

# (KG0) DEPARTMENT OF ENERGY AND ENVIRONMENT

## MISSION

The mission of the Department of Energy and Environment (DOEE) is to improve the quality of life for the residents and natural inhabitants of the nation's capital by protecting and restoring the environment, conserving our natural resources, mitigating pollution, increasing access to clean and renewable energy, and educating the public on ways to secure a sustainable future. The agency's core responsibilities include, but are not limited to, enforcing environmental regulations; monitoring and assessing environmental risks; developing energy and environmental policies; issuing permits; and providing residents and local businesses with funding, technical assistance, and information on initiatives designed to ensure a more resilient and sustainable city.

## BACKGROUND

DOEE is the leading authority on energy and environmental issues affecting the District of Columbia. Using a combination of regulations, outreach, education, and incentives, DOEE administers programs and services to fulfill the agency's mission. The agency works collaboratively with other government agencies, residents, businesses, and institutions to promote environmentally responsible behavior that will lead to a more sustainable urban environment.

## CAPITAL PROGRAM OBJECTIVE

DOEE envisions a nation's capital that sets the standard for environmentally responsible and sustainable practices. DOEE envisions a city whose rivers and waters are fishable and swimmable; whose buildings and infrastructure help protect our health and environment; and whose residents, businesses, and visitors embrace and employ smart environmental practices in their daily lives and work together to deliver a clean, healthy, and vibrant city to future generations

## RECENT ACCOMPLISHMENTS

- Restoration of Broad Branch Stream and daylighting of 1,600 foot section of Broad Branch—this was the first of its kind for the District.
- Restoration of a stream in Linnean Park using Regenerative Stream Channel approaches.
- Completion of 139 tree planting plans for DPR and DCPS parcels and the planting of 1,790 trees on these properties.
- Completion of the RiverSmart Washington project which installed practices to reduce stormwater volume runoff in two neighborhoods in northwest Washington.
- Completion of the O Street NW, green street including thirty roadway bioretention cells.
- Collection and analysis of more than 400 samples of surface and deep sediment, sediment pore water, and benthic invertebrate from the Anacostia River.
- Installation of 17 vapor migration systems in homes in Riggs Park.

## ONGOING AND CURRENT INITIATIVES

- Implementation of and funding for green stormwater infrastructure in public right-of-way, on District buildings, and residential properties.
- Funding for construction of green alleys, installation of roadside bioretention, and planting of trees to reach the District's tree canopy goal.
- Installation of residential rain barrels, rain gardens and permeable paving systems through DOEE's RiverSmart Homes program.
- Continuation of Nash Run Stream Restoration project (Anacostia Watershed).
- Continuation of Pope Branch Stream Restoration project (Anacostia Watershed).
- Construction for Klinge Trail (Rock Creek Watershed).
- Remedial investigation of the Anacostia River.

## PLANNED PROJECTS

- Installation of a trash capture device in a tributary to the Anacostia River.
- Restoration of a stream Alger Park and upland stormwater retrofits in the neighborhood surrounding the park (Anacostia Watershed).
- Planning for Oxon Run stream restoration effort.
- Design of Klinge Watershed green streets projects.
- Stormwater retrofits on DPR lands and DCPS school properties.
- Design and construction of a stream restoration project in Spring Valley (Potomac Watershed).
- Continuation of remedial investigation of Anacostia River sediments.

**Elements on this page of the Agency Summary include:**

- **Funding Tables:** Past budget allotments show the allotment balance, calculated as allotments received to date less all obligations (the sum of expenditures, encumbrances, intra-District advances and pre-encumbrances). Agencies are allowed to encumber and pre-encumber funds up to the limit of a capital project’s budget authority, which might be higher than allotments received to date. For this reason, a negative balance on a projectsheet does not necessarily indicate overspending or an anti-deficiency violation. A negative balance is permitted in this calculation of remaining allotment authority.
- **Additional Appropriations Data (\$000):** Provides a summary of the budget authority over the life of the project. The table can be read as follows:
  - › **Original 6-Year Budget Authority:** Represents the authority from the fiscal year in which budget was first appropriated through the next 5 years.
  - › **Budget Authority Thru FY 2021 :** Represents the lifetime budget authority, including the 6 year budget authority for FY 2016 through 2021
  - › **FY 2016 Budget Authority Revisions:** Represents the changes to the budget authority as a result of reprogramming, redirections and rescissions (also reflected in Appendix F) for the current fiscal year.
  - › **6-Year Budget Authority Thru 2021 :** This is the total 6-year authority for FY 2016 through FY 2021 including changes from the current fiscal year.
  - › **Budget Authority Request for 2017 through 2022 :** Represents the 6 year budget authority for 2017 through 2022
  - › **Increase (Decrease) :** This is the change in 6 year budget requested for FY 2017 - FY 2022 (change in budget authority is shown in Appendix A).
- **Estimated Operating Impact:** If a project has operating impacts that the agency has quantified, the effects are summarized in the respective year of impact
- **FTE Data (Total budget in FTE Table might differ from actual budget due to rounding):** Provides the number for Full Time Equivalent (FTE) employees approved as eligible to be charged to capital projects by, or on behalf of, the agency. Additionally it provides the total budget for these employees (Personal Services), the non personnel portion of the budget in the agency’s capital plan and, the percentage of the agency CIP budget from either expense category.
- **Facility Location Map:** For those agencies with facilities projects, a map reflecting projects and their geographic location within the District of Columbia.

(Dollars in Thousands)

| Phase   | Funding By Phase - Prior Funding |               |               |              |               | Proposed Funding |              |              |              |              |               |               |
|---|----------------------------------|---------------|---------------|--------------|---------------|------------------|--------------|--------------|--------------|--------------|---------------|---------------|
|   | Allotments                       | Spent         | Enc/ID-Adv    | Pre-Enc      | Balance       | FY 2017          | FY 2018      | FY 2019      | FY 2020      | FY 2021      | FY 2022       | 6 Yr Total    |
| (01) Design                                     | 1,100                            | 0             | 0             | 0            | 1,100         | 0                | 0            | 0            | 0            | 0            | 0             | 0             |
| (03) Project Management                         | 20,624                           | 10,518        | 7,223         | 0            | 2,883         | 0                | 0            | 0            | 0            | 0            | 0             | 0             |
| (04) Construction                               | 98,409                           | 68,957        | 18,060        | 1,560        | 9,832         | 9,500            | 5,000        | 5,000        | 9,500        | 6,000        | 33,906        | 68,906        |
| (06) IT Requirements Development/Systems Design | 1,500                            | 455           | 109           | 800          | 137           | 0                | 0            | 0            | 0            | 0            | 0             | 0             |
| <b>TOTALS</b>                                   | <b>121,633</b>                   | <b>79,930</b> | <b>25,391</b> | <b>2,360</b> | <b>13,952</b> | <b>9,500</b>     | <b>5,000</b> | <b>5,000</b> | <b>9,500</b> | <b>6,000</b> | <b>33,906</b> | <b>68,906</b> |

| Source                | Funding By Source - Prior Funding |               |               |              |               | Proposed Funding |              |              |              |              |               |               |
|-----------------------|-----------------------------------|---------------|---------------|--------------|---------------|------------------|--------------|--------------|--------------|--------------|---------------|---------------|
|                       | Allotments                        | Spent         | Enc/ID-Adv    | Pre-Enc      | Balance       | FY 2017          | FY 2018      | FY 2019      | FY 2020      | FY 2021      | FY 2022       | 6 Yr Total    |
| GO Bonds - New (0300) | 35,393                            | 16,068        | 15,814        | 800          | 2,711         | 5,000            | 5,000        | 5,000        | 0            | 6,000        | 5,974         | 26,974        |
| Pay Go (0301)         | 31,183                            | 21,281        | 4,217         | 0            | 5,684         | 4,500            | 0            | 0            | 9,500        | 0            | 27,932        | 41,932        |
| Federal (0350)        | 18,897                            | 6,420         | 5,359         | 1,560        | 5,557         | 0                | 0            | 0            | 0            | 0            | 0             | 0             |
| ARRA (0356)           | 36,160                            | 36,160        | 0             | 0            | 0             | 0                | 0            | 0            | 0            | 0            | 0             | 0             |
| <b>TOTALS</b>         | <b>121,633</b>                    | <b>79,930</b> | <b>25,391</b> | <b>2,360</b> | <b>13,952</b> | <b>9,500</b>     | <b>5,000</b> | <b>5,000</b> | <b>9,500</b> | <b>6,000</b> | <b>33,906</b> | <b>68,906</b> |

| Additional Appropriation Data        |  |         | Estimated Operating Impact Summary    |  |            |                       |                     |  |  |
|--------------------------------------|--|---------|---------------------------------------|--|------------|-----------------------|---------------------|--|--|
| First Appropriation FY               |  | 2008    | Expenditure (+) or Cost Reduction (-) |  |            |                       |                     |  |  |
| Original 6-Year Budget Authority     |  | 143,353 | No estimated operating impact         |  |            |                       |                     |  |  |
| Budget Authority Thru FY 2016        |  | 148,272 |                                       |  |            |                       |                     |  |  |
| FY 2016 Budget Authority Changes     |  | 0       |                                       |  |            |                       |                     |  |  |
| ABC Fund Transfers                   |  | 0       | <b>Full Time Equivalent Data</b>      |  |            |                       |                     |  |  |
| Capital Reprogrammings FY 2016 YTD   |  | 217     | <b>Object</b>                         |  | <b>FTE</b> | <b>FY 2017 Budget</b> | <b>% of Project</b> |  |  |
| Miscellaneous                        |  | 5,257   | Personal Services                     |  | 0.0        | 0                     | 0.0                 |  |  |
| Current FY 2016 Budget Authority     |  | 153,746 | Non Personal Services                 |  | 0.0        | 9,500                 | 100.0               |  |  |
| Budget Authority Request for FY 2017 |  | 190,539 |                                       |  |            |                       |                     |  |  |
| Increase (Decrease)                  |  | 36,793  |                                       |  |            |                       |                     |  |  |

# KG0-HMRHM-HAZARDOUS MATERIAL REMEDIATION - DDOE

**Agency:** DEPARTMENT OF ENERGY AND ENVIRONMENT (KG0)  
**Implementing Agency:** DEPARTMENT OF ENERGY AND ENVIRONMENT (KG0)  
**Project No:** HMRHM  
**Ward:**  
**Location:** ANACOSTIA RIVER  
**Facility Name or Identifier:** ANACOSTIA RIVER  
**Status:** Developing scope of work  
**Useful Life of the Project:** 30  
**Estimated Full Funding Cost:**\$83,396,000

**Description:**

This project involves the identification, analysis, removal, and/or encapsulation of hazardous materials that prevents full use of the Anacostia River and adjacent parkland.

**Justification:**

The Anacostia estuary has several major clean-up sites located along its banks. Funding is needed to characterize the sediments in the entire estuary area of the Anacostia and develop a cleanup remedy. The sediments are an on-going source of contaminants and need to be addressed before the Anacostia can be returned to a “fishable and swimmable” river. Testing needs to be conducted on Anacostia sediment and water toxins (when present) to determine proper clean-up methods and potentially isolate the source of contamination from the clean-up sites.

**Progress Assessment:**

Ongoing.

**Related Projects:**

Department of General Services project PL103C-HAZARDOUS MATERIAL ABATEMENT POOL

(Dollars in Thousands)

| Funding By Phase - Prior Funding |               |              |               |          |          |  | Proposed Funding |              |              |              |              |               |               |
|----------------------------------|---------------|--------------|---------------|----------|----------|--|------------------|--------------|--------------|--------------|--------------|---------------|---------------|
| Phase                            | Allotments    | Spent        | Enc/ID-Adv    | Pre-Enc  | Balance  |  | FY 2017          | FY 2018      | FY 2019      | FY 2020      | FY 2021      | FY 2022       | 6 Yr Total    |
| (04) Construction                | 18,990        | 8,834        | 10,156        | 0        | 0        |  | 5,000            | 5,000        | 5,000        | 9,500        | 6,000        | 33,906        | 64,406        |
| <b>TOTALS</b>                    | <b>18,990</b> | <b>8,834</b> | <b>10,156</b> | <b>0</b> | <b>0</b> |  | <b>5,000</b>     | <b>5,000</b> | <b>5,000</b> | <b>9,500</b> | <b>6,000</b> | <b>33,906</b> | <b>64,406</b> |

  

| Funding By Source - Prior Funding |               |              |               |          |          | Proposed Funding |              |              |              |              |              |               |               |
|-----------------------------------|---------------|--------------|---------------|----------|----------|------------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|
| Source                            | Allotments    | Spent        | Enc/ID-Adv    | Pre-Enc  | Balance  |                  | FY 2017      | FY 2018      | FY 2019      | FY 2020      | FY 2021      | FY 2022       | 6 Yr Total    |
| GO Bonds - New (0300)             | 18,515        | 8,359        | 10,156        | 0        | 0        |                  | 5,000        | 5,000        | 5,000        | 0            | 6,000        | 5,974         | 26,974        |
| Pay Go (0301)                     | 475           | 475          | 0             | 0        | 0        |                  | 0            | 0            | 0            | 9,500        | 0            | 27,932        | 37,432        |
| <b>TOTALS</b>                     | <b>18,990</b> | <b>8,834</b> | <b>10,156</b> | <b>0</b> | <b>0</b> |                  | <b>5,000</b> | <b>5,000</b> | <b>5,000</b> | <b>9,500</b> | <b>6,000</b> | <b>33,906</b> | <b>64,406</b> |

**Additional Appropriation Data**

|                                      |        |
|--------------------------------------|--------|
| First Appropriation FY               | 2012   |
| Original 6-Year Budget Authority     | 74,000 |
| Budget Authority Thru FY 2016        | 51,103 |
| FY 2016 Budget Authority Changes     | 0      |
| Current FY 2016 Budget Authority     | 51,103 |
| Budget Authority Request for FY 2017 | 83,396 |
| Increase (Decrease)                  | 32,293 |

**Estimated Operating Impact Summary**

| Expenditure (+) or Cost Reduction (-) | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | 6 Yr Total |
|---------------------------------------|---------|---------|---------|---------|---------|---------|------------|
| No estimated operating impact         |         |         |         |         |         |         |            |

**Milestone Data**

|                            | Projected  | Actual |
|----------------------------|------------|--------|
| Environmental Approvals    | 10/01/2011 |        |
| Design Start (FY)          | 03/01/2012 |        |
| Design Complete (FY)       | 05/31/2012 |        |
| Construction Start (FY)    | 12/01/2012 |        |
| Construction Complete (FY) | 09/30/2021 |        |
| Closeout (FY)              | 12/31/2022 |        |

**Full Time Equivalent Data**

| Object                | FTE | FY 2017 Budget | % of Project |
|-----------------------|-----|----------------|--------------|
| Personal Services     | 0.0 | 0              | 0.0          |
| Non Personal Services | 0.0 | 5,000          | 100.0        |

# KG0-SWM05-STORMWATER RETROFIT IMPLEMENTATION

**Agency:** DEPARTMENT OF ENERGY AND ENVIRONMENT (KG0)  
**Implementing Agency:** DEPARTMENT OF ENERGY AND ENVIRONMENT (KG0)  
**Project No:** SWM05  
**Ward:**  
**Location:** DISTRICT-WIDE  
**Facility Name or Identifier:** STORMWATER MANAGEMENT  
**Status:** Ongoing Subprojects  
**Useful Life of the Project:** 15  
**Estimated Full Funding Cost:** \$26,902,000



## Description:

This project will allow DDOE and sister agencies (DDOT, DGS, DWP, DC Water, DMPED and UDC) to fulfill responsibilities for the implementation of the District's National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Permit issued by the Environmental Protection Agency (EPA). The District's responsibilities for compliance with the MS4 Permit include the procurement of engineering design and construction of green infrastructure such as green roofs, porous pavements, stormwater re-use systems, bioretention, impervious surface reduction, tree planting, and salaries of personnel involved in the development of these initiatives.

## Justification:

This project is required in order to comply with the District's National Pollutant Discharge Elimination System (NPDES) Permit which is issued by the EPA. This project aligns with SustainableDC Action: Transportation 1.2.

## Progress Assessment:

This project will be tracked and reported to EPA annually. It is an on-going project to meet the requirement of the District's MS4 permit. The permit is issued by the EPA on a 5- year cycle. The project is progressing as planned.

## Related Projects:

The District Department of the Environment (DDOE) leverages the MS4 funds to supplement capital projects being performed by DDOT OPEFM, DMPED, UDC and other agencies where there opportunities to collaborate are identified which fulfill the obligations of the District's MS4 permit.

(Dollars in Thousands)

| Phase                   | Funding By Phase - Prior Funding |              |              |          |              |              | Proposed Funding |          |          |          |          |              |
|-------------------------|----------------------------------|--------------|--------------|----------|--------------|--------------|------------------|----------|----------|----------|----------|--------------|
|                         | Allotments                       | Spent        | Enc/ID-Adv   | Pre-Enc  | Balance      | FY 2017      | FY 2018          | FY 2019  | FY 2020  | FY 2021  | FY 2022  | 6 Yr Total   |
| (03) Project Management | 17,902                           | 9,612        | 5,798        | 0        | 2,492        | 0            | 0                | 0        | 0        | 0        | 0        | 0            |
| (04) Construction       | 4,500                            | 90           | 135          | 0        | 4,275        | 4,500        | 0                | 0        | 0        | 0        | 0        | 4,500        |
| <b>TOTALS</b>           | <b>22,402</b>                    | <b>9,702</b> | <b>5,933</b> | <b>0</b> | <b>6,767</b> | <b>4,500</b> | <b>0</b>         | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>4,500</b> |

| Source                | Funding By Source - Prior Funding |              |              |          |              |              | Proposed Funding |          |          |          |          |              |
|-----------------------|-----------------------------------|--------------|--------------|----------|--------------|--------------|------------------|----------|----------|----------|----------|--------------|
|                       | Allotments                        | Spent        | Enc/ID-Adv   | Pre-Enc  | Balance      | FY 2017      | FY 2018          | FY 2019  | FY 2020  | FY 2021  | FY 2022  | 6 Yr Total   |
| GO Bonds - New (0300) | 5,191                             | 577          | 3,141        | 0        | 1,474        | 0            | 0                | 0        | 0        | 0        | 0        | 0            |
| Pay Go (0301)         | 17,210                            | 9,125        | 2,792        | 0        | 5,293        | 4,500        | 0                | 0        | 0        | 0        | 0        | 4,500        |
| <b>TOTALS</b>         | <b>22,402</b>                     | <b>9,702</b> | <b>5,933</b> | <b>0</b> | <b>6,767</b> | <b>4,500</b> | <b>0</b>         | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>4,500</b> |

## Additional Appropriation Data

|                                      |        |
|--------------------------------------|--------|
| First Appropriation FY               | 2011   |
| Original 6-Year Budget Authority     | 12,100 |
| Budget Authority Thru FY 2016        | 22,185 |
| FY 2016 Budget Authority Changes     | 0      |
| ABC Fund Transfers                   | 0      |
| Capital Reprogrammings FY 2016 YTD   | 217    |
| Current FY 2016 Budget Authority     | 22,402 |
| Budget Authority Request for FY 2017 | 26,902 |
| Increase (Decrease)                  | 4,500  |

## Estimated Operating Impact Summary

| Expenditure (+) or Cost Reduction (-) | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | 6 Yr Total |
|---------------------------------------|---------|---------|---------|---------|---------|---------|------------|
| No estimated operating impact         |         |         |         |         |         |         |            |

## Milestone Data

|                            | Projected  | Actual |
|----------------------------|------------|--------|
| Environmental Approvals    | 06/30/2012 |        |
| Design Start (FY)          | 04/01/2012 |        |
| Design Complete (FY)       | 06/30/2013 |        |
| Construction Start (FY)    | 08/01/2015 |        |
| Construction Complete (FY) | 06/01/2019 |        |
| Closeout (FY)              | 09/30/2019 |        |

## Full Time Equivalent Data

| Object                | FTE | FY 2017 Budget | % of Project |
|-----------------------|-----|----------------|--------------|
| Personal Services     | 0.0 | 0              | 0.0          |
| Non Personal Services | 0.0 | 4,500          | 100.0        |