closed in 1995 with the opening of the County's Resource Recovery Facility (RRF).

The County is required to provide post-closure care and maintenance of the landfill facilities and equipment per the Oaks Landfill Post-Closure Plan requirements established by the Maryland Department of the Environment (MDE).

Leachate is collected from the closed landfill, stored in lined lagoons, and then pumped to an on-site pre-treatment plant. After this treatment, the leachate is transported by truck for discharge into the permitted sanitary sewerage system.

This new equipment will replace the equipment that dates to the original landfill construction. Design and permitting work are expected to be completed during FY25 and construction completed in FY26.

The County Executive is recommending an amendment to add \$1.7 million in costs to address new regulatory requirements for PFAS and PFOS mitigation.

Council Staff recommends approval of this amendment as recommended by the County Executive.

Last year, DEP had noted that the maintenance building and warehouse on the site are in poor condition and will require substantial upgrades to achieve building code compliance and may be part of a future CIP project.

The Oaks landfill site is also the location of the County's largest solar energy system (5.4 megawatts). The facility is part of a community solar subscription service reserved for low- and moderate-income residents.

Full Upgrade of the Existing Recycling Center Complex (Recommended PDF on ©6-7)

Expenditures	Through		Six-Year		FY25	FY26	FY27	FY28	FY29	FY30
	Total	FY24	Total (000)							
FY25-30 Approved	27,630	7,422	20,208		8,518	6,730	4,960			
CE Amended FY25-30	27,630	593	27,037		6,829	8,518	6,730	4,960		
change from approved	-	(6,829)	6,829		(1,689)	1,788	1,770	4,960	-	-
percent change from approved	0.0%	-92.0%	33.8%		-20%	27%	36%			

This \$27.6 million project was approved several years ago as an amendment to the FY21-26 CIP. An amendment the FY23-28 CIP was approved two years ago to update the project cost (+\$6.3 million) based on machinery and other equipment cost increases.

The source of funds for the project is Solid Waste Disposal Fund current revenue for the planning, design, and supervision work and Solid Waste Disposal Fund Revenue Bonds for the construction/equipment costs.

The FY25-30 CIP assumed no cost increase nor change in scope for this project. However, the completion date was pushed back to FY27 (from FY25).

The project schedule has been impacted by the Facility Condition Assessment work required to finalize the scope of the project. This work was not originally envisioned when the project started.

The County Executive's amendment reflects production delays experienced in this project and a resulting later completion date (FY28). The current design schedule assumes 30 percent design completed in the Spring of 2025 (previously August 2024).

The project scope includes new equipment for the Materials Recovery Facility (MRF) that will substantially increase the processing capacity of the facility (from 80 tons per day to 200-240 tons per day). Minor modifications to the existing building are also included to increase storage capacity for both incoming and baled material. The design will allow for the future addition of "single stream" processing equipment to process recyclables from other jurisdictions.

The criticality of this project was noted by the [Aiming for Zero Waste Task Force](#). For more details on the project and its justification, please see the [May 12, 2021 Council Staff Report](#).

Council Staff recommends approval of this amendment as it reflects the latest status of the project.

Other Projects

The following projects are not recommended for amendment, so Council action is not required at this time. Council Staff has included them for informational purposes only.

Gude Landfill Remediation Expenditure Schedule (Approved PDF on ©10-11)

Expenditures	Total	Through	Six-Year	FY25	FY26	FY27	FY28	FY29	FY30
		FY24	Total (000)						
FY25-30 Approved	61,746	44,453	17,293	10,687	5,858	748			

This project provides for the planning and construction of a toupee cap (capping the top area) at the closed Gude Landfill to remediate low-level environmental contamination. The County and the Maryland Department of the Environment (MDE) entered into a consent order in May 2013 involving landfill assessment and remediation. For more background on the project, please see the [April 21, 2020 Council Staff Report](#) from the FY21-26 CIP review process and DEP's [Gude Landfill remediation project webpage](#).

The total project cost is \$61.7 million. The source of funds is a mix of Solid Waste Disposal Fund Current Revenue and Revenue Bonds. Construction began in January 2023 and is expected to be completed in FY27. The project cost includes installation of passive reuse amenities.

The project webpage notes:

Within the parameters of cap protection, the open space will offer a generous trail network, dog play area, children's nature play, 9-hole Disc Golf course, environmental art/sculpture; educational and wayfinding signage; and native meadow with habitat creation and enhancement. The preferred concept includes a potential future 25-acre solar field.

No action is required by the Council at this time.

New Organics Processing Facility (Approved PDF on ©12-13)

Expenditures	Total	Through	Six-Year	FY25	FY26	FY27	FY28	FY29	FY30
		FY24	Total (000)						
FY25-30 Approved	28,000		28,000	2,000	13,000	13,000			

This project (approved last year) provides for the conversion of the Montgomery County Composting Facility in Dickerson from a yard trim only composting facility to a facility that can also accept food scraps.

The construction costs (funded with Solid Waste Disposal Fund Revenue Bonds) shown for this project are placeholder dollars pending negotiations with the Sugarloaf Citizens Association to revise the current agreement governing the use of the site. Planning and design work is funded with Solid Waste Disposal Fund Current Revenue.

For further background on this project, please see the [May 8, 2024 Council Staff Report](#).

No action is required by the Council at this time.

Attachments

EXCERPT
County Executive's FY26 Recommended Capital
Budget and Amendments to the FY25-30 CIP
January 2025

(\$250,000 in State aid); Olney Community Building (\$5.0 million in State aid); Olney Satellite Police Station (\$1.1 million in State aid).

Maryland-National Capital Park and Planning Commission (M-NCPPC)

My recommended CIP funds the Maryland-National Capital Park and Planning Commission (M-NCPPC) CIP projects as requested, providing a total of \$313.2 million over the six-year period, with a minor adjustment for out-year inflation.

Housing Opportunities Commission

Affordable housing is one of my cornerstone policy priorities and a major focus of my administration. In all, the FY26 Capital Budget and FY25-30 Capital Improvements Program invests more than \$264 million to support affordable housing in our community. For the Housing Opportunities Commission, my recommended CIP provides \$7.5 million over the six-year period, and a total of \$89.4 million. Decisions regarding increasing cash contributions in the CIP (Current Revenue) for Elizabeth House Demolition and Cider Mill Capital Improvements will be made in the context of the March operating budget release.

Project Schedule Adjustments

My recommended CIP reflects project implementation delays for the Rockville Fire Station 3 Renovation, Child Care Renovations – ADA Remediation, Child Care Renovations – Child Care Facility Replacement, Child Care Renovations – Playgrounds, Library Refurbishment Level of Effort, Kennedy Shriver Aquatic Center Building Envelope Improvements, Recreation Facilities Refurbishment – Indoor Pools, Recreation Facilities Refurbishment – Centers, Recreation Facilities Refurbishment – Outdoor Pools, and Full Upgrade of Recycling Center Complex to reflect realistic implementation timelines for these projects. In addition, the Martin Luther King, Jr. Indoor Swim Center Renovation project schedule is adjusted to ensure that the facility remains open until the ongoing work on the Kennedy Shriver Aquatic Center indoor pool is complete to minimize disruption to indoor pool service for County residents. Changes to the 6th District Police Station project reflect project acceleration. Finally, schedule adjustments are assumed for the ABS Retail Store Refresh project to reflect an updated project timeline that is primarily the result of lease negotiations.

Unfortunately, due to cost pressures and impact tax revenue shortfalls mentioned above, it was necessary to delay the Outdoor Firearms Training Center and Summit Avenue Extension projects.

Project Savings

Prior year savings were realized from several projects including Clarksburg Fire Station,

- Dale Drive Shared Use Path and Safety Improvements
- MD 198 Sidewalk Improvements
- Norwood Road Shared Use Path

Finally, my recommended CIP adds funding to support the CASA Rockville Welcome Center and the Scotland AME Zion Church – 2nd Century Project which were not assessed by the CBET but are likely to advance racial equity.

Climate Change and Sustainability

To further integrate climate consideration into the FY26 Capital Budget and Amendments to the FY25-30 CIP, we piloted a climate change consideration process. The Climate Change Officer led a budget committee of subject matter experts from relevant departments. This committee qualitatively ranked FY26 CIP change or addition requests for: (1) the potential to reduce greenhouse gas emissions and (2) climate resilience benefits. Rankings were presented to the County Executive and considered as part of the budget decision making process.

My recommended CIP includes \$2.0 billion in funding for projects that advance our Climate Change goals. As previously noted, my recommended CIP adds a new project to replace the Brookville Depot HVAC system funded in part by Green Bank loan proceeds. In addition, this recommended CIP adds \$1.7 million to the Oaks Landfill Leachate Pretreatment Plant Retrofitting project due to new State rules on PFAS and PFOS. In the Energy Conservation: MCG project, \$2.0 million is accelerated in FY26 to allow some work to proceed ahead of the previously planned schedule that will further reduce energy use. The new Bus Rapid Transit: Flash Howard County Expansion project will reduce roadway congestion associated with inter-County commuter trips and reduce emissions associated with single-occupancy auto trips.

Set-Aside Considerations

Set-asides are annual funds that the County leaves unprogrammed to provide capacity to respond to unexpected needs and opportunities. The recommended capital budget assumes a six-year \$168.4 million set aside-aside with \$38.9 million available in FY25 and FY26. This represents a \$18.0 million increase over the six-year period in order to hold capacity for the Charles W. Woodward High School project when the State aid shortfall is known. I am also incorporating in my recommended CIP \$3.6 million of set-aside unallocated in FY24. In addition to the Charles W. Woodward High School project shortfall, higher set aside provides capacity to address possible future capital needs that may arise due to changes in Federal aid availability and from FY26 State budget challenges. Likewise, a number of transportation projects may require additional local funding which this set aside may be needed to support. We expect to receive a Federal funding recommendation this spring for the Bus Rapid Transit: Viers Mill project, which currently assumes an 80 percent Federal funding share. If Federal funding falls below this level, resources from the set aside may be needed. In addition, cost pressures in numerous other projects already in or nearing construction may require a future draw down of the set aside. Finally, Opportunity Lane funding currently programmed in the Bus Rapid Transit: 355 Central

FY 25-30 Biennial Recommended CIP
January Budget Amendments Summary (\$000s)
15-Jan-25

Project #	Project Name	Explanation of Adjustment	FY25-30 Change (\$000s)	Funding Sources
P451502	White Flint Fire Station 23	Adds escalation associated with Council's two-year deferral of construction in FY25.	7,923	G.O. Bonds, Recordation Tax Premium (MCG)
P362401	Judicial Security Improvements	Adds funds to support Phase 2 including installation of security walls and doors on the remaining floors; security devices, architectural and engineering fees, permits, and supervision.	1,292	G.O. Bonds, State Aid
P509132	Bridge Design	Adds funds for staff costs associated with the study of Randolph Road Rail Crossing Elimination alternatives.	75	Recordation Tax Premium (MCG)
P507658	Bus Stop Improvements	Adds Federal aid to develop Vision Zero standards for bus stops.	560	Federal Aid
P501914	North Bethesda Metro Station Northern Entrance	Adds \$5 million in a Federal aid awarded to the County in 2024 from the Transportation, Housing and Urban Development (THUD) Federal appropriation bill. Includes funding adjustment based on updated schedule from WMATA.	5,000	Federal Aid, G.O. Bonds
P507596	Bikeway Program Minor Projects	Cost increase needed to complete stormwater management design and approval with Parks staff and Department of Permitting Services.	150	G.O. Bonds
P501107	Goshen Road South	Adds Federal aid from the Transportation, Housing and Urban Development (THUD) Federal appropriation bill to support spot improvements.	845	Federal Aid, G.O. Bonds
P500338	Highway Noise Abatement	Adds State aid to conduct a noise abatement study for the intersection of the Intercounty Connector and New Hampshire Avenue.	250	State Aid
P802505	Oaks Landfill Leachate Pretreatment Plant Retrofitting	Cost increase is due to new State rules on PFAS and PFOS mitigation at landfills.	1,688	Current Revenue: Solid Waste Disposal
P720601	Cost Sharing: MCG	Funds added for CASA Rockville Welcome Center renovations and Scotland AME Zion Church 2nd Century Project.	2,900	Recordation Tax Premium (MCG)
P802202	Comprehensive Flood Management Plan	\$1.5 million shifted from the Implementation of the Comprehensive Flood Management Plan project plus additional cost increases to complete all watersheds planned for analysis.	1,902	Current Revenue: Water Quality Protection
P802507	Implementation of the Comprehensive Flood Management Plan	\$1.5 million shifted to the Comprehensive Flood Management Plan project so that all planned watersheds can be analyzed.	(1,500)	Current Revenue: Water Quality Protection
P808726	Stormwater Management Retrofit: Countywide	Cost increase to reflect three new upstream projects added to FY26.	2,310	Federal Aid, State Aid, Long-Term Financing,

Montgomery County Public Schools

P076506	Building Modifications and Program Improvements	Board of Education's request reflects savings of \$7 million in the prior to the 6-year period to address State aid shortfall in the Charles W. Woodward High School project and a reduction in FY26 for \$4 million.	(4,000)	G.O. Bonds
P652303	Early Childhood Center	Board of Education request to reduce placeholder costs in FY25-FY29 to fund other projects within their request. Sufficient funds are left to address the Burtonsville early childhood education center at the Burtonsville Elementary School.	(36,500)	G.O. Bonds
P816633	HVAC (Mechanical Systems) Replacement: MCPS	Board of Education request to replace the HVAC equipment in one more school. This includes a funding switch between GO bonds and State aid to reflect expenditures eligible for State aid in FY26.	4,500	G.O. Bonds, State Aid
P652101	Major Capital Projects - Elementary	Reflects the following cost changes: 1) Burnt Mills Elementary School - \$9.374 million acceleration of expenditures from FY25 into FY24; 2) Cold Spring Elementary School, Damascus Elementary School, Twinbrook Elementary School, and Whetstone Elementary School - \$3 million reduction in each project in FY30 allocated to projects with cost increases, based on Board of Education request; 3) Stonegate Elementary School - \$5.724 million acceleration of expenditures from FY25 into FY24; and 5) Woodlin Elementary School - \$10.177 million acceleration of expenditures from FY25 into FY24.	(37,275)	G.O. Bonds, State Aid

FY 25-30 Biennial Recommended CIP
January Budget Amendments Summary (\$000s)
15-Jan-25

Project #	Project Name	Explanation of Adjustment	FY25-30 Change (\$000s)	Funding Sources
P957775	Facility Planning: Local Parks	Updates the project description form to correct a technical error.	0	Current Revenue: M-NCPPC
P871747	M-NCPPC Affordability Reconciliation	Adjustments in this project are due to increases in inflation rates.	(24)	M-NCPPC Bonds

FY25-30 Implementation Acceleration/Delays & Other Schedule Adjustments

P010100	Council Office Building Renovations	Reflects acceleration of construction expenditures.	(353)	G.O. Bonds
P507834	Energy Conservation: MCG	Reflects schedule adjustment and supplemental appropriation in Utility Incentives for the amount of \$1,384,533.	1,385	G.O. Bonds, Utility Incentives
P361701	White Oak Science Gateway Redevelopment Project	Accelerate funding to support updated project timeline provided by new developer.	0	G.O. Bonds
P421100	Justice Center	Reflects minor project acceleration.	(9)	G.O. Bonds
P450105	Rockville Fire Station 3 Renovation	Funding deferred to FY27 due to project delays.	0	Current Revenue: Fire
P470301	6th District Police Station	Reflects project acceleration and a funding switch with GO bonds to program \$10 million in GO Bond Premium.	(4,019)	G.O. Bonds, G.O. Bond Premium
P472101	Outdoor Firearms Training Center	Project deferred beyond FY30 due to limited fiscal capacity.	(5,904)	G.O. Bonds
P501701	Dennis Ave Bridge M-0194 Replacement	Funding switch between GO bonds and Federal aid to facilitate expenditures against the Federal aid award incurred in FY24.	0	Federal Aid, G.O. Bonds
P502105	Garrett Park Road Bridge M-0352	Reflects minor project acceleration.	(4)	Federal Aid
P500914	Residential and Rural Road Rehabilitation	Acceleration of funds from FY25 to FY24.	(1,045)	G.O. Bonds, Recordation Tax Premium (MCG)
P509036	Transportation Improvements For Schools	Acceleration of \$84,000 from FY25 to FY24.	(84)	G.O. Bonds
P502311	Summit Avenue Extension	Project deferred beyond FY30 due to limited fiscal capacity.	(31,445)	G.O. Bonds
P802201	Full Upgrade of Existing Recycling Center Complex	Design delays slips the project timeline into the 6-year period, and \$3.562 million in Revenue Bonds is switched with CR: Disposal because the amount of bonds needed is not yet known and expenses are being accrued now.	6,829	Revenue Bonds, Current Revenue: Solid Waste Disposal
P602502	Child Care Renovations - ADA Remediation	Cost change is due to deferring some projects to the beyond 6-years period to reflect a more realistic implementation timeline.	(1,335)	G.O. Bonds
P602503	Child Care Renovations - Child Care Facility Replacement	Cost change is due to a significant cost increase in the Martin Luther King project and a deferral of expenditures to the beyond 6-year period.	(2,956)	G.O. Bonds
P602501	Child Care Renovations - Playgrounds	Cost change due to the net effect of updated estimates for Loan Oak Park and Woodlin Elementary School and project deferrals to reflect realistic implementation schedules.	(2,468)	G.O. Bonds
P602301	Diversion Center	State aid moved into the 6-year period to reflect revised implementation timelines after FY24 actuals.	253	State Aid



Oaks Landfill Leachate Pretreatment Plant Retrofitting (P802505)

Category	Recycling and Resource Management	Date Last Modified	12/27/24
SubCategory	Recycling and Resource Management	Administering Agency	Environmental Protection
Planning Area	Gaithersburg and Vicinity	Status	Under Construction

	Total	Thru FY24	Rem FY24	Total 6 Years	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	Beyond 6 Years
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EXPENDITURE SCHEDULE (\$000s)

Construction	5,578	-	-	5,578	2,000	3,578	-	-	-	-	-
TOTAL EXPENDITURES	5,578	-	-	5,578	2,000	3,578	-	-	-	-	-

FUNDING SCHEDULE (\$000s)

Current Revenue: Solid Waste Disposal	5,578	-	-	5,578	2,000	3,578	-	-	-	-	-
TOTAL FUNDING SOURCES	5,578	-	-	5,578	2,000	3,578	-	-	-	-	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 26 Request	1,688	Year First Appropriation	FY25
Cumulative Appropriation	3,890	Last FY's Cost Estimate	3,890
Expenditure / Encumbrances	-		
Unencumbered Balance	3,890		

PROJECT DESCRIPTION

The Oaks Landfill is approximately 545 acres with a waste disposal footprint of 170 acres. The Oaks Landfill Leachate Pretreatment started operations in 1995, 28 years ago, and has not undergone any renovations or retrofitting since the original construction. It is now in need of new and upgraded pretreatment equipment as the existing equipment is at or beyond their intended useful life. This project includes upgrading the existing facility to install new equipment for processing leachate and untreated stormwater from Countywide stormwater management facilities and address the two per- and polyfluoroalkyl (PFOA/PFOS) concentrations detected in leachate produced by the Oaks Landfill.

LOCATION

6001 Olney-Laytonville Road, Gaithersburg, Maryland, 20882

ESTIMATED SCHEDULE

All design work, including permitting, will be completed in FY25. Construction will be completed in FY26.

COST CHANGE

Project cost support improvements required to address new State requirements on PFAS and PFOS mitigation.

PROJECT JUSTIFICATION

The Oaks Landfill Leachate Pre-Treatment Plant still uses a 25-year-old processing system which is outdated and operating past its useful life. It also needs to be upgraded and retrofitted with new equipment to improve the wastewater treatment process and to accommodate the additional treatment capacity by expanding the existing oil/grit management facility to support the County's stormwater management maintenance.

This project is needed to protect public health and the environment through the pretreatment of landfill leachate that has the potential to negatively impact groundwater and surface water sources if not managed properly. The County is required to provide for post-closure care and maintenance of landfill facilities and their associated infrastructure, which includes the Leachate Pretreatment Plant.

COORDINATION

Maryland Department of the Environment, WSSC Water, Department of Permitting Services, the Maryland-National Capital Park and Planning Commission. This project will require Special Projects Legislation.



Full Upgrade of Existing Recycling Center Complex (P802201)

Category	Recycling and Resource Management	Date Last Modified	12/27/24
SubCategory	Recycling and Resource Management	Administering Agency	Environmental Protection
Planning Area	Rockville	Status	Under Construction

Total	Thru FY24	Rem FY24	Total 6 Years	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	Beyond 6 Years
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EXPENDITURE SCHEDULE (\$000s)

Planning, Design and Supervision	5,872	593	-	5,279	2,879	760	1,180	460	-	-	-
Construction	21,758	-	-	21,758	3,950	7,758	5,550	4,500	-	-	-
TOTAL EXPENDITURES	27,630	593	-	27,037	6,829	8,518	6,730	4,960	-	-	-

FUNDING SCHEDULE (\$000s)

Current Revenue: Solid Waste Disposal	4,372	593	-	3,779	2,879	600	240	60	-	-	-
Revenue Bonds	23,258	-	-	23,258	3,950	7,918	6,490	4,900	-	-	-
TOTAL FUNDING SOURCES	27,630	593	-	27,037	6,829	8,518	6,730	4,960	-	-	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 26 Request	-	Year First Appropriation	FY22
Cumulative Appropriation	27,630	Last FY's Cost Estimate	27,630
Expenditure / Encumbrances	720		
Unencumbered Balance	26,910		

PROJECT DESCRIPTION

This project will update the existing Material Recycling Center (MRF) with state-of-the-art equipment to increase commingled processing capacity to 200 - 240 tons per day (TPD). This includes a minor modification of the existing MRF building to increase storage capacity for both incoming and baled material. Equipment will be substantially replaced because the existing equipment is incompatible with modern recycling processing technology. An updated facility will have higher operation uptime (90% rather than the current 83%) and produce higher quality product that can receive higher prices in the market.

Features of the renovated facility include removing glass at the beginning of sorting to reduce wear and tear on equipment, improved sorting screens, optical sorting, high efficiency electric motors, and reduced reliance on labor for sorting. An upgrade to the facility's electrical capacity may be added if it is determined that the current facility cannot handle the load needed after the renovation. This design will allow for the future addition of single stream processing equipment within the existing facility to receive and process recyclables from other jurisdictions, if expansion to a regional concept is supported in an effort to improve the recycling program's cost-benefit ratio.

LOCATION

16103 Frederick Road, Derwood, Maryland, 20877

ESTIMATED SCHEDULE

A Facility Condition Assessment (FCA) revealed the need for a design change in the MRF project. Design of the upgrade continues in FY25, 30% design is expected to be complete in Spring 2025, and expenditures slipped into FY28. Construction solicitations and equipment fabrication, as well as permitting will need to be completed prior to construction. Installation and facility improvements are scheduled to start in FY27.

PROJECT JUSTIFICATION

The current commingled processing system at the MRF was installed in 1991 and upgraded in 2002 to process 10 tons per-hour (TPH) or 80 tons per day (TPD). Due to increased population, expanded material mix, and increased resident participation, the MRF currently receives 130 - 150 TPD of commingled material, almost double the current capacity. To keep up with the incoming volume, the MRF must export 40 - 45% of the commingled material received at an annual cost of approximately \$1.2 million.

After almost 30 years of operation, the majority of the current system components have operated beyond their useful life, causing frequent downtime and high repair and maintenance costs. Replacement parts are increasingly difficult to source for some equipment. This project's improvements will reduce operating costs, increase revenue from the sale of recyclables, increase processing efficiency, and continue to provide high quality recycling services to the County.

FISCAL NOTE

The Solid Waste Enterprise Fund is self-supporting through user fees, and revenue from the Solid Waste Enterprise Fund will be the source of repayment of the Solid Waste Revenue Bonds. In FY26, \$3,562,000 in Revenue Bonds is switched with Current Revenue: Solid Waste Disposal.

COORDINATION



Full Upgrade of Existing Recycling Center Complex

(P802201)

Category	Recycling and Resource Management	Date Last Modified	04/26/24
SubCategory	Recycling and Resource Management	Administering Agency	Environmental Protection
Planning Area	Rockville	Status	Under Construction

EXPENDITURE SCHEDULE (\$000s)

Cost Elements	Total	Thru FY23	Est FY24	Total 6 Years	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	Beyond 6 Years
Planning, Design and Supervision	3,380	160	820	2,400	760	1,180	460	-	-	-	-
Construction	24,250	-	6,442	17,808	7,758	5,550	4,500	-	-	-	-
TOTAL EXPENDITURES	27,630	160	7,262	20,208	8,518	6,730	4,960	-	-	-	-

FUNDING SCHEDULE (\$000s)

Funding Source	Total	Thru FY23	Est FY24	Total 6 Years	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	Beyond 6 Years
Current Revenue: Solid Waste Disposal	810	160	650	-	-	-	-	-	-	-	-
Revenue Bonds	26,820	-	6,612	20,208	8,518	6,730	4,960	-	-	-	-
TOTAL FUNDING SOURCES	27,630	160	7,262	20,208	8,518	6,730	4,960	-	-	-	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 25 Request	-	Year First Appropriation	FY22
Appropriation FY 26 Request	-	Last FY's Cost Estimate	27,630
Cumulative Appropriation	27,630		
Expenditure / Encumbrances	527		
Unencumbered Balance	27,103		

PROJECT DESCRIPTION

This project will update the existing Material Recycling Center (MRF) with state-of-the-art equipment to increase commingled processing capacity to 200 - 240 tons per day (TPD). This includes a minor modification of the existing MRF building to increase storage capacity for both incoming and baled material. Equipment will be substantially replaced because the existing equipment is incompatible with modern recycling processing technology. An updated facility will have higher operation uptime (90% rather than the current 83%) and produce higher quality product that can receive higher prices in the market.

Features of the renovated facility include removing glass at the beginning of sorting to reduce wear and tear on equipment, improved sorting screens, optical sorting, high efficiency electric motors, and reduced reliance on labor for sorting. An upgrade to the facility's electrical capacity may be added if it is determined that the current facility cannot handle the load needed after the renovation. This design will allow for the future addition of single stream processing equipment within the existing facility to receive and process

recyclables from other jurisdictions, if expansion to a regional concept is supported in an effort to improve the recycling program's cost-benefit ratio.

LOCATION

16103 Frederick Road, Derwood, Maryland

ESTIMATED SCHEDULE

A Facility Condition Assessment (FCA) revealed the need for a design change in the MRF project. Design of the upgrade continues in FY25. 30% design completion is expected to be completed in the fall. Equipment arrival and fabrication, as well as permitting will need to be complete prior to construction.

PROJECT JUSTIFICATION

The current commingled processing system at the MRF was installed in 1991 and upgraded in 2002 to process 10 tons per-hour (TPH) or 80 tons per day (TPD). Due to increased population, expanded material mix, and increased resident participation, the MRF currently receives 130 - 150 TPD of commingled material, almost double the current capacity. To keep up with the incoming volume, the MRF must export 40 - 45% of the commingled material received at an annual cost of approximately \$1.2 million.

After almost 30 years of operation, the majority of the current system components have operated beyond their useful life, causing frequent downtime and high repair and maintenance costs. Replacement parts are increasingly difficult to source for some equipment. This project's improvements will reduce operating costs, increase revenue from the sale of recyclables, increase processing efficiency, and continue to provide high quality recycling services to the County.

FISCAL NOTE

The Solid Waste Enterprise Fund is self-supporting through user fees, and revenue from the Solid Waste Enterprise Fund will be the source of repayment of the Solid Waste Revenue Bonds.

COORDINATION

Maryland Environmental Service, Department of Permitting Services. Special Capital Projects Legislation [Bill No. 23-21E] was adopted by Council in June 2021.



Gude Landfill Remediation

(P801801)

Category	Recycling and Resource Management	Date Last Modified	01/04/24
SubCategory	Recycling and Resource Management	Administering Agency	Environmental Protection
Planning Area	Upper Rock Creek Watershed	Status	Under Construction

EXPENDITURE SCHEDULE (\$000s)

Cost Elements	Total	Thru FY23	Est FY24	Total 6 Years	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	Beyond 6 Years
Planning, Design and Supervision	6,955	3,094	2,040	1,821	877	854	90	-	-	-	-
Site Improvements and Utilities	192	129	63	-	-	-	-	-	-	-	-
Construction	54,599	14,469	24,658	15,472	9,810	5,004	658	-	-	-	-
TOTAL EXPENDITURES	61,746	17,692	26,761	17,293	10,687	5,858	748	-	-	-	-

FUNDING SCHEDULE (\$000s)

Funding Source	Total	Thru FY23	Est FY24	Total 6 Years	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	Beyond 6 Years
Current Revenue: Solid Waste Disposal	22,700	17,692	5,008	-	-	-	-	-	-	-	-
Revenue Bonds	39,046	-	21,753	17,293	10,687	5,858	748	-	-	-	-
TOTAL FUNDING SOURCES	61,746	17,692	26,761	17,293	10,687	5,858	748	-	-	-	-

OPERATING BUDGET IMPACT (\$000s)

Impact Type	Total 6 Years	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30
Maintenance	2,871	-	-	711	720	720	720
NET IMPACT	2,871	-	-	711	720	720	720
FULL TIME EQUIVALENT (FTE)		-	-	-	-	-	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 25 Request	17,293	Year First Appropriation	FY18
Appropriation FY 26 Request	-	Last FY's Cost Estimate	61,746
Cumulative Appropriation	44,453		
Expenditure / Encumbrances	32,644		
Unencumbered Balance	11,809		

PROJECT DESCRIPTION

This project provides for the remediation of low-level environmental contamination at the Gude Landfill. The Maryland Department of the Environment (MDE) approved an Assessment of Corrective Measures (ACM) report for the Gude Landfill in July 2016 which specifically outlines the approved Corrective Measure Alternative (CMA) for this remediation project. The MDE approved CMA

will include toupee capping (regrading and capping the top of the landfill and selected slope areas with a synthetic liner and two feet of soil) and increased gas collection through the installation of additional gas extraction wells. These remediation measures will reduce infiltration of rainwater into the landfill resulting in the generation of less leachate, fewer leachate seeps, and better control of landfill gas migration.

LOCATION

600 E. Gude Drive, Rockville, Maryland

ESTIMATED SCHEDULE

The Gude Landfill Remediation project construction began in January 2023 and is scheduled to be completed in FY27.

PROJECT JUSTIFICATION

The County and MDE entered a consent order in May 2013 which outlined requirements for assessing low-level groundwater contamination, gas migration, and other problems at the Gude Landfill. The Consent Order included provisions requiring a Work Plan and schedule to be established for assessing potential risks to human health and the environment, and development of an ACM report and implementation schedule. After consultation with industry experts, community groups, MDE, and County government leadership, the Department of Environmental Protection's (DEP) initial proposal to MDE in 2014 addressed the low-level groundwater contamination at the site with installation of bioremediation wells on the property. MDE's assessment of this bioremediation corrective measure in April 2015 determined that additional corrective measures would need to be included in the bioremediation approach to address all of MDE's requirements. A revised ACM report was submitted to MDE in April 2016 addressing all of MDE's comments and selecting corrective measures consisting of a toupee cap, additional landfill gas collection, and stormwater drainage improvements. The County has been mandated to perform work outlined in the consent order. Moving forward with the remediation of Gude Landfill, as required by MDE, will also address concerns raised by the adjacent community and allow planning for future reuses of the property.

FISCAL NOTE

Solid Waste (Disposal Fund) Revenue Bonds will be issued to support this project. A mid-FY21 amendment reduced Current Revenue: Solid Waste Disposal by \$6,000,000 and increased Revenue Bonds by \$6,000,000.

COORDINATION

Northeast Maryland Waste Disposal Authority (NMWDA), Maryland Department of the Environment (MDE), Department of Permitting Services, Health and Human Services, the Maryland-National Capital Park and Planning Commission, the U.S. Army Corps of Engineers, the Gude Landfill Concerned Citizens (GLCC), County social service agencies, and adjacent property owners. Special Capital Projects Legislation [Bill No. 16-19E] was adopted by Council on October 20, 2020.



New Organics Processing Facility

(P802508)

Category	Recycling and Resource Management	Date Last Modified	05/16/24
SubCategory	Recycling and Resource Management	Administering Agency	Environmental Protection
Planning Area	Little Monacacy Basin Dickerson-Barnesville	Status	Preliminary Design Stage

EXPENDITURE SCHEDULE (\$000s)

Cost Elements	Total	Thru FY23	Est FY24	Total 6 Years	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	Beyond 6 Years
Planning, Design and Supervision	3,000	-	-	3,000	1,800	600	600	-	-	-	-
Site Improvements and Utilities	7,500	-	-	7,500	-	3,750	3,750	-	-	-	-
Construction	17,000	-	-	17,000	-	8,500	8,500	-	-	-	-
Other	500	-	-	500	200	150	150	-	-	-	-
TOTAL EXPENDITURES	28,000	-	-	28,000	2,000	13,000	13,000	-	-	-	-

FUNDING SCHEDULE (\$000s)

Funding Source	Total	Thru FY23	Est FY24	Total 6 Years	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	Beyond 6 Years
Current Revenue: Solid Waste Disposal	3,500	-	-	3,500	2,000	750	750	-	-	-	-
Revenue Bonds	24,500	-	-	24,500	-	12,250	12,250	-	-	-	-
TOTAL FUNDING SOURCES	28,000	-	-	28,000	2,000	13,000	13,000	-	-	-	-

OPERATING BUDGET IMPACT (\$000s)

Impact Type	Total 6 Years	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30
Maintenance	473	-	-	-	200	132	141
Energy	38	-	-	-	17	10	11
Program-Other	1,135	-	-	-	325	395	415
NET IMPACT	1,646	-	-	-	542	537	567

APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 25 Request	2,000	Year First Appropriation	
Appropriation FY 26 Request	13,000	Last FY's Cost Estimate	-
Cumulative Appropriation	-		
Expenditure / Encumbrances	-		
Unencumbered Balance	-		

PROJECT DESCRIPTION

Currently the County does not have a facility capable of accepting food scraps and other compostable organics. The existing County

Recycling and Resource Management

Yard Trim Compost Facility in Dickerson, MD could be modified to comply with MDE permit requirements. Modifications would include the installation of a Covered Aerated Static Pile ("CASP") system, improvements to storm water management structures and systems and the upgrade to the electrical service.

Any significant change in the operation of the Yard Trim Compost Facility would require an amendment of the Agreement of Settlement and Compromise between the County and Sugarloaf Citizens Association.

The construction dollars shown in this project are placeholder dollars based on initial information for modifying the County's Yard Trim Compost Facility to accept food scraps and other compostable organics.

FY25 Planning and Design expenditures may be used to develop potential scopes of work and cost estimates for building an organics processing facility at other locations in Montgomery County as well as to consider modifications needed at the Transfer Station to receive organics for transport to a future organics processing facility.

LOCATION

21210 Martinsburg Road, Dickerson, MD 20842

ESTIMATED SCHEDULE

Planning and design will begin in FY25.

PROJECT JUSTIFICATION

According to the 2023 Waste Composition Study, Compostable Organics make up 23% of the municipal solid waste (MSW) received at the transfer station. Of the 600,000 tons of MSW received at the transfer station each year, approximately 138,000 tons is compostable organics. Capturing the compostable organics and converting them into a high-quality soil amendment would reduce the total tons of waste processed at the Resource Recovery Facility and emit far less greenhouse gasses than landfilling.

FISCAL NOTE

The Solid Waste Enterprise Fund is self-supporting through user fees, and revenue from the Solid Waste Enterprise Fund will be the source of repayment of the Solid Waste Revenue Bonds.

DISCLOSURES

A pedestrian impact analysis will be performed during design or is in progress.

COORDINATION

Maryland Department of the Environment, Department of Permitting Services, Department of Finance, Department of Transportation, Office of the County Attorney, Office of Management and Budget, Sugarloaf Citizens Association



Oaks Landfill Leachate Pretreatment Plant Retrofitting

(P802505)

Category	Recycling and Resource Management	Date Last Modified	01/08/24
SubCategory	Recycling and Resource Management	Administering Agency	Environmental Protection
Planning Area	Gaithersburg and Vicinity	Status	Preliminary Design Stage

EXPENDITURE SCHEDULE (\$000s)

Cost Elements	Total	Thru FY23	Est FY24	Total 6 Years	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	Beyond 6 Years
Construction	3,890	-	-	3,890	2,000	1,890	-	-	-	-	-
TOTAL EXPENDITURES	3,890	-	-	3,890	2,000	1,890	-	-	-	-	-

FUNDING SCHEDULE (\$000s)

Funding Source	Total	Thru FY23	Est FY24	Total 6 Years	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	Beyond 6 Years
Current Revenue: Solid Waste Disposal	3,890	-	-	3,890	2,000	1,890	-	-	-	-	-
TOTAL FUNDING SOURCES	3,890	-	-	3,890	2,000	1,890	-	-	-	-	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 25 Request	3,890	Year First Appropriation	
Appropriation FY 26 Request	-	Last FY's Cost Estimate	-
Cumulative Appropriation	-		
Expenditure / Encumbrances	-		
Unencumbered Balance	-		

PROJECT DESCRIPTION

The Oaks Landfill is approximately 545 acres with a waste disposal footprint of 170 acres. The Oaks Landfill Leachate Pretreatment started operations in 1995, 28 years ago, and has not undergone any renovations or retrofitting since the original construction. It is now in need of new and upgraded pretreatment equipment as the existing equipment is at or beyond their intended useful life.

LOCATION

6001 Olney-Laytonville Road, Gaithersburg, MD 20882

ESTIMATED SCHEDULE

All design work, including permitting, will be completed in FY25. Construction will be completed in FY26.

PROJECT JUSTIFICATION

The Oaks landfill Leachate Pre-Treatment Plant still uses a 25-year-old processing system which is outdated and operating past its useful life. It also needs to be upgraded and retrofitted with new equipment to improve the wastewater treatment process and to accommodate the additional treatment capacity by expanding the existing oil/grit management facility to support the County's stormwater management maintenance.

This project is needed to protect public health and the environment through the pretreatment of landfill leachate that has the potential to negatively impact groundwater and surface water sources if not managed properly. The County is required to provide for post-closure care and maintenance of landfill facilities and their associated infrastructure, which includes the Leachate Pretreatment Plant.

FISCAL NOTE

Design for this project was funded in the FY23 and FY24 operating budgets.

COORDINATION

Maryland Department of the Environment (MDE), Washington Suburban Sanitary Commission, Department of Permitting Services, the Maryland National Capital Park and Planning Commission (MNCPPC) .

Recycling and Resource Management Division



DEPARTMENT OF
**ENVIRONMENTAL
PROTECTION**
MONTGOMERY COUNTY • MARYLAND

ADDENDUM
T&E COMMITTEE #1
March 17, 2025

T&E Committee Meeting – March 17, 2025

Oaks Landfill Leachate Pre-Treatment Plant Retrofitting Project



FACILITY HIGHLIGHTS

- PFAS detected in both influent and effluent.
- PFAS Benchscale Test Sampling conducted on November 14, 2024.
 - Results indicated that the Granular Activated Carbon (GAC) System would not be effective, and the processing system would not achieve the 4 PPT treatment goal.
 - Other technologies such as reverse osmosis (RO) wastewater treatment system including an ultra filtration (UF) are being evaluated currently.

CIP Funding Activity

- The CIP budget may need to be adjusted to accommodate costs associated with the recommended technology for PFAS.

Materials Recovery Facility (MRF) Upgrades Project



FACILITY HIGHLIGHTS

- 30% Basis of Design (BOD) received on March 7th and currently under review.
- 30% BOD includes the following contract design documents:
 - Contract A – Existing CCR System Demolition
 - Contract B – New CCR Processing System
 - Contract C – Building Modifications.
- 30% BOD also includes the Site Evaluation Report which includes project elements such as:
 - Traffic Circulation Improvements
 - Maintenance Building
 - Fire Protection System Upgrades
 - Site/Civil Improvements

CIP Funding Activity

- The CIP budget will be adjusted during the 60% BOD process to include any funding required for certain project elements.