## HOWARD COUNTY, MARYLAND

# MAXIMUM EXTENT PRACTICABLE (MEP) ANALYSIS

July 7, 2021

Howard County Department of Public Works

Bureau of Environmental Services

Stormwater Management Division

9801 Broken Land Parkway, Columbia, MD 21046

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### **Howard County, Maryland**

### **Maximum Extent Practicable (MEP) Analysis**

### **Summary Narrative**

July 7, 2021

The Maryland Department of the Environment (MDE) is in the process of developing of the next generation National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Phase 1 Medium permit. To aid in the NPDES MS4 permit development process and to be consistent with Maryland's Phase III Watershed Implementation Plan (WIP) to Restore Chesapeake Bay by 2025, MDE developed the Maximum Extent Practicable or "MEP" Analysis to allow jurisdictions the opportunity to document the level of restoration they can accomplish in five years and to show County residents and stakeholders their plan to accomplish multiple objectives and meet restoration goals. On May 13, 2021, MDE requested that Howard County submit its MEP Analysis by July 7, 2021.

The MEP Analysis includes a Physical Capacity Analysis, a Restoration Project Portfolio spreadsheet, and a Fiscal Capacity Analysis and spreadsheet.

### **Physical Capacity Analysis**

The Physical Capacity Analysis is included in Section 2 and is a questionnaire that describes the limitations (other than financial) that Howard County faces when implementing restoration projects. Attachments 1 through 5 support the Physical Capacity Analysis.

The type of project, i.e. ponds, streams, alternative practices, takes different amounts of time to go from initial concept to complete in-the-ground, but generally the County has been able to get 'typical' projects designed, permitted, and built in two to three years. Efforts such as tree planting may only take six months for design and implementation, but there is often additional time needed to actually identify appropriate sites for the tree planting and coordinate with the property owner. Stormwater management pond and stream restoration projects, which are larger and generally more complicated, often have non-cooperative adjacent property owners, and/or require higher levels of permitting (namely MDE Dam Safety review of ponds), which could add a year or more to the typical project time frame for completing typical projects. The County has four on-call design consultant teams and nine oncall construction firms that do the majority of the County's stream and pond restoration projects. When construction costs are projected to exceed \$1 million, the County must put these construction tasks out to public bid. The County has done two design/build projects, as well, but the on-call design and construction contract approach has worked well for the County. The County's schedules for design and construction have not been negatively impacted by a lack of qualified consultants and contractors, including WBE and MBE firms, and there has not been a shortage of firms showing interested in applying for the County's on-call contracts.

### **Restoration Project Portfolio**

The Restoration Project Portfolio spreadsheet is included as Section 3 and includes:

- the list of projects, best management practices, and restoration that Howard County has implemented since meeting its previous permit's 20% impervious surface restoration goal (March 30, 2018)
- the list of projects, best management practices, and restoration that Howard County plans to implement over the next five-year permit term (2022 through 2026)
- the list of projects, best management practices, and restoration known at this time that Howard County may implement over the two years beyond the next five-year permit term (2027 through 2028)

The level of impervious acres restored and pollutant load reductions in the Restoration Project Portfolio is based on the Chesapeake Bay Phase 6 Watershed Model and the 2020 Accounting for Stormwater Wasteload Allocations and Impervious Acres Treated (Accounting Guidance). The Accounting Guidance document incorporates the equivalent impervious acre calculations for alternative practices, and credits for green stormwater infrastructure and watershed management.

The County edited the Subtotal and Total equations in the Restoration Project Portfolio to reflect the County's permit timeframe (through FY26) and annual operational crediting accurately. Upon review of the spreadsheet equations it was determined that the summed values were not accurate, specifically the =IFS statement was not tabulating the total list of capital projects.

Howard County's Restoration Project Portfolio includes the full suite of stormwater-related projects and programs managed by a typical jurisdiction:

- conveyance
- water quality management
- water quality improvement
- flood control
- quantity management
- engineering design
- construction
- inspection
- maintenance
- restoration
- management

### **Annual Operational Programs**

The County is continuing street sweeping, inlet cleaning, and septic system pumping programs to maintain credits claimed under the County's previous permit (Permit # 11-DP-3318). There are currently no additional planned levels of implementation above what was completed previously; however, the County will revisit these programs regularly to determine if they will be continued or replaced with permanent credits.

The County's street sweeping planning goal is to achieve an annual average of 351.4 impervious acres by the end of the current permit (Permit # 21-DP-3318). This goal maintains the average of street sweeping impervious acres used toward the County's 20% Impervious Restoration Target under the County's previous permit (351.4 acres; average FY11 to FY19). The County's inlet cleaning planning goal is an annual average of 67.8 impervious acres by the end of the current permit, which maintains the average of inlet cleaning impervious acres used towards the County's 20% Impervious Restoration Target (67.8 acres; average FY17-FY19). The planning goal for septic pump-outs is a total of 140.3 impervious acres by the end of the current permit, which equates to an annual target of 20.0 impervious acres or 668 septic pump-outs. This goal maintains the sum of FY15-FY19 septic pump-outs (4,678) used towards the County's 20% Impervious Restoration Target.

Projected implementation of annual practices is under the assumption that there will be a 7-year period, FY20-FY26, for annual practices to apply to the County's current permit. FY20 efforts are complete and recorded in the Restoration Project Portfolio for all three annual practices. For FY21-FY26, the average value needed to hit the planning goal over the next 6 years (to the end of the next permit) to maintain the crediting from the previous permit is recorded. At this time, the County does not have FY21 data; so, FY21 is reflected as a projection like records for future years FY22-FY26. If FY20 efforts fell below the planning goal, projected implementation for future years were adjusted to make up any deficits. The County has not projected annual operational efforts for 2027-2028.

Impervious restoration and load reductions calculations were made following MDE's 2014 Accounting Guidance and associated Bay Program Expert Panel reports. TN EOS load reductions were multiplied by the County average River to Bay TN delivery factor to calculate TN EOT load reductions for street sweeping and inlet cleaning. A summary of the impervious restoration progress made through the end of the County's permit term (December 17, 2019) by Howard County, including crediting from annual operational programs, is included in Table 10 of the County's FY20 Annual Report (Howard County Government, 2020) and detailed in the report submitted with the FY20 annual report titled *Howard County Impervious Restoration Accounting: Methodology and Results, Revised June 2020.* 

### **Flood Mitigation Program**

Howard County's Restoration Project Portfolio also includes an extensive flood mitigation program, a component of the Ellicott City Safe and Sound plan (the Plan), which is not typically found in an NPDES water quality restoration portfolio. After the July 2016 and May 2018 catastrophic and deadly floods in Historic Ellicott City, the County developed the Plan to address public safety. The Plan was the result of a major hydrology and hydraulics study to identify opportunities for flood mitigation in Ellicott City. There are four main focus areas of the Plan:

- 1. ensure public safety and account for climate change
- 2. support local business and property owners
- maintain Ellicott City's historic charm
- 4. develop a more inclusive, community-driven process regarding Ellicott City's future

While some of these focus areas are being addressed through public outreach, enhanced situational awareness, and planning, the primary means for achieving the flood control portion of the Plan is the design and construction of seven large flood control projects. Five of the projects are upland dry flood storage facilities that will attenuate the flood flows that could reach Historic Ellicott City. The other two

projects are large flood conveyance projects to divert flows under the town and to the Patapsco River, with one of the conveyance projects being a 5,800-linear foot, 15'-18' diameter rock tunnel under the town and under the CSX railroad. The current total estimated cost for these seven large capital projects is approximately \$140 million. The County is funding this massive effort through a combination of County capital funds, grants, and a WIFIA loan through EPA. While not true "water quality" restoration projects, all of these flood control projects will have benefits to the waterbodies in the area and the County is very interested in working with MDE to quantify the co-benefits for these projects within the context of the County's next permit requirements for meeting the NPDES and TMDL goals.

More general information about the Plan can be found at https://www.ecsafeandsound.org/

In addition to the Ellicott City Plan, the County has several other priority areas that will be a main focus during the next NPDES permit term. The July 2016 and May 2018 floods that devastated Historic Ellicott City also did significant damage in other local watersheds including the Valley Mede and Chatham subwatersheds. While not to the extent and cost of the Plan noted above, the County is investing in the design and construction of several flood mitigation capital projects in the Valley Mede and Chatham areas. These projects, many of which are currently in design, could cost upwards of \$10 million.

Another public safety focus for the County during the next permit term, and beyond, is the need for repair and replacement of failing stormwater pond infrastructure. The County has many older ponds that were built with metal barrels and risers, which was the accepted practice at the time of their design. These metal structures have now reached their service life and need to be replaced with concrete pipes and structures. The County has been trying to keep up with the pond repairs at the same time as performing projects to achieve impervious acre restoration and TMDL credits, but the pond needs are outpacing the credit requirements. The County tries to achieve impervious acre/TMDL credits whenever possible through these pond repairs, but that is not always possible due to site specific constraints. These pond repairs and reconstruction projects are typically funded through the County's capital budget.

All of the projects in the County's Restoration Project Portfolio must compete for funds with other County services including fire, police, and schools. With limited capital funds available and the added budget strain from the current COVID-19 pandemic, the County has to evaluate budgets annually and tough decisions are needed to prioritize spending with limited resources.

### **Financial Capacity Analysis**

The Financial Capacity Analysis (FCA), included in Section 4 and Attachment 6, provides information on how stormwater-related costs are viewed in context with:

- Median Household Income (MHI)
- Socioeconomic Indicators (e.g., Unemployment, Poverty)
- Financial Wherewithal (Debt & Financial Management)

The FCA was developed in coordination with the University of Maryland's Environmental Finance Center (UMD-EFC). Data requested was gathered from:

- American Community Survey (ACS) information (https://data.census.gov/cedsci/)
- financial reporting websites
- county budgets

The FCA shows that Howard County has successfully invested in its stormwater program, meeting the fourth generation MS4 Permit's 20% impervious surface area restoration requirement. Howard County has been and continues to actively pursue state and federal grants to fund stormwater-related projects and services. The State and Federal grants provide for additional public improvements without additional debt burdens on County residents. The County also offers Watershed Protection Fee Hardship Tax Credit which provides for a 60% credit of the fee.

The FCA shows that Howard County is a financially strong community. Howard County has received the highest possible credit rating, AAA, from all three bond rating agencies for 24 consecutive years. This acknowledges the County's sizable and wealthy tax base, sound fiscal policies, and fiscal management. As all three credit rating agencies provided a stable outlook, the County continues to take a conservative and prudent approach, adhering to its policies, and does not anticipate any negative impacts to future borrowing.

### **MEP Summary**

Under the County's current permit, and as reported in the County's final summary impervious accounting reports submitted in June 2020 (Howard County, 2020), the County's 20% impervious restoration goal of 2,203.8 acres was met on March 30, 2018, which included 559.4 acres of annual practices (street sweeping, catch basin cleaning, and septic system pumping) in addition to permanent practices including stormwater BMP, stream restoration, outfall stabilization, septic practices, and others.

Howard County performed impervious surface restoration credit calculations and pollutant load reduction estimates for projects completed and planned for after the March 30, 2018 date up through 2026, the expected end of the County's next permit term. These projects are included in the Restoration Project Portfolio and total 1,365.6 acres of impervious restoration. The total restoration projected includes an anticipated 1,356.7 acres of restoration from 'Capital Projects' and 8.9 acres of restoration from 'Other' projects, which largely include septic connections and upgrades, and rain barrel installations. The County's 20% goal was based on an impervious untreated baseline of 11,018.9 acres. Completing 1,365.6 acres of additional impervious restoration would represent 12.4% of the previously identified untreated baseline.

The County believes that the overall restoration plan and unique level of implementation presented with this analysis is the MEP for Howard County. As noted in the financial and physical analyses, there are many stormwater and water quality related responsibilities and priorities facing the County over the next several years that coincide with the permit term and will compete heavily for funding and County resources. Many of these elements do not translate directly into new impervious restoration, but are absolutely needed to maintain existing systems, meet other MS4 goals, and provide for functional and safe infrastructure. These include general inspection, maintenance, and repair of existing infrastructure; monitoring and reporting of system effectiveness; meeting flood management and control objectives; and meeting local TMDL goals related to TN, TP, TSS and the non-Bay TMDL pollutants including bacteria, and PCBs.

The planned level of effort on Howard County's part demonstrated by this MEP analysis should be more than adequate to achieve measurable success over the next permit term, assist MDE in meeting Maryland's statewide goals towards the Bay TMDL, and provide consistency with the Phase III WIP.

### References

Howard County Government, Department of Public Works. 2020. Howard County Impervious Restoration Accounting: Methodology and Results, Revised June 2020. Submitted to the State of Maryland Department of the Environment, Baltimore, Maryland.

Howard County Government, Department of Public Works. 2020. National Pollutant Discharge Elimination System NPDES Permit No. MD0068322 State Discharge Permit No. 11-DP-3318 ANNUAL UPDATE NUMBER 25 FISCAL YEAR 2020. Submitted to State of Maryland Department of the Environment, Baltimore, Maryland.

## SECTION 2: PHYSICAL CAPACITY ANALYSIS

### **Howard County, Maryland**

### **Maximum Extent Practicable (MEP) Analysis**

#### **Physical Capacity Analysis**

July 7, 2021

1. What is the typical implementation time frame (from planning through construction) for a restoration project? Provide a typical Gantt chart for the following three main classes of BMPs and break down into planning, design, and construction phases: 1. Large upland stormwater projects (e.g., new and retrofits for ponds, bioretention, infiltration basins, etc.); 2. Instream restoration projects; and, 3. Alternative projects (not annual) (e.g., tree planting). Provide a written justification to explain the time frames for each BMP class and phase.

The typical time frame for a "normal" stream or pond project is three to four years from the time that a project is identified and a design consultant is assigned to the project to when construction has been completed. Normal projects are those without special permitting considerations, do not require MDE Dam Safety input, do not impact historic or cultural resources, don't require property acquisition or easements, do not have public opposition, and have available funding. Sample time frames for normal restoration projects are as follows and are illustrated in the attached Gantt chart (Attachment 1):

- Large upland stormwater projects Planning 3 to 6 months; Design, which includes permitting 12 to 15 months;, Construction 12 to 15 months depending on the size of the project. If the project requires MDE Dam Safety review at least one more year should be added.
- Stream restoration projects Planning 3 to 6 months; Design, which includes permitting 12 to 15 months; Construction 12 to 15 months depending on size of the project and whether the project stops during the stream closure period.
- Alternative (trees planting) Planning 6 months with some projects on a wait list of up to two years; Design and implementation to 3 6 months depending on the size of the planting area.
- Alternative (septic pump outs and upgrades) Planning converting homes from septic to
  County sewer infrastructure typically happens slowly and in small amounts due to the cost of
  the new infrastructure and the willingness and desire by the residents to be taken off their
  septic system. For pump outs the planning involved is for public education and setting up
  funding for incentive programs. Design 12 months for infrastructure improvements and
  Construction 12 months to build the new infrastructure and tie in the residents systems.

The schedules in Attachment 1 include examples representing the two types of contracting, on-call and public advertisement, as described in more detail under #3 below. Using the County's on-call contract, shown in Attachment 1 for large stormwater BMPs an stream restoration projects, a project typically takes 3 years to complete. For projects with estimated construction costs over \$1 million, a public advertisement method is necessary which add approximately 6 months to the overall timeline.

In addition to the timeframes listed and shown on the Gantt chart, post-construction monitoring required by permits, particularly for stream restoration projects, can range from three to five years. Triennial inspections for restoration projects also begin post-construction. After permit required post-

construction monitoring the County continues to visit all completed stream projects on an annual basis even though reporting is not required.

For large upland stormwater and stream restoration projects the County has a large list of potential projects that has been generated by a variety of methods. Projects are added to the list on a rolling basis based on the countywide watershed assessments performed under the current NPDES permit cycle, property owner complaints, BMP inspection results (where repairs/retrofits are identified), and from elected officials. Projects are evaluated and prioritized annually based on project need, public safety concerns, water quality needs, and funding availability. The annual project prioritization/selection process is dynamic since field conditions and other considerations may change from year to year, and flexibility is needed to address the most urgent needs at the time. In some cases a new project that is brought to the County's attention may move to the front of the line based on its potential impact to public safety or infrastructure. When projects are selected to move forward, there is a relatively short initial period to bring a consultant on board and perform a planning level assessment of the potential project to identify any complicating factors that could impact project design or that need to be addressed before proceeding to formal design. Assuming no major issues arise during planning, the County assigns the design of the project to one of our on-call design teams. The design team goes through the normal design process of collecting data, designing the project (typically with 30%, 65%, 95%, and 100% milestone submittals), and submitting for and acquiring all necessary permits. The County also selects one of our on-call environmental restoration contractors to provide value engineering and constructability reviews during the design process.

For alternative projects, namely tree planting, the time frame is quicker due to less time needed for design and planting; however, pre-planning and actually finding sites takes more time since there are limited properties that lend themselves to large reforestation projects. Publicly owned properties including park properties may need to be left un-forested due to possible future uses. Private property owners, as a general rule, may accept a small portion of their property being planted with trees but typically do not volunteer to have major areas re-planted. So while tree planting may be a quicker project type, the ability to get large TMDL and impervious acre credits is less than the larger pond and stream projects.

2. Provide the average time to authorize capital improvement project (CIP) budgets for the initial project planning phase and for the design phase of a typical restoration project (assumes CIP approval for each phase is required). Do you have the ability to combine these two phases or do you have to get CIP approval for each phase consecutively?

Planning and design phases are typically combined with respect to requesting funding. For Howard County the CIP budget process usually starts in October/November at which time the annual prioritization and project selection process noted in #1 above starts. The CIP process involves further assessment and prioritization within the Department of Public Works, but the CIP request is sent to the County Budget Office and then to the County Executive. The Executive proposes his CIP budget, and then staff attend County Council work sessions to explain and justify the CIP requests. Final County Council approval occurs the following May. Funds approved by the County Council in May are then available in July/August, depending on the specific fund source. Once funds are available, the planning process can begin. If funding is not available for all projects initially identified, those projects remain on the potential project list and are reconsidered in the next fiscal year's CIP budget cycle. Typically

Planning/Design funds are requested in one fiscal year and then construction money is requested in the following fiscal year cycle.

3. Provide the average time to procure professional planning, design, and construction services. Is procurement done in phases (e.g., procurement for planning, then procurement for design, and then procurement for construction)? How would a pay for performance type of contract or a design-build-operation-maintenance contract affect these time frames? Please provide information on any innovative contracting mechanism you use to reduce procurement timeframes and what those reduced time frames are.

For environmental restoration projects, Howard County currently has four on-call design teams that are assigned planning/design tasks at the start of a fiscal year based on availability of funds as noted in #2 above. The on-call design contracts are five-year contracts, which are renewed such that there is no gap in availability of design teams. There are infrequent exceptions where the County will put out an Expression of Interest for large or specialized design tasks, e.g. the Ellicott City North Tunnel, which is a 5,800-linear-foot rock tunnel under Ellicott City and the CSX railroad line.

The County also maintains on-call construction contracts. There are four on-call contractors prequalified to do pond work and five on-call contractors pre-qualified to do stream work. These are six-year contracts. The County can assign construction tasks to these on-call contractors if they are anticipated to cost less than \$1 million. Construction projects greater than \$1 million are put out for bid. This external bidding process typically takes six to eight months from development of the Invitation for Bid until there is a signed contract. If grant money from the State is part of the construction funding package, another six months would be added to that time frame.

The County has done two design/build contracts for large stream restoration projects, but other than that, design and construction are procured separately. This design/build process from project advertisement to completion of construction took approximately two years; however, for one of the projects, acquisition of easements had to be done before the project was advertised. For normal stream and pond projects, the design/build process may have benefits, but the time to go from planning to construction does not really change.

The County continues to be open to innovative procurement options as they are applicable to specific projects. In the case of two large Ellicott City flood mitigation projects, the County is using the Construction Manager At Risk (CMAR) procurement process to bring the contractor on board early in the design phase, but this approach is not appropriate for typical pond and stream projects.

4. Provide the number of requests for proposals (RFPs) for BMP construction and for BMP design advertised during the past 5-year permit term. Of these, how many bids were submitted for each RFP and how many required re-advertising? Was there a trend over the permit term in the number of bid submittals received? How many unique companies provided bids for all RFPs?

As noted above, design and construction of BMPs is typically done through on-call contracts. For the current on-call design contract, the County received 19 expressions of interest, and through a Quality Based Selection process, chose four design teams to award contracts to. For the current on-call construction contract, the County received 15 bids from qualified contractors, and nine contractors were selected: five for stream work and four for pond work. Contractors were allowed to submit bids

and be selected for both pond and stream work. During the past five-year permit term, less than five stream and pond construction tasks were put out to bid since the rest were assigned to on-call contractors. No contracts required re-advertising. No trends were noticed for number of bids received.

5. Provide information on contracting limitations that result in longer project implementation times. Examples: Limited qualified construction contractors; Woman owned business enterprise (WBE) or minority owned business enterprise (MBE) requirements limit available qualified construction contractors and/or engineering contractors. Describe the issue and provide the time extension that results due to the issue.

The County has not seen a limited number of qualified contractors to date submitting expressions of interest for design or bids for construction, nor have the County's WBE/MBE requirements limited bidders. As noted above, the bulk of the County's construction work to date has been through prequalified contractors through an on-call contract, which has limited the number of project-specific invitations for bids, which in turn has limited the chances of having contracting limitation issues. As projects get bigger and more expensive, more projects will be put out to bid, and the County will be able to see if there are issues with the number of qualified bidders in the future.

6. Provide a typical time frame required to obtain permits from local, State, and federal agencies for the three main BMP project classes (i.e., upland stormwater ponds, instream restoration, and alternative projects) prior to construction. Describe how these time frames affect the overall project implementation time frames described in Question #1. How can these time frames be reduced to help get these projects out the door faster?

Permitting varies based on the type and size of project and agencies involved, so typical time frames are hard to say. For stream projects, the critical path for permitting is the Joint Permit Application (JPA) through MDE/Corps. On average, this process takes nine to 12 months. For pond projects, the big determining factor is whether the pond is classified as a significant or high hazard pond where MDE Dam Safety (DS) is involved. If DS is not involved, a typical pond review is done through the Howard Soil Conservation District (HSCD) and takes from eight to 12 months. If DS is involved in the review process, the review time is most likely going to be 12 to 15 months longer than an HSCD review. Alternative projects, in particular tree planting, typically don't go through the detailed review that streams and ponds go through, so permitting may only take six months.

Other factors that extend permit acquisition times are projects that are near historic and/or cultural resources, projects near/through property owned by BGE or CSX, and projects that require utility relocations, as well as projects where the local community opposes the project. Some projects where roadway detours are required also extend the time to permit the project and get public acceptance. If easements or rights of entry are needed to construct a project, that can add at least a year to the overall project schedule.

Agency review times for normal projects do not seem to be the critical path for the County's stream and pond projects; however, quicker turnaround times can also be helpful in speeding up the permit process. Local HSCD review requires three individual reviews; however, in many cases the third review is more of a formality where two reviews would be sufficient. Eliminating one review would save some time. DS review has become the critical path for most projects where DS review is required. Quicker turnaround times by DS would help the overall permit acquisition process. If may be helpful for DS to

assign specific required review times, e.g. 30 days or 45 days. Review by non-governmental agencies such as BGE and CSX do not fall under the normal umbrella of State and Federal reviews and often take an extremely long time. State/Federal review agencies try to coordinate their reviews, which is helpful, but reviews by non-governmental agencies is out of the County's control and does not have fixed turnaround times.

7. What type of a project do you consider as "low-hanging fruit"? What is your remaining capacity of available "low-hanging fruit" projects (estimate the number and impervious acre treatment total)?

Projects considered as "low-hanging fruit" for water quality restoration are projects located on County property that have straight forward design, permitting, and construction; have minimal public opposition; provide large amounts of TMDL or impervious acre credit; and are cost effective.

To date, 64% of the stream restoration projects completed have been solely on county property and 36% have been partially on private property. Those stream projects partially on private property have been brought to the County's attention by the private property owner and the owner has provided the easement without issue or delay. For pond retrofits, 38% of the completed projects have been on County property and 62% have been on private property where the County has an existing easement or responsibility for the pond by way of a recorded maintenance agreement. Planned projects have a similar breakdown of ownership.

While land ownership is a main factor in determining "low-hanging fruit," County-owned lands also have two additional factors that make these projects good candidates for restoration:

- 1. They are protected by County enforcement as Open Space, Drainage Easements, or other safeguarded lands, and the County has the authority and responsibility to maintain these lands.
- 2. They are often located in stream valleys, which receive a large amount of upstream inputs from adjacent developments lacking adequate stormwater management and availability of land for an upland retrofit, making these areas highly impacted areas in greater need of restoration.

Therefore, a focus on "low-hanging fruit" for restoration is actually fulfilling the County's responsibility to address the most impaired and vulnerable areas and provide the largest water quality improvement value. The County also focuses a fair amount of effort on other programs that do not necessarily receive restoration credit, but have other benefits to upland developments such as pond repairs, drainage improvements, and flood control projects.

The County has reviewed its list of potential projects and compared the possible restoration credits from these projects relative to the anticipated need for credit in the next generation MS4 permit. At this time we believe we have sufficient projects in the "low-hanging fruit" category to meet this need.

8. Complete the spreadsheet provided for restoration projects to be planned, designed, and/or constructed from the end of the 4th generation permit through 2028. Include for each restoration project the estimated impervious acres treated, estimated total nitrogen (TN) reduction, estimated total phosphorus (TP) reduction, and estimated total suspended sediments (TSS) reduction; any local total maximum daily load (TMDL) parameter (or other water quality objective) addressed; estimated cost; implementation status; and projected completion year. Include projects that will be in the

planning or design phase but will not be completed until after 2026. This information should be more specific for the first reporting year but may be more generalized for the remaining reporting years.

The Restoration Project Portfolio is included with this submittal in Section 2.

### 9. Provide a copy of your 5-year CIP for restoration projects (End of 4th Generation Permit2028).

Copies of pertinent CIP budget sheets for the FY22 budget cycle are provided with this submittal as Attachment 2. While funding beyond FY22 still requires County Council approval, the budget sheets do show projected costs for out years.

### 10. Provide a copy of your operating budget for annual restoration projects (FY2020).

In general restoration projects are funded from the County's CIP budget; however, the operating budget does fund certain NPDES related efforts, such as salaries of County staff involved with running CIP projects and performing numerous NPDES related tasks, street sweeping, inlet cleaning, Watershed Enhancement Grants given to local non-profits for environmental restoration and public outreach efforts, inspection and maintenance of NPDES BMPs, NPDES required monitoring efforts, and updating and maintenance of the County's NPDES geodatabase. The County's Office of Community Sustainability utilizes operating budget funds to do many of its environmental initiatives, which include reimbursements for the County's septic pump out program, Cleanscapes program, working with commercial property owners to provide additional water quality on their sites, tree planting programs, and water quality monitoring. Copies of the FY22 operating budget General funds and Watershed Protection and Restoration funds are attached.

Please note that there are three files attached (Attachments 3, 4, and 5) that collectively provide the backup requested in Questions 10 and 11.

There are two files that add up to the Stormwater Management Division's operating budget, namely the "1000" (General Fund) (Attachment 3) and "7360" (Watershed Protection and Restoration Fund) (Attachment 4) sheets. The combination of these two fund sources covers any operating tasks that come out of the Stormwater Management Division, which includes BMP inspections, monitoring, geodatabase and reporting, pollutant load/reduction calculations, illicit discharge tracking and reporting, overall management and accounting for the NPDES program, salaries for Stormwater Management Division staff who do our NPDES oversight as well as staff who manage the County's various water quality restoration projects.

There is one separate file that is for the overall Watershed Protection and Restoration Fund (Attachment 5), which covers a portion of Bureau of Highways, Office of Community Sustainability, Howard Soil Conservation District, and the Stormwater Management Division. Therefore there is an overlap between the "7360" fund spreadsheet noted in the previous paragraph and the overall Watershed Protection and Restoration Fund spreadsheet noted in this paragraph. The overall Watershed Protection and Restoration Fund includes our Bureau of Highways pond crew for BMP maintenance and inlet cleaning, Office of Community Sustainability's various outreach efforts and support of their septic pumpout program, in addition to the multiple NPDES related efforts performed by the Stormwater Management Division noted in the previous paragraph.

## 11. Provide a copy of your operating and maintenance budget for all BMPs implemented under the MS4 permit? (FY2020)

The maintenance of BMPs implemented under the MS4 would be covered by several sources. One source is Bureau of Highways maintenance budget as they are responsible for mowing and routine maintenance for all County BMPs. The second source of maintenance funds is the Stormwater Management Division's capital budget where larger repairs for ponds and on-going inspection and maintenance of stream projects gets funded. Maintenance of tree planting sites is done by Department of Recreation and Parks as part of their normal work effort. Specific funds for the SWM Division and Department of Recreation and Parks is difficult to break out separately. Copies of the FY22 operating budget General funds and Watershed Protection and Restoration funds are attached. See explanation in Question 10 response for the budget sheets that have been attached (Attachments 3, 4, and 5).

It should be noted that with the introduction of ESD requirements, the number of BMPs in the County has grown exponentially, which in turn has significantly increased the inspection and maintenance costs for these BMPs countywide.

## SECTION 3: RESTORATION PROJECT PORTFOLIO

#### Howard County, Maryland Restoration Project Portfolio

### Restoration Projects To Be Planned, Designed, and/or Constructed From The End Of 4th Generation Permit Through FY 2028 July 7, 2021

Remaining Unmet Restoration Obligation from Previous
Permit (Impervious Acres): 0

DECT DAMP ID	DECT DAMP TYCE!	DAAR	DEDAGA		DDAII:	- 25	LENGTH		TCC	Ta16	LIBAR	CDEEN	MATERIAL	TOTAL INGS	IN ADJUGACA:	10.401.50.45**	PROJECTES	TARN DARAMETER	CENTERAL COMMETTER?
REST BMP ID	REST BMP TYPE <sup>1</sup>	BMP	PERMA-	NUM	DRAIN	PE	LENGTH	TP	TSS	TN <sup>6</sup>	IMP	GREEN	WATERSHED	TOTAL IMP	IMPLEMEN-	IMPLEMEN-	PROJECTED	TMDL PARAMETER	GENERAL COMMENTS <sup>7</sup>
		CLASS <sup>1</sup>	NENT OR	BMP	-AGE AREA	(inches)		REDUCTION	REDUCTION	REDUCTION	ACRES (IA)		MANAGE-	ACRES	TATION COST	TATION	IMPLEMEN-	OR	
			ANNUAL BMP		(acres)		LANE MILES	(lbs/year)	(lbs/year)	(lbs/year)		INFRASTRUC-	MENT (WM)	(W/ GSI AND		STATUS <sup>2</sup>	TATION YEAR	WQ OBJECTIVE ADDRESSED	
							(miles)/					TURE (GSI)	CREDIT	WM					
							MASS LOADING					CREDIT		CREDITS)					
							(lbs)					(IA X 0.35)							
									R	emaining Unmet R	estoration Ob	ligations from Pre	vious Permit						
ual Operational Programs	(Unmet Obligations fr		ANNUAL	1	1						1	I	I			1	T		
eet Sweeping*	1		ANNUAL	<b> </b>		1				-	<del> </del>			0.00		-	<del>                                     </del>		
						<del> </del>											<del> </del>		
			ANNUAL	-		<del> </del>				<del>                                     </del>	-			0.00		+	<del>                                     </del>		
	1		ANNUAL	1		1				<del>                                     </del>	-			0.00		-	<b> </b>		
al Basin Classical			ANNUAL			1				-	-			0.00			<u> </u>		
ch Basin Cleaning*			ANNUAL ANNUAL			1				-				0.00			<u> </u>		
			ANNUAL			1				-				0.00			<u> </u>		
						1				-				0.00			<u> </u>		
			ANNUAL ANNUAL	-		-								0.00			<b> </b>		
-ti- C. to Di			ANNUAL			1				-				0.00			<u> </u>		
otic Sytem Pumping			ANNUAL	-		-								0.00			<b> </b>		
			ANNUAL											0.00			<del> </del>		
			ANNUAL			-					1			0.00					
			ANNUAL			1								0.00			+		
ototal Operations <sup>3</sup>		А	ANNUAL	0				0.00	0.00	0.0	0.00			0.00	Ś	0			
pital Projects (Unmet Oblig	ations from Provious D	ermit Torm	1	, ,	ļ	1		0.00	0.00	0.0	0.00			0.00	Ş	<u> </u>			
ntal Projects (Offiliet Oblig	ations from Frevious F	T Term	1	1	1	1				1	1	l	l	0.00		T	T T		
						1								0.00			<del>                                     </del>		
						1								0.00			<del>                                     </del>		
						1								0.00			<del>                                     </del>		
ototal Capital	1			0				0.00	0.00	0.0	0.00	0.00	0.00		\$	0			
her (Unmet Obligations fro	m Previous Permit Teri	m)						0.00	0.00	0.0	-, 5.00	0.00	0.00	2.00	<u> </u>				
(angations ire		1				T					1			0.00					
			1	1		1				İ	1			0.00			<b>†</b>		
btotal Other				0				0.00	0.00	0.0	0.00	0.00	0.00		Ś	0			
tal of Remaining Obligation	s from The Previous			0				0.00							\$				

								Obligations from F	Previous Perm	it That Must Be	Continued						
Annual Operational Programs Street Sweeping	Required to be Maint		Previous Permi ANNUAL	7	1,603,180.00	1,122.23	336,667.80	1,562.70	320.64			320.64	\$400,00	Complete	2020	IA, TP/TSS/TN Reduction	EIA and load reductions using 2014 Accounting Guidance; reporting only FY20 mass loading (lbs) results.
		A	ANNUAL	7	1,782,403.33	1,247.68	374,304.70	1,737.40	356.48			356.48	\$400,00	Under Construction	2021	IA, TP/TSS/TN Reduction	EIA and load reductions using 2014 Accounting Guidance; planning goal is to achieve an annual average of 351.4 EIA by the end of the current permit (Permit # 21- DP-3318) to maintain the average of street sweeping from 2011-2019 used towards the County's 20% Restoration Target (Permit # 11- DP-3318). Estimated mass loading (lbs) based on annual EIA target.
		A	ANNUAL	7	1,782,403.33	1,247.68	374,304.70	1,737.40	356.48			356.48	\$400,00	D Design	2022	IA, TP/TSS/TN Reduction	EIA and load reductions using 2014 Accounting Guidance; planning goal is to achieve an annual average of 351.4 EIA by the end of the current permit (Permit # 21- DP-3318) to maintain the average of street sweeping from 2011-2019 used towards the County's 20% Restoration Target (Permit # 11- DP-3318). Estimated mass loading (lbs) based on annual EIA target.
		A	ANNUAL	7	1,782,403.33	1,247.68	374,304.70	1,737.40	356.48			356.48	\$400,00	Delanning	2023	IA, TP/TSS/TN Reduction	EIA and load reductions using 2014 Accounting Guidance; planning goal is to achieve an annual average of 351.4 EIA by the end of the current permit (Permit # 21- DP-3318) to maintain the average of street sweeping from 2011-2019 used towards the County's 20% Restoration Target (Permit # 11- DP-3318). Estimated mass loading (lbs) based on annual EIA target.
		A	ANNUAL	7	1,782,403.33	1,247.68	374,304.70	1,737.40	356.48			356.48	\$400,00	Planning	2024	IA, TP/TSS/TN Reduction	EIA and load reductions using 2014 Accounting Guidance; planning goal is to achieve an annual average of 351.4 EIA by the end of the current permit (Permit # 21- DP-3318) to maintain the average of street sweeping from 2011-2019 used towards the County's 20% Restoration Target (Permit # 11- DP-3318). Estimated mass loading (lbs) based on annual EIA target.
		A	ANNUAL	7	1,782,403.33	1,247.68	374,304.70	1,737.40	356.48			356.48	\$400,00	Planning	2025	IA, TP/TSS/TN Reduction	EIA and load reductions using 2014 Accounting Guidance; planning goal is to achieve an annual average of 351.4 EIA by the end of the current permit (Permit # 21- DP-3318) to maintain the average of street sweeping from 2011-2019 used towards the County's 20% Restoration Target (Permit # 11- DP-3318). Estimated mass loading (lbs) based on annual EIA target.
		А	ANNUAL	7	1,782,403.33	1,247.68	374,304.70	1,737.40	356.48			356.48	\$400,00	) Planning	2026	IA, TP/TSS/TN Reduction	EIA and load reductions using 2014 Accounting Guidance; planning goal is to achieve an annual average of 351.4 EIA by the end of the current permit (Permit # 21- DP-3318) to maintain the average of street sweeping from 2011-2019 used towards the County's 20% Restoration Target (Permit # 11- DP-3318). Estimated mass loading (lbs) based on annual EIA target.

	А	ANNUAL		0					0.00		0.00		Planning	2027		The County has not projected street sweeping implementation for 2027 at this time
	А	ANNUAL		0					0.00		0.00		Planning	2028		The County has not projected street sweeping implementation for 2028 at this time
Storm Drain Vacuuming	A	ANNUAL	5	52	92,050.00	64.44	19,330.50	89.73	18.41		18.41	\$75,000	Complete	2020	IA, TP/TSS/TN Reduction	EIA and load reductions using 2014 Accounting Guidance; reporting only FY20 mass loading (lbs) results.
	A	ANNUAL	10	11	379,874.83	265.91	79,773.72	370.28	75.97		75.97	\$75,000	Under Construction	2021	IA, TP/TSS/TN Reduction	EIA and load reductions using 2014 Accounting Guidance; planning goal is to achieve an annual average of 67.8 EIA by the end of the current permit (Permit # 21-DP- 3318) to maintain the average of inlet cleaning from 2017-2019 used towards the County's 20% Restoration Target (Permit # 11- DP-3318). Estimated mass loading (lbs) based on annual EIA target.
	A	ANNUAL	10	11	379,874.83	265.91	79,773.72	370.28	75.97		75.97	\$75,000	) Design	2022	IA, TP/TSS/TN Reduction	EIA and load reductions using 2014 Accounting Guidance; planning goal is to achieve an annual average of 67.8 EIA by the end of the current permit (Permit # 21-DP- 3318) to maintain the average of inlet cleaning from 2017-2019 used towards the County's 20% Restoration Target (Permit # 11- DP-3318). Estimated mass loading (lbs) based on annual EIA target.
	A	ANNUAL	10	11	379,874.83	265.91	79,773.72	370.28	75.97		75.97	\$75,000	) Planning	2023	IA, TP/TSS/TN Reduction	EIA and load reductions using 2014 Accounting Guidance; planning goal is to achieve an annual average of 67.8 EIA by the end of the current permit (Permit # 21-DP- 3318) to maintain the average of inlet cleaning from 2017-2019 used towards the County's 20% Restoration Target (Permit # 11- DP-3318). Estimated mass loading (lbs) based on annual EIA target.
	A	ANNUAL	10	)1	379,874.83	265.91	79,773.72	370.28	75.97		75.97	\$75,000	Planning	2024	IA, TP/TSS/TN Reduction	EIA and load reductions using 2014 Accounting Guidance; planning goal is to achieve an annual average of 67.8 EIA by the end of the current permit (Permit # 21-DP- 3318) to maintain the average of inlet cleaning from 2017-2019 used towards the County's 20% Restoration Target (Permit # 11- DP-3318). Estimated mass loading (lbs) based on annual EIA target.
	A	ANNUAL	10	)1	379,874.83	265.91	79,773.72	370.28	75.97		75.97	\$75,000	Planning	2025	IA, TP/TSS/TN Reduction	EIA and load reductions using 2014 Accounting Guidance; planning goal is to achieve an annual average of 67.8 EIA by the end of the current permit (Permit # 21-DP- 3318) to maintain the average of inlet cleaning from 2017-2019 used towards the County's 20% Restoration Target (Permit # 11- DP-3318). Estimated mass loading (lbs) based on annual EIA target.

	A	ANNUAL	10	1	379,874.83	265.91	79,773.72	370.28	75.97		75.97	\$75,000 P	lanning	2026	IA, TP/TSS/TN Reduction	EIA and load reductions using 2014 Accounting Guidance; planning goal is to achieve an annual average of 67.8 EIA by the
																end of the current permit (Permit # 21-DP- 3318) to maintain the average of inlet
																cleaning from 2017-2019 used towards the County's 20% Restoration Target (Permit # 11- DP-3318). Estimated mass loading (lbs) based
																on annual EIA target.
	А	ANNUAL		0					0.00		0.00	P	lanning	2027		The County has not projected storm drain vacuuming implementation for 2027 at this
	A	ANNUAL		0					0.00		0.00	P	lanning	2028		time The County has not projected storm drain
		ANNOAL							0.00		0.00	i i	iuiiiiig	2020		vacuuming implementation for 2028 at this time
Septic Sytem Pumping	A	ANNUAL	50	0					15.00		15.00	C	omplete	2020	IA	EIA using 2014 Accounting Guidance;
																reporting only FY20 septic system pump-outs
	А	ANNUAL	69	6					20.88		20.88		Inder	2021	IA	EIA using 2014 Accounting Guidance;
												C	construction			planning goal is to achieve 140.3 EIA by the end of the current permit (Permit # 21-DP-
																3318) to maintain the sum of 2015-2019
																septic pump-outs used towards the County's
																20% Restoration Target (Permit # 11-DP-
																3318). Estimated septic system pump-outs
									20.00		20.00	-		2022	IA	derived from EIA target.
	A	ANNUAL	69	ь					20.88		20.88	D	esign	2022	IA	EIA using 2014 Accounting Guidance; planning goal is to achieve 140.3 EIA by the
																end of the current permit (Permit # 21-DP-
																3318) to maintain the sum of 2015-2019
																septic pump-outs used towards the County's
																20% Restoration Target (Permit # 11-DP-
																3318). Estimated septic system pump-outs
									20.00		20.00			2022		derived from EIA target.
	A	ANNUAL	69	6					20.88		20.88	P	lanning	2023	IA	EIA using 2014 Accounting Guidance; planning goal is to achieve 140.3 EIA by the
																end of the current permit (Permit # 21-DP-
																3318) to maintain the sum of 2015-2019
																septic pump-outs used towards the County's
																20% Restoration Target (Permit # 11-DP-
																3318). Estimated septic system pump-outs
	A	ANNUAL	69						20.88		20.88	D	lanning	2024	10	derived from EIA target. EIA using 2014 Accounting Guidance;
	A	ANNUAL	69	О					20.88		20.88	P	lanning	2024	IA	planning goal is to achieve 140.3 EIA by the
																end of the current permit (Permit # 21-DP-
																3318) to maintain the sum of 2015-2019
																septic pump-outs used towards the County's
																20% Restoration Target (Permit # 11-DP-
																3318). Estimated septic system pump-outs
<u> </u>	A	ANNUAL	69	6	+				20.88		20.88	D	lanning	2025	IA.	derived from EIA target. EIA using 2014 Accounting Guidance;
	^	ANNUAL	69	ŭ					20.88		20.00	P	iaiiiiiig	2023	10	planning goal is to achieve 140.3 EIA by the
														1		end of the current permit (Permit # 21-DP-
														1		3318) to maintain the sum of 2015-2019
														1		septic pump-outs used towards the County's
																20% Restoration Target (Permit # 11-DP-
																3318). Estimated septic system pump-outs
1					[		1	l		1						derived from EIA target.

		А	ANNUAL	696					20.88			20.88		Planning	2026	IA	EIA using 2014 Accounting Guidance; planning goal is to achieve 140.3 EIA by the end of the current permit (Permit # 21-DP- 3318) to maintain the sum of 2015-2019 septic pump-outs used towards the County's 20% Restoration Target (Permit # 11-DP- 3318). Estimated septic system pump-outs derived from EIA target.
		А	ANNUAL	0					0.00			0.00		Planning	2027		The County has not projected septic pumpouts for 2027 at this time
		А	ANNUAL	0					0.00			0.00		Planning	2028		The County has not projected septic pumpouts for 2028 at this time
Subtotal Operations <sup>3</sup>						1,466.9	440,067.0	2,042.6	559.4			559.4	\$3,325,000	)			
			•			-	•	Capital Projects (Pro	oposed to Re	place Annual Oblig	ations)			•			
												0.00					
												0.00					
												0.00					
Subtotal Capital						0.00	0.00	0.00	0.00	0.00	0.00		\$n				
Other (Proposed to Replace An	nual Obligations)			l o		0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$0				
Other (Froposed to Replace All	iliuai Obligations)	l	1		T T	1	1		1			0.00		1	1		
												0.00		<u> </u>			
Subtotal Other				0		0.00	0.00	0.00	0.00	0.00	0.00		\$0				
Total of Obligations from Previous Permit That Must Be Continued				0		1,466.9	440,067.0	2,042.6	559.4	0.0	0.0	559.4	\$3,325,000	)			

								Proposed R	Restoration	for the Next Permi	it					
Operational Programs <sup>4</sup>								. roposcu i	testor atron	ior the Heat Fermi						
Street Sweeping		А	ANNUAL													
		А	ANNUAL													
		Α	ANNUAL													
		А	ANNUAL													
		Α	ANNUAL													
Catch Basin Cleaning		А	ANNUAL													
0		Α	ANNUAL													
		Α	ANNUAL													
		А	ANNUAL													
		A	ANNUAL													
Septic Sytem Pumping		A	ANNUAL													
		A	ANNUAL		1											
		Α	ANNUAL													
		Α	ANNUAL													
		А	ANNUAL													
Subtotal Operations (up to	2026)5			0		0	0	0	0		0	ŚC	)			
Capital Projects						-							1	1		
HO17ALN000063	OUT	А	PERMANENT	1 11.50	84.50	0.00	0.00	0.00	0.00		0.00	\$40.000	Complete	2019		non-qualifying outfall project
HO17ALN000069	STRE	A	PERMANENT	1 14.22			125,260.00	112.53	17.65		17.65	\$50,000			IA, TP/TSS/TN Reduction	protocols
HO18ALN000035	STRE	A	PERMANENT	1 35.74		143.47	735,765.60	1,600.31	89.37		89.37	\$694,682			IA, TP/TSS/TN Reduction	protocols
HO18ALN000092	STRE	A	PERMANENT	1 4,745.0		257.00	668,000.00	635.60	80.06		80.06	\$2,445,033	Complete		IA, TP/TSS/TN Reduction	protocols
HO18ALN000093	STRE	A	PERMANENT	1 1,644.70			681,456.29	336.83	64.49		64.49	\$987,755	Complete		IA, TP/TSS/TN Reduction	protocols
HO18ALN000096	STRE	A	PERMANENT	1 4.50		15.47	130,578.00	19.48	8.20		8.20		Complete		IA, TP/TSS/TN Reduction	protocols
HO18ALN000136	OUT	A	PERMANENT	1 300.94		0.00	0.00	0.00	0.00		0.00		Complete	2018		non-qualifying outfall project
HO18ALN000136	STRE	A	PERMANENT	1 2,486.43		826.90	362.70	63.37	130.64		130.64	\$4,779,000			IA, TP/TSS/TN Reduction	protocols
HO18ALN000149	STRE	A	PERMANENT	1 2,486.43		0.00	0.00	0.00	0.00		0.00	\$4,779,000		2019		· ·
HO19ALN000130	STRE	A	PERMANENT	1 6.1	· · · · · · · · · · · · · · · · · · ·	0.63	1,664.38	1.02	0.00		0.00	\$50,000			IA, TP/TSS/TN Reduction	cannot calculate; no protocol data
HO19ALN000130	STRE	A	PERMANENT	1 53.3			242.364.91	206.28	28.83		28.83	\$1,041,573	Complete Complete		IA. TP/TSS/TN Reduction	protocols
HO20ALN000103	STRE	A	PERMANENT	1 1,273.29	,		2,729,886.53	2,275.42	274.53		274.53	1 /- /-			IA, TP/TSS/TN Reduction	protocols
HO20ALN000102 HO20ALN000153	OUT	A	PERMANENT	1 1,2/3.25	+ + +		2,729,886.53	2,275.42	0.00		0.00	\$3,950,296 \$256,587	Complete Complete	2020		
		A	PERMANENT	1 12.19			0.00		0.00		0.00	1 /		2019		non-qualifying outfall project
HO20ALN000154 HO20ALN000155	OUT STRE		PERMANENT	1 139.00			360,618.96	0.00 361.01	50.82		50.82	\$145,000 \$1,496,196			IA, TP/TSS/TN Reduction	non-qualifying outfall project
HO20ALN000155 HO20ALN000163	STRE	A	PERMANENT	1 139.00	· · · · · · · · · · · · · · · · · · ·		77.580.00		4.99		4.99					protocols
							,	11.57			0.00	\$1,979,072			IA, TP/TSS/TN Reduction	protocols
HO20ALN000171	OUT	Α Α	PERMANENT	1 6.6			0.00	0.00	0.00			\$150,000		2021		non-qualifying outfall project
HO21ALN000145	STRE		PERMANENT	1 897.3		45.97	167,648.00	37.81	13.52		13.52 5.43	\$972,422	Planning		IA, TP/TSS/TN Reduction	planning rate
HO20ALN000141	STRE	A	PERMANENT	1 2			67,272.74	17.06	5.43		2.65	\$575,437	Planning		IA, TP/TSS/TN Reduction	planning rate
HO21ALN000138	OUT	A	PERMANENT				26.19	9.58	2.65			\$200,000			IA, TP/TSS/TN Reduction	Designer's current protocol reductions
HO21ALN000137	STRE	A	PERMANENT	1 90.:			210,473.00	76.64	26.187		26.187	\$1,104,376			IA, TP/TSS/TN Reduction	Designer's current protocol reductions
HO18ALN000086	OUT	A	PERMANENT	1 32.9			8,938.73	2.13	0.72		0.72		Planning		IA, TP/TSS/TN Reduction	planning rate
HO20ALN000173	STRE	A	PERMANENT	1 69.4		4.90	17,856.00	4.53	1.44		1.44		Planning		IA, TP/TSS/TN Reduction	planning rate
HO20ALN000140	STRE	A	PERMANENT	1 25.50		33.69	122,881.16	31.16	9.91		9.91	\$659,913			IA, TP/TSS/TN Reduction	planning rate
HO20ALN000174	STRE	A	PERMANENT	1 80			0.00	0.00	0.00		0.00		Complete	2020		uncreditable
HO19ALN000125	STRE	A	PERMANENT	1 24.5			14,726.24	3.32	1.19		1.19	\$1,054,965			IA, TP/TSS/TN Reduction	planning rate
HO19ALN000126	OUT	A	PERMANENT	1 0.08		11.91	43,447.27	9.8	3.5		3.5		Planning		IA, TP/TSS/TN Reduction	planning rate
HO19ALN000127	OUT	A	PERMANENT	1 0.84		21.94	80,024.87	18.05	6.45		6.45		Planning		IA, TP/TSS/TN Reduction	planning rate
HO20ALN000112	STRE	A	PERMANENT	1 583.1			532,208.00	134.96	42.92		42.92	\$1,745,000			IA, TP/TSS/TN Reduction	planning rate
HO20ALN000113	STRE	A	PERMANENT	1 6.4			42,656.00	10.82	3.44		3.44		Planning		IA, TP/TSS/TN Reduction	planning rate
HO21ALN000177	STRE	A	PERMANENT	1 51.		29.78	108,624.00	27.55	8.76		8.76		Planning		IA, TP/TSS/TN Reduction	planning rate
HO21ALN000178	STRE	A	PERMANENT	1 39.4			70,928.00	17.99	5.72		5.72		Planning		IA, TP/TSS/TN Reduction	planning rate
HO21ALN000179	OUT	A	PERMANENT	1	92.00		22,816.00	5.79	1.84		1.84		Planning		IA, TP/TSS/TN Reduction	planning rate
HO20ALN000161	STRE	A	PERMANENT	1 192.3			86,596.27	21.96	6.98		6.98		Planning		IA, TP/TSS/TN Reduction	planning rate
HO21ALN000142	STRE	A	PERMANENT	1 26.63			51,922.93	12.37	4.19		4.19		Planning		IA, TP/TSS/TN Reduction	planning rate
HO20ALN000151	STRE	A	PERMANENT	1 89.6		39.51	144,111.91	32.5	11.62		11.62	\$1,648,920			IA, TP/TSS/TN Reduction	planning rate
HO18ALN000007	OUT	A	PERMANENT	1 1.3		15.54	56,658.08	10.62	4.57		4.57	\$810,666			IA, TP/TSS/TN Reduction	planning rate
HO21ALN000143	STRE	Α	PERMANENT	1 1,235.00	3,467.00	235.76	859,816.00	193.91	69.34		69.34	\$3,095,465		2023	IA, TP/TSS/TN Reduction	planning rate
HO21ALN000144	STRE	A	PERMANENT	1 64.14	710.90	48.34	176,292.59	39.76	14.22		14.22	\$687,852	Construction	2025	IA, TP/TSS/TN Reduction	planning rate
HO19ALN000128	STRE	A	PERMANENT	1 57.39		94.04	342.969.88	86.97	27.66		27.66		Planning		IA, TP/TSS/TN Reduction	planning rate
HO20ALN000124	STRE	A	PERMANENT	1 130.9		244.08	890,164.69	200.76	71.79		71.79	\$2,468,446			IA, TP/TSS/TN Reduction	planning rate planning rate
HO21ALN000124	STRE	A	PERMANENT	1 11.356.0		103.8	378.572.00	200.76	30.53		30.53		Planning		IA. TP/TSS/TN Reduction	•
HO21ALN000120 HO23ALN000180		A	PERMANENT	1 11,356.00	2,000.00		496,000.00	111.00	30.53 40.0		30.53 40.0	\$800,000			, , ,	planning rate
HO23ALN000180 HO19APY100163	STRE RFP	A	PERMANENT	0.20	· · · · · · · · · · · · · · · · · · ·	136.00 0.50	496,000.00 882.20	111.86	0.30		40.0 0.30	\$2,850,000			IA, TP/TSS/TN Reduction IA, TP/TSS/TN Reduction	planning rate; estimated LF
HO19APY100163 HO19APY100166	RFP	A	PERMANENT	0.20		0.50	882.20 441.10	2.14 1.07	0.30		0.30	\$C \$500	complete		IA, TP/TSS/TN Reduction IA, TP/TSS/TN Reduction	
	RFP			0.10					0.15							
HO18APY100048	RFP	Α	PERMANENT	0.50	<u> </u>	1.25	2,205.50	4.44	0.75		0.75	\$4,555	Complete	2018	IA, TP/TSS/TN Reduction	

HO19APY100167	RFP	Α	PERMANENT	0.77	1.93	3,396.47	6.84	1.16	1.16	\$0 Complete	2018 IA	A, TP/TSS/TN Reduction	
HO18APY100037	FPU	Α	PERMANENT	0.75	1.34	2,103.75	1.39	0.83	0.83 \$	7,860 Complete	2018 IA	A, TP/TSS/TN Reduction	
HO18APY100038	UTC	Α	PERMANENT	0.70	0.35	144.20	1.77	0.20	0.20 \$	3,075 Complete	2018 IA	A, TP/TSS/TN Reduction	
HO18APY100039	RFP	Α	PERMANENT	0.70	1.75	3,087.70	1.37	1.05	1.05 \$	3,720 Complete	2018 IA	A, TP/TSS/TN Reduction	
HO18APY100045	UTC	Α	PERMANENT	0.50	0.25	103.00	1.26	0.14	0.14 \$	3,938 Complete	2018 IA	A, TP/TSS/TN Reduction	
HO18APY100049	FPU	A	PERMANENT	0.25	0.45	701.25	2.19	0.28		3,075 Complete		A, TP/TSS/TN Reduction	
HO18APY100040	UTC	Α Α	PERMANENT	0.75	0.38	154.50	1.89	0.21		9,188 Complete		A, TP/TSS/TN Reduction	
HO19APY100169	RFP	A	PERMANENT	0.10	0.25	435.54	1.19	0.15		1,278 Complete		A, TP/TSS/TN Reduction	
HO19APY100170	RFP	A	PERMANENT	0.17	0.42	742.37	2.02	0.25		1,813 Complete		A. TP/TSS/TN Reduction	
HO19APY100170	RFP	A	PERMANENT	0.19	0.48	839.41	2.29	0.29		1,822 Complete		A, TP/TSS/TN Reduction	
HO19APY100171	RFP		PERMANENT	0.19	0.40	705.32	0.31	0.23		2.482 Complete		A. TP/TSS/TN Reduction	
		A								,		, , ,	
HO19APY100173	RFP		PERMANENT	0.13	0.33	585.78	1.60	0.20		2,365 Complete		A, TP/TSS/TN Reduction	<del> </del>
HO19APY100174	RFP	A	PERMANENT	0.14	0.36	628.57	1.61	0.21		1,920 Complete		A, TP/TSS/TN Reduction	<u> </u>
HO19APY100175	FPU	А	PERMANENT	0.01	0.01	16.55	0.05	0.01		\$379 Complete		A, TP/TSS/TN Reduction	<del> </del>
HO19APY100168	FPU		PERMANENT	1.54	2.74	4,319.70	15.04	1.69		1,200 Complete		A, TP/TSS/TN Reduction	
HO19APY100176	RFP		PERMANENT	0.35	0.87	1,539.88	0.83	0.52		4,502 Complete		A, TP/TSS/TN Reduction	
HO19APY100177	UTC	Α	PERMANENT	0.07	0.03	13.74	0.17	0.02		2,203 Complete		A, TP/TSS/TN Reduction	
HO19APY100178	FPU	Α	PERMANENT	0.18	0.33	512.19	1.51	0.20		\$417 Complete		A, TP/TSS/TN Reduction	1
HO19APY100195	RFP	Α	PERMANENT	0.43	1.08	1,897.17	1.03	0.65	0.65 \$	2,954 Complete	2019 IA	A, TP/TSS/TN Reduction	
HO20APY100344	RFP	Α	PERMANENT	0.43	1.08	1,897.17	1.03	0.65	 0.65	\$0 Complete	2019 IA	A, TP/TSS/TN Reduction	
HO19APY100164	RFP	Α	PERMANENT	2.09	5.23	9,218.99	25.13	3.14	3.14 \$	7,730 Complete	2019 IA	A, TP/TSS/TN Reduction	
HO19APY100194	RFP	А	PERMANENT	0.36	0.90	1,587.96	1.65	0.54	0.54 \$	3,492 Complete		A, TP/TSS/TN Reduction	
HO19APY100205	FPU	А	PERMANENT	0.24	0.43	673.20	2.10	0.26		2,912 Complete		A, TP/TSS/TN Reduction	
HO19APY100192	RFP		PERMANENT	0.40	1.00	1,764.40	4.28	0.60		6,958 Complete		A, TP/TSS/TN Reduction	
HO19APY100208	RFP		PERMANENT	4.00	10.00	17.644.00	35.54	6.00		6,958 Complete		A. TP/TSS/TN Reduction	
HO19APY100193	RFP		PERMANENT	0.24	0.60	1.058.64	2.71	0.36		2,954 Complete		A, TP/TSS/TN Reduction	
HO19APY100198	UTC	A	PERMANENT	0.25	0.13	51.50	0.63	0.07		3,005 Complete		A, TP/TSS/TN Reduction	
HO19APY100198	RFP	A	PERMANENT	0.15	0.15	661.65	0.36	0.07				A, TP/TSS/TN Reduction	
HO19APY100199			PERMANENT	1.23		3,450.15	10.20						
	FPU	Α Α			2.19			1.35		6,294 Complete		A, TP/TSS/TN Reduction	<del></del>
HO19APY100206	UTC		PERMANENT	0.23	0.12	47.38	0.12	0.06		2,845 Complete		A, TP/TSS/TN Reduction	<del>                                     </del>
HO19APY100191	FPU	A	PERMANENT	0.22	0.39	617.10	1.93	0.24		2,522 Complete		A, TP/TSS/TN Reduction	<del> </del>
HO19APY100204	UTC	Α	PERMANENT	0.68	0.34	140.08	0.69	0.19		6,122 Complete		A, TP/TSS/TN Reduction	
HO19APY100190	UTC	Α	PERMANENT	0.70	0.35	144.20	1.77	0.20		0,699 Complete		A, TP/TSS/TN Reduction	
HO19APY100202	RFP		PERMANENT	0.53	1.33	2,337.83	1.26	0.80		4,562 Complete		A, TP/TSS/TN Reduction	
HO19APY100200	RFP	Α	PERMANENT	0.52	1.30	2,293.72	4.26	0.78		2,848 Complete	2019 IA	A, TP/TSS/TN Reduction	
HO19APY100207	FPU	Α	PERMANENT	0.35	0.62	981.75	2.90	0.39		3,891 Complete		A, TP/TSS/TN Reduction	
HO19APY100201	UTC	Α	PERMANENT	0.72	0.36	148.32	0.74	0.20	0.20 \$	4,745 Complete	2019 IA	A, TP/TSS/TN Reduction	ı
HO19APY100203	UTC	Α	PERMANENT	0.40	0.20	82.40	1.01	0.11	0.11 \$	6,394 Complete	2019 IA	A, TP/TSS/TN Reduction	i l
HO19APY100179	RFP	Α	PERMANENT	0.16	0.40	709.73	1.93	0.24	0.24 \$	1,633 Complete	2019 IA	A, TP/TSS/TN Reduction	
HO19APY100180	FPU	Α	PERMANENT	0.05	0.09	140.25	0.44	0.06	0.06	\$676 Complete	2019 IA	A, TP/TSS/TN Reduction	
HO19APY100181	UTC	Α	PERMANENT	0.44	0.22	90.64	1.11	0.12	0.12 \$	5,359 Complete	2019 IA	A, TP/TSS/TN Reduction	
HO19APY100182	FPU	Α	PERMANENT	0.26	0.46	729.30	2.28	0.29	0.29 \$	3,227 Complete	2019 IA	A, TP/TSS/TN Reduction	
HO19APY100183	RFP	Α	PERMANENT	0.81	2.03	3,572,91	3.71	1.22		1,335 Complete		A. TP/TSS/TN Reduction	
HO19APY100184	RFP	Α	PERMANENT	0.29	0.73	1,279.19	0.69	0.44		3,330 Complete		A, TP/TSS/TN Reduction	
HO19APY100185	UTC		PERMANENT	0.25	0.13	51.50	0.63	0.07		2,923 Complete		A, TP/TSS/TN Reduction	
HO19APY100186	FPU	A	PERMANENT	0.25	0.45	701.25	2.44	0.28		2,927 Complete		A, TP/TSS/TN Reduction	<del></del>
HO19APY100187	FPU	A	PERMANENT	0.41	0.73	1,150.05	3.40	0.45		2,207 Complete		A, TP/TSS/TN Reduction	
HO19APY100187	UTC	Α Α	PERMANENT	0.33	0.73	67.98	0.89	0.43		2,225 Complete		A, TP/TSS/TN Reduction	
HO19APY100188 HO19APY100196	RFP	Α Α	PERMANENT	0.57	1.43	2.514.27	6.44	0.09		8,428 Complete		A, TP/TSS/TN Reduction	
	RFP	A	PERMANENT	0.57	1.43	3,087,70	7.49						
HO19APY100197 HO20APY100347	RFP		PERMANENT			3,087.70 5.469.64		1.05		1,303 Complete		A, TP/TSS/TN Reduction	
		A		1.24	3.10	-,	13.26	1.86	1.86	\$0 Complete		A, TP/TSS/TN Reduction	<del>,</del>
HO20APY100348	UTC		PERMANENT	0.58	0.29	119.48	1.06	0.16	0.16	\$0 Complete		A, TP/TSS/TN Reduction	
HO20APY100341	RFP		PERMANENT	0.03	0.06	110.28	0.3	0.04	0.04	\$0 Complete		A, TP/TSS/TN Reduction	<u> </u>
HO20APY100346	UTC		PERMANENT	0.52	0.26	107.12	0.95	0.15	0.15	\$0 Complete		A, TP/TSS/TN Reduction	
HO20APY100349	FPU	Α	PERMANENT	0.25	0.45	701.25	2.19	0.28	0.28	\$0 Complete		A, TP/TSS/TN Reduction	
HO20APY100352	UTC	Α	PERMANENT	0.25	0.13	51.50	0.26	0.07	0.07	\$0 Complete		A, TP/TSS/TN Reduction	
HO20APY100353	UTC		PERMANENT	1.38	0.69	284.28	1.41	0.39	0.39	\$0 Complete		, TP/TSS/TN Reduction	
HO20APY100338	RFP	Α	PERMANENT	0.87	2.17	3,824.34	1.69	1.3	1.3	\$0 Complete	2019 IA	A, TP/TSS/TN Reduction	
HO20APY100355	FPU	Α	PERMANENT	0.29	0.52	813.45	2.40	0.32	 0.32	\$0 Complete	2019 IA	A, TP/TSS/TN Reduction	
HO20APY100350	UTC	Α	PERMANENT	1.10	0.55	225.57	2.76	0.31	0.31	\$0 Complete	2019 IA	A, TP/TSS/TN Reduction	
HO20APY100351	RFP	А	PERMANENT	0.33	0.83	1,455.63	0.79	0.50	0.50	\$0 Complete	2019 IA	A, TP/TSS/TN Reduction	
HO20APY100354	RFP		PERMANENT	0.25	0.63	1,102.75	2.05	0.38	0.38	\$0 Complete		A, TP/TSS/TN Reduction	
HO20APY100345	UTC	A	PERMANENT	0.66	0.33	136.58	1.21	0.19	0.19	\$0 Complete		A, TP/TSS/TN Reduction	-
HO20APY100337	UTC	A	PERMANENT	0.02	0.01	3.13	0.04	0.00	0.00	\$0 Complete		A, TP/TSS/TN Reduction	
HO20APY100339	RFP	A	PERMANENT	0.13	0.33	583.04	1.17	0.20	0.20	\$0 Complete		A, TP/TSS/TN Reduction	
HO20APY100340	RFP		PERMANENT	0.05	0.13	222.83	0.61	0.28	0.08	\$0 Complete		A, TP/TSS/TN Reduction	<del></del>
	pot r	А	LUMPANENI	0.03	0.13	222.03	0.01	0.08	0.00	Poleombier	. 2020 IA	n, 11 / 155/ TN Neudellon	, I

SIGNAMES   17					, ,									1
Composition   197	HO20APY100336	RFP	Α	PERMANENT			369.14	1.01	0.13		\$0 Complete			
1985   1985	HO20APY100342	RFP	Α	PERMANENT	0.12	0.29	513.82	1.25	0.17			2019	IA, TP/TSS/TN Reduction	
1000000000000000000000000000000000000	HO20APY100343	RFP	Α	PERMANENT	0.07	0.17	293.12	0.71	0.10	0.10	\$0 Complete			
Section   17	HO20APY100329	RFP	Α	PERMANENT	0.23	0.54	944.21	0.51	0.32	0.32	\$0 Complete	2019	IA, TP/TSS/TN Reduction	
1995   1995	HO20APY100356	FPU	Α	PERMANENT	0.43	0.73	1,150.05	0.98	0.45	0.45	\$0 Complete	2020	IA, TP/TSS/TN Reduction	
Coloration   17	HO20APY100330	RFP	Α	PERMANENT	0.05	0.12	217.65	0.44	0.074	0.074	\$0 Complete	2008	IA, TP/TSS/TN Reduction	
Company   Comp	HO20APY100331	RFP	Α	PERMANENT	0.05	0.12	218.74	0.60	0.074			2008	IA. TP/TSS/TN Reduction	
10       10     10     10     10     10     10     10     10     10       10       10			А											
Story														
SQUARDERS   N.   A   MANAGET   3.08   3.06   3.07   3.06   3.08			Α											
Company   Comp											<del></del>			
Schemen														
Column													, , ,	<del> </del>
Columnia			_											
Color														
15   15   15   15   15   15   15   15							0.70							1
SOLYMONIS    C														<del>                                     </del>
March   Marc			,,,											<del>                                     </del>
MONOPORTINE   190   19														4
## COLOROGICAL PULL A PERMANET C.S														
## OLEAN COLORS   FC   A FEARMENT   C.O.   C														4
Mile   March   Mile														1
## SEMPROPERS   FIT   A   PERMONENT   O.S.   O.D.   2.00   2.00   0.00	HO13APY000005		A											
MONOPORTION   ITC   A   PRINCEPTED   OR   OR   OR   OR   OR   OR   OR   O	HO13APY000006	UTC	Α	PERMANENT	0.00	0.00	0.78	0.01	0.001		60 Complete	2013	IA, TP/TSS/TN Reduction	
CLAPPOINT   CLAP	HO13APY000152	UTC	A	PERMANENT	0.03	0.01	2.06	0.02	0.003	0.003 \$	60 Complete	2013	IA, TP/TSS/TN Reduction	
MOMENT   DEC.   A PRIMARY   DEC.	HO13APY000167	UTC	Α	PERMANENT	0.03	0.01	2.06	0.02	0.003	0.003	60 Complete	2013	IA, TP/TSS/TN Reduction	
MOMENT   DEC.   A PRIMARY   DEC.	HO13APY000170	UTC	Α	PERMANENT	0.03	0.01	2.06	0.03	0.003	0.003	60 Complete	2013	IA, TP/TSS/TN Reduction	
Millar   M		UTC	Α	PERMANENT			2.06							
Miles	HO13APY000172		Α											
STAMPORDIT   STC   A PERMANENT   0.02   0.05   0.07   0.31   0.001   0.001   0.001   566 Complete   231   A TYPISTYN Reduction   COLUMN COLU	HO13APY000173	UTC	А	PERMANENT	0.0	0.01	2.06	0.03	0.003			2013	IA. TP/TSS/TN Reduction	
WILLIAMPORDERS   CIT   A PREMANENT   CO   CO   CO   CO   CO   CO   CO   C														
NO SAMPONZONO   OTC   A PERMANENT   0.01   0.00														
HOLJAPPORGES  UTC   A   PERMANENT   O.0														<del>                                     </del>
HOLSPAPPOORSE  UTC   A   PERMANENT   0.01   0.01   2.66   0.05   0.003   0.003   560 Complete   2013 A, TF/SSAP Reduction														<del>                                     </del>
MOLJAPPODDES    UTC   A PERMANENT   0.01   0.02   2.06   0.09   0.000   0.003   500 Complete   20.01   N. T75757N Reduction   M. T001														1
HOLSAMPORDER  UTC   A PERMANENT   0.01   0.01   0.01   0.01   0.00   0.00   0.000   0.000   500   0.000   500   0.000   1.7755/TM Reduction   1.001   1.001   0.01   0.01   0.001   0.001   0.000   0.000   0.000   0.000   500   0.000   1.0000   1														
HOLSAMPORDISS  UTC   A PERAMENT    0.01   0.01   0.01   2.06   0.03   0.008   0.003   50 Complete   2013 A, PTFSSTN Reduction   1001APMORDISS  UTC   A PERAMENT    0.01   0.01   2.06   0.01   0.008   0.009   50 Complete   2013 A, PTFSSTN Reduction   1001APMORDISS  UTC   A PERAMENT    0.01   0.01   2.06   0.01   0.008   0.009   50 Complete   2013 A, PTFSSTN Reduction   1001APMORDISS  UTC   A PERAMENT    0.01   0.01   2.06   0.01   0.008   0.009   0.009   50 Complete   2013 A, PTFSSTN Reduction   1001APMORDISS  UTC   A PERAMENT    0.01   0.01   0.01   2.06   0.01   0.008   0.009   0.005   50 Complete   2013 A, PTFSSTN Reduction   1001APMORDISS  UTC   A PERAMENT    0.01   0.01   0.01   2.06   0.01   0.008   0.009   0.005   50 Complete   2013 A, PTFSSTN Reduction   1001APMORDISS  UTC   A PERAMENT    0.01   0.01   0.01   2.06   0.01   0.008   0.009   0.005   50 Complete   2013 A, PTFSSTN Reduction   1001APMORDISS  UTC   A PERAMENT    0.01   0.01   0.01   2.06   0.01   0.008   0.005   50 Complete   2013 A, PTFSSTN Reduction   1001APMORDISS  UTC   A PERAMENT    0.01   0.01   0.01   2.06   0.01   0.008   0.005   50 Complete   2013 A, PTFSSTN Reduction   1001APMORDISS  UTC   A PERAMENT    0.01   0.01   0.01   0.01   0.01   0.00   0.009   0.009   0.009   0.000   50 Complete   2013 A, PTFSSTN Reduction   1001APMORDISS  UTC   A PERAMENT    0.01   0.01   0.01   0.01   0.00   0.00   0.009   0.009   0.009   50 Complete   2013 A, PTFSSTN Reduction   1001APMORDISS  UTC   A PERAMENT    0.00   0.00   0.00   0.00   0.00   0.00   50 Complete   2013 A, PTFSSTN Reduction   1001APMORDISS  UTC   A PERAMENT    0.00   0.00   0.00   0.00   0.00   0.00   50 Complete   2013 A, PTFSSTN Reduction   1001APMORDISS  UTC   A PERAMENT    0.00   0.00   0.00   0.00   0.00   0.00   50 Complete   2013 A, PTFSSTN Reduction   1001APMORDISS  UTC   A PERAMENT    0.00   0.00   0.00   0.00   0.00   0.00   50 Complete   2013 A, PTFSSTN Reduction   1001APMORDISS  UTC   A PERAMENT    0.00   0.00   0.00   0.00   0.00   0.00   0.00   50 Complete   2013 A, PTFSS														1
HOLSAPPOODS   UTC														<del> </del>
HOLSAPPOODS   UTC   A PERMANENT   O.01   O.02   O.03   O.03   O.00   Sel Complete   2013   A, TPT/SST/N Reduction														<u> </u>
HO3APP000329														4
HO134P000322   UTC   A PERMANENT   0.01   0.01   2.06   0.01   0.003   0.003   550   Complete   2013   A, PFISS/TN Reduction   HO134P000323   UTC   A PERMANENT   0.01   0.01   2.06   0.01   0.003   0.003   550   Complete   2013   A, PFISS/TN Reduction   HO134P000329   UTC   A PERMANENT   0.01   0.01   2.06   0.01   0.003   0.003   550   Complete   2013   A, PFISS/TN Reduction   HO134P000329   UTC   A PERMANENT   0.01   0.01   0.01   2.06   0.03   0.003   550   Complete   2013   A, PFISS/TN Reduction   HO134P000329   UTC   A PERMANENT   0.01   0.01   2.06   0.03   0.003   550   Complete   2013   A, PFISS/TN Reduction   HO134P000329   UTC   A PERMANENT   0.01   0.01   2.06   0.03   0.003   550   Complete   2013   A, PFISS/TN Reduction   HO134P0000349   UTC   A PERMANENT   0.00   0.00   0.78   0.01   0.001   0.001   550   Complete   2013   A, PFISS/TN Reduction   HO134P0000349   UTC   A PERMANENT   0.00   0.00   0.78   0.01   0.001   0.001   550   Complete   2013   A, PFISS/TN Reduction   HO134P0000349   UTC   A PERMANENT   0.00   0.00   0.78   0.01   0.001   550   Complete   2013   A, PFISS/TN Reduction   HO134P0000349   UTC   A PERMANENT   0.01   0.01   0.02   2.06   0.03   0.003   0.003   550   Complete   2013   A, PFISS/TN Reduction   HO134P0000359   UTC   A PERMANENT   0.01   0.01   0.02   2.06   0.03   0.003   0.003   550   Complete   2013   A, PFISS/TN Reduction   HO134P0000359   UTC   A PERMANENT   0.01   0.01   0.02   2.06   0.03   0.003   0.003   550   Complete   2013   A, PFISS/TN Reduction   HO134P0000359   UTC   A PERMANENT   0.01   0.001   0.001   0.001   0.001   550   Complete   2013   A, PFISS/TN Reduction   HO134P0000359   UTC   A PERMANENT   0.01   0.001														
HOLJAPPOWD222   UTC   A   PERMARENT   O.D.														1
HO33APP000323   UTC   A   PERMANENT   0.01   0.01   0.01   2.06   0.01   0.003   0.003   0.008   560 Complete   2.013   A, TPT/SST/N Reduction   HO33APP000329   UTC   A   PERMANENT   0.01   0.01   0.01   2.06   0.08   0.003   0.003   560 Complete   2.013   A, TPT/SST/N Reduction   HO33APP000324   UTC   A   PERMANENT   0.01   0.01   0.01   2.06   0.08   0.003   0.003   560 Complete   2.013   A, TPT/SST/N Reduction   HO33APP000034   UTC   A   PERMANENT   0.01   0.00   0.00   0.00   0.00   0.001   560 Complete   2.013   A, TPT/SST/N Reduction   HO33APP000035   UTC   A   PERMANENT   0.00   0.			Α											
HOLDAMPHORDS28   UTC			Α											
HOLSAPPOROSES UTC A PERMANENT 0.0.0 0.0.1 2.06 0.03 0.003 0.003 560 Complete 2.031   T.PTS/TN Reduction HOLSAPPOROSES UTC A PERMANENT 0.0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0														
HO13APY000031	HO13APY000328	UTC	Α	PERMANENT	0.03	0.01	2.06	0.03	0.003	0.003	60 Complete	2013	IA, TP/TSS/TN Reduction	
HO13APP000018 UTC A PERMANENT O.00 O.00 O.78 O.01 O.001 O.001 SSO Complete O.001 SSO Complete O.013 (A, TPTSS/TIN Reduction HO13APP000033 UTC A PERMANENT O.01 O.01 O.01 O.01 O.001 O.003	HO13APY000329	UTC	Α	PERMANENT	0.03	0.01	2.06	0.03	0.003	0.003	60 Complete	2013	IA, TP/TSS/TN Reduction	
H013APY000039 UTC A PERMANENT 0.00 0.00 0.00 0.78 0.01 0.001 0.003 560 Complete 2013 M, TP/TSS/TN Reduction H013APY000034 UTC A PERMANENT 0.01 0.01 2.06 0.03 0.003 0.003 560 Complete 2013 M, TP/TSS/TN Reduction H013APY000035 UTC A PERMANENT 0.01 0.01 2.06 0.03 0.003 0.003 0.003 560 Complete 2013 M, TP/TSS/TN Reduction H013APY000035 UTC A PERMANENT 0.01 0.01 0.00 0.00 0.00 0.00 0.00 0.0	HO13APY000541	UTC	Α	PERMANENT	0.03	0.01	2.06	0.03	0.003	0.003	60 Complete	2013	IA, TP/TSS/TN Reduction	
HO13APY000033 UTC A PERMANENT 0.01 0.01 2.06 0.03 0.003 0.003 S60 Complete 2013 IA, TPTSS/TN Reduction HO13APY000035 UTC A PERMANENT 0.01 0.01 2.06 0.03 0.003 0.003 S60 Complete 2013 IA, TPTSS/TN Reduction HO13APY000038 UTC A PERMANENT 0.00 0.00 0.78 0.01 0.001 0.001 S60 Complete 2013 IA, TPTSS/TN Reduction HO13APY000039 UTC A PERMANENT 0.00 0.00 0.78 0.01 0.001 0.001 S60 Complete 2013 IA, TPTSS/TN Reduction HO13APY000039 UTC A PERMANENT 0.00 0.00 0.78 0.01 0.001 0.001 S60 Complete 2013 IA, TPTSS/TN Reduction HO13APY000040 UTC A PERMANENT 0.00 0.00 0.78 0.01 0.001 0.001 S60 Complete 2013 IA, TPTSS/TN Reduction HO13APY000040 UTC A PERMANENT 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	HO13APY000018	UTC	Α	PERMANENT	0.00	0.00	0.78	0.01	0.001	0.001 \$	60 Complete	2013	IA, TP/TSS/TN Reduction	
HO13APY000033	HO13APY000019	UTC	А	PERMANENT	0.00	0.00	0.78	0.01	0.001	0.001 \$	60 Complete	2013	IA, TP/TSS/TN Reduction	
HO13APY000038	HO13APY000033	UTC	Α	PERMANENT	0.03	0.01	2.06	0.03	0.003			2013	IA, TP/TSS/TN Reduction	
HO13APY000035 UTC A PERMANENT 0.01 0.01 2.05 0.03 0.003 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.00 0.00 0.78 0.01 0.001 560 Complete 2013 IA, TP/TSS/TN Reduction 0.00 0.00 0.78 0.01 0.001 560 Complete 2013 IA, TP/TSS/TN Reduction 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	HO13APY000034	_	Α											
HO13APY000038 UTC A PERMANENT 0.00 0.00 0.78 0.01 0.001 0.001 560 Complete 2013 IA, TP/TSS/TN Reduction 0.00 0.78 0.01 0.001 0.001 560 Complete 2013 IA, TP/TSS/TN Reduction 0.00 0.00 0.78 0.01 0.001 0.001 560 Complete 2013 IA, TP/TSS/TN Reduction 0.001 0.001 0.001 0.001 560 Complete 2013 IA, TP/TSS/TN Reduction 0.001	HO13APY000035												, , ,	
HO13APY000039 UTC A PERMANENT 0.00 0.00 0.78 0.01 0.001 0.001 560 Complete 2013 IA, TP/TSS/TN Reduction 0.001 0.003 F60 Complete 2013 IA, TP/TSS/TN Reduction 0.003 F60 Comple														
HO13APY000040 UTC A PERMANENT 0.00 0.00 0.78 0.01 0.001 0.001 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 0.03APY000042 UTC A PERMANENT 0.01 0.01 0.01 0.01 0.00 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0														
HO13APY000052 UTC A PERMANENT 0.01 0.01 2.06 0.03 0.003 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 0.01 2.06 0.03 0.003 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 0.01 2.06 0.03 0.003 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 0.01 2.06 0.03 0.003 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 0.01 2.06 0.03 0.003 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 0.01 2.01 0.0														
HO13APY00050 UTC A PERMANENT 0.01 0.01 2.06 0.03 0.003 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 0.003 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 IA, TP/TSS/TN Reduction 0.01			_											
HO13APY000051 UTC A PERMANENT 0.01 0.01 2.06 0.03 0.003 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.03 0.003 1														
HO13APY000052 UTC A PERMANENT 0.01 0.01 2.06 0.03 0.003 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0														<del>                                     </del>
HO13APY00068 UTC A PERMANENT 0.01 0.01 2.06 0.03 0.003 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 0.01 2.06 0.03 0.003 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 0.01 2.06 0.03 0.003 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 0.03 0.0														<del> </del>
HO13APY00085 UTC A PERMANENT 0.01 0.01 2.06 0.03 0.003 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 0.01 2.06 0.03 0.003 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 IA, TP/T														<del> </del>
HO13APY00086 UTC A PERMANENT 0.01 0.01 2.06 0.03 0.003 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.01 2.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.03 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.06 0.03 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction 0.01 1.01 1.01 1.01 1.01 1.01 1.01 1.0													, , ,	<del> </del>
HO13APY00087 UTC A PERMANENT 0.01 0.01 2.06 0.03 0.003 0.003 560 Complete 2013 IA, TYTS/TN Reduction 0.014APY00088 UTC A PERMANENT 0.01 0.01 2.06 0.03 0.003 0.003 560 Complete 2013 IA, TYTS/TN Reduction 0.014APY00089 UTC A PERMANENT 0.01 0.01 2.06 0.03 0.003 0.003 560 Complete 2013 IA, TYTS/TN Reduction 0.014APY000090 UTC A PERMANENT 0.01 0.01 2.06 0.03 0.003 0.003 560 Complete 2013 IA, TYTS/TN Reduction 0.014APY000090 UTC A PERMANENT 0.01 0.01 2.06 0.03 0.003 0.003 560 Complete 2013 IA, TYTS/TN Reduction 0.014APY000090 UTC A PERMANENT 0.01 0.01 2.06 0.03 0.003 0.003 560 Complete 2013 IA, TYTS/TN Reduction 0.014APY000090 UTC A PERMANENT 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0		_	_											<del>                                     </del>
HO13APY00088 UTC A PERMANENT 0.01 0.01 2.06 0.03 0.003 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction HO13APY00089 UTC A PERMANENT 0.01 0.01 2.06 0.03 0.003 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction HO13APY00090 UTC A PERMANENT 0.01 0.01 2.06 0.03 0.003 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction HO13APY00090 UTC A PERMANENT 0.01 0.01 2.06 0.03 0.003 0.003 560 Complete 2013 IA, TP/TSS/TN Reduction			_										, , , , , , , , , , , , , , , , , , , ,	4
HO13APY000089 UTC A PERMANENT 0.01 0.01 2.06 0.03 0.003 0.003 \$60 Complete 2013 IA, TP/TSS/TN Reduction HO13APY000090 UTC A PERMANENT 0.01 0.01 2.06 0.03 0.003 0.003 \$60 Complete 2013 IA, TP/TSS/TN Reduction														
HO13APY000090 UTC A PERMANENT 0.01 0.01 2.06 0.03 0.003 \$60 Complete 2013 IA, TP/TSS/TN Reduction			Α											1
	HO13APY000089													1
HO13APY000091 UTC A PERMANENT 0.01 0.01 2.06 0.03 0.003 \$60 Complete 2013 IA, TP/TSS/TN Reduction	HO13APY000090												, , ,	
	HO13APY000091	UTC	Α	PERMANENT	0.03	0.01	2.06	0.03	0.003	0.003	60 Complete	2013	IA, TP/TSS/TN Reduction	1

HO13APY000092	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003		0.003 \$6	0 Complete	2013	IA, TP/TSS/TN Reduction	
HO13APY000093	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003		0.003 \$6	0 Complete	2013	IA, TP/TSS/TN Reduction	
HO13APY000094	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003		0.003 \$6	0 Complete	2013	IA, TP/TSS/TN Reduction	
HO13APY000095	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003		0.003 \$6	0 Complete	2013	IA, TP/TSS/TN Reduction	
HO13APY000105	UTC	Α	PERMANENT	0.00	0.00	0.78	0.01	0.001		0.001 \$6	0 Complete	2013	IA, TP/TSS/TN Reduction	
HO13APY000106	UTC		PERMANENT	0.00		0.78	0.01	0.001		0.001			IA, TP/TSS/TN Reduction	
HO13APY000107	UTC		PERMANENT	0.00		0.78	0.01	0.001		0.001			IA, TP/TSS/TN Reduction	
	UTC		PERMANENT	0.00		0.78	0.01	0.001			0 Complete		IA, TP/TSS/TN Reduction	
HO13APY000109	UTC	A	PERMANENT	0.00		0.78	0.01	0.001			0 Complete		IA. TP/TSS/TN Reduction	
	UTC		PERMANENT	0.00		0.78	0.01	0.001			0 Complete		IA, TP/TSS/TN Reduction	
	UTC		PERMANENT	0.00		0.78	0.01	0.001		0.001 \$6			IA. TP/TSS/TN Reduction	
		A											, ,	
	UTC		PERMANENT	0.00		0.78	0.01	0.001		0.001 \$6			IA, TP/TSS/TN Reduction	
	UTC		PERMANENT	0.00		0.78	0.01	0.001			0 Complete		IA, TP/TSS/TN Reduction	
HO13APY000114	UTC	Α	PERMANENT	0.00		0.78	0.01	0.001		0.001 \$6			IA, TP/TSS/TN Reduction	
HO13APY000125	UTC		PERMANENT	0.01	0.01	2.06	0.03	0.003		0.003 \$6			IA, TP/TSS/TN Reduction	
HO13APY000126	UTC		PERMANENT	0.00		0.78	0.01	0.001			0 Complete		IA, TP/TSS/TN Reduction	
HO13APY000127	UTC		PERMANENT	0.00		0.78	0.01	0.001		0.001 \$6		2013	IA, TP/TSS/TN Reduction	
HO13APY000128	UTC		PERMANENT	0.00		0.78	0.01	0.001			0 Complete	2013	IA, TP/TSS/TN Reduction	
HO13APY000129	UTC	Α	PERMANENT	0.00	0.00	0.78	0.01	0.001		0.001 \$6	0 Complete	2013	IA, TP/TSS/TN Reduction	
HO13APY000130	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003		0.003 \$6	0 Complete	2013	IA, TP/TSS/TN Reduction	
HO13APY000133	UTC	Α	PERMANENT	0.00	0.00	0.78	0.01	0.001	j	0.001 \$6	0 Complete	2013	IA, TP/TSS/TN Reduction	
HO13APY000145	UTC	Α	PERMANENT	0.01	0.01	2.06	0.02	0.003	İ	0.003 \$6	0 Complete	2013	IA, TP/TSS/TN Reduction	
HO13APY000218	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003		0.003 \$6			IA, TP/TSS/TN Reduction	
HO13APY000234	UTC		PERMANENT	0.01	0.01	2.06	0.02	0.003	t t	0.003			IA, TP/TSS/TN Reduction	
	UTC		PERMANENT	0.01		2.06	0.02	0.003	+		0 Complete		IA. TP/TSS/TN Reduction	
	UTC		PERMANENT	0.01		2.06	0.02	0.003		0.003			IA, TP/TSS/TN Reduction	
	UTC		PERMANENT	0.01	0.01	2.06	0.02	0.003		0.003			IA, TP/TSS/TN Reduction	
HO13APY000503	UTC	A	PERMANENT	0.01	0.01	2.06	0.02	0.003			0 Complete		IA, TP/TSS/TN Reduction	
	UTC		PERMANENT	0.01	0.01	2.06	0.03	0.003		0.003			IA, TP/TSS/TN Reduction	
	UTC		PERMANENT	0.01		2.06	0.03	0.003			0 Complete		IA, TP/TSS/TN Reduction	
	UTC		PERMANENT	0.01	0.01	2.06	0.02	0.003		0.003 \$6			IA, TP/TSS/TN Reduction	
HO13APY000603	UTC	Α	PERMANENT	0.01	0.01	2.06	0.01	0.003		0.003 \$6			IA, TP/TSS/TN Reduction	
HO13APY000664	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003		0.003 \$6			IA, TP/TSS/TN Reduction	
	UTC		PERMANENT	0.01	0.01	2.06	0.01	0.003		0.003 \$6			IA, TP/TSS/TN Reduction	
HO13APY000678	UTC	Α	PERMANENT	0.01	0.01	2.06	0.01	0.003			0 Complete	2013	IA, TP/TSS/TN Reduction	
HO13APY000686	UTC		PERMANENT	0.01	0.01	2.06	0.03	0.003			0 Complete		IA, TP/TSS/TN Reduction	
HO13APY000687	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003		0.003 \$6	0 Complete	2013	IA, TP/TSS/TN Reduction	
HO13APY000688	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003		0.003 \$6	0 Complete	2013	IA, TP/TSS/TN Reduction	
HO13APY000825	UTC	Α	PERMANENT	0.01	0.01	2.06	0.02	0.003		0.003 \$6	0 Complete	2013	IA, TP/TSS/TN Reduction	
HO13APY000829	UTC	Α	PERMANENT	0.01	0.01	2.06	0.02	0.003		0.003 \$6	0 Complete	2013	IA, TP/TSS/TN Reduction	
HO13APY000833	UTC	Α	PERMANENT	0.01	0.01	2.06	0.02	0.003		0.003 \$6	0 Complete	2013	IA, TP/TSS/TN Reduction	
HO14APY000457	UTC	Α	PERMANENT	0.01	0.01	2.06	0.01	0.003		0.003 \$6	0 Complete	2014	IA, TP/TSS/TN Reduction	
HO14APY000371	UTC		PERMANENT	0.01	0.01	2.06	0.01	0.003		0.003			IA. TP/TSS/TN Reduction	
HO14APY000387	UTC		PERMANENT	0.01		2.06	0.02	0.003	+		0 Complete		IA, TP/TSS/TN Reduction	
	UTC		PERMANENT	0.01		2.06	0.02	0.003		0.003			IA, TP/TSS/TN Reduction	
HO14APY000468	UTC	A	PERMANENT	0.01	0.01	2.06	0.02	0.003			0 Complete		IA, TP/TSS/TN Reduction	
HO14APY000536	UTC	A	PERMANENT	0.01	0.01	2.06	0.03	0.003			0 Complete		IA, TP/TSS/TN Reduction	
	UTC		PERMANENT	0.01	0.01	2.06	0.03	0.003		0.003			IA, TP/TSS/TN Reduction	
	UTC		PERMANENT	0.01		2.06	0.03	0.003	-	0.003 \$6			IA, TP/TSS/TN Reduction IA, TP/TSS/TN Reduction	
HO14APY000579	UTC	A	PERMANENT	0.01	0.01	2.06	0.03	0.003		0.003 \$6			IA, TP/TSS/TN Reduction	
HO14APY000657	UTC	Α	PERMANENT	0.00		0.78	0.01	0.001		0.001 \$6			IA, TP/TSS/TN Reduction	
HO14APY000646	UTC		PERMANENT	0.01	0.01	2.06	0.00	0.003		0.003 \$6			IA, TP/TSS/TN Reduction	
	UTC		PERMANENT	0.01	0.01	2.06	0.00	0.003			0 Complete		IA, TP/TSS/TN Reduction	
HO14APY000648	UTC		PERMANENT	0.01	0.01	2.06	0.00	0.003		0.003 \$6			IA, TP/TSS/TN Reduction	
HO14APY000649	UTC		PERMANENT	0.01	0.01	2.06	0.00	0.003			0 Complete		IA, TP/TSS/TN Reduction	
HO14APY000676	UTC	Α	PERMANENT	0.01	0.01	2.06	0.01	0.003			0 Complete	2014	IA, TP/TSS/TN Reduction	
HO14APY000682	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003		0.003 \$6	0 Complete	2014	IA, TP/TSS/TN Reduction	
HO14APY000683	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003		0.003 \$6	0 Complete	2014	IA, TP/TSS/TN Reduction	
HO14APY000695	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003	İ	0.003 \$6	0 Complete	2014	IA, TP/TSS/TN Reduction	
HO14APY000882	UTC	Α	PERMANENT	0.01	0.01	2.06	0.02	0.003		0.003 \$6			IA, TP/TSS/TN Reduction	
HO14APY000908	UTC		PERMANENT	0.01	0.01	2.06	0.02	0.003	<u> </u>	0.003 \$6			IA, TP/TSS/TN Reduction	
	UTC		PERMANENT	0.00		0.78	0.01	0.001			0 Complete		IA, TP/TSS/TN Reduction	
	UTC		PERMANENT	0.00	0.01	2.06	0.03	0.001		0.003			IA, TP/TSS/TN Reduction	
HO14APY000726			C. MAINMAETA I											
HO14APY000726	LITC	Δ	DERMANENT	0.01	0.01		0.021							
HO14APY000885	UTC	Α Ι	PERMANENT	0.01	0.01	2.06	0.02	0.003	-		O Complete		IA, TP/TSS/TN Reduction	
HO14APY000885 HO14APY000886	UTC UTC UTC	Α	PERMANENT PERMANENT PERMANENT	0.01 0.01 0.01	0.01 0.01 0.01	2.06 2.06 2.06	0.02 0.02 0.02	0.003 0.003		0.003 \$6	Complete Complete Complete	2014	IA, TP/TSS/TN REduction IA, TP/TSS/TN Reduction IA, TP/TSS/TN Reduction	

HO14APY002529	FPU	Α	PERMANENT	0.03	0.05	81.43	0.25	0.032		0.032 \$4	100 Compl	ete 2014	IA, TP/TSS/TN Reduction	
HO14APY002513	RFP	Α	PERMANENT	0.05	0.13	233.47	0.60	0.079		0.079 \$2	240 Compl	ete 2014	IA, TP/TSS/TN Reduction	
HO14APY002527	RFP	Α	PERMANENT	0.29	0.72	1,270.24	3.25	0.432		0.432 \$1,5	500 Compl	ete 2014	IA, TP/TSS/TN Reduction	
HO14APY002296	UTC	Α	PERMANENT	0.03	0.02	7.17	0.09	0.010		0.010 \$6	500 Compl	ete 2014	IA, TP/TSS/TN Reduction	
HO14APY002299	UTC	Α	PERMANENT	0.10	0.05	19.85	0.24	0.027		0.027 \$6	60 Compl	ete 2014	IA, TP/TSS/TN Reduction	
HO14APY002517	UTC	Α	PERMANENT	0.02	0.01	5.14	0.07	0.007			140 Compl		IA, TP/TSS/TN Reduction	
HO15APY001216	UTC	Α	PERMANENT	0.01	0.01	2.06	0.02	0.003			60 Compl		IA, TP/TSS/TN Reduction	
HO15APY001211	UTC	A	PERMANENT	0.01	0.01	2.06	0.02	0.003			553 Compl		IA, TP/TSS/TN Reduction	
HO15APY001242	UTC	A	PERMANENT	0.01	0.01	2.06	0.01	0.003			60 Compl		IA. TP/TSS/TN Reduction	
HO15APY001243	UTC	A	PERMANENT	0.01	0.01	2.06	0.01	0.003			60 Compl		IA, TP/TSS/TN Reduction	
HO15APY001244	UTC	A	PERMANENT	0.01	0.01	2.06	0.03	0.003			60 Compl		IA, TP/TSS/TN Reduction	
HO15APY001245	UTC	A	PERMANENT	0.01	0.01	2.06	0.03	0.003			60 Compl		IA, TP/TSS/TN Reduction	
HO15APY001249	UTC	A	PERMANENT	0.01	0.01	2.06	0.03	0.003			60 Compl		IA, TP/TSS/TN Reduction	
HO15APY001250	UTC	A	PERMANENT	0.01	0.01	2.06	0.03	0.003					IA, TP/TSS/TN Reduction	
HO15APY001250			PERMANENT	0.01			0.03	0.003						
	UTC		PERMANENT	0.01	0.01	2.06							IA, TP/TSS/TN Reduction IA. TP/TSS/TN Reduction	
HO15APY001301	UTC				0.01	2.06	0.03	0.003					, ,	
HO15APY001302	UTC	_	PERMANENT	0.01	0.01	2.06	0.03	0.003			60 Compl		IA, TP/TSS/TN Reduction	
HO15APY001303	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003			60 Compl		IA, TP/TSS/TN Reduction	
HO15APY001304	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003			60 Compl		IA, TP/TSS/TN Reduction	
HO15APY001305	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003			60 Compl		IA, TP/TSS/TN Reduction	
HO15APY001306	UTC	Α	PERMANENT	0.00	0.00	0.78	0.01	0.001			60 Compl		IA, TP/TSS/TN Reduction	
HO15APY001307	UTC	Α	PERMANENT	0.00	0.00	0.78	0.01	0.001			60 Compl		IA, TP/TSS/TN Reduction	
HO15APY001308	UTC	Α	PERMANENT	0.00	0.00	0.78	0.01	0.001			60 Compl		IA, TP/TSS/TN Reduction	
HO15APY001309	UTC	Α	PERMANENT	0.00	0.00	0.78	0.01	0.001		0.001	60 Compl	ete 2015	IA, TP/TSS/TN Reduction	
HO15APY001310	UTC	Α	PERMANENT	0.00	0.00	0.78	0.01	0.001			660 Compl	ete 2015	IA, TP/TSS/TN Reduction	
HO15APY001312	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003		0.003	53 Compl	ete 2015	IA, TP/TSS/TN Reduction	
HO15APY001313	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003		0.003	60 Compl	ete 2015	IA, TP/TSS/TN Reduction	
HO15APY001322	UTC	Α	PERMANENT	0.01	0.01	2.06	0.02	0.003		0.003	53 Compl	ete 2015	IA, TP/TSS/TN Reduction	
HO15APY001329	UTC	Α	PERMANENT	0.01	0.01	2.06	0.01	0.003		0.003	60 Compl	ete 2015	IA, TP/TSS/TN Reduction	
HO15APY001330	UTC	Α	PERMANENT	0.01	0.01	2.06	0.01	0.003		0.003	53 Compl	ete 2015	IA, TP/TSS/TN Reduction	
HO15APY001331	UTC	Α	PERMANENT	0.01	0.01	2.06	0.01	0.003		0.003	553 Compl	ete 2015	IA, TP/TSS/TN Reduction	
HO15APY001332	UTC	Α	PERMANENT	0.01	0.01	2.06	0.01	0.003			553 Compl		IA, TP/TSS/TN Reduction	
HO15APY001267	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003			558 Compl		IA, TP/TSS/TN Reduction	
HO15APY001268	UTC		PERMANENT	0.01	0.01	2.06	0.03	0.003			53 Compl		IA, TP/TSS/TN Reduction	
HO15APY001269	UTC	A	PERMANENT	0.01	0.01	2.06	0.03	0.003			60 Compl		IA, TP/TSS/TN Reduction	
HO15APY001270	UTC		PERMANENT	0.01	0.01	2.06	0.03	0.003			60 Compl		IA, TP/TSS/TN Reduction	
HO15APY001271	UTC	A	PERMANENT	0.01	0.01	2.06	0.03	0.003			53 Compl		IA, TP/TSS/TN Reduction	
HO15APY001272	UTC		PERMANENT	0.01	0.01	2.06	0.03	0.003			53 Compl		IA, TP/TSS/TN Reduction	
HO15APY001272	UTC	A	PERMANENT	0.01	0.01	2.06	0.03	0.003			60 Compl		IA, TP/TSS/TN Reduction	
HO15APY001274	UTC		PERMANENT	0.01	0.01	2.06	0.03	0.003			60 Compl		IA, TP/TSS/TN Reduction	
HO15APY001097	FPU	A	PERMANENT	0.01	0.02	28.05	0.02	0.011			60 Compl		IA, TP/TSS/TN Reduction	
HO15APY001098	FPU	A	PERMANENT	0.01	0.02	28.05	0.02	0.011					IA, TP/TSS/TN Reduction	
HO15APY001099	FPU	A	PERMANENT	0.01	0.02	28.05	0.02	0.011					IA, TP/TSS/TN Reduction	
		A	PERMANENT			28.05							, ,,	
HO15APY001100	FPU RFP			0.01 0.01	0.02		0.02	0.011			60 Compl		IA, TP/TSS/TN Reduction	
HO15APY001094			PERMANENT		0.03	44.11	0.02	0.015			668 Compl		IA, TP/TSS/TN Reduction	
HO15APY001095	RFP	A	PERMANENT	0.01	0.03	44.11	0.02	0.015	1		60 Compl		IA, TP/TSS/TN Reduction	<del> </del>
HO15APY001096	RFP	A	PERMANENT	0.01	0.03	44.11	0.02	0.015	1		60 Compl		IA, TP/TSS/TN Reduction	<del> </del>
HO15APY000991	UTC	A	PERMANENT	0.01	0.01	2.06	0.00	0.003			60 Compl		IA, TP/TSS/TN Reduction	<del> </del>
HO15APY000995	UTC	A	PERMANENT	0.01	0.01	2.06	0.00	0.003		7.555	53 Compl		IA, TP/TSS/TN Reduction	1
HO15APY000996	UTC	Α	PERMANENT	0.01	0.01	2.06	0.00	0.003			53 Compl		IA, TP/TSS/TN Reduction	
HO15APY001101	UTC	Α	PERMANENT	0.01	0.01	2.06	0.00	0.003			58 Compl		IA, TP/TSS/TN Reduction	
HO15APY001102	UTC		PERMANENT	0.01	0.01	2.06	0.00	0.003			68 Compl		IA, TP/TSS/TN Reduction	
HO15APY001103	UTC		PERMANENT	0.01	0.01	2.06	0.00	0.003			60 Compl		IA, TP/TSS/TN Reduction	
HO15APY001087	FPU		PERMANENT	0.01	0.02	28.05	0.07	0.011			60 Compl		IA, TP/TSS/TN Reduction	
HO15APY001088	FPU	Α	PERMANENT	0.01	0.02	28.05	0.07	0.011			60 Compl		IA, TP/TSS/TN Reduction	
HO15APY001089	FPU	Α	PERMANENT	0.01	0.02	28.05	0.07	0.011			60 Compl		IA, TP/TSS/TN Reduction	
HO15APY001090	FPU	Α	PERMANENT	0.01	0.02	28.05	0.07	0.011			60 Compl		IA, TP/TSS/TN Reduction	
HO15APY001091	FPU	Α	PERMANENT	0.01	0.02	28.05	0.07	0.011		0.011	60 Compl	ete 2015	IA, TP/TSS/TN Reduction	
HO15APY001092	FPU	Α	PERMANENT	0.01	0.02	28.05	0.07	0.011		0.011	60 Compl	ete 2015	IA, TP/TSS/TN Reduction	
HO15APY001093	FPU	Α	PERMANENT	0.01	0.02	28.05	0.07	0.011		0.011	60 Compl	ete 2015	IA, TP/TSS/TN Reduction	
HO15APY000974	UTC	Α	PERMANENT	0.01	0.01	2.06	0.02	0.003		0.003	60 Compl	ete 2015	IA, TP/TSS/TN Reduction	
HO15APY000975	UTC	Α	PERMANENT	0.01	0.01	2.06	0.02	0.003		0.003	558 Compl	ete 2015	IA, TP/TSS/TN Reduction	
HO15APY000976	UTC	Α	PERMANENT	0.01	0.01	2.06	0.02	0.003			558 Compl		IA, TP/TSS/TN Reduction	
HO15APY000977	UTC	Α	PERMANENT	0.01	0.01	2.06	0.02	0.003			60 Compl		IA, TP/TSS/TN Reduction	
HO15APY001042	UTC	A	PERMANENT	0.01	0.01	2.06	0.03	0.003			553 Compl		IA, TP/TSS/TN Reduction	
HO15APY001045	UTC		PERMANENT	0.01	0.01	2.06	0.03	0.003			60 Compl		IA, TP/TSS/TN Reduction	
	1			3.01	0.01	2.50	0.03	3.003	1	, 0.000	I	2013	, ,,	

HO15APY001157	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003			60 Complete		IA, TP/TSS/TN Reduction	
HO15APY001158	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003		0.003	60 Complete	2015	IA, TP/TSS/TN Reduction	
HO15APY001159	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003		0.003	60 Complete	2015	IA, TP/TSS/TN Reduction	
HO15APY001160	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003		0.003 \$	60 Complete	2015	IA, TP/TSS/TN Reduction	
HO15APY001161	UTC	А	PERMANENT	0.01	0.01	2.06	0.03	0.003		0.003	60 Complete	2015	IA, TP/TSS/TN Reduction	
HO15APY001164	UTC	A	PERMANENT	0.01	0.01	2.06	0.02	0.003			53 Complete		IA, TP/TSS/TN Reduction	
HO15APY001165	UTC	A	PERMANENT	0.01	0.01	2.06	0.02	0.003			53 Complete		IA, TP/TSS/TN Reduction	
HO15APY001166	UTC	A	PERMANENT	0.01	0.01	2.06	0.02	0.003					IA. TP/TSS/TN Reduction	
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HO15APY001167	UTC		PERMANENT	0.01	0.01	2.06	0.02	0.003			53 Complete		IA, TP/TSS/TN Reduction	
HO15APY001127	FPU	Α	PERMANENT	0.01	0.02	28.05	0.09	0.011			60 Complete		IA, TP/TSS/TN Reduction	
HO15APY001128	FPU	Α	PERMANENT	0.01	0.02	28.05	0.09	0.011		0.011	60 Complete	2015	IA, TP/TSS/TN Reduction	
HO15APY001129	FPU	Α	PERMANENT	0.01	0.02	28.05	0.09	0.011		0.011 \$	60 Complete	2015	IA, TP/TSS/TN Reduction	
HO15APY001130	FPU	Α	PERMANENT	0.01	0.02	28.05	0.09	0.011		0.011 \$	60 Complete	2015	IA, TP/TSS/TN Reduction	
HO15APY001131	FPU	А	PERMANENT	0.01	0.02	28.05	0.09	0.011			60 Complete		IA, TP/TSS/TN Reduction	
HO15APY001132	FPU	A	PERMANENT	0.01	0.02	28.05	0.09	0.011			60 Complete		IA, TP/TSS/TN Reduction	
HO15APY001133	FPU	A	PERMANENT	0.01	0.02	28.05	0.09	0.011			<u> </u>		IA, TP/TSS/TN Reduction	
		Α Α												
HO15APY001134	FPU	, ,	PERMANENT	0.01	0.02	28.05	0.09	0.011			60 Complete	_	IA, TP/TSS/TN Reduction	
HO15APY001135	FPU	Α	PERMANENT	0.01	0.02	28.05	0.09	0.011			60 Complete		IA, TP/TSS/TN Reduction	
HO15APY001136	FPU	Α	PERMANENT	0.01	0.02	28.05	0.09	0.011			60 Complete	2015	IA, TP/TSS/TN Reduction	
HO15APY001137	FPU	Α	PERMANENT	0.01	0.02	28.05	0.09	0.011		0.011 \$	68 Complete	2015	IA, TP/TSS/TN Reduction	
HO15APY001138	FPU	Α	PERMANENT	0.01	0.02	28.05	0.09	0.011		0.011 \$	68 Complete	2015	IA, TP/TSS/TN Reduction	
HO15APY001139	FPU	Α	PERMANENT	0.01	0.02	28.05	0.09	0.011			68 Complete		IA, TP/TSS/TN Reduction	
HO15APY001140	FPU	A	PERMANENT	0.01	0.02	28.05	0.09	0.011			60 Complete		IA. TP/TSS/TN Reduction	
HO15APY001141	FPU	, ,	PERMANENT	0.01	0.02	28.05	0.09	0.011			60 Complete		IA, TP/TSS/TN Reduction	
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HO15APY001142	FPU	Α	PERMANENT	0.01	0.02	28.05	0.09	0.011			68 Complete		IA, TP/TSS/TN Reduction	
HO15APY001143	FPU	Α	PERMANENT	0.01	0.02	28.05	0.09	0.011			60 Complete		IA, TP/TSS/TN Reduction	
HO15APY001144	FPU	Α	PERMANENT	0.01	0.02	28.05	0.09	0.011			60 Complete	2015	IA, TP/TSS/TN Reduction	
HO15APY001145	FPU	Α	PERMANENT	0.01	0.02	28.05	0.09	0.011			60 Complete	2015	IA, TP/TSS/TN Reduction	
HO15APY001146	FPU	Α	PERMANENT	0.01	0.02	28.05	0.09	0.011		0.011 \$	60 Complete	2015	IA, TP/TSS/TN Reduction	
HO15APY001007	UTC	Α	PERMANENT	0.01	0.01	2.06	0.01	0.003		0.003	60 Complete	2015	IA, TP/TSS/TN Reduction	
HO15APY001021	UTC	А	PERMANENT	0.01	0.01	2.06	0.01	0.003			58 Complete	_	IA, TP/TSS/TN Reduction	
HO15APY001022	UTC	A	PERMANENT	0.01	0.01	2.06	0.01	0.003			60 Complete		IA, TP/TSS/TN Reduction	
HO15APY001023			PERMANENT	0.01	0.01	2.06	0.01	0.003					IA, TP/TSS/TN Reduction	
	UTC	A												
HO15APY001024	UTC	Α	PERMANENT	0.01	0.01	2.06	0.01	0.003			68 Complete		IA, TP/TSS/TN Reduction	
HO15APY001026	UTC	Α	PERMANENT	0.00	0.00	0.78	0.01	0.001			60 Complete	_	IA, TP/TSS/TN Reduction	
HO15APY001029	UTC	Α	PERMANENT	0.00	0.00	0.78	0.01	0.001		0.001	53 Complete	2015	IA, TP/TSS/TN Reduction	
HO15APY001030	UTC	Α	PERMANENT	0.00	0.00	0.78	0.01	0.001		0.001	53 Complete	2015	IA, TP/TSS/TN Reduction	
HO15APY001073	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003		0.003	60 Complete	2015	IA, TP/TSS/TN Reduction	
HO15APY001074	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003		0.003	60 Complete	2015	IA. TP/TSS/TN Reduction	
HO15APY001075	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003			60 Complete	2015	IA, TP/TSS/TN Reduction	
HO15APY001076	UTC	A	PERMANENT	0.01	0.01	2.06	0.03	0.003			60 Complete		IA, TP/TSS/TN Reduction	
HO15APY001077		_	PERMANENT	0.01	0.01	2.06								
	UTC						0.03	0.003			53 Complete		IA, TP/TSS/TN Reduction	
HO15APY001078	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003			60 Complete		IA, TP/TSS/TN Reduction	
HO15APY001079	UTC		PERMANENT	0.01	0.01	2.06	0.03	0.003			60 Complete		IA, TP/TSS/TN Reduction	
HO15APY001080	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003			60 Complete		IA, TP/TSS/TN Reduction	
HO15APY001081	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003		0.003 \$	60 Complete	2015	IA, TP/TSS/TN Reduction	
HO15APY001082	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003		0.003 \$	53 Complete	2015	IA, TP/TSS/TN Reduction	
HO15APY001112	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003		0.003	68 Complete	2015	IA. TP/TSS/TN Reduction	
HO15APY001113	UTC		PERMANENT	0.01	0.01	2.06	0.03	0.003			68 Complete		IA, TP/TSS/TN Reduction	
HO15APY001114	UTC	A	PERMANENT	0.01	0.01	2.06	0.03	0.003			60 Complete	_	IA. TP/TSS/TN Reduction	
			PERMANENT			2.06			-				, , ,	
HO15APY001115	UTC			0.01	0.01		0.03	0.003			60 Complete		IA, TP/TSS/TN Reduction	
HO15APY001116	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003			60 Complete		IA, TP/TSS/TN Reduction	
HO15APY001147	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003			60 Complete		IA, TP/TSS/TN Reduction	
HO15APY001148	UTC	Α	PERMANENT	0.01	0.01	2.06	0.03	0.003			68 Complete	2015	IA, TP/TSS/TN Reduction	
HO20APY100334	RFP	Α	PERMANENT	0.50	1.25	2,205.50	1.19	0.750		0.750	\$0 Complete	2017	IA, TP/TSS/TN Reduction	
HO20APY100335	RFP	Α	PERMANENT	0.50	1.25	2,205.50	1.19	0.750			\$0 Complete	2017	IA, TP/TSS/TN Reduction	
HO19APY100320	IMPP	A	PERMANENT	0.06	0.03	300.79	0.33	0.04			50 Complete		IA, TP/TSS/TN Reduction	
HO19APY100321	IMPP	A	PERMANENT	0.06	0.03	300.79	0.33	0.04			66 Complete	_	IA, TP/TSS/TN Reduction	
HO21APY100321	IMPP	A	PERMANENT	0.08	0.03	435.06	0.33	0.04	-				IA. TP/TSS/TN Reduction	
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HO21APY100608	IMPP		PERMANENT	0.10	0.05	546.33	0.54	0.07			\$0 Complete		IA, TP/TSS/TN Reduction	
HO21APY100609	IMPP		PERMANENT	0.09	0.04	458.47	0.45	0.06			\$0 Complete		IA, TP/TSS/TN Reduction	
HO21APY100619	IMPP	Α	PERMANENT	0.05	0.02	251.10	0.25	0.03			\$0 Complete		IA, TP/TSS/TN Reduction	
HO21APY100611	IMPP	Α	PERMANENT	0.14	0.06	747.78	0.74	0.10		0.10	\$0 Complete	2021	IA, TP/TSS/TN Reduction	
HO21APY100620	IMPP	Α	PERMANENT	0.03	0.01	155.26	0.15	0.02		0.02	\$0 Planning	2022	IA, TP/TSS/TN Reduction	
HO21APY100617	IMPP	Α	PERMANENT	0.01	0.00	41.71	0.04	0.01			\$0 Planning		IA, TP/TSS/TN Reduction	
HO21APY100618	IMPP		PERMANENT	0.02	0.01	126.27	0.13	0.02			\$0 Planning		IA, TP/TSS/TN Reduction	
	10.401.1		- CHIMPANEINI	0.02	0.01	120.27	0.13	0.02	ı	0.02	Y UI IUI II III II	2022	,,, in neudedon	

HO21APY100612	IMPP	A PERMANENT	0.02	0.01 93.71	0.09 0.01	0.01 \$0 Planning	2021 IA, TP/TSS/TN Reduction
HO21APY100613	IMPP	A PERMANENT	0.02	0.01 97.77	0.10 0.01	0.01 \$0 Planning	2021 IA, TP/TSS/TN Reduction
HO21APY100614	IMPP	A PERMANENT	0.02	0.01 102.57	0.10 0.01	0.01 \$0 Planning	2021 IA, TP/TSS/TN Reduction
HO21APY100615	IMPP	A PERMANENT	0.01	0.00 39.14	0.04 0.01	0.01 \$0 Planning	2021 IA, TP/TSS/TN Reduction
HO21APY100616	IMPP	A PERMANENT	0.03	0.01 151.86	0.15 0.02	0.02 \$0 Planning	2021 IA, TP/TSS/TN Reduction
HO21APY100610	IMPP	A PERMANENT	0.09	0.04 494.68	0.49 0.07	0.07 \$0 Planning	2021 IA, TP/TSS/TN Reduction
HO18RST902744	MRNG	E PERMANENT	1 0.15 1.00	0.07 164.58	0.99 0.09	0.09 \$0 Complete	2018 IA, TP/TSS/TN Reduction
HO18RST902745	MRNG	E PERMANENT	1 0.15 1.00	0.08 134.94	0.90 0.06	0.06 \$0 Complete	2018 IA, TP/TSS/TN Reduction
HO18RST902747	MRNG	E PERMANENT	1 0.15 1.00	0.08 148.46	0.32 0.06	0.06 \$0 Complete	2018 IA. TP/TSS/TN Reduction
HO18RST902740	MRNG	E PERMANENT	1 0.15 1.00	0.08 106.90	0.80 0.03	0.03 \$0 Complete	2018 IA, TP/TSS/TN Reduction
HO18RST902616	MRNG	E PERMANENT	1 0.15 1.00	0.06 196.29	1.12 0.15	0.15 \$497 Complete	2018 IA. TP/TSS/TN Reduction
HO18RST902160	SPSC	A PERMANENT	1 35.74 0.13	12.46 26,742.42	110.19 10.55	10.55 \$100,000 Complete	2018 IA, TP/TSS/TN Reduction
HO18RST902737	MRNG	E PERMANENT	1 0.15 1.00	0.08 93.49	0.75 0.04	0.04 \$0 Complete	2018 IA, TP/TSS/TN Reduction
HO18RST902741	MRNG	E PERMANENT	1 0.15 1.00	0.10 132.53	0.60 0.02	0.02 \$0 Complete	2018 IA, TP/TSS/TN Reduction
HO18RST902742	MRNG	E PERMANENT	1 0.15 1.00	0.09 152.07	0.64 0.04	0.02 30 Complete	2018 IA, TP/TSS/TN Reduction
HO18RST902742	MRNG	E PERMANENT	1 0.15 1.00	0.09 132.07	0.04 0.04	0.05 \$0 Complete	2018 A, TP/TSS/TN Reduction
	MRNG	E PERMANENT		0.08 142.41	1.17 0.15	0.05 \$0 Complete  0.15 \$1,200 Complete	
HO18RST902683							2018 A, TP/TSS/TN Reduction
HO18RST902680	MRNG	E PERMANENT	1 0.15 1.00	0.06 196.29	1.12 0.15	0.15 \$1,200 Complete	2018 IA, TP/TSS/TN Reduction
HO18RST902743	MRNG	E PERMANENT	1 0.15 1.00	0.08 98.21	0.78 0.03	0.03 \$0 Complete	2018 IA, TP/TSS/TN Reduction
HO18RST902161	MRNG	E PERMANENT	1 0.02 1.00	0.01 33.57	0.10 0.02	0.02 \$3,500 Complete	2018 IA, TP/TSS/TN Reduction
HO18RST902686	MRNG	E PERMANENT	1 0.15 1.00	0.08 307.00	0.93 0.15	0.15 \$398 Complete	2018 A, TP/TSS/TN Reduction
HO18RST902162	MRNG	E PERMANENT	1 0.11 1.00	0.07 86.99	0.43 0.01	0.01 \$2,400 Complete	2018 IA, TP/TSS/TN Reduction
HO18RST902090	MRNG	E PERMANENT	1 0.15 1.00	0.06 222.54	1.17 0.15	0.15 \$0 Complete	2018 IA, TP/TSS/TN Reduction
HO18RST902094	MRNG	E PERMANENT	1 0.15 1.00	0.06 222.54	1.17 0.15	0.15 \$0 Complete	2018 IA, TP/TSS/TN Reduction
HO18RST902163	MRNG	E PERMANENT	3 2.16 1.00	1.19 1,216.55	10.62 0.16	0.16 \$22,100 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902068	MRNG	E PERMANENT	1 0.15 1.00	0.06 196.29	1.12 0.15	0.15 \$0 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902108	MRNG	E PERMANENT	1 0.15 1.00	0.06 222.54	1.17 0.15	0.15 \$0 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902749	MRNG	E PERMANENT	1 0.15 1.00	0.09 145.14	0.63 0.03	0.03 \$0 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902750	MRNG	E PERMANENT	1 0.15 1.00	0.08 76.01	0.68 0.02	0.02 \$0 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902295	MRNG	E PERMANENT	1 0.20 1.00	0.10 101.11	0.91 0.02	0.02 \$4,700 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902297	MRNG	E PERMANENT	1 0.14 1.00	0.07 86.72	0.68 0.04	0.04 \$12,200 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902691	MRNG	E PERMANENT	1 0.15 1.00	0.06 196.29	1.12 0.15	0.15 \$504 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902748	MRNG	E PERMANENT	1 0.15 1.00	0.10 112.79	0.57 0.01	0.01 \$0 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902693	MRNG	E PERMANENT	1 0.15 1.00	0.06 222.54	1.17 0.15	0.15 \$394 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902021	MRNG	E PERMANENT	1 0.15 1.00	0.06 222.54	1.17 0.15	0.15 \$0 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902022	MRNG	E PERMANENT	1 0.15 1.00	0.06 222.54	1.17 0.15	0.15 \$0 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902296	MRNG	E PERMANENT	1 0.19 1.00	0.09 142.4	1.02 0.07	0.07 \$4,800 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902300	MRNG	E PERMANENT	1 4.99 1.00	2.61 2,102.66	21.12 0.13	0.13 \$16,000 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902689	MRNG	E PERMANENT	1 0.15 1.00	0.06 196.29	1.12 0.15	0.15 \$394 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902690	MRNG	E PERMANENT	1 0.15 1.00	0.06 222.54	1.17 0.15	0.15 \$394 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902083	MRNG	E PERMANENT	1 0.15 1.00	0.06 196.29	1.12 0.15	0.15 \$0 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902298	MRNG	E PERMANENT	1 0.13 1.00	0.08 131.14	0.54 0.03	0.03 \$6,200 Complete	2018 IA, TP/TSS/TN Reduction
HO20RST109800	MMBR	E PERMANENT	1 0.15 1.00	0.06 196.29	1.17 0.15	0.15 \$0 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902051	MRNG	E PERMANENT	1 0.15 1.00	0.06 196.29	1.12 0.15	0.15 \$0 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902140	MRNG	E PERMANENT	1 0.15 1.00	0.06 196.29	1.12 0.15	0.15 \$0 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902762	MIDW	E PERMANENT	1 0.08 1.00	0.06 196.29	1.12 0.15	0.15 \$6,125 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902688	MRNG	E PERMANENT	1 0.15 1.00	0.06 222.54	1.17 0.15	0.15 \$497 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902687	MRNG	E PERMANENT	1 0.15 1.00	0.08 307.00	0.93 0.15	0.15 \$1,200 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902303	MRNG	E PERMANENT	1 2.74 1.00	1.78 1,865.50	9.99 0.02	0.02 \$6,300 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902301	MIBR	E PERMANENT	1 0.01 1.00	0.06 195.83	1.02 0.13	0.13 \$8,000 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902073	MRNG	E PERMANENT	1 0.15 1.00	0.06 222.54	1.17 0.15	0.15 \$0 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902079	MRNG	E PERMANENT	1 0.15 1.00	0.06 196.29	1.12 0.15	0.15 \$0 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902125	MRNG	E PERMANENT	1 0.15 1.00	0.06 196.29	1.12 0.15	0.15 \$0 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902302	MRNG	E PERMANENT	1 0.47 0.50	0.18 329.71	2.15 0.11	0.11 \$12,000 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902703	MRNG	E PERMANENT	1 0.15 1.00	0.08 307.00	0.93 0.15	0.15 \$666 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902024	MRNG	E PERMANENT	1 0.15 1.00	0.06 222.54	1.17 0.15	0.15 \$0 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902024	MRNG	E PERMANENT	1 0.15 1.00	0.06 222.34	1.12 0.15	0.15 \$0 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902057	MRNG	E PERMANENT	1 0.15 1.00	0.06 196.29	1.12 0.15	0.15 \$0 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902146	MRNG	E PERMANENT	1 0.15 1.00	0.06 196.29	1.12 0.15	0.15 \$0 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902751	MRNG	E PERMANENT	1 0.15 1.00	0.08 98.17	0.78 0.03	0.13 \$0 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902751	MRNG	E PERMANENT	1 0.15 1.00	0.08 98.17	1.12 0.15	0.03 \$0 Complete	2018 IA, TP/TSS/TN Reduction
HO19RST902032 HO19RST902033	MRNG	E PERMANENT	1 0.15 1.00	0.06 196.29	1.12 0.15		2018 IA, TP/TSS/TN Reduction 2018 IA, TP/TSS/TN Reduction
	MRNG	E PERMANENT	1 0.15 1.00	0.06 196.29	1.12 0.15		· · ·
HO19RST902070	MRNG	E PERMANENT					2018 IA, TP/TSS/TN Reduction
HO19RST902071 HO19RST902133	MRNG	E PERMANENT	1 0.15 1.00 1 0.15 1.00	0.06 196.29 0.06 196.29	1.12 0.15 1.17 0.15	0.15 \$0 Complete 0.15 \$0 Complete	2018 IA, TP/TSS/TN Reduction 2018 IA, TP/TSS/TN Reduction
HO19RST902133 HO19RST902692	MRNG	E PERMANENT		0.06 196.29			2018 IA, TP/TSS/TN Reduction 2018 IA, TP/TSS/TN Reduction
LIOTAK21A05pA5	IVIKING	E PEKINANENI	1 0.15 1.00	0.00 196.29	1.12 0.15	0.15 \$1,200 Complete	ZUIO IM, TY/ ISS/ IN REDUCTION

Controlled	2																
Section   Section   Company   Comp	HO19RST902694	MRNG	E	PERMANENT	1	0.15	1.00	0.06	196.29	1.17	0.15	0.15	\$394	Complete	2018	IA, TP/TSS/TN Reduction	
Section   Property   1, December   1, Dece	HO19RST902700	MRNG	Е	PERMANENT	1	0.15	1.00	0.06	196,29	1.12	0.15	0.15	\$394	Complete	2018	IA. TP/TSS/TN Reduction	
Section   Property   1, December   1, Dece	HO19RST902697	MRNG	F	PERMANENT	1	0.15	1.00	0.08	307.00	0.93	0.15	0.15	\$1 200	Complete	2018	IA TP/TSS/TN Reduction	
March   Marc					1												
Second Column   1   Second Column   2   Seco					1												+
Section   Sect			_		1												
Section   Property					1												
Section   Process   1					1												
Section   Section   Communication   Communic	HO19RST902695		E	PERMANENT	1		1.00	0.06	222.54	1.17	0.15	0.15	\$564	Complete	2018	IA, TP/TSS/TN Reduction	
September   September	HO20RST109768	MMBR	E	PERMANENT	1	0.15	1.00	0.06	196.29	1.17	0.15	0.15	\$0	Complete	2018	IA, TP/TSS/TN Reduction	
Separate   Separate	HO19RST902701	MRNG	E	PERMANENT	1	0.15	1.00	0.06	222.54	1.17	0.15	0.15	\$497	Complete	2018	IA, TP/TSS/TN Reduction	
SIGNATURAN   STATE	HO19RST902707	MRNG	F	PERMANENT	1	0.15	1.00	0.06	196.29	1.12	0.15	0.15			2018	IA. TP/TSS/TN Reduction	
Section   Proceeding			F		1											, ,,	
March   Property   March   Property   1   75   12   12   12   13   13   13   13   13					1												
Control   Page					1												
SQUERNING   1					1												
SUMPLY   Company   Compa					1												
SMETTERS   SMETTER   SME					1				-,							, ,	
Control   Cont	HO19RST902710	MRNG	E	PERMANENT	1	0.15	1.00	0.06	196.29	1.12	0.15	0.15	\$640	Complete	2019	IA, TP/TSS/TN Reduction	
Company   Comp	HO19RST902708	MRNG	E	PERMANENT	1	0.15	1.00	0.06	222.54	1.17	0.15	0.15	\$344	Complete	2019	IA, TP/TSS/TN Reduction	
Company   Comp	HO20RST902752	MRNG	Е	PERMANENT	1	0.15	1.00	0.07	196.20	0.22	0.03	0.03	\$0	Complete	2019	IA. TP/TSS/TN Reduction	
Company   Comp					1												
COMPANIESTEAD   MARING   C. PEPRAMENT   1 93   187   C. PEPRAMENT   1 93   T. PEPRAMENT					1												
COMPRESSION   September   1   12   12   12   12   13   14   13   14   13   13   14   13   14   13   14   14					1												<del> </del>
CONSTRUCTION   CONSTRUCTION   1   12   12   12   12   13   13   13					+ +												
MONITORITY   MARCO   1			_		1												
MORRESTER   MARK   1   PRAMARET   1   5.11   1.05   5.00   12.177   6.01   5.05   5.05   5.10   5.10   5.00   5.11   5.00   5.10   5.00   5.					1												
MORRESTED   MARKET   1 0.52   1.08   0.07   24.00   0.03   0.03   0.05   36   0.0000000000000000000000000000000000					2											, ,,	
MARINE   PARAMENT   1 03   100   04   39.02   1.0   0.0	HO20RST109724	MRNG	E	PERMANENT	1	0.13	1.00	0.08	169.77	0.63	0.06	0.06	\$9,124	Complete	2019	IA, TP/TSS/TN Reduction	
MORNING   F   PRAMANET   1 0.07   1.08   0.04   80.07   1.07   0.01	HO20RST109757	MMBR	E	PERMANENT	1	0.15	1.00	0.07	294.09	0.84	0.15	0.15	\$0	Complete	2019	IA, TP/TSS/TN Reduction	
GORDENINGENT   FIG. 3   PREMANENT   1   0.7   1   0.10	HO20RST109758	MMBR	F	PERMANENT	1	0.92	1.00	0.48	380.62	3.87	0.01	0.01			2019	IA. TP/TSS/TN Reduction	
OURSPITS   STATE   S					1		1										
OFFICE   STATE   PERMANENT   2   8.4   8.6   6.7   1.889   5.10   2.9   2.9   2.15.787   Complete   2.004. TPT/TST/TM Reduction   Complete					1 1		3.0										
Construction   Cons					1								1 . /				+
Control   Cont					2												
March   Marc					1												
MINISTER   MINISTER			S		1			1.5	-,								
Formation   Part   1   23   1   0   0   0   7.47   7.47   7.78.635   Complete   2011 In 1775/Th Reduction   1   1   1   1   1   1   1   1   1	HO19RST900349	WSHW	S	PERMANENT	1	24.3	0.37	5.69	12,497.79	54.66	4.88	4.88	\$862,459	Complete	2019	IA, TP/TSS/TN Reduction	
HORDITIONES  PMED   S   PERMANENT   1   33.81   0.38	HO19RST902444	MMBR	E	PERMANENT	1	2.26	1	0	0	0	0	0	\$0	Complete	2019	IA, TP/TSS/TN Reduction	
NODESTIFUED S	HO18RST901548	PWED	S	PERMANENT	1	23.91	1	0	0	0	7.47	7.47	\$738,635	Complete	2019	IA, TP/TSS/TN Reduction	
NODESTIFUED S	HO20RST109863	PMED	S	PERMANENT	1	33.61	0.38	9.35	18.479.71	60.93	4.64	4.64	\$500,000	Complete	2020	IA. TP/TSS/TN Reduction	
COMESTIGNOSES   PAPER		PWFD	_	PERMANENT	1												
HO2085T900221   PWET   S   PERMANENT   1 75.5   0.27   12.86   22.82.00   92.85   6.52   1.	110201131103103				1	50.00	1.10		1,7,70.12	12.37	1.70	2.70	ψ1, 120,5 TO		2021	,,,	
HOBISTOSIAS   SSC	LIG20BCT000222	DWET		DEDMANUENT	1	76.54	0.27	12.04	22 202 05	02.65	C F2	6.53	¢1 022 102		2022	IA TD/TCC/TNI Reduction	+
NOBBRET901522   MSGW   E   PERMANENT   1   41.9   2.6   2.38   3,773.55   12.53   0.62   500.6569   Planning   2021   M, TP/TSS/TN Reduction   10.01857501522   PWET   S   PERMANENT   1   69.07   0.31   15.52   27,785.12   134.21   6.15   6.15   53.103.967   Planning   2022   M, TP/TSS/TN Reduction   10.020857501536   PWET   S   PERMANENT   1   57.67   0.13   6.6   12,492.88   33.57   12.3   12.2   592.37.86   Planning   2022   M, TP/TSS/TN Reduction   10.020857501537   PWET   S   PERMANENT   1   57.67   0.13   6.6   12,492.88   33.57   12.3   12.2   592.37.86   Planning   2022   M, TP/TSS/TN Reduction   10.020857101538   PWET   S   PERMANENT   1   54.88   0.83   11.25   26.622.97   64.42   9.61   9.61   51.164,747   Under   Construction   Const					1 1				-,								
HO38RST901523   MSGW   E   PERMANENT   1   41,93   2.6   2.36   3,773.56   12.53   0.62   0.62   5902,696   Planning   2023   A, PF/SSY/IR Reduction   MC108RST901525   PWET   5   PERMANENT   1   50,90   0.31   15,52   2,778.12   12.41   6.15   1.23   593.3,78   Planning   2023   A, PF/SSY/IR Reduction   MC108RST901525   PWET   5   PERMANENT   1   34.58   0.83   11.75   26,632.27   64.2   9.61   9.61   9.61   51,64,74   Under   2023   A, PF/SSY/IR Reduction   MC108RST901577   PWET   5   PERMANENT   1   0.15   1.00   0.06   196.29   1.12   0.15   0.15   50   Complete   2005   A, PF/SSY/IR Reduction   MC108RST9015798   MRNK   E   PERMANENT   1   0.15   1.00   0.06   196.29   1.12   0.15   0.05   5.00   5.00   50   Complete   2005   A, PF/SSY/IR Reduction   MC108RST9015998   MRNK   E   PERMANENT   1   5.00   1.00   2.17   7.417.78   38.91   5.00   5.00   5.00   50   Complete   2005   A, PF/SSY/IR Reduction   MC108RST9015998   MRNK   MR	HO18RS1901518	SPSC	A	PERMANENT	1	37.17	1.34	1/./	31,953.80	109.8	11.15	11.15	\$1,178,099		2021	IA, TP/TSS/TN Reduction	
HO38FS910522   WET   S   PERMANENT   1   69.07   0.31   15.52   27,785.12   124.21   6.15   6.15   52,103,967   Planning   2022   TyTFS7N Reduction   Moderation   Moderatio																	
H200857903256   PWET   S   PERMANENT   1   5   5   6   0.3   6   6   12,492,88   33.57   1.28   1.28   5923,784   Planning   2023  A, TPT/SS/TN Reduction     H202857109788   MRNG   E   PERMANENT   1   0.35   1.00   0.06   196.29   1.12   0.15   0.15   5.00					1				-,							, ,,	
H0218F310978   MRNG	HO18RST901522	PWET	S		1	69.07	0.31	15.52	27,785.12	124.21	6.15	 6.15	\$2,103,967	Planning	2022	IA, TP/TSS/TN Reduction	
H0218F310978   MRNG	HO20RST901526	PWET	S	PERMANENT	1	57.62	0.13	6.6	12,492.88	33.57	1.23	 1.23	\$923,784	Planning	2023	IA, TP/TSS/TN Reduction	
Construction   Cons	HO21RST901527	PWET	S		1	34.58	0.83	11.25	26,622.97	64.42	9.61	9.61	\$1,164.747	Under	2021	IA, TP/TSS/TN Reduction	
HOZORSTID978				1	1 7				-,-				. , . ,				
HOZDRST109803	HO20PST100708	MPNG	E	DEDMANIENT	1	0.15	1.00	0.06	106.20	1 12	0.15	0.15	ćn		2005	IA TD/TSS/TN Reduction	
HOZORST109804   ODSW   S   PERMANENT   1   5.00   1.00   2.17   7.417.78   38.91   5.00   5.00   50   Complete   2005   A, TP/TSS/TN Reduction   5.00   50   Complete   2.00   A, TP/TSS/TN Reduction   5.00					1 1												+
H202R\$T109805 ODSW S PERMANENT 1 5.00 1.00 2.17 7,417.78 38.91 5.00 5.00 5.00 SO Complete 2005 IA, TP/TSS/TN Reduction MC20R\$T109778 ODSW S PERMANENT 1 5.00 1.00 0.00 1.00 0.00 307.00 0.93 0.15 0.15 5.00 SO Complete 2005 IA, TP/TSS/TN Reduction MC20R\$T109809 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 5.00 SO Complete 2006 IA, TP/TSS/TN Reduction MC20R\$T109781 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 5.00 SO Complete 2007 IA, TP/TSS/TN Reduction MC20R\$T109782 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 5.00 SO Complete 2007 IA, TP/TSS/TN Reduction MC20R\$T109783 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 5.00 SO Complete 2007 IA, TP/TSS/TN Reduction MC20R\$T109783 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 5.00 SO Complete 2007 IA, TP/TSS/TN Reduction MC20R\$T109783 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 5.00 SO Complete 2007 IA, TP/TSS/TN Reduction MC20R\$T109784 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 5.00 SO Complete 2007 IA, TP/TSS/TN Reduction MC20R\$T109784 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 5.00 SO Complete 2007 IA, TP/TSS/TN Reduction MC20R\$T109785 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 5.00 SO Complete 2007 IA, TP/TSS/TN Reduction MC20R\$T109786 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 5.00 SO Complete 2007 IA, TP/TSS/TN Reduction MC20R\$T109786 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 5.00 SO Complete 2007 IA, TP/TSS/TN Reduction MC20R\$T109788 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 5.00 SO Complete 2007 IA, TP/TSS/TN Reduction MC20R\$T109789 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 5.00 SO Complete 2007 IA, TP/TSS/TN Reduction MC20R\$T109789 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 5.00 SO Complete 2007 IA, TP/TSS/TN Reduction MC20R\$T109789 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 5.00 SO Complete 2007 IA, TP/TSS/TN Reduction MC20R\$T10979 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 5.00 SO COMPLETE 2007 IA, TP/TSS/TN Reduction MC20R\$T10979 MRN					1												<del> </del>
HOZORST109778   ODSW   S   PERMANENT   1   5.00   1.00   2.20   6.543.19   37.17   5.00   5					1				, -							, ,,	
HOZORST109809   MRNG					1				, -								
HOZORST109780 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.			S		1					37.17			\$0	Complete			
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HOZORST109781 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.15 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 0.15 0.15 0.15 0.15	HO20RST109780	MRNG	E	PERMANENT	1	0.15	1.00	0.06	196.29	1.12	0.15	0.15	\$0	Complete	2007	IA, TP/TSS/TN Reduction	
HO20RST109782 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 50 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 50 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 50 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 50 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 50 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 50 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 50 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 50 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 50 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 50 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 50 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 50 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 50 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 50 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 50 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 50 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 50 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 50 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 50 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 50 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.15 0.15 50 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.15 0.15 50 Complete 2007 IA, TP/TSS/TN Reduction 1 0.15 1.00 0.15 0.15 0.15 0.15 0.15 0.					1												
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HO20RST109784 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 50 Complete 2007 IA, TP/TSS/TN Reduction HO20RST109786 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 50 Complete 2007 IA, TP/TSS/TN Reduction D.15 50 Complete 2007 IA, TP/T					1 1												<del> </del>
HO20RST109785 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction HO20RST109786 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction HO20RST109787 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction HO20RST109788 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction HO20RST109789 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction HO20RST109790 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction HO20RST109790 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction HO20RST109791 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction HO20RST109791 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction					+ +											, ,,	
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HO20RST109789 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction HO20RST109790 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction HO20RST109791 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction	HO20RST109787	MRNG	E	PERMANENT	1	0.15	1.00	0.06	196.29	1.12	0.15	 0.15	\$0	Complete	2007	IA, TP/TSS/TN Reduction	
HO20RST109789 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction HO20RST109790 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction HO20RST109791 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 IA, TP/TSS/TN Reduction	HO20RST109788	MRNG	E	PERMANENT	1	0.15	1.00	0.06	196.29	1.12	0.15	0.15	\$0	Complete	2007	IA, TP/TSS/TN Reduction	
HO20RST109790 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 M, TP/TSS/TN Reduction HO20RST109791 MRNG E PERMANENT 1 0.15 1.00 0.06 196.29 1.12 0.15 0.15 \$0 Complete 2007 M, TP/TSS/TN Reduction					1												
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1   1   1   1   1   1   1   1   1   1			E -		1												
	HO20RST109792	MKNG	E	PERMANENT	1 1	0.15	1.00	0.06	196.29	1.12	0.15	0.15	\$0	Complete	2007	IA, TP/TSS/TN Reduction	

HO20RST109793	MRNG	E	PERMANENT	1	0.15	1.00		0.06	196.29	1.12	0.15		0.15	\$0	Complete	2007 1	A, TP/TSS/TN Reduction	
HO20RST109794	MRNG	E	PERMANENT	1	0.15	1.00		0.06	196.29	1.12	0.15		0.15	\$0	Complete	2007 1	A, TP/TSS/TN Reduction	
HO20RST109795	MRNG	F	PERMANENT	1	0.15	1.00		0.06	196.29	1.12	0.15		0.15		Complete	2007 1	A, TP/TSS/TN Reduction	
HO20RST109797	MRNG	E	PERMANENT	1	0.15	1.00		0.06	196.29	1.12	0.15		0.15		Complete		A, TP/TSS/TN Reduction	
	MRNG	F	PERMANENT		0.15	1.00												
HO20RST109799				1				0.06	196.29	1.12	0.15		0.15		Complete		A, TP/TSS/TN Reduction	
HO20RST109823	MRNG	E	PERMANENT	1	0.15	1.00		0.08	307.00	0.93	0.15		0.15		Complete		A, TP/TSS/TN Reduction	
HO20RST109824	MRNG	E	PERMANENT	1	0.15	1.00		0.08	307.00	0.93	0.15		0.15		Complete	2008 1	A, TP/TSS/TN Reduction	
HO20RST109825	MRNG	E	PERMANENT	1	0.15	1.00		0.08	307.00	0.93	0.15		0.15	\$0	Complete	2008 1	A, TP/TSS/TN Reduction	
HO20RST109826	MRNG	E	PERMANENT	1	0.15	1.00		0.08	307.00	0.93	0.15		0.15	\$0	Complete	2008 1	A, TP/TSS/TN Reduction	
HO20RST109827	MRNG	F	PERMANENT	1	0.15	1.00		0.08	307.00	0.93	0.15		0.15		Complete		A. TP/TSS/TN Reduction	
HO20RST109822	MRNG		PERMANENT	1	0.15	1.00		0.08	307.00	0.93	0.15		0.15		Complete		A, TP/TSS/TN Reduction	
				1														
HO20RST109732	MRNG	E	PERMANENT	1	0.15	1.00		0.06	196.29	1.12	0.15		0.15		Complete		A, TP/TSS/TN Reduction	
HO20RST109733	MRNG	E	PERMANENT	1	0.15	1.00		0.06	196.29	1.12	0.15		0.15		Complete	2010	A, TP/TSS/TN Reduction	
HO20RST109734	MRNG	E	PERMANENT	1	0.15	1.00		0.06	196.29	1.12	0.15		0.15	\$0	Complete	2010	A, TP/TSS/TN Reduction	
HO20RST109735	MRNG	E	PERMANENT	1	0.15	1.00		0.06	196.29	1.12	0.15		0.15	\$0	Complete	2010	A, TP/TSS/TN Reduction	
HO20RST109736	MRNG	F	PERMANENT	1	0.15	1.00		0.06	196.29	1.12	0.15		0.15	\$0	Complete	2010 1	A, TP/TSS/TN Reduction	
HO20RST109737	MRNG	F	PERMANENT	1	0.15	1.00		0.06	196.29	1.12	0.15		0.15		Complete		A, TP/TSS/TN Reduction	
				1	0.15													
HO20RST109738	MRNG	E	PERMANENT	1	0.15	1.00		0.06	196.29	1.12	0.15		0.15		Complete		A, TP/TSS/TN Reduction	
HO20RST109739	MRNG	E	PERMANENT	1	0.15	1.00		0.06	196.29	1.12	0.15		0.15		Complete		A, TP/TSS/TN Reduction	
HO20RST109740	MRNG	E	PERMANENT	1	0.15	1.00		0.08	307.00	0.93	0.15		0.15		Complete	2010	A, TP/TSS/TN Reduction	
HO20RST109741	MRNG	E	PERMANENT	1	0.15	1.00		0.06	196.29	1.12	0.15		0.15	\$0	Complete	2010	A, TP/TSS/TN Reduction	
HO20RST109742	MRNG	E	PERMANENT	1	0.15	1.00		0.06	196.29	1.12	0.15		0.15		Complete		A, TP/TSS/TN Reduction	
HO20RST109742	MRNG	E	PERMANENT	1 1	0.15	1.00		0.06	196.29	1.12	0.15		0.15		Complete		A, TP/TSS/TN Reduction	
				1														
HO20RST109744	MRNG	E	PERMANENT	1	0.15	1.00		0.06	196.29	1.12	0.15		0.15		Complete		A, TP/TSS/TN Reduction	
HO20RST109745	MRNG	E	PERMANENT	1	0.15	1.00		0.06	196.29	1.12	0.15		0.15	\$0	Complete	2010	A, TP/TSS/TN Reduction	
HO20RST109746	MRNG	E	PERMANENT	1	0.15	1.00		0.06	196.29	1.12	0.15		0.15	\$0	Complete	2010	A, TP/TSS/TN Reduction	
HO20RST109747	MRNG	E	PERMANENT	1	0.15	1.00		0.06	196.29	1.12	0.15		0.15	\$0	Complete	2010	A, TP/TSS/TN Reduction	
HO20RST109748	MRNG	E	PERMANENT	1	0.15	1.00		0.08	307.00	0.93	0.15		0.15		Complete		A, TP/TSS/TN Reduction	
HO20RST109749	MRNG	E	PERMANENT	1	0.15	1.00		0.06	196.29	1.12	0.15		0.15		Complete		A, TP/TSS/TN Reduction	
				1														
HO20RST109750	MRNG	E	PERMANENT	1	0.15	1.00		0.08	307.00	0.93	0.15		0.15		Complete		A, TP/TSS/TN Reduction	
HO20RST109776	ODSW	S	PERMANENT	1	5.00	1.00		2.03	9,922.62	31.16	5.00		5.00		Complete		A, TP/TSS/TN Reduction	
HO20RST109764	MIDW	E	PERMANENT	1	0.15	1.00		0.06	297.68	0.94	0.15		0.15	\$0	Complete	2013	A, TP/TSS/TN Reduction	
HO20RST109765	MIDW	E	PERMANENT	1	0.15	1.00		0.06	297.68	0.94	0.15		0.15	\$0	Complete	2013	A, TP/TSS/TN Reduction	
HO20RST109766	MIDW	F	PERMANENT	1	0.15	1.00		0.06	297.68	0.94	0.15		0.15	\$0	Complete	2013	A, TP/TSS/TN Reduction	
HO20RST109767	MMBR	E	PERMANENT	1	0.15	1.00		0.06	196.29	1.12	0.15		0.15		Complete		A, TP/TSS/TN Reduction	
	PWED	S		-					34.408.24		16.30							
HO19RST108440			PERMANENT	1	55.35	1.00		21.79	- ,	165.69			16.30		Complete		A, TP/TSS/TN Reduction	
HO20RST109752	FBIO	S	PERMANENT	1	0.21	1.00		0.11	84.57	0.88	0.00		0.00		Complete		A, TP/TSS/TN Reduction	
HO15RST900314	FBIO	S	PERMANENT	1	0.22	1.00		0.12	455.61	1.38	0.22		0.22	\$100,000	Complete	2015 I	A, TP/TSS/TN Reduction	
HO20RST109815	MMBR	E	PERMANENT	1	0.15	1.00		0.06	222.54	1.17	0.15		0.15	\$0	Complete	2017	A, TP/TSS/TN Reduction	
HO20APY100621	CLTM	А	PERMANENT	1	0.11			0.06	0.00	0.46	0.04		0.04		Complete		A, TP/TSS/TN Reduction	
HO20APY100622	CLTM	A	PERMANENT	1	0.08			0.04	0.00		0.03		0.03		Complete		A, TP/TSS/TN Reduction	
	CLTIVI			1	0.08													
HO22RST902771		S	PERMANENT	1				0.00	0.00	0.00	0.00		0.00	\$7,346,931			Flood control	
HO20RST901543	1	S	PERMANENT	1				0.00	0.00	0.00	0.00		0.00	\$20,180,758			Flood control	
HO23RST902773		S	PERMANENT	1				0.00	0.00	0.00	0.00		0.00	\$3,554,091	Planning	2023 F	Flood control	
D1164-FY2013 COMMUNITY											1		1	\$400,000	Under	2020	Education, Outreach, IA, TP/TSS/TN Reduction	This project is for design and construction of
ENVIRONMENTAL PARTNERSHIPS															Construction			Environmental Site Design (ESD) small scale storm water facilities by Howard EcoWorks.
D1164 EV2012 COMMANDER	+	+	<del> </del>	+ +				<del>                                     </del>		+	1		- 1	\$400.000	Under	2024	Education Outroach IA TR/TCC/TN Reduction	This project is for design and apparatuation of
D1164-FY2013 COMMUNITY			1					1			1		1	\$400,000		2021	Education, Outreach, IA, TP/TSS/TN Reduction	This project is for design and construction of
ENVIRONMENTAL			1					1							Construction			Environmental Site Design (ESD) small scale
PARTNERSHIPS			1					1										storm water facilities by Howard EcoWorks.
1			1					1										
D1164-FY2013 COMMUNITY		1	İ	1 1						1	1	İ	1	\$400,000	Design	2022	Education, Outreach, IA, TP/TSS/TN Reduction	This project is for design and construction of
ENVIRONMENTAL			İ					1			7		Ī	+,500			, , . , . , ,	Environmental Site Design (ESD) small scale
PARTNERSHIPS								1										= ' '
PAKTINEKSHIPS			1					1										storm water facilities by Howard EcoWorks.
				+											L			
D1164-FY2013 COMMUNITY			İ					1			1		1	\$400,000	Planning	2023	Education, Outreach, IA, TP/TSS/TN Reduction	This project is for design and construction of
ENVIRONMENTAL								1										Environmental Site Design (ESD) small scale
PARTNERSHIPS								1										storm water facilities by Howard EcoWorks.
			1															
D1164 EV2012 COMMUNITY	1		1	1 1				+		+	1		1	¢400.000	Dlanning	2024	direction Outrooch IA TD/TCC/TN Deduction	This puriost is for design and construction of
D1164-FY2013 COMMUNITY								1			1		1	\$400,000	Planning	2024	Education, Outreach, IA, TP/TSS/TN Reduction	This project is for design and construction of
ENVIRONMENTAL			1					1										Environmental Site Design (ESD) small scale
PARTNERSHIPS			1															storm water facilities by Howard EcoWorks.
			1					1										
•	•	•					•	•		•	•							

D1164-FY2013 COMMUNITY									1			1	\$400,000	Planning	2025 Education, Outreach, IA, TP/TSS/TN Reduction	This project is for design and construction of
ENVIRONMENTAL																Environmental Site Design (ESD) small scale
PARTNERSHIPS																storm water facilities by Howard EcoWorks.
																, , , , , , , , , , , , , , , , , , , ,
D1164-FY2013 COMMUNITY									1			1	\$400,000	Planning	2026 Education, Outreach, IA, TP/TSS/TN Reduction	This project is for design and construction of
ENVIRONMENTAL									_			-	5400,000	lailling	2020 Education, Odireach, IA, 17/133/114 Neduction	Environmental Site Design (ESD) small scale
PARTNERSHIPS																S , ,
PARTNERSHIPS																storm water facilities by Howard EcoWorks.
													4			
D1164-FY2013 COMMUNITY									1			1	\$400,000	Planning	2027 Education, Outreach, IA, TP/TSS/TN Reduction	This project is for design and construction of
ENVIRONMENTAL																Environmental Site Design (ESD) small scale
PARTNERSHIPS																storm water facilities by Howard EcoWorks.
D1164-FY2013 COMMUNITY									1			1	\$400,000	Planning	2028 Education, Outreach, IA, TP/TSS/TN Reduction	This project is for design and construction of
ENVIRONMENTAL																Environmental Site Design (ESD) small scale
PARTNERSHIPS																storm water facilities by Howard EcoWorks.
																, , , , , , , , , , , , , , , , , , , ,
Subtotal Capital (up to 2026)	1		199			4,214.9	11,208,962.2	8,474.8	1,356.7	0.0	0.0	1,356.7	\$90,841,970			
Other		<u> </u>	155			7,217.3	11,200,302.2	0,474.0	1,550.7	0.0	0.0	1,550.7	ψ30,012,370			
	SEPC	A PERMANENT	1		П	0.00	0.00	0.00	0.22			0.23	\$10,000	`ananlata	2018 IA	
		A PERMANENT	1		<b></b>	0.00	0.00	0.00	0.23	+		0.23				
	SEPC		1				0.00			-			\$12,850		2018 IA	<del> </del>
	SEPC	A PERMANENT	1			0.00	0.00	0.00	0.23			0.23	\$20,000		2018 IA	
	SEPC	A PERMANENT	1			0.00	0.00	0.00	0.23			0.23	\$14,360		2018 IA	
HO18APT007697	SEPC	A PERMANENT	1			0.00	0.00	0.00	0.23			0.23	\$20,000		2018 IA	
HO19APT008548	SEPC	A PERMANENT	1			0.00	0.00	0.00	0.23			0.23	\$0	Complete	2019 IA	
HO19APT008552	SEPC	A PERMANENT	1			0.00	0.00	0.00	0.23			0.23	\$0.0	Complete	2019 IA	
HO19APT008547	SEPC	A PERMANENT	1			0.00	0.00	0.00	0.23			0.23		Complete	2019 IA	
	SEPC	A PERMANENT	1			0.00	0.00	0.00	0.23			0.23		Complete	2019 IA	
	SEPC	A PERMANENT	1			0.00	0.00	0.00	0.23	+		0.23		Complete	2019 IA	
	SEPC	A PERMANENT	1			0.00	0.00	0.00	0.23			0.23		Complete	2019 IA	
	SEPC	A PERMANENT	1			0.00	0.00	0.00	0.23			0.23		Complete	2019 IA	
	SEPC		1			0.00	0.00	0.00	0.23			0.23		Complete	2019 IA 2019 IA	
			1													
HO19APT008551	SEPC	A PERMANENT	1			0.00	0.00	0.00	0.23			0.23		Complete	2019 IA	
	SEPC	A PERMANENT	1			0.00	0.00	0.00	0.23			0.23	\$12,000		2020 IA	
	SEPC	A PERMANENT	1			0.00	0.00	0.00	0.23			0.23	\$12,000		2020 IA	
	SEPC	A PERMANENT	1			0.00	0.00	0.00	0.23			0.23	\$12,000	Complete	2020 IA	
HO19APT008557	SEPD	A PERMANENT	1			0.00	0.00	0.00	0.16			0.16	\$0	Complete	2019 IA	
HO19APT008563	SEPD	A PERMANENT	1			0.00	0.00	0.00	0.16			0.16	\$5,700	Complete	2019 IA	
HO19APT008559	SEPD	A PERMANENT	1			0.00	0.00	0.00	0.16			0.16	\$0.0	Complete	2019 IA	
HO19APT008558	SEPD	A PERMANENT	1			0.00	0.00	0.00	0.16			0.16		Complete	2019 IA	
	SEPD	A PERMANENT	1			0.00	0.00	0.00	0.16			0.16		Complete	2019 IA	
HO19APT008556	SEPD	A PERMANENT	1			0.00	0.00	0.00	0.16			0.16	\$14,000		2019 IA	
HO19APT008568	SEPD	A PERMANENT	1			0.00	0.00	0.00	0.16			0.16		Complete	2019 IA	
	SEPD		1													
			1			0.00	0.00	0.00	0.16			0.16		Complete	2019 IA	
	SEPD	A PERMANENT	1			0.00	0.00	0.00	0.16			0.16	\$12,000		2019 IA	
HO19APT008560	SEPD	A PERMANENT	1			0.00	0.00	0.00	0.16			0.16		Complete	2019 IA	
HO19APT008569	SEPD	A PERMANENT	1			0.00	0.00	0.00	0.16			0.16		Complete	2019 IA	
	SEPD	A PERMANENT	1			0.00	0.00	0.00	0.16			0.16		Complete	2019 IA	
	SEPD	A PERMANENT	1			0.00	0.00	0.00	0.16			0.16		Complete	2019 IA	
HO19APT008566	SEPD	A PERMANENT	1			0.00	0.00	0.00	0.16			0.16	\$0	Complete	2019 IA	
HO19APT008565	SEPD	A PERMANENT	1			0.00	0.00	0.00	0.16		İ	0.16		Complete	2019 IA	
	SEPD	A PERMANENT	1			0.00	0.00	0.00	0.16			0.16	\$12,000		2019 IA	
	SEPD	A PERMANENT	1			0.00	0.00	0.00	0.16	<del></del>		0.16	\$12,000		2019 IA	
	SEPD	A PERMANENT	1		<b> </b>	0.00	0.00	0.00	0.16	+		0.16	\$12,000		2019 IA	
	SEPD	A PERMANENT	1		<b></b>	0.00	0.00	0.00	0.16	$\longrightarrow$		0.16			2019 IA 2019 IA	
	SEPD		1		<b> </b>								\$12,000			
		A PERMANENT	1		ļ	0.00	0.00	0.00	0.16			0.16	\$12,000		2019 IA	
	SEPD	A PERMANENT	1		ļ	0.00	0.00	0.00	0.16			0.16	\$12,000		2019 IA	
	SEPD	A PERMANENT	1			0.00	0.00	0.00	0.16			0.16	\$12,000		2019 IA	
	SEPD	A PERMANENT	1			0.00	0.00	0.00	0.16			0.16		Complete	2019 IA	
HO20APT009154	SEPD	A PERMANENT	1			0.00	0.00	0.00	0.16			0.16	\$12,000	Complete	2019 IA	
HO20APT009153	SEPD	A PERMANENT	1			0.00	0.00	0.00	0.16			0.16	\$12,000		2019 IA	
HO20APT009139	SEPD	A PERMANENT	1			0.00	0.00	0.00	0.16		i	0.16	\$12,000	Complete	2020 IA	
	SEPD	A PERMANENT	1			0.00	0.00	0.00	0.16			0.16	\$12,000		2020 IA	
	SEPD	A PERMANENT	1		<b></b>	0.00	0.00	0.00	0.16	+	+	0.16	\$12,000		2020 IA	
HO18RST901845	MRWH	E PERMANENT	1	0.002	1	0.001	0.00	0.00		+		0.00143		Complete	2018 IA, TP/TSS/TN Reduction	
HO18RST901863	MRWH	E PERMANENT	1	0.002	1	0.001	0.00	0.01	0.00143	+		0.00143		Complete	2018 IA, TP/TSS/TN Reduction	
HO18RST901897	MRWH	E PERMANENT	1	0.002	1	0.001	0.00			+		0.00143			2018 IA, TP/TSS/TN Reduction	
UOTOV21A0T9A1	INIVANU	E PERIVIANENT	1 1	0.002	1	0.001	0.00	0.01	0.00143		L	0.00143	\$40 0	Complete	ZOTO IA, TP/155/TN REDUCTION	

	1					1	1								
HO18RST901904	MRWH	E	PERMANENT		002	1 0.00:		0.02	0.00143			40 Complete		IA, TP/TSS/TN Reduction	
HO18RST901858	MRWH	E	PERMANENT		002	1 0.003		0.02	0.00143			40 Complete		IA, TP/TSS/TN Reduction	
HO18RST901859	MRWH	E	PERMANENT		002	1 0.003	0.00	0.02	0.00143			40 Complete		IA, TP/TSS/TN Reduction	
HO18RST901865	MRWH	E	PERMANENT		002	1 0.003	0.00	0.02	0.00143			40 Complete		IA, TP/TSS/TN Reduction	
HO18RST901867	MRWH	E	PERMANENT		002	1 0.00:	0.00	0.01	0.00143			640 Complete		IA, TP/TSS/TN Reduction	
HO18RST901869	MRWH	E	PERMANENT	1 0.	002	1 0.003	0.00	0.02	0.00143		0.00143	Complete	2018	IA, TP/TSS/TN Reduction	
HO18RST901872	MRWH	E	PERMANENT	1 0.	002	1 0.003	0.00	0.02	0.00143		0.00143	40 Complete	2018	IA, TP/TSS/TN Reduction	
HO18RST901876	MRWH	E	PERMANENT	1 0.	002	1 0.003	0.00	0.02	0.00143		0.00143	40 Complete	2018	IA, TP/TSS/TN Reduction	
HO18RST901877	MRWH	E	PERMANENT	1 0.	002	1 0.003	0.00	0.02	0.00143		0.00143	40 Complete	2018	IA, TP/TSS/TN Reduction	
HO18RST901879	MRWH	E	PERMANENT	1 0.	002	1 0.003	0.00	0.02	0.00143		0.00143	40 Complete	2018	IA, TP/TSS/TN Reduction	
HO18RST901881	MRWH	E	PERMANENT		002	1 0.003	0.00	0.01	0.00143			40 Complete		IA, TP/TSS/TN Reduction	
HO18RST901883	MRWH	F	PERMANENT	1 0.	002	1 0.003	0.00	0.02	0.00143			40 Complete		IA, TP/TSS/TN Reduction	
HO18RST901885	MRWH	E	PERMANENT		002	1 0.003	0.00	0.02	0.00143			40 Complete		IA, TP/TSS/TN Reduction	
HO18RST901891	MRWH	F	PERMANENT		002	1 0.003	0.00	0.02	0.00143			340 Complete		IA, TP/TSS/TN Reduction	-
HO18RST901907	MRWH	E	PERMANENT		002	1 0.003	0.00	0.02	0.00143			340 Complete		IA, TP/TSS/TN Reduction	
HO18RST901910	MRWH	E	PERMANENT		002	1 0.00	0.00	0.02	0.00143		·	40 Complete		IA, TP/TSS/TN Reduction	-
	MRWH	F	PERMANENT		002		0.00			-				IA, TP/TSS/TN Reduction	
HO18RST901912	MRWH		PERMANENT			1 0.003		0.02	0.00143			640 Complete			
HO18RST901914		E			002	1 0.00:	0.00	0.02	0.00143			40 Complete		IA, TP/TSS/TN Reduction	
HO18RST901926	MRWH	E	PERMANENT		002	1 0.00:	0.00	0.02	0.00143			40 Complete		IA, TP/TSS/TN Reduction	
HO18RST901927	MRWH	E	PERMANENT		002	1 0.003	0.00	0.02	0.00143			40 Complete		IA, TP/TSS/TN Reduction	
HO18RST901928	MRWH	E	PERMANENT		002	1 0.003	0.00	0.02	0.00143			40 Complete		IA, TP/TSS/TN Reduction	
HO18RST901936	MRWH	E	PERMANENT		002	1 0.003	0.00	0.02	0.00143		·	40 Complete		IA, TP/TSS/TN Reduction	
HO18RST901940	MRWH	E	PERMANENT		002	1 0.003	0.00	0.01	0.00143			40 Complete		IA, TP/TSS/TN Reduction	
HO18RST901941	MRWH	E	PERMANENT	1 0.	002	1 0.003	0.00	0.02	0.00143			40 Complete	2018	IA, TP/TSS/TN Reduction	
HO18RST901862	MRWH	E	PERMANENT	1 0.	002	1 0.003	0.00	0.02	0.00143		0.00143	40 Complete	2018	IA, TP/TSS/TN Reduction	
HO18RST901866	MRWH	E	PERMANENT	1 0.	002	1 0.003	0.00	0.02	0.00143		0.00143	40 Complete	2018	IA, TP/TSS/TN Reduction	
HO18RST901878	MRWH	E	PERMANENT	1 0.	002	1 0.003	0.00	0.01	0.00143		0.00143	40 Complete	2018	IA, TP/TSS/TN Reduction	
HO18RST901900	MRWH	Е	PERMANENT	1 0.	002	1 0.003	0.00	0.02	0.00143		0.00143	40 Complete	2018	IA, TP/TSS/TN Reduction	
HO18RST901902	MRWH	E	PERMANENT		002	1 0.003	0.00	0.02	0.00143			340 Complete		IA, TP/TSS/TN Reduction	
HO18RST901916	MRWH	F	PERMANENT		002	1 0.003	0.00	0.02	0.00143		·	340 Complete		IA, TP/TSS/TN Reduction	
HO18RST901901	MRWH	E	PERMANENT		002	1 0.00	0.00	0.02	0.00143			340 Complete		IA, TP/TSS/TN Reduction	-
HO18RST901901	MRWH	F	PERMANENT		002	1 0.00	0.00	0.02	0.00143			40 Complete		IA. TP/TSS/TN Reduction	
HO18RST901884	MRWH	E	PERMANENT		002	1 0.00	0.00	0.00	0.00143	+	·			IA, TP/TSS/TN Reduction	
HO18RST901884	MRWH		PERMANENT		002	1 0.00	0.00	0.00	0.00143					IA, TP/TSS/TN Reduction	
		E	1											, ,	
HO18RST901905	MRWH	E	PERMANENT		002	1 0.003	0.00	0.01	0.00143			40 Complete		IA, TP/TSS/TN Reduction	
HO18RST901919	MRWH	E	PERMANENT		002	1 0.003	0.00	0.02	0.00143			40 Complete		IA, TP/TSS/TN Reduction	
HO18RST901924	MRWH	E	PERMANENT		002	1 0.003	0.00	0.02	0.00143			40 Complete		IA, TP/TSS/TN Reduction	
HO18RST901939	MRWH	E	PERMANENT		002	1 0.003	0.00	0.02	0.00143			40 Complete		IA, TP/TSS/TN Reduction	
HO18RST901843	MRWH	E	PERMANENT		002	1 0.003	0.00	0.02	0.00143			340 Complete		IA, TP/TSS/TN Reduction	
HO18RST901846	MRWH	E	PERMANENT		002	1 0.003	0.00	0.02	0.00143			540 Complete		IA, TP/TSS/TN Reduction	
HO18RST901848	MRWH	E	PERMANENT		002	1 0.003	0.00	0.02	0.00143			340 Complete	2018	IA, TP/TSS/TN Reduction	
HO18RST901849	MRWH	E	PERMANENT	1 0.	002	1 0.003	0.00	0.02	0.00143		0.00143	40 Complete	2018	IA, TP/TSS/TN Reduction	
HO18RST901850	MRWH	E	PERMANENT	1 0.	002	1 0.003	0.00	0.01	0.00143		0.00143	40 Complete	2018	IA, TP/TSS/TN Reduction	
HO18RST901851	MRWH	E	PERMANENT	1 0.	002	1 0.003	0.00	0.01	0.00143		0.00143	40 Complete	2018	IA, TP/TSS/TN Reduction	
HO18RST901852	MRWH	E	PERMANENT		002	1 0.003	0.00	0.02	0.00143			40 Complete	2018	IA, TP/TSS/TN Reduction	
HO18RST901855	MRWH	Е	PERMANENT		002	1 0.003	0.00	0.02	0.00143			40 Complete	2018	IA, TP/TSS/TN Reduction	
HO18RST901861	MRWH	Е	PERMANENT		002	1 0.003	0.00	0.02	0.00143			40 Complete	2018	IA, TP/TSS/TN Reduction	
HO18RST901868	MRWH	E	PERMANENT		002	1 0.003	0.00	0.02	0.00143			340 Complete		IA, TP/TSS/TN Reduction	
HO18RST901870	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			340 Complete		IA, TP/TSS/TN Reduction	-
HO18RST901873	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143	+		40 Complete		IA, TP/TSS/TN Reduction	
HO18RST901882	MRWH	F	PERMANENT		002	1 0.00	0.00	0.01	0.00143	+		40 Complete		IA, TP/TSS/TN Reduction	-
HO18RST901886	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143	+		540 Complete		IA, TP/TSS/TN Reduction	
HO18RST901886 HO18RST901888	MRWH	E	PERMANENT		002	1 0.00	0.00	0.02	0.00143	+				IA, TP/TSS/TN Reduction IA, TP/TSS/TN Reduction	
			1												
HO18RST901892	MRWH	E	PERMANENT		002	1 0.003	0.00	0.02	0.00143		·	40 Complete		IA, TP/TSS/TN Reduction	
HO18RST901898	MRWH	E	PERMANENT		002	1 0.003	0.00	0.02	0.00143	+		40 Complete		IA, TP/TSS/TN Reduction	
HO18RST901899	MRWH	E	PERMANENT		002	1 0.00:	0.00	0.02	0.00143			40 Complete		IA, TP/TSS/TN Reduction	
HO18RST901908	MRWH	E	PERMANENT		002	1 0.003	0.00	0.02	0.00143			40 Complete		IA, TP/TSS/TN Reduction	
HO18RST901918	MRWH	E	PERMANENT		002	1 0.003	0.00	0.02	0.00143			40 Complete		IA, TP/TSS/TN Reduction	
HO18RST901920	MRWH	E	PERMANENT		002	1 0.00:	0.00	0.01	0.00143		·	40 Complete		IA, TP/TSS/TN Reduction	
HO18RST901921	MRWH	E	PERMANENT	1 0.	002	1 0.003	0.00	0.01	0.00143		0.00143	40 Complete	2018	IA, TP/TSS/TN Reduction	
HO19RST902318	MRWH	E	PERMANENT	1 0.	002	1 0.003	0.00	0.02	0.00143		0.00143	25 Complete	2018	IA, TP/TSS/TN Reduction	
HO19RST902322	MRWH	E	PERMANENT	1 0.	002	1 0.003	0.00	0.01	0.00143		0.00143	25 Complete	2018	IA, TP/TSS/TN Reduction	
HO19RST902332	MRWH	Е	PERMANENT	1 0.	002	1 0.003	0.00	0.00	0.00143		·	25 Complete	2018	IA, TP/TSS/TN Reduction	
HO19RST902334	MRWH	E	PERMANENT		002	1 0.003	0.00	0.01	0.00143		·	25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902359	MRWH	E	PERMANENT		002	1 0.003	0.00	0.01	0.00143			25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902381	MRWH	E	PERMANENT	+	002	1 0.003		0.01	0.00143	+		343 Complete		IA, TP/TSS/TN Reduction	
	l	1 -		1 1	1	-1 1 0.00.	1 0.00	0.01	0.00175	ļ	0.00145	pictc	2010	,,,	

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HO19RST902383	MRWH	E	PERMANENT		.002	1 0.00		0.02	0.00143			43 Complete		A, TP/TSS/TN Reduction	
HO19RST902399	MRWH	E	PERMANENT		.002	1 0.00		0.01	0.00143			25 Complete		A, TP/TSS/TN Reduction	
HO19RST902402	MRWH	E	PERMANENT		.002	1 0.00		0.01	0.00143			25 Complete		A, TP/TSS/TN Reduction	
HO19RST902411	MRWH	E	PERMANENT		.002	1 0.00	0.00	0.02	0.00143			25 Complete		A, TP/TSS/TN Reduction	
HO19RST902428	MRWH	E	PERMANENT		.002	1 0.00		0.02	0.00143		0.00143 \$2			A, TP/TSS/TN Reduction	
HO19RST902432	MRWH	E	PERMANENT	1 0	.002	1 0.00	0.00	0.02	0.00143		0.00143 \$2	25 Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902414	MRWH	E	PERMANENT	1 0	.002	1 0.00	0.00	0.02	0.00143		0.00143 \$2	25 Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902325	MRWH	E	PERMANENT	1 0	.002	1 0.00	0.00	0.02	0.00143		0.00143 \$2	25 Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902400	MRWH	E	PERMANENT	1 0	.002	1 0.00	0.00	0.01	0.00143		0.00143 \$2	25 Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902436	MRWH	Е	PERMANENT	1 0	.002	1 0.00	0.00	0.02	0.00143		0.00143 \$2	25 Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902437	MRWH	F	PERMANENT		.002	1 0.00		0.00	0.00143			25 Complete		A, TP/TSS/TN Reduction	
HO19RST902179	MRWH	F	PERMANENT	1 0	.002	1 0.00		0.02	0.00143			0 Complete		A, TP/TSS/TN Reduction	
HO19RST902187	MRWH	E	PERMANENT		.002	1 0.00		0.02	0.00143			0 Complete		A, TP/TSS/TN Reduction	
HO19RST902190	MRWH	E	PERMANENT		.002	1 0.00		0.02	0.00143			0 Complete		A, TP/TSS/TN Reduction	
HO19RST902196	MRWH	E	PERMANENT		.002	1 0.00		0.02	0.00143			0 Complete		A, TP/TSS/TN Reduction	
HO19RST902190	MRWH	E	PERMANENT		.002	1 0.00		0.02	0.00143					A, TP/TSS/TN Reduction	
		F										0 Complete			
HO19RST902220	MRWH MRWH		PERMANENT PERMANENT		.002	1 0.00		0.02	0.00143			Complete		A, TP/TSS/TN Reduction	
HO19RST902181		E			.002	1 0.00	0.00	0.02	0.00143			Complete		A, TP/TSS/TN Reduction	
HO19RST902182	MRWH	E	PERMANENT		.002	1 0.00		0.02	0.00143			0 Complete		A, TP/TSS/TN Reduction	
HO19RST902183	MRWH	E	PERMANENT		.002	1 0.00		0.02	0.00143			0 Complete		A, TP/TSS/TN Reduction	
HO19RST902219	MRWH	E	PERMANENT		.002	1 0.00		0.02	0.00143			0 Complete		A, TP/TSS/TN Reduction	
HO19RST902174	MRWH	E	PERMANENT		.002	1 0.00		0.02	0.00143			0 Complete		A, TP/TSS/TN Reduction	
HO19RST902175	MRWH	E	PERMANENT		.002	1 0.00	0.00	0.02	0.00143			Complete		A, TP/TSS/TN Reduction	
HO19RST902199	MRWH	E	PERMANENT	1 0	.002	1 0.00	0.00	0.02	0.00143		0.001.0	Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902210	MRWH	Е	PERMANENT	1 0	.002	1 0.00	0.00	0.02	0.00143		0.00143	0 Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902211	MRWH	Е	PERMANENT	1 0	.002	1 0.00	0.00	0.02	0.00143			0 Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902212	MRWH	Е	PERMANENT	1 0	.002	1 0.00	1 0.00	0.02	0.00143		0.00143	0 Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902346	MRWH	Е	PERMANENT	1 0	.002	1 0.00	1 0.00	0.02	0.00143		0.00143	25 Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902376	MRWH	E	PERMANENT		.002	1 0.00		0.02	0.00143			25 Complete		A, TP/TSS/TN Reduction	
HO19RST902396	MRWH	E	PERMANENT		.002	1 0.00		0.02	0.00143			43 Complete		A, TP/TSS/TN Reduction	
HO19RST902415	MRWH	E	PERMANENT		.002	1 0.00		0.02	0.00143			25 Complete		A, TP/TSS/TN Reduction	
HO19RST902415	MRWH	F	PERMANENT		.002	1 0.00		0.02	0.00143			25 Complete		A, TP/TSS/TN Reduction	
HO19RST902169	MRWH	E	PERMANENT		.002	1 0.00		0.02	0.00143					A, TP/TSS/TN Reduction	
HO19RST902169	MRWH	_	PERMANENT		.002	1 0.00		0.02	0.00143					A. TP/TSS/TN Reduction	
		E												, ,,	
HO19RST902184	MRWH	E	PERMANENT		.002	1 0.00		0.02	0.00143			0 Complete		A, TP/TSS/TN Reduction	
HO19RST902207	MRWH	E	PERMANENT		.002	1 0.00		0.02	0.00143			Complete		A, TP/TSS/TN Reduction	
HO19RST902208	MRWH	E	PERMANENT		.002	1 0.00		0.02	0.00143			Complete		A, TP/TSS/TN Reduction	
HO19RST902317	MRWH	E	PERMANENT		.002	1 0.00		0.02	0.00143			25 Complete		A, TP/TSS/TN Reduction	
HO19RST902382	MRWH	E	PERMANENT		.002	1 0.00		0.01	0.00143			43 Complete		A, TP/TSS/TN Reduction	
HO19RST902401	MRWH	E	PERMANENT		.002	1 0.00		0.02	0.00143			25 Complete		A, TP/TSS/TN Reduction	
HO19RST902404	MRWH	E	PERMANENT		.002	1 0.00	0.00	0.02	0.00143		0.00143 \$2	25 Complete		A, TP/TSS/TN Reduction	
HO19RST902342	MRWH	E	PERMANENT	1 0	.002	1 0.00	0.00	0.02	0.00143		0.00143 \$2	25 Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902347	MRWH	E	PERMANENT	1 0	.002	1 0.00	0.00	0.01	0.00143		0.00143 \$2	25 Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902360	MRWH	E	PERMANENT	1 0	.002	1 0.00	0.00	0.01	0.00143		0.00143 \$2	25 Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902378	MRWH	Е	PERMANENT	1 0	.002	1 0.00	0.00	0.01	0.00143		0.00143 \$4	43 Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902403	MRWH	Е	PERMANENT		.002	1 0.00	1 0.00	0.02	0.00143			25 Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902198	MRWH	Е	PERMANENT		.002	1 0.00		0.02	0.00143			0 Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902200	MRWH	Е	PERMANENT		.002	1 0.00	1 0.00	0.02	0.00143			0 Complete		A, TP/TSS/TN Reduction	
HO19RST902203	MRWH	E	PERMANENT		.002	1 0.00		0.02	0.00143			0 Complete		A, TP/TSS/TN Reduction	
HO19RST902167	MRWH	E	PERMANENT		.002	1 0.00		0.02	0.00143			0 Complete		A, TP/TSS/TN Reduction	
HO19RST902168	MRWH	F	PERMANENT		.002	1 0.00		0.02	0.00143			0 Complete		A, TP/TSS/TN Reduction	
HO19RST902171	MRWH	E	PERMANENT		.002	1 0.00		0.02	0.00143			0 Complete		A, TP/TSS/TN Reduction	
HO19RST902171 HO19RST902172	MRWH	E	PERMANENT		.002	1 0.00		0.02	0.00143					A, TP/TSS/TN Reduction	
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HO19RST902176	MRWH	E	PERMANENT		.002	1 0.00		0.02	0.00143			Complete		A, TP/TSS/TN Reduction	
HO19RST902177	MRWH	E	PERMANENT		.002	1 0.00	1 0.00	0.02	0.00143		0.001.0	Complete		A, TP/TSS/TN Reduction	
HO19RST902178	MRWH	E	PERMANENT		.002	1 0.00	1 0.00	0.02	0.00143			Complete		A, TP/TSS/TN Reduction	
HO19RST902185	MRWH	E	PERMANENT		.002	1 0.00		0.02	0.00143			0 Complete		A, TP/TSS/TN Reduction	
HO19RST902189	MRWH	E	PERMANENT		.002	1 0.00		0.02	0.00143			0 Complete		A, TP/TSS/TN Reduction	
HO19RST902180	MRWH	E	PERMANENT		.002	1 0.00		0.02	0.00143			Complete		A, TP/TSS/TN Reduction	
HO19RST902255	MRWH	E	PERMANENT	1 0	.002	1 0.00	0.00	0.02	0.00143		0.00143	0 Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902257	MRWH	E	PERMANENT	1 0	.002	1 0.00	0.00	0.02	0.00143		0.00143	Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902282	MRWH	E	PERMANENT	1 0	.002	1 0.00	0.00	0.02	0.00143		0.00143	0 Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902247	MRWH	Е	PERMANENT	1 0	.002	1 0.00		0.02	0.00143		0.00143	0 Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902249	MRWH	E	PERMANENT		.002	1 0.00		0.02	0.00143			0 Complete		A, TP/TSS/TN Reduction	
HO19RST902251	MRWH	E	PERMANENT		.002	1 0.00		0.02	0.00143			0 Complete		A, TP/TSS/TN Reduction	
HO19RST902259	MRWH	E	PERMANENT	+	.002	1 0.00		0.02	0.00143			0 Complete		A, TP/TSS/TN Reduction	
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HO19RST902264	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902270	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902283	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902284	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902234	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143		0.00143	\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902235	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902237	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902240	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902243	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902246	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902253	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902260	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902287	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902241	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902248	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902250	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902254	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902263	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902265	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902267	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143	ļ		\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902272	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902277	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902280	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902285	MRWH	E	PERMANENT	1 0.00	_	0.001	0.00	0.02	0.00143		0.001.0	\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902352	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.01	0.00143			25 Complete		A, TP/TSS/TN Reduction	
HO19RST902412	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.01	0.00143			25 Complete		A, TP/TSS/TN Reduction	
HO19RST902421	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.01	0.00143			25 Complete		A, TP/TSS/TN Reduction	
HO19RST902429	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			25 Complete		A, TP/TSS/TN Reduction	
HO19RST902244	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902262	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902266	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.01	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902268	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902269	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143		2.2222.0	\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902258	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902261	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902242	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902191	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902193	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902195	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902188	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902202	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143		0.001.5	\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902209	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143		0.00143	\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902204	MRWH	E	PERMANENT	1 0.00	12	0.001	0.00	0.02	0.00143			\$0 Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902206	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902186	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902194	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902201	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143		0.00143	\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902238	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902166	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.01	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902214	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.01	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902215	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.01	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902216	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.01	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902218	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.01	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902222	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.01	0.00143			\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902227	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.01	0.00143		0.00143	\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902232	MRWH	E	PERMANENT	1 0.00	12	0.001	0.00	0.01	0.00143			\$0 Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902278	MRWH	E	PERMANENT	1 0.00	12	0.001	0.00	0.02	0.00143			\$0 Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902279	MRWH	E	PERMANENT	1 0.00		0.001	0.00	0.02	0.00143		0.00143	\$0 Complete		A, TP/TSS/TN Reduction	
HO19RST902281	MRWH	E	PERMANENT	1 0.00	12	0.001	0.00	0.02	0.00143		0.00143	\$0 Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902217	MRWH	E	PERMANENT	1 0.00	12	0.001	0.00	0.01	0.00143		0.00143	\$0 Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902221	MRWH	E	PERMANENT	1 0.00	12	0.001	0.00	0.01	0.00143		0.00143	\$0 Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902256	MRWH	E	PERMANENT	1 0.00	12	0.001	0.00	0.01	0.00143		0.00143	\$0 Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902276	MRWH	E	PERMANENT	1 0.00	12	0.001	0.00	0.01	0.00143	1	0.00143	\$0 Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902170	MRWH	E	PERMANENT	1 0.00	12	0.001	0.00	0.02	0.00143	1	0.00143	\$0 Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902192	MRWH	E	PERMANENT	1 0.00	12	0.001	0.00	0.02	0.00143	1	0.00143	\$0 Complete	2018	A, TP/TSS/TN Reduction	
HO19RST902197	MRWH	E	PERMANENT	1 0.00	12	0.001	0.00	0.02	0.00143		0.00143	\$0 Complete	2018	A, TP/TSS/TN Reduction	
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HO19RST902236	MRWH	E	PERMANENT		002	1 0.00		0.02	0.00143			\$0 Complete		IA, TP/TSS/TN Reduction	
HO19RST902245	MRWH	E	PERMANENT		002	1 0.00		0.02	0.00143			\$0 Complete		IA, TP/TSS/TN Reduction	
HO19RST902275	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			\$0 Complete		IA, TP/TSS/TN Reduction	
HO19RST902213	MRWH	E	PERMANENT	1 0.		1 0.00	0.00	0.01	0.00143		0.002.15	\$0 Complete		IA, TP/TSS/TN Reduction	
HO19RST902225	MRWH	E	PERMANENT	1 0.		1 0.00	0.00	0.01	0.00143		0.00143	\$0 Complete		IA, TP/TSS/TN Reduction	
HO19RST902288	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			\$0 Complete	+	IA, TP/TSS/TN Reduction	
HO19RST902289	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			\$0 Complete		IA, TP/TSS/TN Reduction	
HO19RST902290	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			\$0 Complete		IA, TP/TSS/TN Reduction	
HO19RST902291	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			\$0 Complete		IA, TP/TSS/TN Reduction	
HO19RST902292	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			\$0 Complete		IA, TP/TSS/TN Reduction	
HO19RST902239	MRWH	E	PERMANENT		002	1 0.00	0.00	0.02	0.00143			\$0 Complete		IA, TP/TSS/TN Reduction	
HO19RST902252	MRWH	E	PERMANENT		002	1 0.00	0.00	0.02	0.00143			\$0 Complete		IA, TP/TSS/TN Reduction	
HO19RST902271	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			\$0 Complete		IA, TP/TSS/TN Reduction	
HO19RST902273	MRWH	E	PERMANENT	1 0.		1 0.00	0.00	0.01	0.00143			\$0 Complete		IA, TP/TSS/TN Reduction	
HO19RST902274	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			\$0 Complete		IA, TP/TSS/TN Reduction	
HO19RST902226	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			\$0 Complete		IA, TP/TSS/TN Reduction	
HO19RST902228	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			\$0 Complete		IA, TP/TSS/TN Reduction	
HO19RST902229	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			\$0 Complete		IA, TP/TSS/TN Reduction	
HO19RST902230	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			\$0 Complete		IA, TP/TSS/TN Reduction	
HO19RST902231	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			\$0 Complete		IA, TP/TSS/TN Reduction	
HO19RST902286	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			\$0 Complete		IA, TP/TSS/TN Reduction	
HO19RST902224	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			\$0 Complete		IA, TP/TSS/TN Reduction	
HO19RST902165	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			\$0 Complete		IA, TP/TSS/TN Reduction	
HO19RST902223	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143		0.001.5	\$0 Complete		IA, TP/TSS/TN Reduction	
HO19RST902233	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			\$0 Complete		IA, TP/TSS/TN Reduction	
HO19RST902320	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902326	MRWH	E	PERMANENT		002	1 0.00	0.00	0.02	0.00143			25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902331	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902348	MRWH	E	PERMANENT		002	1 0.00	0.00	0.02	0.00143			25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902350	MRWH	E	PERMANENT		002	1 0.00	0.00	0.02	0.00143			25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902362	MRWH	E	PERMANENT		002	1 0.00	0.00	0.00	0.00143			25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902365	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902380	MRWH	E	PERMANENT	1 0.		1 0.00	0.00	0.01	0.00143			43 Complete		IA, TP/TSS/TN Reduction	
HO19RST902387	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			25 Complete	2019	IA, TP/TSS/TN Reduction	
HO19RST902416	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902316	MRWH	E	PERMANENT		002	1 0.00	0.00	0.02	0.00143			43 Complete		IA, TP/TSS/TN Reduction	
HO19RST902319	MRWH	E	PERMANENT		002	1 0.00	0.00	0.02	0.00143			43 Complete	2019	IA, TP/TSS/TN Reduction	
HO19RST902321	MRWH	E	PERMANENT		002	1 0.00	0.00	0.02	0.00143			43 Complete	2019	IA, TP/TSS/TN Reduction	
HO19RST902324	MRWH	E	PERMANENT		002	1 0.00	0.00	0.02	0.00143			43 Complete		IA, TP/TSS/TN Reduction	
HO19RST902327	MRWH	E	PERMANENT		002	1 0.00	0.00	0.02	0.00143			43 Complete		IA, TP/TSS/TN Reduction	
HO19RST902328	MRWH	E	PERMANENT		002	1 0.00	0.00	0.02	0.00143			43 Complete		IA, TP/TSS/TN Reduction	
HO19RST902337	MRWH	E	PERMANENT	1 0.		1 0.00	0.00	0.00	0.00143			43 Complete		IA, TP/TSS/TN Reduction	
HO19RST902338	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			43 Complete		IA, TP/TSS/TN Reduction	
HO19RST902341	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			43 Complete		IA, TP/TSS/TN Reduction	
HO19RST902344	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			43 Complete		IA, TP/TSS/TN Reduction	
HO19RST902349	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			43 Complete		IA, TP/TSS/TN Reduction	
HO19RST902354	MRWH	E	PERMANENT		002	1 0.00	0.00	0.02	0.00143			43 Complete		IA, TP/TSS/TN Reduction	
HO19RST902357	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			43 Complete		IA, TP/TSS/TN Reduction	
HO19RST902358	MRWH	E	PERMANENT		002	1 0.00	0.00	0.02	0.00143			43 Complete		IA, TP/TSS/TN Reduction	
HO19RST902363	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			43 Complete		IA, TP/TSS/TN Reduction	
HO19RST902366	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			43 Complete		IA, TP/TSS/TN Reduction	
HO19RST902367	MRWH	E	PERMANENT	1 0.		1 0.00	0.00	0.02	0.00143			43 Complete		IA, TP/TSS/TN Reduction	
HO19RST902368	MRWH	E	PERMANENT		002	1 0.00	0.00	0.01	0.00143			43 Complete		IA, TP/TSS/TN Reduction	
HO19RST902371	MRWH	E	PERMANENT	1 0.		1 0.00	0.00	0.02	0.00143			43 Complete		IA, TP/TSS/TN Reduction	
HO19RST902372	MRWH	E	PERMANENT		002	1 0.00	0.00	0.02	0.00143			43 Complete		IA, TP/TSS/TN Reduction	
HO19RST902373	MRWH	E	PERMANENT	1 0.	002	1 0.00	0.00	0.01	0.00143		0.00143 \$4	43 Complete	2019	IA, TP/TSS/TN Reduction	
HO19RST902374	MRWH	E	PERMANENT	1 0.	002	1 0.00	0.00	0.02	0.00143			43 Complete	2019	IA, TP/TSS/TN Reduction	
HO19RST902377	MRWH	E	PERMANENT		002	1 0.00	0.00	0.02	0.00143			43 Complete		IA, TP/TSS/TN Reduction	
HO19RST902379	MRWH	E	PERMANENT	1 0.	002	1 0.00	0.00	0.01	0.00143			43 Complete	2019	IA, TP/TSS/TN Reduction	
HO19RST902386	MRWH	E	PERMANENT	1 0.	002	1 0.00	0.00	0.02	0.00143		0.00143 \$4	43 Complete	2019	IA, TP/TSS/TN Reduction	
HO19RST902389	MRWH	E	PERMANENT	1 0.	002	1 0.00	0.00	0.02	0.00143		0.00143 \$4	43 Complete	2019	IA, TP/TSS/TN Reduction	
HO19RST902390	MRWH	E	PERMANENT	1 0.	002	1 0.00	0.00	0.02	0.00143		0.00143 \$4	43 Complete	2019	IA, TP/TSS/TN Reduction	
HO19RST902391	MRWH	E	PERMANENT	1 0.	002	1 0.00	0.00	0.02	0.00143		0.00143 \$4	43 Complete	2019	IA, TP/TSS/TN Reduction	
HO19RST902392	MRWH	E	PERMANENT	1 0.	002	1 0.00	0.00	0.02	0.00143		0.00143 \$4	43 Complete	2019	IA, TP/TSS/TN Reduction	
HO19RST902393	MRWH	E	PERMANENT	1 0.	002	1 0.00	0.00	0.02	0.00143		0.00143 \$4	43 Complete	2019	IA, TP/TSS/TN Reduction	
HO19RST902394	MRWH	E	PERMANENT	1 0.	002	1 0.00	0.00	0.02	0.00143		0.00143 \$4	43 Complete	2019	IA, TP/TSS/TN Reduction	
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HO19RST902397	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.02	0.00143	0.00143	\$43 Complete		IA, TP/TSS/TN Reduction	
HO19RST902405	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.02	0.00143	0.00143	\$43 Complete		IA, TP/TSS/TN Reduction	
HO19RST902413	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.01	0.00143	0.00143	\$43 Complete		IA, TP/TSS/TN Reduction	
HO19RST902422	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.02	0.00143	0.00143	\$43 Complete		IA, TP/TSS/TN Reduction	
HO19RST902424	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.02	0.00143	0.00143	\$43 Complete		IA, TP/TSS/TN Reduction	
HO19RST902427	MRWH	E	PERMANENT	1 0.002	2 1	0.001	0.00	0.02	0.00143	0.00143	\$43 Complete	2019	IA, TP/TSS/TN Reduction	
HO19RST902430	MRWH	E	PERMANENT	1 0.002	2 1	0.001	0.00	0.02	0.00143	0.00143	\$43 Complete	2019	IA, TP/TSS/TN Reduction	
HO19RST902431	MRWH	E	PERMANENT	1 0.002	2 1	0.001	0.00	0.02	0.00143	0.00143	\$43 Complete	2019	IA, TP/TSS/TN Reduction	
HO19RST902439	MRWH	E	PERMANENT	1 0.002	2 1	0.001	0.00	0.02	0.00143	0.00143	\$43 Complete	2019	IA, TP/TSS/TN Reduction	
HO19RST902335	MRWH	E	PERMANENT	1 0.002	2 1	0.001	0.00	0.00	0.00143	0.00143	\$25 Complete	2019	IA, TP/TSS/TN Reduction	
HO19RST902353	MRWH	F	PERMANENT	1 0.002		0.001	0.00	0.02	0.00143	0.00143	\$25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902329	MRWH	F	PERMANENT	1 0.002	2 1	0.001	0.00	0.01	0.00143	0.00143	\$25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902340	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.00	0.00143	0.00143	\$25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902343	MRWH	F	PERMANENT	1 0.002		0.001	0.00	0.02	0.00143	0.00143	\$25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902351	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.02	0.00143	0.00143	\$25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902370	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.02	0.00143	0.00143			IA, TP/TSS/TN Reduction	
	MRWH	F	PERMANENT	1 0.002									IA, TP/TSS/TN Reduction	
HO19RST902375	MRWH		PERMANENT			0.001	0.00	0.01	0.00143	0.00143	\$25 Complete			
HO19RST902388		E		1 0.002		0.001	0.00	0.02	0.00143	0.00143	\$43 Complete		IA, TP/TSS/TN Reduction	
HO19RST902395	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.01	0.00143	0.00143	\$43 Complete		IA, TP/TSS/TN Reduction	
HO19RST902407	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.02	0.00143	0.00143	\$25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902408	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.02	0.00143	0.00143	\$25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902417	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.01	0.00143	0.00143	\$25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902419	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.02	0.00143	0.00143	\$25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902426	MRWH	E	PERMANENT	1 0.002	2 1	0.001	0.00	0.02	0.00143	0.00143	\$25 Complete	2019	IA, TP/TSS/TN Reduction	
HO19RST902433	MRWH	E	PERMANENT	1 0.002	2 1	0.001	0.00	0.02	0.00143	0.00143	\$25 Complete	2019	IA, TP/TSS/TN Reduction	
HO19RST902323	MRWH	E	PERMANENT	1 0.002	2 1	0.001	0.00	0.02	0.00143	0.00143	\$25 Complete	2019	IA, TP/TSS/TN Reduction	
HO19RST902336	MRWH	Е	PERMANENT	1 0.002	2 1	0.001	0.00	0.01	0.00143	0.00143	\$25 Complete	2019	IA, TP/TSS/TN Reduction	
HO19RST902339	MRWH	Е	PERMANENT	1 0.002	2 1	0.001	0.00	0.02	0.00143	0.00143	\$25 Complete	2019	IA, TP/TSS/TN Reduction	
HO19RST902355	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.02	0.00143	0.00143	\$25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902361	MRWH	F	PERMANENT	1 0.002		0.001	0.00	0.00	0.00143	0.00143	\$25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902364	MRWH	F	PERMANENT	1 0.002		0.001	0.00	0.00	0.00143	0.00143	\$25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902369	MRWH	F	PERMANENT	1 0.002		0.001	0.00	0.00	0.00143	0.00143	\$25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902384	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.02	0.00143	0.00143			IA, TP/TSS/TN Reduction	
HO19RST902384	MRWH		PERMANENT	1 0.002		0.001	0.00	0.02	0.00143	0.00143			IA. TP/TSS/TN Reduction	
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HO19RST902423	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.02	0.00143	0.00143	\$25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902434	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.02	0.00143	0.00143	\$25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902438	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.02	0.00143	0.00143	\$25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902330	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.00	0.00143	0.00143	\$25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902333	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.01	0.00143	0.00143	\$25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902345	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.02	0.00143	0.00143	\$25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902356	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.01	0.00143	0.00143	\$25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902385	MRWH	E	PERMANENT	1 0.002	2 1	0.001	0.00	0.01	0.00143	0.00143	\$43 Complete	2019	IA, TP/TSS/TN Reduction	
HO19RST902398	MRWH	E	PERMANENT	1 0.002	2 1	0.001	0.00	0.01	0.00143	0.00143	\$25 Complete	2019	IA, TP/TSS/TN Reduction	
HO19RST902406	MRWH	E	PERMANENT	1 0.002	2 1	0.001	0.00	0.02	0.00143	0.00143	\$25 Complete	2019	IA, TP/TSS/TN Reduction	
HO19RST902409	MRWH	E	PERMANENT	1 0.002	2 1	0.001	0.00	0.02	0.00143	0.00143	\$25 Complete	2019	IA, TP/TSS/TN Reduction	
HO19RST902410	MRWH	E	PERMANENT	1 0.002	2 1	0.001	0.00	0.02	0.00143	0.00143	\$25 Complete	2019	IA, TP/TSS/TN Reduction	
HO19RST902420	MRWH	Е	PERMANENT	1 0.002		0.001	0.00	0.02	0.00143	0.00143	\$25 Complete	2019	IA, TP/TSS/TN Reduction	
HO19RST902425	MRWH	Е	PERMANENT	1 0.002		0.001	0.00	0.01	0.00143	0.00143	\$25 Complete		IA, TP/TSS/TN Reduction	
HO19RST902709	MRWH	E	PERMANENT	1 0.002	2 1	0.001	0.00	0.02	0.00143	0.00143	\$300 Complete	2019	IA, TP/TSS/TN Reduction	
HO20RST109755	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.02	0.00143	0.00143	\$0 Complete		IA, TP/TSS/TN Reduction	
HO20RST109733	MRWH	F	PERMANENT	1 0.002		0.001	0.00	0.02	0.00143	0.00143	\$115 Complete		IA, TP/TSS/TN Reduction	
HO20RST109829	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.01	0.00143	0.00143	\$115 Complete		IA, TP/TSS/TN Reduction	
HO20RST109829	MRWH	F	PERMANENT	1 0.002		0.001	0.00	0.02	0.00143		\$115 Complete		IA, TP/TSS/TN Reduction	
HO20RST109830 HO20RST109831	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.01	0.00143				IA, TP/TSS/TN Reduction IA, TP/TSS/TN Reduction	
HO20RST109832	MRWH	E	PERMANENT	1 0.002	_	0.001	0.00	0.01	0.00143	0.00143	\$115 Complete		IA, TP/TSS/TN Reduction	
HO20RST109833	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.01	0.00143	0.00143	\$115 Complete		IA, TP/TSS/TN Reduction	
HO20RST109834	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.02	0.00143		\$115 Complete		IA, TP/TSS/TN Reduction	
HO20RST109835	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.02	0.00143		\$115 Complete		IA, TP/TSS/TN Reduction	
HO20RST109836	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.01	0.00143		\$115 Complete		IA, TP/TSS/TN Reduction	
HO20RST109837	MRWH	E	PERMANENT	1 0.002	2 1	0.001	0.00	0.02	0.00143	0.00143	\$115 Complete	2019	IA, TP/TSS/TN Reduction	
HO20RST902711	MRWH	E	PERMANENT	1 0.002	2 1	0.001	0.00	0.02	0.00143	0.00143	\$314 Complete	2019	IA, TP/TSS/TN Reduction	
HO20RST109838	MRWH	E	PERMANENT	1 0.002	2 1	0.001	0.00	0.02	0.00143	0.00143	\$115 Complete	2019	IA, TP/TSS/TN Reduction	
HO20RST109839	MRWH	Е	PERMANENT	1 0.002	2 1	0.001	0.00	0.02	0.00143		\$115 Complete	2019	IA, TP/TSS/TN Reduction	
HO20RST109840	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.02	0.00143		\$115 Complete		IA, TP/TSS/TN Reduction	
HO20RST109841	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.02	0.00143	0.00143	\$115 Complete		IA, TP/TSS/TN Reduction	
HO20RST109842	MRWH	E	PERMANENT	1 0.002		0.001	0.00	0.02	0.00143	0.00143	\$115 Complete		IA, TP/TSS/TN Reduction	
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HO20RST109843	MRWH	Е	PERMANENT	1	0.002	1	0.001	0.00	0.01	0.00143	0.00143	Ć11	5 Complete	2010	IA, TP/TSS/TN Reduction	T
HO20RST109843	MRWH	E E	PERMANENT	1	0.002	1	0.001	0.00	0.01	0.00143	0.00143		5 Complete		IA, TP/TSS/TN Reduction	
HO20RST109845	MRWH	E	PERMANENT	1	0.002	1	0.001	0.00	0.02	0.00143	0.00143		5 Complete		IA, TP/TSS/TN Reduction	<del>                                     </del>
HO20RST109846	MRWH	E	PERMANENT	1	0.002	1	0.001	0.00	0.01	0.00143	0.00143	\$11			IA, TP/TSS/TN Reduction	
HO20RST109847	MRWH	E	PERMANENT	1	0.002	1	0.001	0.00	0.01	0.00143	0.00143	\$11			IA, TP/TSS/TN Reduction	
HO20RST109848	MRWH	E	PERMANENT	1	0.002	1	0.001	0.00	0.01	0.00143	0.00143		5 Complete		IA, TP/TSS/TN Reduction	
HO20RST109849	MRWH	E	PERMANENT	1	0.002	1	0.001	0.00	0.01	0.00143	0.00143	\$11	5 Complete	2019	IA, TP/TSS/TN Reduction	
HO20RST109850	MRWH	E	PERMANENT	1	0.002	1	0.001	0.00	0.01	0.00143	0.00143	\$11	5 Complete	2019	IA, TP/TSS/TN Reduction	
HO20RST109851	MRWH	E	PERMANENT	1	0.002	1	0.001	0.00	0.01	0.00143	0.00143	\$11	5 Complete	2019	IA, TP/TSS/TN Reduction	
HO20RST109852	MRWH	E	PERMANENT	1	0.002	1	0.001	0.00	0.01	0.00143	0.00143	\$11	5 Complete	2019	IA, TP/TSS/TN Reduction	
HO20RST109853	MRWH	E	PERMANENT	1	0.002	1	0.001	0.00	0.02	0.00143	0.00143		5 Complete		IA, TP/TSS/TN Reduction	
HO20RST109854	MRWH	E	PERMANENT	1	0.002	1	0.001	0.00	0.02	0.00143	0.00143		5 Complete		IA, TP/TSS/TN Reduction	
HO20RST109855	MRWH	E	PERMANENT	1	0.002	1	0.001	0.00	0.01	0.00143	0.00143	\$11			IA, TP/TSS/TN Reduction	
HO20RST109856	MRWH	E	PERMANENT	1	0.002	1	0.001	0.00	0.02	0.00143	0.00143	\$11			IA, TP/TSS/TN Reduction	
HO20RST109857	MRWH	E	PERMANENT	1	0.002	1	0.001	0.00	0.00	0.00143	0.00143	\$11			IA, TP/TSS/TN Reduction	
HO20RST109858	MRWH	E	PERMANENT	1	0.002	1	0.001	0.00	0.02	0.00143	0.00143		5 Complete		IA, TP/TSS/TN Reduction	
HO20RST109859	MRWH	E	PERMANENT	1	0.002	1	0.001	0.00	0.01	0.00143	0.00143		5 Complete		IA, TP/TSS/TN Reduction	
HO20RST109860	MRWH	E	PERMANENT	1	0.002	1	0.001	0.00	0.02	0.00143	0.00143	\$11			IA, TP/TSS/TN Reduction	
HO20RST109861	MRWH	E	PERMANENT	1	0.002	1	0.001	0.00	0.02	0.00143	0.00143	\$11			IA, TP/TSS/TN Reduction	
HO20RST109862	MRWH	E	PERMANENT	1	0.002	1	0.001	0.00	0.01	0.00143	0.00143	\$11			IA, TP/TSS/TN Reduction	This is a section to a section of the second of
C0337 ELLICOTT CITY		1	1				0.00	0.00	0.00	0.00	0.00	\$14,599,60	Complete		Flood control, flood damage repair, public	This is a project to provide a variety of repairs
IMPROVEMENTS and ENHANCEMENTS															education and outreach, historic preservation	and improvements to public infrastructure and address other community improvements and to make improvements to the downtown and historic district of the Howard County Seat.
C0337 ELLICOTT CITY IMPROVEMENTS and ENHANCEMENTS							0.00	0.00	0.00	0.00	0.00	\$13,911,65	6 Complete		Flood control, flood damage repair, public education and outreach, historic preservation	This is a project to provide a variety of repairs and improvements to public infrastructure and address other community improvements and to make improvements to the downtown and historic district of the Howard County Seat.
CO337 ELLICOTT CITY IMPROVEMENTS and ENHANCEMENTS							0.00	0.00	0.00	0.00	0.00	\$22,545,67	0 Under Construction		Flood control, flood damage repair, public education and outreach, historic preservation	This is a project to provide a variety of repairs and improvements to public infrastructure and address other community improvements and to make improvements to the downtown and historic district of the Howard County Seat.
C0337 ELLICOTT CITY IMPROVEMENTS and ENHANCEMENTS							0.00	0.00	0.00	0.00	0.00	\$80,150,75	3 Design		Flood control, flood damage repair, public education and outreach, historic preservation	This is a project to provide a variety of repairs and improvements to public infrastructure and address other community improvements and to make improvements to the downtown and historic district of the Howard County Seat.
C0337 ELLICOTT CITY IMPROVEMENTS and ENHANCEMENTS							0.00	0.00	0.00	0.00	0.00	\$18,530,00	0 Planning		Flood control, flood damage repair, public education and outreach, historic preservation	This is a project to provide a variety of repairs and improvements to public infrastructure and address other community improvements and to make improvements to the downtown and historic district of the Howard County Seat.
C0337 ELLICOTT CITY IMPROVEMENTS and ENHANCEMENTS							0.00	0.00	0.00	0.00	0.00	\$10,000,00	0 Planning		Flood control, flood damage repair, public education and outreach, historic preservation	This is a project to provide a variety of repairs and improvements to public infrastructure and address other community improvements and to make improvements to the downtown and historic district of the Howard County Seat.
D1124 Drainage Improvement Program							0.00	0.00	0.00	0.00	0.00	\$550,00	0 Design	2022	Drainage improvement	A project for the design and construction of small to medium-sized drainage improvements requested by County residents and the Bureau of Highways.

01124 Drainage Improvement Program				0.00	0.00	0.00	0.00	0.00	\$250,000	Planning	2024	Drainage improvement	A project for the design and construction of small to medium-sized drainage improvements requested by County residents and the Bureau of Highways.
1124 Drainage Improvement ogram				0.00	0.00	0.00	0.00	0.00	\$550,000	Planning	2026	Drainage improvement	A project for the design and construction of small to medium-sized drainage improvements requested by County residents and the Bureau of Highways.
-1158 WATERSHED  MANAGEMENT  ONSTRUCTION				0.00	0.00	0.00	0.00	0.00	\$118,737	Complete		post-flood stream assessments, CLOMR reviews public outreach and education, MS4 credit calculations	This project is for design and construction of stormwater facility improvements. The project will include NPDES stormwater management implementation equirements, floodplain studies, including retrofitting of stormwater management ponds, restoration and certification of detention basins, continued improvement of flood alert systems, streambank restoration including bio-engineering, water quality devices (such as wetlands), storm drainage and storm drain outfall stabilization, channel restoration and water quality monitoring studies.
158 WATERSHED NAGEMENT NSTRUCTION				0.00	0.00	0.00	0.00	0.00	\$1,177,938	Complete		CBT Grant Monitoring, mitigation monitoring, drainage studies and improvements, stream inspections, elevation certificates, public outreach and education, FEMA map revisions, on-site GIS support services, mylar preparation and housekeeping	This project is for design and construction of stormwater facility improvements. The project will include NPDES stormwater management implementation equirements, floodplain studies, including retrofitting of stormwater management ponds, restoration and certification of detention basins, continued improvement of flood alert systems, streambank restoration including bio-engineering, water quality devices (such as wetlands), storm drainage and storm drain outfall stabilization, channel restoration and water quality monitoring studies.
-1158 WATERSHED ANAGEMENT ONSTRUCTION				0.00	0.00	0.00	0.00	0.00	\$158,503	Complete		CBT Grant Monitoring, mitigation monitoring, drainage studies and improvements, stream inspections, mylar preparation and housekeeping, debris removal from streams	This project is for design and construction of stormwater facility improvements. The project will include NPDES stormwater management implementation equirements, floodplain studies, including retrofitting of stormwater management ponds, restoration and certification of detention basins, continued improvement of flood alert systems, streambank restoration including bio-engineering, water quality devices (such as wetlands), storm drainage and storm drain outfall stabilization, channel restoration and water quality monitoring studies.

D-1158 WATERSHED MANAGEMENT CONSTRUCTION				0.00	0.00	D)	0.00	0.00		0.00	\$199,061	Under Construction	2021	stream inspections, FEMA map revisions, on-sit GIS support	stormwater facility improvements. The project will include NPDES stormwater management implementation equirements, floodplain studies, including retrofitting of stormwater management ponds, restoration and certification of detention basins,
															continued improvement of flood alert systems, streambank restoration including bio-engineering, water quality devices (such as wetlands), storm drainage and storm drain outfall stabilization, channel restoration and water quality monitoring studies.
D-1159 STORMWATER MANAGEMENT FACILITY RECONSTRUCTION				0.00	0.00	D	0.00	0.00		0.00	\$701,228	Complete	2018	Centennial Lake maintenance, post-folld pond repair (Ellicott Woods)	A fund for Howard County to undertake construction or repairs to stormwater management on an as-needed basis meeting the provisions of the County Code. This program is envisioned to provide rapid assistance in emergency situations.
D-1159 STORMWATER MANAGEMENT FACILITY RECONSTRUCTION				0.00	0.00	b	0.00	0.00		0.00	\$1,934,187	Complete	2019	pond repairs, post-storm clean up	A fund for Howard County to undertake construction or repairs to stormwater management on an as-needed basis meeting the provisions of the County Code. This program is envisioned to provide rapid assistance in emergency situations.
D-1159 STORMWATER MANAGEMENT FACILITY RECONSTRUCTION				0.00	0.00	b	0.00	0.00		0.00	\$1,864,093	Complete	2020	pond repairs	A fund for Howard County to undertake construction or repairs to stormwater management on an as-needed basis meeting the provisions of the County Code. This program is envisioned to provide rapid assistance in emergency situations.
D-1159 STORMWATER MANAGEMENT FACILITY RECONSTRUCTION				0.00	0.00	o o	0.00	0.00		0.00	\$85,149	Under Construction	2021	pond repairs	A fund for Howard County to undertake construction or repairs to stormwater management on an as-needed basis meeting the provisions of the County Code. This program is envisioned to provide rapid assistance in emergency situations.
D1160 STORMWATER MANAGEMENT RETROFITS				0.00	0.00	)	0.00	0.00		0.00	\$32,207	Complete	2018	pond repairs, public outreach and education	A project for the retrofit of stormwater management facilities to include water quality management.
D1160 STORMWATER MANAGEMENT RETROFITS				0.00	0.00		0.00	0.00		0.00	\$66,280	Complete	2019	public outreach and education, CMAC study	A project for the retrofit of stormwater management facilities to include water quality management.
D1160 STORMWATER MANAGEMENT RETROFITS				0.00	0.00	)	0.00	0.00		0.00	\$367,000	Under Construction	2021	pond repairs	A project for the retrofit of stormwater management facilities to include water quality management.
D1161 SHAFFERSVILLE ROAD CULVERT REPLACEMENT				0.00	0.00	D	0.00	0.00		0.00	\$900,000	Planning	2025	replace existing culverts	A project to replace the existing culverts on Shaffersville Road (between Florence Road and Shaffers Mill Road) and on Shaffers Mill Road between Shaffersville Road and Florence Road.
D-1165 Ellicott City Flood Mitigation & Stormwater Enhancements				0.00	0.00		0.00	0.00		0.00	\$1,021,549	Complete	2018	drainage and culvert improvements, post-storn H&H studies, flood repair support	n Ellicott City Flood Mitigation & Stormwater Enhancements

			,	,												
D-1165 Ellicott City Flood						0.00	0.00	0.00	0.00		0.00	\$5,305,915	Complete		drainage and culvert improvements, wall	Ellicott City Flood Mitigation & Stormwater
Mitigation & Stormwater Enhancements															repairs, debris removal, USACE peer review,	Enhancements
Enhancements															property acquisitions for floodplain preservation	
															and hazard mitigation, permitting support,	
															retrofit studies, New Cut Road repair	
D-1165 Ellicott City Flood						0.00	0.00	0.00	0.00		0.00	\$5,317,776	Complete	2020	debris removal, drainage improvement, New Cut	Ellicott City Flood Mitigation & Stormwater
Mitigation & Stormwater													·		Road repair	Enhancements
Enhancements															·	
D-1165 Ellicott City Flood						0.00	0.00	0.00	0.00		0.00	\$1,657,000	Under	2021	property acquisitions for floodplain preservation	Ellicott City Flood Mitigation & Stormwater
Mitigation & Stormwater													Construction		and hazard mitigation, drainage improvement	Enhancements
Enhancements																
D-1165 Ellicott City Flood						0.00	0.00	0.00	0.00		0.00	\$100,000	Planning	2022	drainage improvement support	Ellicott City Flood Mitigation & Stormwater
Mitigation & Stormwater																Enhancements
Enhancements																
D1168 MORGAN WOODBINE						0.00	0.00	0.00	0.00		0.00	\$225,000	Complete	2019	stabilization of the roadway embankment	A project to design and construct stabilization
ROAD SLOPE STABILIZATION																of the- roadway embankment of Morgan
																Woodbine Road adjacent to the South Branch
																of the Patapsco River.
D1168 MORGAN WOODBINE						0.00	0.00	0.00	0.00		0.00	\$700,000	Planning	2027	stabilization of the roadway embankment	A project to design and construct stabilization
ROAD SLOPE STABILIZATION																of the- roadway embankment of Morgan
																Woodbine Road adjacent to the South Branch
																of the Patapsco River.
244626702442244						0.00		0.00			2.00	40.050.000		2024		
D1169 STORM DRAIN						0.00	0.00	0.00	0.00		0.00	\$2,250,000	Complete	2021	repairs	This program will provide for the repair and
CULVERT REPLACEMENT PROGRAM																replacement of failed storm drain pipes and
D1169 STORM DRAIN		+				0.00	0.00	0.00	0.00		0.00	¢2.250.000	Design	2022		culverts.
CULVERT REPLACEMENT						0.00	0.00	0.00	0.00		0.00	\$2,250,000	Design	2022	repairs	This program will provide for the repair and
PROGRAM																replacement of failed storm drain pipes and culverts.
D1169 STORM DRAIN		+	1			0.00	0.00	0.00	0.00		0.00	\$2,250,000	Dlanning	2022	repairs	This program will provide for the repair and
CULVERT REPLACEMENT						0.00	0.00	0.00	0.00		0.00	\$2,230,000	riaiiiiiig	2023	repairs	replacement of failed storm drain pipes and
PROGRAM																culverts.
D1169 STORM DRAIN		+	1		1	0.00	0.00	0.00	0.00		0.00	\$2,250,000	Planning	2024	repairs	This program will provide for the repair and
CULVERT REPLACEMENT						0.00	0.00	0.00	0.00		0.00	72,230,000	i idiiiiig	2024	repuils	replacement of failed storm drain pipes and
PROGRAM																culverts.
D1169 STORM DRAIN		1			1	0.00	0.00	0.00	0.00		0.00	\$2,100,000	Planning	2025	repairs	This program will provide for the repair and
CULVERT REPLACEMENT												+=,===,===				replacement of failed storm drain pipes and
PROGRAM																culverts.
D1169 STORM DRAIN						0.00	0.00	0.00	0.00		0.00	\$2,350,000	Planning	2026	repairs	This program will provide for the repair and
CULVERT REPLACEMENT													-		•	replacement of failed storm drain pipes and
PROGRAM																culverts.
D1169 STORM DRAIN						0.00	0.00	0.00	0.00		0.00	\$2,300,000	Planning	2027	repairs	This program will provide for the repair and
CULVERT REPLACEMENT																replacement of failed storm drain pipes and
PROGRAM																culverts.
D1175 VALLEY			1			 0.00	0.00	0.00	0.00		0.00	\$1,517,203	Complete		drainage improvement, flood mitigation,	This project is for the study, design and
MEDE/CHATHAM FLOOD																construction of flood mitigation and
MITIGATION															public safety, and hazard mitigation	stormwater waterway improvement efforts
																in the Valley Mede and Chatham
																subwatersheds.
D1175 VALLEY						0.00	0.00	0.00	0.00		0.00	\$1,343,844	Complete		drainage improvement, flood mitigation,	This project is for the study, design and
MEDE/CHATHAM FLOOD																construction of flood mitigation and
MITIGATION															public safety, and hazard mitigation	stormwater waterway improvement efforts
																in the Valley Mede and Chatham
24475141151		1	<del>                                     </del>	ļ								A4				subwatersheds.
D1175 VALLEY			1	1		0.00	0.00	0.00	0.00		0.00	\$1,494,792			drainage improvement, flood mitigation,	This project is for the study, design and
MEDE/CHATHAM FLOOD													Construction			construction of flood mitigation and
MITIGATION															public safety, and hazard mitigation	stormwater waterway improvement efforts
																in the Valley Mede and Chatham
DAATE VALLEY		+	+	-	1	2.22		2.5	2.22		2.00	A2 222 5	Design	202-	destruction of the second	subwatersheds.
D1175 VALLEY			1	1		0.00	0.00	0.00	0.00		0.00	\$2,200,000	Design	2022	drainage improvement, flood mitigation	This project is for the study, design and
MEDE/CHATHAM FLOOD MITIGATION			1	1												construction of flood mitigation and
IVITTIGATION																stormwater waterway improvement efforts
			1	1		]										in the Valley Mede and Chatham
	l	1	I	1	1 l	ı I				I	1 1					subwatersheds.

D1175 VALLEY	1					0.00	0.00	0.00	1 00		1 0 00	£2 200 00	olpi	2022	Idada da da da da da da da da da da da da	This posters is for the standard action and
J11/5 VALLEY MEDE/CHATHAM FLOOD MITIGATION						0.00	0.00	0.00	0.0	U	0.00	\$3,200,00	U Design	2023	drainage improvement, flood mitigation	This project is for the study, design and construction of flood mitigation and stormwater waterway improvement efforts in the Valley Mede and Chatham
D1176-WATERSHED		-				0.00	0.00	0.00	0.0	n	0.00	\$162.22	3 Complete	2020	on-site consultant support	subwatersheds.  This project is for design and construction of
MANAGEMENT						0.00	0.00	0.00	0.0		0.00	Ş102,23	Complete	2020	on-site consultant support	stormwater facility improvements.
CONSTRUCTION																stormater identy improvements.
D1176-WATERSHED						0.00	0.00	0.00	0.0	0	0.00	\$865,00	9 Under	2021	on-site consultant support, drainage	This project is for design and construction of
MANAGEMENT													Construction		improvement, utility relocations, elevation	stormwater facility improvements.
CONSTRUCTION															certificates, public outreach and education,	
															stream monitoring, woody debris removal	
D1176-WATERSHED						0.00	0.00	0.00	0.0	0	0.00	\$300,00	0 Design	2022	on-site consultant support, stream monitoring,	This project is for design and construction of
MANAGEMENT															woody debris removal	stormwater facility improvements.
CONSTRUCTION																
D1176-WATERSHED						0.00	0.00	0.00	0.0	D	0.00	\$1,200,00	0 Planning	2026	various restoration, maintenance, repair	
MANAGEMENT CONSTRUCTION															projects	
D1176-WATERSHED						0.00	0.00	0.00	0.0	n	0.00	\$1,200,00	OBlanning	2027	various restoration, maintenance, repair	
MANAGEMENT						0.00	0.00	0.00	0.0		0.00	\$1,200,00	o Fidililling	2027	projects	
CONSTRUCTION															projects	
D1176-WATERSHED		1			-	0.00	0.00	0.00	0.0	0	0.00	\$1,200,00	0 Planning	2028	various restoration, maintenance, repair	
MANAGEMENT												, , , , ,			projects	
CONSTRUCTION															, ,	
D1177-STORMWATER						0.00	0.00	0.00	0.0	0	0.00	\$155,91	9 Complete	2020	pond repairs	A fund for Howard County to undertake
MANAGEMENT FACILITY																construction or repairs to stormwater
RECONSTRUCTION																management on an as needed basis meeting
																the provisions of the County Code.
24477 67024 444477											0.00	4000 44		2004		16 16 11 12 12 1
D1177-STORMWATER MANAGEMENT FACILITY						0.00	0.00	0.00	0.0	U	0.00	\$929,44	Construction	2021	pond repairs	A fund for Howard County to undertake construction or repairs to stormwater
RECONSTRUCTION													Construction			management on an as needed basis meeting
RECONSTRUCTION																the provisions of the County Code.
																the provisions of the county code.
D1177-STORMWATER						0.00	0.00	0.00	0.0	0	0.00	\$6,400,00	0 Design	2022	pond repairs	A fund for Howard County to undertake
MANAGEMENT FACILITY													_			construction or repairs to stormwater
RECONSTRUCTION																management on an as needed basis meeting
																the provisions of the County Code.
													1			
D1177-STORMWATER						0.00	0.00	0.00	0.0	0	0.00	\$1,700,00	0 Planning	2023	pond repairs	A fund for Howard County to undertake
MANAGEMENT FACILITY																construction or repairs to stormwater
RECONSTRUCTION																management on an as needed basis meeting
																the provisions of the County Code.
D1177-STORMWATER						0.00	0.00	0.00	0.0	0	0.00	\$4,600,00	0 Planning	2024	pond repairs	A fund for Howard County to undertake
MANAGEMENT FACILITY												+ 1,000,00				construction or repairs to stormwater
RECONSTRUCTION																management on an as needed basis meeting
																the provisions of the County Code.
D1177-STORMWATER						0.00	0.00	0.00	0.0	0	0.00	\$1,500,00	0 Planning	2025	pond repairs	A fund for Howard County to undertake
MANAGEMENT FACILITY																construction or repairs to stormwater
RECONSTRUCTION																management on an as needed basis meeting
																the provisions of the County Code.
D1177-STORMWATER		 -	-	<del>                                     </del>		0.00	0.00	0.00	0.0		0.00	ć7 000 00	OBlanning	2020	nond roppirs	
MANAGEMENT FACILITY						0.00	0.00	0.00	0.0		0.00	\$7,000,00	0 Planning	2026	pond repairs	
RECONSTRUCTION							]									
D1177-STORMWATER		1		t	+	0.00	0.00	0.00	0.0	o	0.00	\$7,000,00	0 Planning	2027	pond repairs	
MANAGEMENT FACILITY							2.30	3.00				Ţ.,==3,00	"	,		
RECONSTRUCTION							l									
D1177-STORMWATER						0.00	0.00	0.00	0.0	0	0.00	\$7,000,00	0 Planning	2028	pond repairs	
MANAGEMENT FACILITY							l									
RECONSTRUCTION																
D1178-STORMWATER						0.00	0.00	0.00	0.0	0	0.00	\$31,62	0 Complete	2019	pond repairs	A project for the retrofit of stormwater
MANAGEMENT RETROFITS							l						1			management facilities to include water
			1	1 1						1	1 1		1		I	quality management.

D1178-STORMWATER				0.00	0.00	0.00	0.00		0.00	\$24,525	Complete	2020 pon	d repairs	A project for the retrofit of stormwater
MANAGEMENT RETROFITS														management facilities to include water
														quality management.
D1178-STORMWATER				0.00	0.00	0.00	0.00		0.00	\$300,000	Design	2022 pon	d repairs	A project for the retrofit of stormwater
MANAGEMENT RETROFITS														management facilities to include water
														quality management.
D1178-STORMWATER				0.00	0.00	0.00	0.00		0.00	\$300,000	Planning	2023 pon	d repairs	A project for the retrofit of stormwater
MANAGEMENT RETROFITS														management facilities to include water
														quality management.
D1178-STORMWATER				0.00	0.00	0.00	0.00		0.00	\$1,100,000	Planning	2024 pon	d repairs	A project for the retrofit of stormwater
MANAGEMENT RETROFITS														management facilities to include water
														quality management.
D1178-STORMWATER				0.00	0.00	0.00	0.00		0.00	\$1,100,000	Planning	2025 pon	d repairs	A project for the retrofit of stormwater
MANAGEMENT RETROFITS														management facilities to include water
														quality management.
D1178-STORMWATER				0.00	0.00	0.00	0.00		0.00	\$1,100,000	Planning	2026 pon	d repairs	A project for the retrofit of stormwater
MANAGEMENT RETROFITS														management facilities to include water
														quality management.
D1178-STORMWATER				0.00	0.00	0.00	0.00		0.00	\$1,100,000	Planning	2027 pon	d repairs	A project for the retrofit of stormwater
MANAGEMENT RETROFITS										. , ,				management facilities to include water
														quality management.
D1178-STORMWATER		1		0.00	0.00	0.00	0.00		0.00	\$1,100,000	Planning	2028 pon	d repairs	,
MANAGEMENT RETROFITS										+-,,				
D1180 TIBER WATERSHED				0.00	0.00	0.00	0.00		0.00	\$500,000	Design	2021 vari	ous restoration, maintenance, repair	A project for the design and construction of
IMPROVEMENTS				0.00	0.00	0.00	0.00		0.00	\$500,000	Design		ects	varying sized drainage and stormwater
IIII NOVEINENIO												p. 0,		management projects within the Tiber
														Watershed.
D1180 TIBER WATERSHED		+	1	0.00	0.00	0.00	0.00		0.00	\$500,000	Planning	2024 vari	ous restoration, maintenance, repair	A project for the design and construction of
IMPROVEMENTS				0.00	0.00	0.00	0.00		0.00	\$500,000	i idilililig		ects	varying sized drainage and stormwater
IIVIFICOVEIVIENTS												proj	ecis	management projects within the Tiber
														Watershed.
D1181 PLUM TREE		+	 + +	0.00	0.00	0.00	0.00		0.00	\$400,000	Design	2021	ous restoration, maintenance, repair	
WATERSHED IMPROVEMENTS				0.00	0.00	0.00	0.00		0.00	\$400,000	Design			A project for the design and construction of
WATERSHED IIVIPROVEIVIENTS												proj	ects	varying sized drainage and stormwater
														management projects within the Plum Tree Watershed.
D1181 PLUM TREE		-		0.00	0.00	0.00	0.00		0.00	Ć 400 000	Diameter -	2022		
WATERSHED IMPROVEMENTS				0.00	0.00	0.00	0.00		0.00	\$400,000	Planning		ous restoration, maintenance, repair	A project for the design and construction of
WATERSHED IMPROVEMENTS												proj	ects	varying sized drainage and stormwater
														management projects within the Plum Tree
D1182 ORCHARD RIDGE		++	+	0.00	0.00	0.00	0.00		0.00	ĆE75 000	Davie .	2024		Watershed.
				0.00	0.00	0.00	0.00		0.00	\$575,000			ous restoration, maintenance, repair	This project is for the design and construction
DRAINAGE IMPROVEMENTS											Construction	proj	ects	of drainage and stormwater managementv
														improvements in the Orchard Ridge
														community.
D1182 ORCHARD RIDGE				0.00	0.00	0.00	0.00		0.00	\$500,000	Planning		ous restoration, maintenance, repair	This project is for the design and construction
DRAINAGE IMPROVEMENTS												proj	ects	of drainage and stormwater managementv
														improvements in the Orchard Ridge
														community.
D1182 ORCHARD RIDGE				0.00	0.00	0.00	0.00		0.00	\$350,000	Planning	2023 vari	ous restoration, maintenance, repair	This project is for the design and construction
DRAINAGE IMPROVEMENTS												proj	ects	of drainage and stormwater managementy
														improvements in the Orchard Ridge
														community.
Annual Report Support				0.00	0.00	0.00	0.00		0.00	\$265,936		2019		
GIS Support				0.00	0.00	0.00	0.00		0.00		Complete	2019		
On-Site Consultants				0.00	0.00	0.00	0.00		0.00	\$200,000	Complete	2019		
Annual Report Support				0.00	0.00	0.00	0.00		0.00	\$125,000	Complete	2020		
GIS Support				0.00	0.00	0.00	0.00		0.00	\$413,244	Complete	2020	-	
On-Site Consultants				0.00	0.00	0.00	0.00		0.00	\$200,000	Complete	2020		
Annual Report Support				0.00	0.00	0.00	0.00		0.00	\$125,000		2021		
											Construction			
l l				0.00	0.00	0.00	0.00		0.00	\$300,000		2021		
GIS Support	l	1								,	Construction	1		
GIS Support		1												
				0.00	0.00	0.00	0.00	l	0.00	\$200.000	Under	2021		
GIS Support On-Site Consultants		† †		0.00	0.00	0.00	0.00		0.00	\$200,000		2021		
On-Site Consultants											Construction			
				0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00		0.00 0.00 0.00	\$200,000 \$125,000 \$627,000	Construction Planning	2021 2022 2022		

Flood Warning System GIS Support IDDE - consultant NPDES Monitoring				0.00	0.00	0.00	0.00		0.00		0 Planning	2022	2	
IDDE - consultant NPDES Monitoring										4	-1			
NPDES Monitoring		-	$\rightarrow$	0.00	0.00	0.00	0.00		0.00		0 Planning	2022		
				0.00	0.00	0.00	0.00		0.00		00 Planning	2022		
				0.00	0.00	0.00	0.00		0.00		00 Planning	2022		
On-Site Consultants				0.00	0.00	0.00	0.00		0.00		00 Planning	2022		
Opti contract				0.00	0.00	0.00	0.00		0.00		0 Planning	2022		
PCB Implementation Plan				0.00	0.00	0.00	0.00		0.00	\$68,00	00 Under	2022	2 PCB	
											Construction			
Rain Barrel supplies				0.00	0.00	0.00	0.00		0.00		0 Planning	2022		
Watershed Enhancement				0.00	0.00	0.00	0.00		0.00	\$160,00	00 Planning	2022	2	
Grants														
Annual Report Support				0.00	0.00	0.00	0.00		0.00		00 Planning	2023		
Bacteria Monitoring 2021-				0.00	0.00	0.00	0.00		0.00	\$100,00	00 Planning	2023	3 bacteria	
2022														
Bacteria Monitoring Plan				0.00	0.00	0.00	0.00		0.00		0 Planning		3 bacteria	
BMP Inspection Services,				0.00	0.00	0.00	0.00		0.00	\$627,00	00 Planning	2023	3	
supplies and vehicles														
CIS 2023 Update (Annual				0.00	0.00	0.00	0.00		0.00	\$100,00	00 Planning	2023	3	
Countywide Stormwater TMDL									1 1		1			
Implementation Plan)									1 1		1			
Flood Warning System				0.00	0.00	0.00	0.00		0.00		0 Planning	2023		
GIS Support				0.00	0.00	0.00	0.00		0.00		0 Planning	2023		
IDDE - consultant				0.00	0.00	0.00	0.00		0.00		0 Planning	2023		
IDDE SOPs				0.00	0.00	0.00	0.00		0.00		0 Planning	2023		
Litter Control Program				0.00	0.00	0.00	0.00		0.00		0 Planning	2023		
Monitoring tasks				0.00	0.00	0.00	0.00		0.00		0 Complete	2020		
Monitoring tasks				0.00	0.00	0.00	0.00		0.00	\$50,00	0 Planning	2023	3	
NPDES Monitoring				0.00	0.00	0.00	0.00		0.00		0 Planning	2023	3	
On-Site Consultants				0.00	0.00	0.00	0.00		0.00	\$200,00	0 Planning	2023	3	
Opti contract				0.00	0.00	0.00	0.00		0.00	\$5,00	0 Planning	2023	3	
PCB Initial Monitoring				0.00	0.00	0.00	0.00		0.00	\$50,00	0 Planning	2023	B PCB	
Pooled Monitoring				0.00	0.00	0.00	0.00		0.00		0 Planning	2023	3	
Public Outreach				0.00	0.00	0.00	0.00		0.00	\$25,00	0 Planning	2023	3	
Rain Barrel supplies				0.00	0.00	0.00	0.00		0.00		0 Planning	2023	3	
Watershed Enhancement				0.00	0.00	0.00	0.00		0.00	\$160,00	0 Planning	2023	3	
Grants														
Annual Report Support				0.00	0.00	0.00	0.00		0.00	\$125,00	0 Planning	2024	4	
BMP Inspection Services,				0.00	0.00	0.00	0.00		0.00	\$627,00	0 Planning	2024	4	
supplies and vehicles														
Flood Warning System				0.00	0.00	0.00	0.00		0.00	\$92,00	0 Planning	2024	4	
GIS Support				0.00	0.00	0.00	0.00		0.00		0 Planning	2024	4	
IDDE - consultant				0.00	0.00	0.00	0.00		0.00		0 Planning	2024		
NPDES Monitoring				0.00	0.00	0.00	0.00		0.00		0 Planning	2024		
On-Site Consultants	<u> </u>			0.00	0.00	0.00	0.00		0.00		00 Planning	2024		
Opti contract	<u> </u>			0.00	0.00	0.00	0.00		0.00		0 Planning	2024		
PCB Secondary Monitoring	<u> </u>			0.00	0.00	0.00	0.00		0.00		00 Planning		4 PCB	
Rain Barrel supplies	İ			0.00	0.00	0.00	0.00		0.00		0 Planning	2024		
Watershed Enhancement	<u> </u>			0.00	0.00	0.00	0.00		0.00		0 Planning	2024		
Grants				0.00	2.00	2.00	2.50			+=50,00		202		
Annual Report Support				0.00	0.00	0.00	0.00		0.00	\$125.00	0 Planning	2025	5	
BMP Inspection Services,				0.00	0.00	0.00	0.00		0.00		0 Planning	2025		
supplies and vehicles				0.00	2.00	2.00	2.50			7-27,00				
Easement Research & GIS		<b>+</b>		0.00	0.00	0.00	0.00	1	0.00	\$500.00	0 Planning	2025	5	<u> </u>
Flood Warning System	-	<del></del>	+ + + -	0.00	0.00	0.00	0.00		0.00		0 Planning	2025		+
GIS Support	-	<del></del>	+ + + -	0.00	0.00	0.00	0.00		0.00		0 Planning	2025		+
Good Housekeeping Plans		+	+ +	0.00	0.00	0.00	0.00		0.00		0 Planning	2025		
IDDE - consultant				0.00	0.00	0.00	0.00		0.00		0 Planning	2025		+
NPDES Monitoring				0.00	0.00	0.00	0.00		0.00		0 Planning	2025		+
ū	-		+ +			0.00	0.00		0.00		0 Planning			+
On-Site Consultants				0.00	0.00							2025		
Opti contract			+ + +	0.00	0.00	0.00	0.00		0.00		0 Planning	2025		+
Rain Barrel supplies			+	0.00	0.00	0.00	0.00		0.00		0 Planning	2025		
Salt Management Plan				0.00	0.00	0.00	0.00		0.00		00 Planning	2025		
Watershed Enhancement				0.00	0.00	0.00	0.00		0.00	\$160,00	00 Planning	2025	5	
Grants									1		1.			
Annual Report Support				0.00	0.00	0.00	0.00		0.00	\$125,00	00 Planning	2026	6	

BMP Inspection Services,				0.00	0.00	0.00	0.00			0.00	\$627,000	Planning	2026	
supplies and vehicles														
Flood Warning System				0.00	0.00	0.00	0.00			0.00			2026	
GIS Support				0.00	0.00	0.00	0.00			0.00	\$130,000		2026	
IDDE - consultant				0.00	0.00	0.00	0.00			0.00		Planning	2026	
NPDES Monitoring				0.00	0.00	0.00	0.00			0.00	\$219,000	Planning	2026	
On-Site Consultants				0.00	0.00	0.00	0.00			0.00	\$200,000	Planning	2026	
Opti contract				0.00	0.00	0.00	0.00			0.00	\$5,000	Planning	2026	
Rain Barrel supplies				0.00	0.00	0.00	0.00			0.00		Planning	2026	
Watershed Enhancement				0.00	0.00	0.00	0.00			0.00	\$160,000	Planning	2026	
Grants														
Annual Report Support				0.00	0.00	0.00	0.00			0.00	\$125,000	Planning	2027	
BMP Inspection Services,				0.00	0.00	0.00	0.00			0.00	\$627,000	Planning	2027	
supplies and vehicles														
Flood Warning System				0.00	0.00	0.00	0.00			0.00	\$92,000	Planning	2027	
GIS Support				0.00	0.00	0.00	0.00			0.00	\$130,000	Planning	2027	
IDDE - consultant				0.00	0.00	0.00	0.00			0.00	\$35,000	Planning	2027	
NPDES Monitoring				0.00	0.00	0.00	0.00			0.00	\$219,000	Planning	2027	
On-Site Consultants				0.00	0.00	0.00	0.00			0.00	\$200,000	Planning	2027	
Opti contract				0.00	0.00	0.00	0.00			0.00	\$5,000	Planning	2027	
Rain Barrel supplies				0.00	0.00	0.00	0.00			0.00	\$5,000	Planning	2027	
Watershed Enhancement				0.00	0.00	0.00	0.00			0.00	\$160,000	Planning	2027	
Grants														
Annual Report Support				0.00	0.00	0.00	0.00			0.00	\$125,000	Planning	2028	
BMP Inspection Services,				0.00	0.00	0.00	0.00			0.00	\$627,000	Planning	2028	
supplies and vehicles												_		
Flood Warning System				0.00	0.00	0.00	0.00			0.00	\$92,000	Planning	2028	
GIS Support				0.00	0.00	0.00	0.00			0.00	\$130,000	Planning	2028	
IDDE - consultant				0.00	0.00	0.00	0.00			0.00	\$35,000	Planning	2028	
NPDES Monitoring				0.00	0.00	0.00	0.00			0.00	\$219,000	Planning	2028	
On-Site Consultants				0.00	0.00	0.00	0.00			0.00	\$200,000	Planning	2028	
Opti contract				0.00	0.00	0.00	0.00			0.00	\$5,000	Planning	2028	
Rain Barrel supplies			1 1	0.00	0.00	0.00	0.00			0.00	\$5,000	Planning	2028	
Storm Drain System				0.00	0.00	0.00	0.00			0.00	\$1,100,000	Planning	2028	
Verification												, and		
Watershed Enhancement				0.00	0.00	0.00	0.00			0.00	\$160,000	Planning	2028	
Grants														
Subtotal Other (up to 2026)		398		0.4	0.0	5.4	8.9	0.0	0.0	8.9	\$249,550,236			
Total for Next Permit		F07		42:	44 300 053 5	0.400.5	4 267 6			4 25- 5	4240.202.222			
(up to 2026)		597		4,215.3	11,208,962.2	8,480.2	1,365.6	0.0	0.0	1,365.6	\$340,392,206			
Total for Next Permit and Projected Years		612		4,215.3	11,208,962.2	8,480.2	1,367.6	0.0	0.0	1,367.6	\$367,088,206			
Total for Remaining Obligations from The Previous					• •		•							
Permit, Continued Obligations, and Proposed														
Activities for The Next Permit (up to 2026)		1,674		5,682.2	11,649,029.1	10,522.8	1,925.0	0.0	0.0	1,925.0	\$340,867,206			
						l								
Total for Remaining Obligations from The Previous														
Permit, Continued Obligations, and Proposed						l								
Activities for The Next Permit (up to 2028)		1,366		5,682.2	11,649,029.1	10,522.8	1,927.0	0.0	0.0	1,927.0	\$367,563,206			
Activities for the Next Permit (up to 2028)				• •		•								
								İ	İ					

# SECTION 4: FINANCIAL CAPACITY ANALYSIS

## **Howard County, Maryland**

#### **Maximum Extent Practicable (MEP) Analysis**

#### **Financial Capacity Analysis**

July 7, 2021

Evaluating the financial capacity of a local jurisdiction to perform all stormwater services, is an important factor in determining the maximum extent practicable (MEP) level of implementation for Phase I Medium municipal separate storm sewer system (MS4) permittees. A jurisdiction's financial capacity can be informed by characterizing the economic conditions of the community, estimating the per household municipal costs and expenditures, and characterizing the financial wherewithal of its government to pay for stormwater-related services.

Howard County's sources of revenue used to pay for stormwater-related services include a combination of a dedicated fee; general property and income tax revenues; grants and loans; and bond sales. Adequately managing these funding sources is critical to the level of stormwater services provided. The data shown in the Financial Capacity Analysis (FCA) spreadsheet (Attachment 6) and the narrative responses to the questions below help describe Howard County's MEP for performing stormwater-related services; economic status and its ability to afford these services; and its capacity to generate funds for these services.

# 1. What was the prior per household municipal cost of stormwater services and restoration activities for a jurisdiction's residents?

This cost includes the past restoration costs and the costs of infrastructure maintenance and repair, inspection and education program costs - both capital and operational.

# a. What was the estimated annual municipal cost of providing stormwater-related management services to residential customers?

The estimated average annual municipal cost of providing stormwater-related management services to residential customers was \$42,608,400.75 (FCA 2c). The municipal annual cost per household for stormwater-related services provided to the residential community in the past 5-year permit term was \$373.20 (FCA 2d), which is 0.31% (FCA 2e) of the median household income value of \$121,160 (MHI) (FCA 2a).

The percent of income for low income households spent on public stormwater-related management programs was 1.49% (FCA 4b), which disproportionately impacts lower income households.

# b. What is the estimated annual cost of the stormwater remediation fee to residential customers?

Residents were charged a Watershed Protection and Restoration Fee averaging \$40.17 per household annually (FCA 2f), which is 0.03% (FCA 2g) of the median household income (MHI) (FCA 2a).

The percent of income for low income households spent on stormwater remediation fees was 0.16% (FCA 4c), which disproportionately impacts lower income households.

# c. What was the annual cost of the impervious surface restoration plan (ISRP) to residential customers?

The total cost of the ISRP during the previous permit term was \$56,836,251 (FCA 3a), and the average annual cost was \$5,982,763.26 (FCA 3b). The annual cost of the ISRP per household was \$52.40 (FCA 3c), which is approximately 0.04% of MHI (FCA 3d).

The percent of income for low income households spent on ISRP was 0.21% (FCA 4d), which disproportionately impacts lower income households.

## d. What is the projected annual cost of the proposed restoration portfolio to residential customers?

The projected total cost of the proposed restoration portfolio is \$340,867,206 (FCA 3e), and the projected average annual cost is \$42,608,400.75 (FCA 3f). The projected annual restoration portfolio cost that may be paid by each household is \$373.20 (FCA 3g), which is 0.31% of the MHI (FCA 3h). The percent of MHI for low income households projected to be spent on the cost of the restoration portfolio is 1.49% (FCA 4e), which disproportionately impacts lower income households.

The percent of MHI for the previous permit term's ISRP, 0.04% (FCA 3d), is less than the percent of MHI for the proposed restoration portfolio, 0.31% (FCA 3h).

# 2. How do socioeconomic factors characterize the economic health of a jurisdiction? Are there indications that there are vulnerable populations in a jurisdiction that need to be considered?

Information on income distribution in a jurisdiction can be used to determine if lower income populations are disproportionately impacted by the costs of stormwater services. Household income statistics are broken down in the Census Data to help with this evaluation. While this low income indicator is important, many jurisdictions have programs to reduce the cost of these stormwater services.

# a. How does the percent unemployed compare to the national average?

An unemployment percentage of greater than 1% above the national average is a local economic indicator that helps to show how stormwater costs may impact the unemployed. This 1% parameter comes from the U.S. Environmental Protection Agency's 1997 "Combined Sewer Overflows – Guidance for Financial Capability Assessment and Schedule Development" (hereafter referred to as EPA's CSO Guidance).

Because the percent unemployed in Howard County is 2.7% (FCA 5a), which is the same as the national average reported in the American Community Survey (ACS), the unemployed do not appear to be disproportionately impacted by stormwater costs.

# b. How does the MHI compare to the national average?

Although the MHI does not specifically represent impacts of costs on lower income residents, comparing the MHI to the national average shows the overall earning capacity in a jurisdiction and provides additional information on the economic conditions of the residential community. According to the EPA's CSO Guidance, if the MHI of the community is more than 25% below the national average, the community would be considered economically vulnerable.

Howard County's MHI is \$121,160 (FCA 2a and 5b), which is 193% greater than the national average of \$62,843.00.

# c. What is the percentage of individuals below the poverty level and how does it compare to the national average?

The U.S. Census Bureau uses family size and income thresholds to determine estimates for the percentage of families and people whose income is below the poverty level. This information can be used to describe the percentage of individuals in a jurisdiction that are below the poverty level compared to the national average. Percentages greater than 1% above the national average may indicate that a jurisdiction has a greater number of residents in poverty.

The percentage of individuals below the poverty level in Howard County is 5% (FCA 5c), which is less than half of the national average of 13.4%.

# d. Are there any methods in place to reduce the annual cost of public stormwater-related services? Is a method in place to reduce the annual cost of stormwater-related services for low income residential customers?

Based on the answers in questions 1a, 1b, 1c, and 1d of this document, the costs on low income residents for providing stormwater-related services may be a large percentage of household income. Using the answers to questions 2a and 2c of this document, as well as the calculated cost for stormwater-related services on low income residents, describe all methods in place to reduce the cost on vulnerable populations. Additionally, have fee reduction requests from low income households impacted water or stormwater service revenues?

Howard County has been and continues to actively pursue state and federal grants to fund stormwater-related projects and services. Since taking office, County Executive Ball has worked with partners at the state and federal level to secure more than \$16 million in funding for the Ellicott City Safe and Sound flood mitigation plan (<a href="https://www.ecsafeandsound.org/flood-mitigation-options">https://www.ecsafeandsound.org/flood-mitigation-options</a>).

The State and Federal grants provide for additional public improvements without additional debt burdens on County residents. The County also offers Watershed Protection Fee Hardship Tax Credit which provides for a 60% credit of the fee.

# 3. What is the financial capacity of a jurisdiction to borrow additional funds for stormwater-related management programs?

The ability of a jurisdiction to borrow additional funds can provide further information on how stormwater-related cost represents the community's MEP. The General Obligation (GO) and revenue bond ratings as well as the net debt as a percentage of full market property value (FMPV) all indicate how a jurisdiction fares in reference to debt. Known as debt burden, this information can characterize a jurisdiction's ability to issue additional debt to finance stormwater-related services.

# a. Does the GO bond rating indicate a strong borrowing capacity?

GO bond ratings represent the ability of a jurisdiction to repay its debt. GO bond debt is paid by revenue from taxes (usually local property taxes). Revenue from the sale of GO bonds are the primary long-term

debt funding mechanism of a community. Moody's ratings of Aaa, Aa, and A, or Standard & Poor's ratings of AAA, AA, and A indicate a financially stable jurisdiction.

Howard County has a Aaa GO bond rating (FCA 6a), a strong borrowing capacity and ability to repay its debt.

# b. Does the revenue bond rating indicate a strong borrowing capacity?

Revenue bond ratings reflect the financial conditions and management of a jurisdiction. These bonds are repaid from revenue generated from user or service fees. Moody's ratings of Aaa, Aa, and A, or Standard & Poor's ratings of AAA, AA, and A indicate a financially stable jurisdiction.

Howard County does not have a revenue bond rating (FCA 6b).

# c. Have either one of the bond ratings impacted past borrowing capacity and is there a potential for impacts to future borrowing?

A strong borrowing capacity will indicate a jurisdiction's ability to sufficiently borrow funds to pay for stormwater-related services. A weaker borrowing capacity will show a jurisdiction may be limited in the ability to increase debt to fund additional projects. Based on the bond ratings, jurisdictions should explain how borrowing during the previous permit term was impacted by bond ratings. The jurisdiction should also explain how borrowing during the next permit term could be impacted by current bond ratings.

Howard County has received the highest possible credit rating, AAA, from all three bond rating agencies for 24 consecutive years. This acknowledges the County's sizable and wealthy tax base, sound fiscal policies, and fiscal management. As all three credit rating agencies provided a stable outlook, the County continues to take a conservative and prudent approach, adhering to its policies, and does not anticipate any negative impacts to future borrowing.

## d. Net debt as a percentage of FMPV?

Net debt is debt repaid by property taxes. The FMPV is the price a willing buyer would pay for real property and in this context it represents the full market value of real property in the jurisdiction. The calculated net debt as a percentage of FMPV provides a measurement of the debt burden on residents. It accounts for all debt issued by the jurisdiction and can be compared to a benchmark found in EPA's CSO Guidance to serve as an indicator of financial stability.

Howard County has a net debt as a percentage of FMPV of 2.29% (FCA 6c). The County Charter limits outstanding general county debt to 4.8% of the assessed value of real and personal property. This measure is also included in S&P and Moody's credit rating criteria. Howard County continues to adhere to its Debt Management policy, with net debt well below the 4.8% limit.

#### 4. How great is the tax burden on existing properties within the community?

Financial management indicators help determine how great the tax burden is on existing properties within the community. These indicators can show whether a jurisdiction has a relatively high or low tax rate, which would indicate potential for concern if additional fees are added.

# a. What is the property tax revenue collection rate and does it indicate a large amount of contributions from the tax base?

The property tax revenue collection rate serves as a measurement of tax collection system performance and residents' acceptance of tax levels. The rate can be compared to an EPA CSO Guidance benchmark to indicate performance. A collection rate above 98% would be indicative of strong performance. A poor collection rate would be indicative of a tax structure that is burdensome on the residential population of the jurisdiction.

The property tax revenue collection rate for Howard County is 99.25% (FCA 6e), indicating a large amount of contributions from the tax base.

# b. Do the property tax revenues as a percentage of FMPV indicate that additional fees would cause an increased strain on the community?

The property tax revenues as a percentage of FMPV can be used to characterize the financial ability of a jurisdiction to support debt. This comparison also provides information on how effective the local government is in providing services. A value below 2% indicates a financially strong community.

The property tax revenues as a percentage of FMPV for Howard County is 1.22% (FCA 6d), indicating a financially strong community.

# ATTACHMENT 1: PROJECT SCHEDULE

Project Type	Duration					Vor	ar 1									v	ear 2	,				_					Year	2									Year			Jicai F		$\neg$
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Project Phase	(months)	1 '	2 :	3 4		ь		8	9 1	10 1	1 12	+		3	4	5 6	<b>,</b>	8	9	10	11	12	1	2 3	4		ь	/ 8	9	10	11	12	1	2 3	4	5	ь	/ 8	, 9	10	11 ,	
Large Stormwater BMP (On-Call Contract)	36									_		_						_		, ,		_				1						4						-				_
Planning	6						Ш			_										$\perp$										<u> </u>	Ш	_								$\perp \perp$		
Design	15	$oxed{oxed}$	_	_	_																_												_	_	<u> </u>				4	$\downarrow \downarrow \downarrow$		_
Construction	15											_																												$\perp \perp$		_
Large Stormwater BMP (On-Call Contract)	48																																									
Planning	6																					一										T										$\neg$
Design with MDE Dam Safety Review	27																																						1			
Construction	15		$\top$							T			П						Т	П					Т				Т													
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Large Stormwater BMP (Construction	42																																									
through public advertisement)	42							1		-	1	+		Т				T	Т			$\dashv$			<del>-</del>	T :	-		Т	Т	<del>   </del>	$\dashv$	<u> </u>		1	<del>     </del>					<del></del>	$\dashv$
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Construction	15																																						Щ	Ш		_
Stream Restoration (On-Call Contract)	36																																									
Planning	6								Т		1			Τ	Т	Т		T				_				Ι				T	Π	1	П		T				$\top$	TT	$\top$	$\neg$
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Stream Restoration (On-Call Contract)	39																																									
Planning	6																																						П			
Design	15																																									
Construction with Stream Closure Period	18				1								П																											$\Box$		
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Stream Restoration (Construction through																																										
public advertisement)	42																																									
Planning	6																																									
Design	15																																									
Bid Process (Ad/Bid/Select)	3						П						П																	1										1 1		
Bid Process (Contract Admin)	3		+				H				1	1	H		_			1	<u> </u>										1	+									+	+	$\dashv$	-
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Construction (Planting)	3																															$\dashv$								$\perp \perp \downarrow$		$\dashv$
Septic Connections	36																																									
Planning	12																																							$\prod$		
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# ATTACHMENT 2: CAPITAL BUDGET FY2022

# **Project: C0337-FY2014 ELLICOTT CITY IMPROVEMENTS and ENHANCEMENTS**

#### Description

This is a project to provide a variety of repairs and improvements to public infrastructure and address other community improvements and to make improvements to the downtown and historic district of the Howard County Seat. This project may include land acquisition for water quality and drainage needs and other public improvements.

## **Justification**

Community has requested improvements to the downtown Ellicott City area for flood mitigation. The work effort will be done to implement the Safe and Sound Plan.

#### Remarks

- 1.TAO #3 2014 current pending legislation will add \$100,000 grant funding for Ellicott City Streetscape program.
- 2. Construction of some projects may be dependent on the donation of the necessary easements and-or property owner cost share participation.
- 3. OTHER SOURCES revenue represents homeowner contribution
- 4.WATER QUALITY LOANS represents Water Infrastructure Finance and Innovation Act of 2014 (WIFIA) loan, which has a 30-year term, favorable rate and debt payment start date of 5 years after loan closing.
- 5. GRANT represents anticipated FEMA and State funding for Ellicott City.
- 6.Project implementation of the various improvements included in the Safe and Sound Plan may be adjusted depending on contract negotiations, land acquisition success and regulations|permit approvals.

## **Project Schedule**

FY22 - Construction: Pond H7, Quaker Mill pond, Maryland Avenue culverts, lower Main Street building work.

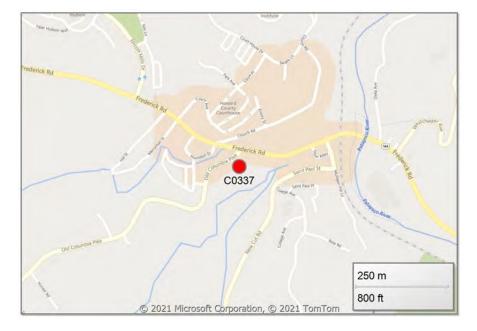
FY22 - Design: North tunnel and NC-3 pond.

Continue building acquisition-removal of those in most vulnerable areas (as needed).

#### **Operating Budget Impact**

No Operating Impact

FY2022 Bonds - Annual Debt Service Payment	3,336,667
FY2022 Bonds - 20-Year Total Debt Service Payment	66,733,343
Total Project Bonds - Annual Debt Service Payment	7,923,679
Total Project Bonds - 20-Year Total Debt Service Payment	158,473,583



# **Explanation of Changes**

Scope definition and timeline of project account for cost increase.

# **Project: C0337-FY2014 ELLICOTT CITY IMPROVEMENTS and ENHANCEMENTS**

(In Thousands)					Five	Year Cap	oital Prog	jram				Master P	lan	
Appropriation Object Class	Prior Appr.	FY2022 Budget	Appr. Total	Fiscal 2023	Fiscal 2024	Fiscal 2025	Fiscal 2026	Fiscal 2027	Sub Total	Fiscal 2028	Fiscal 2029	Fiscal 2030	Fiscal 2031	Total Project
PLANS & ENGINEERING	8,450	1,000	9,450	0	0	0	0	0	0	0	0	0	0	9,450
LAND ACQUISITION	18,600	0	18,600	1,600	0	0	0	0	1,600	0	0	0	0	20,200
CONSTRUCTION	30,621	88,820	119,441	16,930	10,500	0	0	0	27,430	0	0	0	0	146,871
ADMINISTRATION	400	0	400	0	0	0	0	0	0	0	0	0	0	400
Total Expenditures	58,071	89,820	147,891	18,530	10,500	0	0	0	29,030	0	0	0	0	176,921
BONDS	38,675	0	38,675	3,530	10,500	0	0	0	14,030	0	0	0	0	52,705
DEVELOPER CONTRIBUTION	165	0	165	0	0	0	0	0	0	0	0	0	0	165
GRANTS	16,726	8,870	25,596	0	0	0	0	0	0	0	0	0	0	25,596
OTHER SOURCES	5	0	5	0	0	0	0	0	0	0	0	0	0	5
PAY AS YOU GO	1,000	5,950	6,950	15,000	0	0	0	0	15,000	0	0	0	0	21,950
WATER QUALITY STATE OR FED LOAN	0	75,000	75,000	0	0	0	0	0	0	0	0	0	0	75,000
STORMWATER UTILTY FUNDING	1,500	0	1,500	0	0	0	0	0	0	0	0	0	0	1,500
Total Funding	58,071	89,820	147,891	18,530	10,500	0	0	0	29,030	0	0	0	0	176,921

# \$34,233,369 spent and encumbered through February 2021 \$28,570,917 spent and encumbered through February 2020

Project Status TAO#1-2019 Transfer in \$15,981,000

Design - Parking Lot F imprv, Ellicott Mills Dr WQ bumpout, Main St crosswalks, H4 and NC-3 ponds, Maryland Avenue culverts, North Tunnel (preliminary engineering).

Construction complete - Parking Lot E improvements (partial funding), wall repairs for Court Ave, Tonge Row, Lot E northeast corner, Precious Gifts, Main St at 84" culvert, Main St repaving, Courthouse Dr slope repair, Fels La drainage improvements, Ellicott Mills Dr roadway replacement, Rogers Ave storm drain improvements, St. Luke Church slope, relocation of log cabin, miscellaneous sidewalk repairs, stabilization of Caplans.

Other - Stream wall inspections, acquisition and stabilization process in the most vulnerable areas, St Luke Church slope repair.

FY 2021 Budget	58,071	2,000	60,071	55,100	1,450	0	29,550	1,000	87,100	13,000	0	0		160,171
Difference 2021 / 2022	0	87,820	87,820	(36,570)	9,050	0	(29,550)	(1,000)	(58,070)	(13,000)	0	0	0	16,750

Scope definition and timeline of project account for cost increase.

# **Project: D1124-FY2007 DRAINAGE IMPROVEMENT PROGRAM**

## Description

A project for the design and construction of small to medium-sized drainage improvements requested by County residents and the Bureau of Highways.

## **Justification**

Create improved drainage to safely convey surface runoff, to stop flow onto residential properties or to protect the traveled way.

#### Remarks

- 1.SDFUND represents Storm Drainage developer contributions derived as a result of 16.133e of the County Code.
- 2. Construction of some projects may be dependent upon donation of the necessary easements and-or resident cost share participation.
- 3. After initial investigation, projects over \$250,000 in construction costs may be split out as a separate Capital Project.
- 4. OTHER funds are resident cost share.
- 5. Prior to FY20, project included assistance with debris removal and assessment of flood mitigation opportunities in the Allview area.
- 6. Funding request represents program advancement.

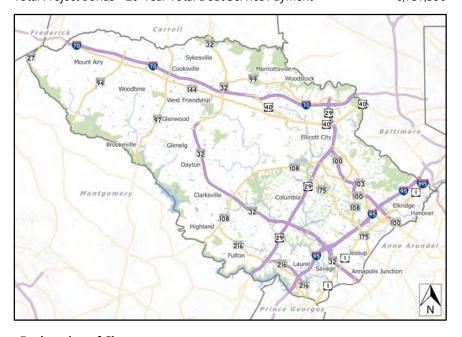
# **Project Schedule**

Program

# **Operating Budget Impact**

Estimated annual maintenance costs upon completion: Decrease.

FY2022 Bonds - Annual Debt Service Payment	41,995
FY2022 Bonds - 20-Year Total Debt Service Payment	839,902
Total Project Bonds - Annual Debt Service Payment	337,870
Total Project Bonds - 20-Year Total Debt Service Payment	6.757.396



# **Explanation of Changes**

Cost decrease reflects programming actual projects in out years.

# Project: D1124-FY2007 DRAINAGE IMPROVEMENT PROGRAM

(In Thousands)					Five	Year Ca	pital Prog	jram				Master P	lan	
Appropriation Object Class	Prior	FY2022	Appr.	Fiscal	Fiscal	Fiscal	Fiscal	Fiscal	Sub	Fiscal	Fiscal	Fiscal	Fiscal	Total
	Appr.	Budget	Total	2023	2024	2025	2026	2027	Total	2028	2029	2030	2031	Project
PLANS & ENGINEERING	1,555	120	1,675	0	40	0	120	0	160	0	0	0	0	1,835
LAND ACQUISITION	195	20	215	0	10	0	20	0	30	0	0	0	0	245
CONSTRUCTION	2,750	410	3,160	0	200	0	410	0	610	0	0	0	0	3,770
ADMINISTRATION	10	0	10	0	0	0	0	0	0	0	0	0	0	10
Total Expenditures	4,510	550	5,060	0	250	0	550	0	800	0	0	0	0	5,860
BONDS	3,075	550	3,625	0	250	0	550	0	800	0	0	0	0	4,425
OTHER SOURCES	10	0	10	0	0	0	0	0	0	0	0	0	0	10
PAY AS YOU GO	250	0	250	0	0	0	0	0	0	0	0	0	0	250
STORM DRAINAGE FUND	1,175	0	1,175	0	0	0	0	0	0	0	0	0	0	1,175
Total Funding	4,510	550	5,060	0	250	0	550	0	800	0	0	0	0	5,860

# \$3,376,460 spent and encumbered through February 2021

# \$3,364,023 spent and encumbered through February 2020

Project Status FY21 - There are several requests waiting to be started and will be addressed in turn as other work is completed.

Investigation underway: Sylvan Lane (N. of Church Rd), Hyla Brook, 11000 blk Triadelphia Rd.

Investigation complete: Watch Chain Way, Hale Haven improvements, Lime Kiln Rd Culvert, Gudel Drive, Windermere, Walker Drive, Deerfield, Harriett Tubman Design and or Land acquisition in progress: Globe Drive improvements, 7300 block of Montgomery Road easement.

Construction complete: Woodside Court, Fels Lane, Ordway Drive, Frederick Rd Slope, Maple Rock Drive, Frederick Road slope, US 40 Landscaping, Little Patuxent and Allview Debris Removal, Cradlerock Way channel wall, Abel St (Phase I and 2), Montgomery Road, Patuxent Range Road, Beechfield Avenue.

FY 2021 Budget	4,510	675	5,185	0	675	0	675	0	1,350	0	0	0		6,535
Difference 2021 / 2022	0	(125)	(125)	0	(425)	0	(125)	0	(550)	0	0	0	0	(675)

# **Project: D1148-FY2007 NPDES WATERSHED MANAGEMENT PROGRAM**

## Description

A project for permitting and implementing the requirements of the National Pollutant Discharge Elimination System (NPDES) to detect and reduce pollutants in stormwater system discharges and to perform studies related to storm water utility financing.

## **Justification**

This project is necessary to comply with the Federal Government's Clean Water Act.

#### Remarks

- 1. This project replaces Capital Project D1115.
- 2. A five-year renewal NPDES permit was issued by MDE in June 2005.
- 3. The County was issued a new five-year permit on December 18, 2014.
- 4.OTHER funding represents A portion of funding generated from legislation CB-8 & CR21 for stormwater utility funding, known as Watershed Protection and Restoration fund.

# **Project Schedule**

FY22 - Perform work to assess and address Total Maximum Daily Loads (TMDL) and Watershed Implementation Plan (WIP) requirements to meet NPDES permit conditions. Continue database development for NPDES reporting requirements.

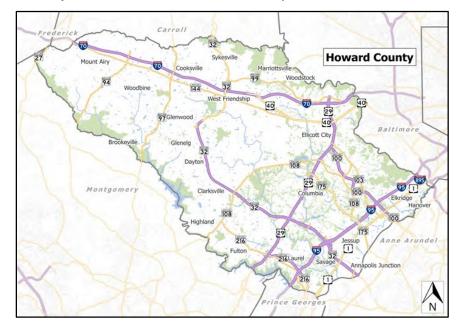
Prepare documentation necessary to apply for next permit.

Perform PCB and bacteria monitoring to address TMDL requirements.

# **Operating Budget Impact**

No Operating Impact

FY2022 Bonds - Annual Debt Service Payment	0
FY2022 Bonds - 20-Year Total Debt Service Payment	0
Total Project Bonds - Annual Debt Service Payment	288,621
Total Project Bonds - 20-Year Total Debt Service Payment	5,772,420



# **Explanation of Changes**

Cost increase reflects additional effort to address permit conditions.

# Project: D1148-FY2007 NPDES WATERSHED MANAGEMENT PROGRAM

(In Thousands)					Five	Year Ca	pital Prog	gram				Master F	Plan	
Appropriation Object Class	Prior	FY2022	Appr.	Fiscal	Fiscal	Fiscal	Fiscal	Fiscal	Sub	Fiscal	Fiscal	Fiscal	Fiscal	Total
	Appr.	Budget	Total	2023	2024	2025	2026	2027	Total	2028	2029	2030	2031	Project
PLANS & ENGINEERING	6,720	300	7,020	300	300	0	0	0	600	0	0	0	0	7,620
CONSTRUCTION	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Expenditures	6,720	300	7,020	300	300	0	0	0	600	0	0	0	0	7,620
BONDS	3,780	0	3,780	0	0	0	0	0	0	0	0	0	0	3,780
OTHER SOURCES	0	300	300	300	300	0	0	0	600	0	0	0	0	900
PAY AS YOU GO	650	0	650	0	0	0	0	0	0	0	0	0	0	650
STORMWATER UTILTY FUNDING	2,290	0	2,290	0	0	0	0	0	0	0	0	0	0	2,290
Total Funding	6,720	300	7,020	300	300	0	0	0	600	0	0	0	0	7,620

# \$6,176,711 spent and encumbered through February 2021

# \$5,715,956 spent and encumbered through February 2020

Project Status Performed Upper Little Patuxent Watershed Study. Prepared Watershed Treatment Model and generated input to State WIP II. Performed stormwater utility fund financing study. Performed site assessments for additional BMP implementation. Partially funded Alliance for the Chesapeake Bay (READY) grant. Design ESD BMPs at Rockburn Br. Park. Completed draft and final Countywide Implementation Strategy (CIS) for meeting TMDL commitments and impervious cover treatment requirements. Perform database creation and impervious cover baseline calculations for NPDES reporting requirements. Performed historical BMP cleanup to meet MDE requirements. Performed Little Patuxent & Middle Patuxent Watershed Assessments. Perform Patapsco and Patuxent River watershed assessments. Continued Point of Investigation assessment and reporting required by MDE. Prepared PCB TMDL implementation plan. Updated IDDE and BMP CRM databases. Performed modeling and pollutant load computations for annual report.

FY 2021 Budget	6,720	100	6,820	100	100	100	100	0	400	0	0	0		7,220
Difference 2021 / 2022	0	200	200	200	200	(100)	(100)	0	200	0	0	0	0	400

# **Project: D1158-FY2008 WATERSHED MANAGEMENT CONSTRUCTION**

#### Description

This project is for design and construction of stormwater facility improvements. The project will include NPDES stormwater management implementation requirements, floodplain studies, including retrofitting of stormwater management ponds, restoration and certification of detention basins, continued improvement of flood alert systems, streambank restoration including bio-engineering, water quality devices (such as wetlands), channel restoration and water quality monitoring studies.

#### **Justification**

- 1. NPDES Program is required by EPA and MDE under the Clean Water Act.
- 2. Watershed management of floodplains is needed to provide additional protection for older communities.
- 3. Erosion of tributaries of Patapsco and Patuxent Rivers to be addressed.

#### Remarks

- 1.SDFUND represents fee-in-lieu of SWM construction by developers for County use in design or construction of other SWM facilities.
- 2.GRANT funds include local implementation grant from Chesapeake and Atlantic Coastal Bays 2010 Trust Fund and ARRA.
- 3. WQ Loan represents State Revolving Loan funding.
- 4.OTHER SOURCES represent Stormwater Bonds backed by Watershed Protection and Restoration fund, plus funds provided to County through Memorandums of Understandings for cost sharing.
- 5. TAO 1-2017 received \$550,000 Grant revenue from D1165.
- 6. Construction of some projects may be dependent upon donation of the necessary easements and-or property owner cost share participation.

## **Project Schedule**

FY22 - Project is in the financial close out process and will be replaced by D1176.

#### **Operating Budget Impact**

No Operating Impact

FY2022 Bonds - Annual Debt Service Payment 0
FY2022 Bonds - 20-Year Total Debt Service Payment 0
Total Project Bonds - Annual Debt Service Payment 824,250
Total Project Bonds - 20-Year Total Debt Service Payment 16,484,992



# **Project: D1158-FY2008 WATERSHED MANAGEMENT CONSTRUCTION**

(In Thousands)					Five	Year Cap	oital Prog	jram				Master P	lan	
Appropriation Object Class	Prior Appr.	FY2022 Budget	Appr. Total	Fiscal 2023	Fiscal 2024	Fiscal 2025	Fiscal 2026	Fiscal 2027	Sub Total	Fiscal 2028	Fiscal 2029	Fiscal 2030	Fiscal 2031	Total Project
PLANS & ENGINEERING	9,300	0	9,300	0	0	0	0	0	0	0	0	0	0	9,300
LAND ACQUISITION	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CONSTRUCTION	40,285	0	40,285	0	0	0	0	0	0	0	0	0	0	40,285
ADMINISTRATION	1,020	0	1,020	0	0	0	0	0	0	0	0	0	0	1,020
Total Expenditures	50,605	0	50,605	0	0	0	0	0	0	0	0	0	0	50,605
BONDS	10,795	0	10,795	0	0	0	0	0	0	0	0	0	0	10,795
DEVELOPER CONTRIBUTION	200	0	200	0	0	0	0	0	0	0	0	0	0	200
GRANTS	12,397	0	12,397	0	0	0	0	0	0	0	0	0	0	12,397
OTHER SOURCES	10,100	0	10,100	0	0	0	0	0	0	0	0	0	0	10,100
PAY AS YOU GO	1,000	0	1,000	0	0	0	0	0	0	0	0	0	0	1,000
STORM DRAINAGE FUND	850	0	850	0	0	0	0	0	0	0	0	0	0	850
WATER QUALITY STATE OR FED LOAN	1,646	0	1,646	0	0	0	0	0	0	0	0	0	0	1,646
STORMWATER UTILTY FUNDING	13,617	0	13,617	0	0	0	0	0	0	0	0	0	0	13,617
Total Funding	50,605	0	50,605	0	0	0	0	0	0	0	0	0	0	50,605

# \$48,591,274 spent and encumbered through February 2021

\$49,117,159 spent and encumbered through February 2020

**Project Status** Des: Sunny Field, Wood Crest, Cherry Tree Farms, Wood Creek, NLCC, Glenmont, Old Willow, Gwynn Pk, Wharff, Yellowbell, Proudfoot Stonehouse, Mellen, Park. Con: Bramhope, Brightwood, Dower, Ducks Foot, Elmmede, Faulkner, Great Drum, Meadowbrook, Old Willow, Paul Mill, Red Hill, Stone Trail, Tall Maple, Threshfield, Tiller, Tuscany, Waverly Woods, Wheatfield, Whiterock, Windflower, Southview, Pinehurst, Dorsey Hall, Bonnie Br, Greenway, Davis Br, Swansfield, HCC, Churchill, Dobbin, Timbers of Troy, Dunloggin, Font Hill Bank, Heatherland, Starling, Woodlot, Maple Dell Farms.

FY 2021 Budget	50,605	0	50,605	0	0	0	0	0	0	0	0	0		50,605
Difference 2021 / 2022	0	0	0	0	0	0	0	0	0	0	0	0	0	0

# **Project: D1159-FY2007 STORMWATER MANAGEMENT FACILITY RECONSTRUC**

#### Description

A fund for Howard County to undertake construction or repairs to stormwater management on an as-needed basis meeting the provisions of the County Code. This program is envisioned to provide rapid assistance in emergency situations.

#### **Justification**

Howard County Code Section 18.900, which requires inspection and maintenance of storm water management facilities. Metal pipe pond barrels are deteriorating as they reach the end of their expected life and need to be repaired or replaced.

#### Remarks

- 1.GRANT funds include local implementation grant from the Chesapeake and Atlantic Coastal Bays 2010 Trust Fund.
- 2.A portion of prior request represents funding generated from legislation CB-8 & CR21 for stormwater utility funding, known as Watershed Protection and Restoration fund.
- 3. Construction of some projects may be dependent upon donation of the necessary easements and-or property owner cost share participation.
- 4.OTHER SOURCES represents Stormwater Bonds backed by Watershed Protection and Restoration fund.

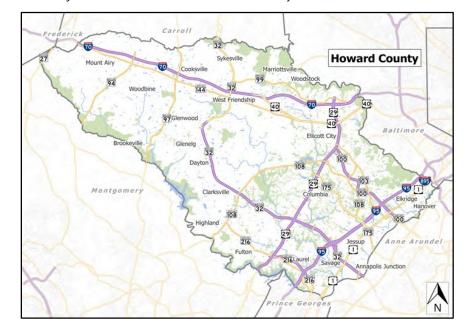
# **Project Schedule**

FY22 - Project is in the financial close out process and will be replaced by D1177.

# **Operating Budget Impact**

No Operating Impact

FY2022 Bonds - Annual Debt Service Payment 0
FY2022 Bonds - 20-Year Total Debt Service Payment 0
Total Project Bonds - Annual Debt Service Payment 1,198,006
Total Project Bonds - 20-Year Total Debt Service Payment 23,960,122



# **Project: D1159-FY2007 STORMWATER MANAGEMENT FACILITY RECONSTRUC**

(In Thousands)					Five	Year Ca	pital Prog	gram			ĺ	Master P	lan	
Appropriation Object Class	Prior	FY2022	Appr.	Fiscal	Fiscal	Fiscal	Fiscal	Fiscal	Sub	Fiscal	Fiscal	Fiscal	Fiscal	Total
	Appr.	Budget	Total	2023	2024	2025	2026	2027	Total	2028	2029	2030	2031	Project
PLANS & ENGINEERING	5,500	0	5,500	0	0	0	0	0	0	0	0	0	0	5,500
LAND ACQUISITION	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CONSTRUCTION	28,125	0	28,125	0	0	0	0	0	0	0	0	0	0	28,125
ADMINISTRATION	1,015	0	1,015	0	0	0	0	0	0	0	0	0	0	1,015
Total Expenditures	34,640	0	34,640	0	0	0	0	0	0	0	0	0	0	34,640
BONDS	15,690	0	15,690	0	0	0	0	0	0	0	0	0	0	15,690
GRANTS	200	0	200	0	0	0	0	0	0	0	0	0	0	200
OTHER SOURCES	400	0	400	0	0	0	0	0	0	0	0	0	0	400
STORMWATER UTILTY FUNDING	18,350	0	18,350	0	0	0	0	0	0	0	0	0	0	18,350
Total Funding	34,640	0	34,640	0	0	0	0	0	0	0	0	0	0	34,640

\$34,269,697 spent and encumbered through February 2021 \$33,975,793 spent and encumbered through February 2020

Project Status Designed: 82 pond repairs

Constructed: Red Clover Dam; Willow Brook; West Zone Highways Shop pond; Rockburn 2; Dunteachin pond; Cromwell Court; Falling Waters; Stratford Downs; Hickory Ridge Village Center; Gateway pond; Shadow Lane repair and dredging; Hickory Ridge LPP; Samuel Morse; Ivy Terrace infiltration; Bonnie Brae; Emily Fox; Bill Lilly; Cypress Bay Court; Lynn Buff; Beech Creek 2; Brightfield; Turf Valley Overlook pond 2; Weston Drive; Blue February; Chestnut Farms outfall; Wimbledon Court; Wetherburn; Angelas Valley; 10 trashrack replacements; Rhode Valley; Emily Fox Ct; Old Mill; Towering Oaks; North Laurel pipe repair; Red Cravat repair and dredging; Glenshire Town; Northgate Woods; Murray Hill 2; Mary Lee Lane; Montgomery Run Pond 2; Winding Star; Longridge Knolls; River Hill 2; River Hill 3; Long Meadow pond; Long Meadow pond 2; North Ridge; Rusty Rim; Sweet Hours; Townhomes of Timberland; Velvet Path; Junction Industrial Park; Fairest Dream; Golden Star 1 and 2; Linden Chapel; Twin Oaks; Terra Maria; Beech Creek; Glenmar Section 2; Many Miles Mew; Kings Meade; Blue River; Diversified Lane.

FY 2021 Budget	34,640	0	34,640	0	0	0	0	0	0	0	0	0		34,640
Difference 2021 / 2022	0	0	0	0	0	0	0	0	0	0	0	0	0	0

# **Project: D1160-FY2010 STORMWATER MANAGEMENT RETROFITS**

#### Description

A project for the retrofit of stormwater management facilities to include water quality management.

## **Justification**

Numerous facilities built in the early period of stormwater management provide only water quality management. Howard County's Stormwater Management NPDES permit requires the County to improve water quality, in part, through retrofitting existing facilities designed only for water quality management.

#### Remarks

- 1. This project replaces D-1141.
- 2.Grant funds included from the American Recovery and Reinvestment Act and local implementation grant from Chesapeake and Atlantic Coastal Bays 2010 Trust Fund.3.OTHER SOURCES represent Stormwater Bonds backed by Watershed Protection and Restoration fund, plus funds provided to County through Memorandum of Understanding of cost sharing.
- 4. Construction of some projects may be dependent upon donation of the necessary easements and-or property owner cost share participation.

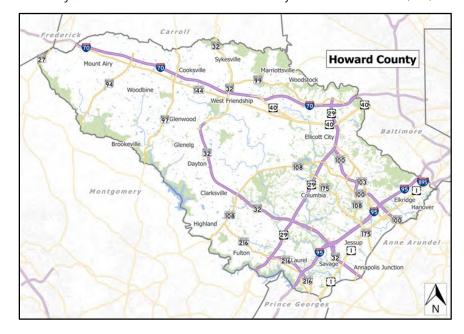
## **Project Schedule**

FY22 - Project is in the financial close out process and will be replaced by D1178.

# **Operating Budget Impact**

Technical-administrative management support.

FY2022 Bonds - Annual Debt Service Payment 0
FY2022 Bonds - 20-Year Total Debt Service Payment 0
Total Project Bonds - Annual Debt Service Payment 526,084
Total Project Bonds - 20-Year Total Debt Service Payment 10,521,685



# **Project: D1160-FY2010 STORMWATER MANAGEMENT RETROFITS**

(In Thousands)			Five	Year Ca	pital Prog	Master Plan								
Appropriation Object Class	Prior Appr.	FY2022 Budget	Appr. Total	Fiscal 2023	Fiscal 2024	Fiscal 2025	Fiscal 2026	Fiscal 2027	Sub Total	Fiscal 2028	Fiscal 2029	Fiscal 2030	Fiscal 2031	Total Project
PLANS & ENGINEERING	4,990	0	4,990	0	0	0	0	0	0	0	0	0	0	4,990
CONSTRUCTION	15,425	0	15,425	0	0	0	0	0	0	0	0	0	0	15,425
ADMINISTRATION	620	0	620	0	0	0	0	0	0	0	0	0	0	620
Total Expenditures	21,035	0	21,035	0	0	0	0	0	0	0	0	0	0	21,035
BONDS	6,890	0	6,890	0	0	0	0	0	0	0	0	0	0	6,890
GRANTS	4,495	0	4,495	0	0	0	0	0	0	0	0	0	0	4,495
OTHER SOURCES	4,750	0	4,750	0	0	0	0	0	0	0	0	0	0	4,750
STORMWATER UTILTY FUNDING	4,900	0	4,900	0	0	0	0	0	0	0	0	0	0	4,900
Total Funding	21,035	0	21,035	0	0	0	0	0	0	0	0	0	0	21,035

# \$19,216,217 spent and encumbered through February 2021 \$18,754,976 spent and encumbered through February 2020

**Project Status** In Design: Quaker Mill Court; Wood Crest Drive; Country Meadows; Patapsco Park Estates; Sewells Orchard; Junction Industrial Parcel R. Constructed: Lynwood Manor; Deep Earth Lane; Recreation and Parks HQ; Turf Valley Overlook Pond 3; Rockburn Branch Park; Country Lane (2 ponds); Oak West Drive; Wilde Lake HS; Turf Valley Overlook pond 2; Whitworth Way; Wimbledon Court; Stevens Forest ES; Dorsey Hall Village Center; Mt Hebron High School; Cedar Lane Park; Baltimore-Washington Industrial Park; Howard County Center for the Arts; St Johns Green; River Hill Shallow Marsh; Dorsey Building Parking Lot; Atholton Park; Ashmede Road pond; Salterforth ponds 1 and 2; Students Branching Out tree planting; Garland Road; Heritage Woods; Governor Martin outfall; Waiting Springs; Ellicott View; Ashton Woods; Trinity School.

FY 2021 Budget	21,035	0	21,035	0	0	0	0	0	0	0	0	0		21,035
Difference 2021 / 2022	0	0	0	0	0	0	0	0	0	0	0	0	0	0

# **Project: D1161-FY2019 SHAFFERSVILLE ROAD CULVERT REPLACEMENT**

## Description

A project to replace the existing culverts on Shaffersville Road (between Florence Road and Shaffers Mill Road) and on Shaffers Mill Road between Shaffersville Road and Florence Road.

## **Justification**

Requested by the Bureau of Highways. The existing culvert floods regularly necessitating the closure of the road. This is a maintenance problem for the Bureau of Highways and an inconvenience to the traveling public.

#### Remarks

Shaffersville Road and Shaffers Mill Road are scenic roads.

# **Project Schedule**

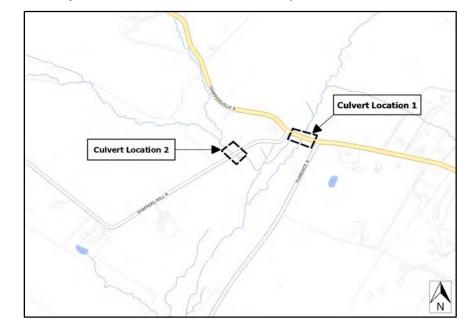
FY22 - Design and Land Acquisition

FY23 - Construction

# **Operating Budget Impact**

Estimated annual maintenance costs upon completion: Decrease.

FY2022 Bonds - Annual Debt Service Payment 0
FY2022 Bonds - 20-Year Total Debt Service Payment 0
Total Project Bonds - Annual Debt Service Payment 87,808
Total Project Bonds - 20-Year Total Debt Service Payment 1,756,159



# **Explanation of Changes**

The total project cost has changed resulting from the addition of a second culvert location to the project.

# **Project: D1161-FY2019 SHAFFERSVILLE ROAD CULVERT REPLACEMENT**

(In Thousands)		Five Year Capital Program									Master Plan					
Appropriation Object Class	Prior Appr.	FY2022 Budget	Appr. Total	Fiscal 2023	Fiscal 2024	Fiscal 2025	Fiscal 2026	Fiscal 2027	Sub Total	Fiscal 2028	Fiscal 2029	Fiscal 2030	Fiscal 2031	Total Project		
PLANS & ENGINEERING	175	0	175	0	0	0	0	0	0	0	0	0	0	175		
LAND ACQUISITION	75	0	75	0	0	0	0	0	0	0	0	0	0	75		
CONSTRUCTION	0	0	0	0	0	900	0	0	900	0	0	0	0	900		
Total Expenditures	250	0	250	0	0	900	0	0	900	0	0	0	0	1,150		
BONDS	250	0	250	0	0	900	0	0	900	0	0	0	0	1,150		
Total Funding	250	0	250	0	0	900	0	0	900	0	0	0	0	1,150		

\$54,106 spent and encumbered through February 2021 \$40,223 spent and encumbered through February 2020

**Project Status** FY21 - Shaffers Mill Road replacement culverts under construction.

FY 2021 Budget	250	900	1,150	0	0	0	0	0	0	0	0	0		1,150
Difference 2021 / 2022	0	(900)	(900)	0	0	900	0	0	900	0	0	0	0	0

The scope of the project was broadened to include a second culvert on Shaffers Mill Road. Funds for the design of the additional culvert have been requested for FY21.

# **Project: D1164-FY2013 COMMUNITY ENVIRONMENTAL PARTNERSHIPS**

#### Description

This project is for design and construction of Environmental Site Design (ESD) small scale storm water facilities. The project will include retrofit of County owned roads, as well as, incentives for property owners to install ESD facilities and non-turf landscape alternatives to provide treatment of storm water runoff from impervious surfaces on their property.

## **Justification**

Additional treatment of storm water runoff is needed to support efforts consistent with the Chesapeake Bay Total Maximum Daily Load for nitrogen and phosphorus established in 2010 by the US EPA. These requirements are further specified in Maryland's Phase II Watershed Implementation Plan, as well as, the Municipal Separate Storm Sewer discharge (MS4) permit issued to Howard County, both issued by the Maryland Department of the Environment in support of the TMDL.

#### Remarks

1.Participation by residents and landscape service companies will be encouraged by outreach and education efforts and by cost sharing ESD implementation and landscaping modifications with property owners.

2.OTHER funding represents - A portion of current request represents funding to be generated from legislation CB-8 & CR21 for stormwater utility funding, known as Watershed Protection and Restoration fund.

3. Construction of some projects may be dependent upon donation of the necessary easements and-or property owner cost share participation.

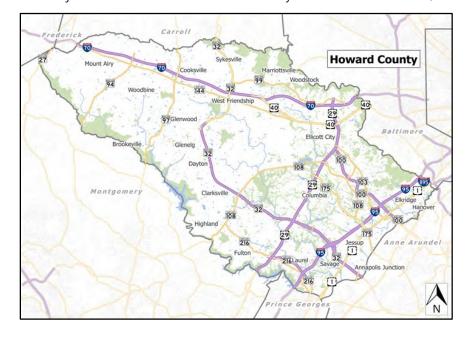
# **Project Schedule**

FY22 - Provide additional funding for Howard EcoWorks, formerly READY.

## **Operating Budget Impact**

No Operating Impact

FY2022 Bonds - Annual Debt Service Payment	0
FY2022 Bonds - 20-Year Total Debt Service Payment	0
Total Project Bonds - Annual Debt Service Payment	3,818
Total Project Bonds - 20-Year Total Debt Service Payment	76,355



# **Project: D1164-FY2013 COMMUNITY ENVIRONMENTAL PARTNERSHIPS**

(In Thousands)		Five	Year Ca	pital Prog	gram	Master Plan								
Appropriation Object Class	Prior Appr.	FY2022 Budget	Appr. Total	Fiscal 2023	Fiscal 2024	Fiscal 2025	Fiscal 2026	Fiscal 2027	Sub Total	Fiscal 2028	Fiscal 2029	Fiscal 2030	Fiscal 2031	Total Project
PLANS & ENGINEERING	700	0	700	0	0	0	0	0	0	0	0	0	0	700
CONSTRUCTION	4,000	400	4,400	400	400	0	0	0	800	0	0	0	0	5,200
Total Expenditures	4,700	400	5,100	400	400	0	0	0	800	0	0	0	0	5,900
BONDS	50	0	50	0	0	0	0	0	0	0	0	0	0	50
OTHER SOURCES	0	400	400	400	400	0	0	0	800	0	0	0	0	1,200
PAY AS YOU GO	1,400	0	1,400	0	0	0	0	0	0	0	0	0	0	1,400
STORMWATER UTILTY FUNDING	3,250	0	3,250	0	0	0	0	0	0	0	0	0	0	3,250
Total Funding	4,700	400	5,100	400	400	0	0	0	800	0	0	0	0	5,900

\$4,475,000 spent and encumbered through February 2021 \$4,075,000 spent and encumbered through February 2020 Project Status

Provided partial funding for READY grant, a.k.a. Howard EcoWorks.

Performed concept grading, soil borings, and survey for Ellicott City Parking Lot E.

Performed design & construction for Savage Library water quality enhancements.

Howard EcoWorks performed BMP maintenance and construction of rain gardens and bioretention areas.

FY 2021 Budget	4,700	400	5,100	400	400	400	400	0	1,600	0	0	0		6,700
Difference 2021 / 2022	0	0	0	0	0	(400)	(400)	0	(800)	0	0	0	0	(800)

# Project: D1165-FY2013 FLOOD MITIGATION and STORMWATER/WATERWAY ENHANCEMENT

#### Description

This project is for the study, design, and construction of flood mitigation and stormwater waterway enhancement efforts in downtown Ellicott City. Projects may include drainage improvements, stormwater retrofits, flood control, stream improvements, and design of additional drainage facilities.

## **Justification**

Ellicott City has the potential to suffer significant flood damage.

#### Remarks

1.FY21 GRANT represents anticipated additional Hazard Mitigation Grant Program funding 8600 Main Street culvert project.

2.OTHER SOURCES represents Stormwater Bonds backed by Watershed Protection and Restoration fund.

3. Construction of some projects may be dependent upon donation of the necessary easements and-or property owner cost share participation.

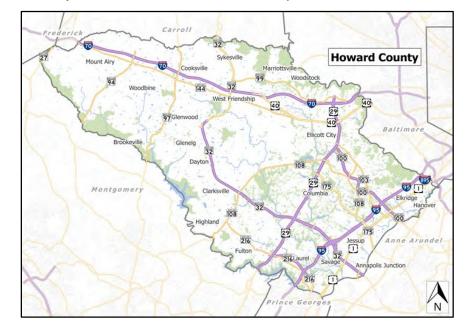
# **Project Schedule**

FY22 - Design H-4 pond project and construct channel from Courthouse Drive to Lot F.

# **Operating Budget Impact**

No Operating Impact

FY2022 Bonds - Annual Debt Service Payment 0
FY2022 Bonds - 20-Year Total Debt Service Payment 0
Total Project Bonds - Annual Debt Service Payment 320,690
Total Project Bonds - 20-Year Total Debt Service Payment 6,413,800



# Project: D1165-FY2013 FLOOD MITIGATION and STORMWATER/WATERWAY ENHANCEMENT

(In Thousands)	Five Year Capital Program									Master Plan							
Appropriation Object Class	Prior Appr.	FY2022 Budget	Appr. Total	Fiscal 2023	Fiscal 2024	Fiscal 2025	Fiscal 2026	Fiscal 2027	Sub Total	Fiscal 2028	Fiscal 2029	Fiscal 2030	Fiscal 2031	Total Project			
PLANS & ENGINEERING	2,825	0	2,825	0	0	0	0	0	0	0	0	0	0	2,825			
LAND ACQUISITION	1,000	0	1,000	0	0	0	0	0	0	0	0	0	0	1,000			
CONSTRUCTION	17,187	0	17,187	0	0	0	0	0	0	0	0	0	0	17,187			
ADMINISTRATION	250	0	250	0	0	0	0	0	0	0	0	0	0	250			
Total Expenditures	21,262	0	21,262	0	0	0	0	0	0	0	0	0	0	21,262			
BONDS	4,200	0	4,200	0	0	0	0	0	0	0	0	0	0	4,200			
GRANTS	6,787	0	6,787	0	0	0	0	0	0	0	0	0	0	6,787			
OTHER SOURCES	5,400	0	5,400	0	0	0	0	0	0	0	0	0	0	5,400			
PAY AS YOU GO	2,475	0	2,475	0	0	0	0	0	0	0	0	0	0	2,475			
STORMWATER UTILTY FUNDING	2,400	0	2,400	0	0	0	0	0	0	0	0	0	0	2,400			
Total Funding	21,262	0	21,262	0	0	0	0	0	0	0	0	0	0	21,262			

#### \$17,243,848 spent and encumbered through February 2021

# \$16,670,753 spent and encumbered through February 2020

**Project Status** Preliminary assessment - Howard Bldg and Court House parking lot SWM, Emory St|Church Rd|Maryland Ave|St Paul St drainage improvement. Design initiated - Historic Colored School slope repair, Pond T1, Pond H7, 8600 Main Street culvert.

Construction completed - Parking Lot B WQ improvements, Parking Lot E, Ellicott Mills Dr culvert, New Cut Road slope repair.

Post July 2016 Flood Damage Repairs - Maplewood pond, Ellicott Mills Brewery wall, Precious Gifts wall, Hi Ho Silver wall, Lot E to Lot F wall, 8659 Main St, Parking Lot E NE corner wall, Main St wall at 84-inch culvert, stream channel woody debris removal.

Studies - 2D H&H model after TS Lee, July 2016, May 2018 flood events, Tiber Branch Watershed, Corps of Engineers Floodproofing Report.

FY 2021 Budget	21,262	5,200	26,462	0	0	0	0	0	0	0	0	0		26,462
Difference 2021 / 2022	0	(5,200)	(5,200)	0	0	0	0	0	0	0	0	0	0	(5,200)

1. TAO 1-2017 transferred \$550,000 Grant revenue to D1158. 2. CB 3-2017 added \$1,700,000 in Pay as you Go funding for unanticipated expenses related to Ellicott City flood response and recovery efforts.

# **Project: D1168-FY2015 MORGAN WOODBINE ROAD SLOPE STABILIZATION**

#### Description

A project to design and construct stabilization of the roadway embankment of Morgan Woodbine Road adjacent to the South Branch of the Patapsco River.

#### **Justification**

The roadway embankment is being eroded by the force of the river adjacent to the roadway. Previous attempts to stabilize the embankment have only been successful on a temporary basis. This project will develop a permanent stabilization. Project requested by the Bureau of Highways.

#### Remarks

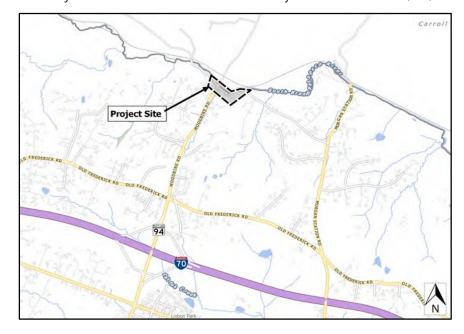
#### **Project Schedule**

FY27 - Construction

#### **Operating Budget Impact**

Estimated annual maintenance costs upon completion: Decrease.

FY2022 Bonds - Annual Debt Service Payment	0
FY2022 Bonds - 20-Year Total Debt Service Payment	0
Total Project Bonds - Annual Debt Service Payment	70,628
Total Project Bonds - 20-Year Total Debt Service Payment	1,412,563



# **Project: D1168-FY2015 MORGAN WOODBINE ROAD SLOPE STABILIZATION**

(In Thousands)		Five Year Capital Program								Master Plan						
Appropriation Object Class	Prior Appr.	FY2022 Budget	Appr. Total	Fiscal 2023	Fiscal 2024	Fiscal 2025	Fiscal 2026	Fiscal 2027	Sub Total	Fiscal 2028	Fiscal 2029	Fiscal 2030	Fiscal 2031	Total Project		
PLANS & ENGINEERING	200	0	200	0	0	0	0	50	50	0	0	0	0	250		
LAND ACQUISITION	25	0	25	0	0	0	0	0	0	0	0	0	0	25		
CONSTRUCTION	0	0	0	0	0	0	0	650	650	0	0	0	0	650		
Total Expenditures	225	0	225	0	0	0	0	700	700	0	0	0	0	925		
BONDS	225	0	225	0	0	0	0	700	700	0	0	0	0	925		
Total Funding	225	0	225	0	0	0	0	700	700	0	0	0	0	925		

\$112,466 spent and encumbered through February 2021 \$112,366 spent and encumbered through February 2020

**Project Status** FY21 - Land acquisition in progress.

FY 2021 Budget	225	0	225	0	0	0	0	700	700	0	0	0		925
Difference 2021 / 2022	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Project schedule|funding changed due to funding constraint.

# Project: D1169-FY2016 STORM DRAIN CULVERT REPLACEMENT PROGRAM

#### Description

This program will provide for the repair and replacement of failed storm drain pipes and culverts. The County's storm drain infrastructure is aging and many of the metal pipe culverts installed from 1960 through the 1990s have reached the end of their service life. Currently no asset inventory with condition assessment exists; therefore no funding is programmed to systematic replacement of these pipes and culverts. The program will provide for emergency culvert repair and replacement and funding assist in the development of an asset inventory program to better forecast future replacement needs. The program includes: storm water pipe and culvert repair and replacement of metal, HDPE, and concrete in less than six (6) feet in roadway longitudinal length, headwalls, end sections, replacement, or extension of culverts to assure positive flow of storm water and channeling of storm water into existing ditch lines or structures. Repairs include roadside pipe and culvert end treatment safety improvements to eliminate safety hazards. This project will not change the location or size of existing storm drainage structures.

#### **Justification**

Program addresses emergency pipe replacement of aging metal, HDPE, and concrete pipes that have reached the end of their service life. Pipe failures have resulted in unacceptable levels of deep depressions, sinkholes, sediment build up, open pipe joints and metal pipe inverts. Poor existing storm drain conditions. Needed repairs will improve safety and reduce the potential for hazards and associated public inconvenience. Failure of a storm drain pipe will require emergency repairs at much higher prices. This program will also provide some funding towards the development of an asset inventory of the storm drain system, including pipe and culvert conditions for future funding forecasting.

#### Remarks

County owns and maintains approximately 3,543,100 linear feet (671 miles) of storm drains and approximately 13,000 each of storm drain inlet structures.

#### **Project Schedule**

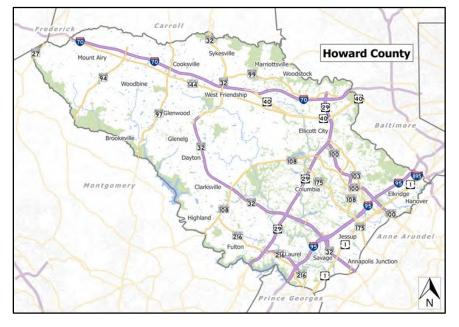
Approximately 0.3 mile of storm drains (depends on the depth of deteriorated storm drains) replaced per \$1M budgeted.

Close at program completion

#### **Operating Budget Impact**

No Operating Impact

FY2022 Bonds - Annual Debt Service Payment	171,798
FY2022 Bonds - 20-Year Total Debt Service Payment	3,435,964
Total Project Bonds - Annual Debt Service Payment	2,031,037
Total Project Bonds - 20-Year Total Debt Service Payment	40,620,730



#### **Explanation of Changes**

Project includes cost updates for all years based on actual estimated project costs.

# **Project: D1169-FY2016 STORM DRAIN CULVERT REPLACEMENT PROGRAM**

(In Thousands)				Five Year Capital Program							Master Plan						
Appropriation Object Class	Prior Appr.	FY2022 Budget	Appr. Total	Fiscal 2023	Fiscal 2024	Fiscal 2025	Fiscal 2026	Fiscal 2027	Sub Total	Fiscal 2028	Fiscal 2029	Fiscal 2030	Fiscal 2031	Total Project			
PLANS & ENGINEERING	500	0	500	0	0	0	0	0	0	0	0	0	0	500			
CONSTRUCTION	4,600	2,250	6,850	2,250	2,250	2,100	2,350	2,300	11,250	2,000	2,000	2,000	2,000	26,100			
Total Expenditures	5,100	2,250	7,350	2,250	2,250	2,100	2,350	2,300	11,250	2,000	2,000	2,000	2,000	26,600			
BONDS	5,100	2,250	7,350	2,250	2,250	2,100	2,350	2,300	11,250	2,000	2,000	2,000	2,000	26,600			
Total Funding	5,100	2,250	7,350	2,250	2,250	2,100	2,350	2,300	11,250	2,000	2,000	2,000	2,000	26,600			

\$4,555,188 spent and encumbered through February 2021 \$4,179,463 spent and encumbered through February 2020 Project Status

FY 2021 Budget	5,100	2,000	7,100	2,000	2,000	2,000	2,000	2,000	10,000	2,000	2,000	2,000		23,100
Difference 2021 / 2022	0	250	250	250	250	100	350	300	1,250	0	0	0	2,000	3,500

# Project: D1175-FY-2018 VALLEY MEDE/CHATHAM FLOOD MITIGATION

#### Description

This project is for the study, design and construction of flood mitigation and stormwater waterway improvement efforts in the Valley Mede and Chatham subwatersheds. Projects may include drainage improvements, stormwater retrofits, flood control, stream improvements, and design of additional drainage facilities.

#### **Justification**

Valley Mede and Chatham subwatersheds have the potential to suffer significant flood damage.

#### Remarks

- 1. Future years, once projects cost-benefits determined, apply for FEMA grants 2.OTHER SOURCES represents Stormwater Bonds backed by Watershed Protection and Restoration fund, plus funds provided to County through Memorandums of Understanding for cost sharing with MD State Highway Administration.
- 3. Construction of some projects may be dependent upon donation of the necessary easements and-or property owner cost share participation.

#### **Project Schedule**

FY22 - Continue design and construction of projects identified in Plumtree-Little Plumtree study including North Chatham Rd drainage project (MSHA cost share), Michaels Way drainage improvements, and culvert upgrades.

#### **Operating Budget Impact**

No Operating Impact

FY2022 Bonds - Annual Debt Service Payment	53,448
FY2022 Bonds - 20-Year Total Debt Service Payment	1,068,967
Total Project Bonds - Annual Debt Service Payment	320,690
Total Project Bonds - 20-Year Total Debt Service Payment	6,413,800



# **Explanation of Changes**

FY21 budget projection includes funding construction in FY22 for projects under design and permitting in FY21.

# Project: D1175-FY-2018 VALLEY MEDE/CHATHAM FLOOD MITIGATION

(In Thousands)		Five	Year Ca	pital Prog	Master Plan									
Appropriation Object Class	Prior Appr.	FY2022 Budget	Appr. Total	Fiscal 2023	Fiscal 2024	Fiscal 2025	Fiscal 2026	Fiscal 2027	Sub Total	Fiscal 2028	Fiscal 2029	Fiscal 2030	Fiscal 2031	Total Project
PLANS & ENGINEERING	950	0	950	0	0	0	0	0	0	0	0	0	0	950
LAND ACQUISITION	2,500	0	2,500	0	0	0	0	0	0	0	0	0	0	2,500
CONSTRUCTION	2,900	700	3,600	0	0	0	0	0	0	0	0	0	0	3,600
ADMINISTRATION	50	0	50	0	0	0	0	0	0	0	0	0	0	50
Total Expenditures	6,400	700	7,100	0	0	0	0	0	0	0	0	0	0	7,100
BONDS	3,500	700	4,200	0	0	0	0	0	0	0	0	0	0	4,200
OTHER SOURCES	2,900	0	2,900	0	0	0	0	0	0	0	0	0	0	2,900
Total Funding	6,400	700	7,100	0	0	0	0	0	0	0	0	0	0	7,100

# \$4,036,271 spent and encumbered through February 2021

# \$2,618,459 spent and encumbered through February 2020

**Project Status** Constructed Longview stream project and Greenway Drive storm drain improvements.

Design Paulskirk Drive, Greenway Drive, Michaels Way storm drain improvements.

Assess Valley Mede roadway culverts and begin design.

Assess North Chatham channel and drainage improvements and begin design.

Acquired 9509, 9513 and 9514 Longview Drive and 9520 Frederick Road and removed houses. Acquired 9506 Longview Drive.

FY 2021 Budget	6,400	1,000	7,400	1,000	1,000	0	0	0	2,000	0	0	0		9,400
Difference 2021 / 2022	0	(300)	(300)	(1,000)	(1,000)	0	0	0	(2,000)	0	0	0	0	(2,300)

TAO #1-2019 transfers in \$1,000,000. FY20 budget request increased slightly from what was projected for FY20 in the FY19 budget request due to the identification of specific projects and initial design work performed during FY19.

# **Fiscal 2022 Capital Budget**

#### STORM DRAINAGE PROJECTS

### **Project: D1176-WATERSHED MANAGEMENT CONSTRUCTION**

#### Description

This project is for design and construction of stormwater facility improvements. The project will include NPDES stormwater management implementation requirements, floodplain studies, including retrofitting of stormwater management ponds, restoration and certification of detention basins, continued improvement of flood alert systems, streambank restoration including bio-engineering, water quality devices (such as wetlands), storm drainage and storm drain outfall stabilization, channel restoration and water quality monitoring studies.

#### **Justification**

- 1. NPDES Program is required by EPA and MDE under the Clean Water Act.
- 2. Watershed management of floodplains is needed to provide additional protection for older communities.
- 3. Erosion of tributaries of the Patapsco and Patuxent Rivers needs to be addressed.

#### Remarks

- 1. This project replaces D-1158.
- 2.GRANT funds include local implementation grant from Chesapeake and Atlantic Coastal Bays 2010 Trust Fund, Economic Development Administration, and FEMA.
- 3.A portion of current request represents funding to be generated from legislation CB-8 and CR21 for stormwater utility funding, known as Watershed Protection and Restoration fund.
- 4.OTHER SOURCES represent Stormwater Bonds backed by Watershed Protection and Restoration fund, plus funds provided to County through Memorandums of Understandings for cost sharings.
- 5. Construction of some projects may be dependent upon donation of the necessary easements and-or property owner cost share participation.

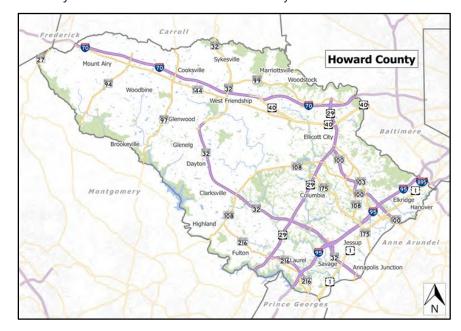
#### **Project Schedule**

FY22 - Construction: Mellen Court, Woodcrest Drive, Sunny Field Court. Post Construction Monitoring: Multiple sites. Storm Drain Verification & GIS update. Design: New Cut Road stream.

#### **Operating Budget Impact**

No Operating Impact

FY2022 Bonds - Annual Debt Service Payment	0
FY2022 Bonds - 20-Year Total Debt Service Payment	0
Total Project Bonds - Annual Debt Service Payment	0
Total Proiect Bonds - 20-Year Total Debt Service Payment	0



# **Project: D1176-WATERSHED MANAGEMENT CONSTRUCTION**

(In Thousands)					Five	Year Cap	oital Prog	gram				Master F	Plan	
Appropriation Object Class	Prior Appr.	FY2022 Budget	Appr. Total	Fiscal 2023	Fiscal 2024	Fiscal 2025	Fiscal 2026	Fiscal 2027	Sub Total	Fiscal 2028	Fiscal 2029	Fiscal 2030	Fiscal 2031	Total Project
PLANS & ENGINEERING	1,100	400	1,500	200	200	0	0	0	400	0	0	0	0	1,900
LAND ACQUISITION	100	0	100	0	0	0	0	0	0	0	0	0	0	100
CONSTRUCTION	6,200	3,600	9,800	3,000	1,800	1,200	0	0	6,000	0	0	0	0	15,800
ADMINISTRATION	100	0	100	0	0	0	0	0	0	0	0	0	0	100
Total Expenditures	7,500	4,000	11,500	3,200	2,000	1,200	0	0	6,400	0	0	0	0	17,900
GRANTS	2,000	1,800	3,800	1,000	1,000	1,000	0	0	3,000	0	0	0	0	6,800
OTHER SOURCES	4,300	2,200	6,500	2,200	1,000	200	0	0	3,400	0	0	0	0	9,900
STORMWATER UTILTY FUNDING	1,200	0	1,200	0	0	0	0	0	0	0	0	0	0	1,200
Total Funding	7,500	4,000	11,500	3,200	2,000	1,200	0	0	6,400	0	0	0	0	17,900

\$3,241,009 spent and encumbered through February 2021

\$1,481,353 spent and encumbered through February 2020

Project Status New capital project to replace D1158.

Design initiated - Bonnie Branch Phase 2, Pirch Way, Valley Road storm drain, Wharffs Lane.

Construction initiated - Old Willow Way Phase 2. Post construction monitoring performed for multiple projects.

Construction complete - Pirch Way, Valley Road storm drain, Cherry Tree Farms, Sucker Branch Trib 2|5.

FY 2021 Budget	7,500	2,500	10,000	2,500	3,000	3,400	3,400	0	12,300	0	0	0		22,300
Difference 2021 / 2022	0	1,500	1,500	700	(1,000)	(2,200)	(3,400)	0	(5,900)	0	0	0	0	(4,400)

# **Project: D1177-STORMWATER MANAGEMENT FACILITY RECONSTRUCTION**

#### Description

A fund for Howard County to undertake construction or repairs to stormwater management on an as-needed basis meeting the provisions of the County Code. This program is envisioned to provide rapid assistance in emergency situations.

#### **Justification**

Howard County Code Section 18.900, which requires inspection and maintenance of storm water management facilities. Metal pipe pond barrels are deteriorating as they reach the end of their expected life and need to be repaired or replaced. Sediment that has accumulated in ponds needs to be dredged.

#### Remarks

- 1. This project replaces D-1159.
- 2.A portion of current request represents funding to be generated from legislation CB-8  $\,\&$  CR21 for stormwater utility funding, known as Watershed Protection and Restoration fund.
- 3. Construction of some projects many be dependent upon donation of the necessary easements and-or property owner cost share participation.
- 4.OTHER SOURCES represents Stormwater Bonds backed by Watershed Protection and Restoration fund.

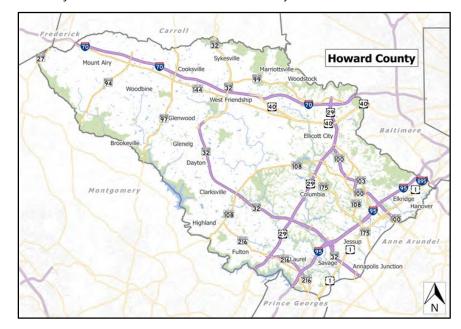
#### **Project Schedule**

- FY22 Design: 3 stormwater management pond outlet structure repairs-replacements
- FY22 Construction: 7 stormwater management pond outlet structure repairs-replacements

#### **Operating Budget Impact**

No Operating Impact

FY2022 Bonds - Annual Debt Service Payment	0
FY2022 Bonds - 20-Year Total Debt Service Payment	0
Total Project Bonds - Annual Debt Service Payment	15,271
Total Project Bonds - 20-Year Total Debt Service Payment	305,419



# **Project: D1177-STORMWATER MANAGEMENT FACILITY RECONSTRUCTION**

(In Thousands)					Five	Year Cap	oital Prog	ıram				Master F	Plan	
Appropriation Object Class	Prior Appr.	FY2022 Budget	Appr. Total	Fiscal 2023	Fiscal 2024	Fiscal 2025	Fiscal 2026	Fiscal 2027	Sub Total	Fiscal 2028	Fiscal 2029	Fiscal 2030	Fiscal 2031	Total Project
PLANS & ENGINEERING	600	600	1,200	400	400	200	0	0	1,000	0	0	0	0	2,200
LAND ACQUISITION	100	0	100	0	0	0	0	0	0	0	0	0	0	100
CONSTRUCTION	10,400	8,500	18,900	6,600	4,200	1,300	0	0	12,100	0	0	0	0	31,000
ADMINISTRATION	200	0	200	0	0	0	0	0	0	0	0	0	0	200
Total Expenditures	11,300	9,100	20,400	7,000	4,600	1,500	0	0	13,100	0	0	0	0	33,500
BONDS	200	0	200	0	0	0	0	0	0	0	0	0	0	200
GRANTS	0	1,500	1,500	0	0	0	0	0	0	0	0	0	0	1,500
OTHER SOURCES	6,100	7,600	13,700	7,000	4,600	1,500	0	0	13,100	0	0	0	0	26,800
STORMWATER UTILTY FUNDING	5,000	0	5,000	0	0	0	0	0	0	0	0	0	0	5,000
Total Funding	11,300	9,100	20,400	7,000	4,600	1,500	0	0	13,100	0	0	0	0	33,500

\$5,331,611 spent and encumbered through February 2021 \$3,413,984 spent and encumbered through February 2020

Project Status New capital project to replace D1159.

Design initiated - Whiskey Bottom West, Scottswood Court

Construction initiated - Cardinal Forest, Mayfield Manor, Nottingham Village.

Construction complete - Strawberry Fields, Hi Tech Road, Autumn Manor, Woodcrest, Calvert Ridge.

FY 2021 Budget	11,300	1,700	13,000	1,700	700	1,200	1,100	0	4,700	0	0	0		17,700
Difference 2021 / 2022	0	7,400	7,400	5,300	3,900	300	(1,100)	0	8,400	0	0	0	0	15,800

# **Project: D1178-STORMWATER MANAGEMENT RETROFITS**

#### Description

A project for the retrofit of stormwater management facilities to include water quality management.

#### **Justification**

Numerous facilities built in the early period of stormwater management provide only water quantity management. Howard County's Stormwater Management NPDES permit requires the County to improve water quality, in part, through retrofitting existing facilities designed only for water quantity management.

#### Remarks

- 1. This project replaces D-1160.
- 2.A portion of request represents funding to be generated from legislation CB-8 and CR21 for stormwater utility funding, known as Watershed Protection and Restoration fund.3.OTHER SOURCES represent Stormwater Bonds backed by Watershed Protection and Restoration fund, plus funds provided to County through Memorandum of Understanding of cost sharing.
- 4. Construction of some projects may be dependent upon donation of the necessary easements and-or property owner cost share participation.

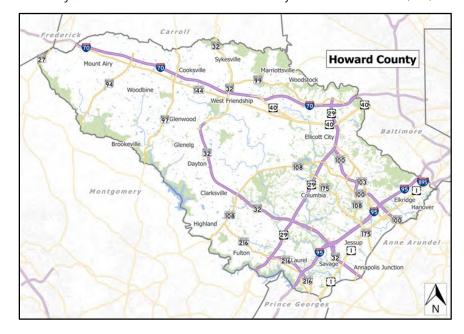
#### **Project Schedule**

FY22 - Complete construction of Sewells Orchard pond.

#### **Operating Budget Impact**

No Operating Impact

FY2022 Bonds - Annual Debt Service Payment 0
FY2022 Bonds - 20-Year Total Debt Service Payment 0
Total Project Bonds - Annual Debt Service Payment 755,912
Total Project Bonds - 20-Year Total Debt Service Payment 15,118,242



# **Project: D1178-STORMWATER MANAGEMENT RETROFITS**

(In Thousands)					Five	Year Ca	oital Prog	ıram				Master P	lan	
Appropriation Object Class	Prior	FY2022	Appr.	Fiscal	Fiscal	Fiscal	Fiscal	Fiscal	Sub	Fiscal	Fiscal	Fiscal	Fiscal	Total
	Appr.	Budget	Total	2023	2024	2025	2026	2027	Total	2028	2029	2030	2031	Project
PLANS & ENGINEERING	300	0	300	100	100	100	100	100	500	100	100	100	100	1,200
LAND ACQUISITION	100	0	100	0	0	0	0	0	0	0	0	0	0	100
CONSTRUCTION	2,250	0	2,250	1,000	1,000	1,000	1,000	1,000	5,000	1,000	1,000	1,000	1,000	11,250
ADMINISTRATION	50	0	50	0	0	0	0	0	0	0	0	0	0	50
Total Expenditures	2,700	0	2,700	1,100	1,100	1,100	1,100	1,100	5,500	1,100	1,100	1,100	1,100	12,600
BONDS	0	0	0	1,100	1,100	1,100	1,100	1,100	5,500	1,100	1,100	1,100	1,100	9,900
OTHER SOURCES	2,700	0	2,700	0	0	0	0	0	0	0	0	0	0	2,700
Total Funding	2,700	0	2,700	1,100	1,100	1,100	1,100	1,100	5,500	1,100	1,100	1,100	1,100	12,600

\$525,838 spent and encumbered through February 2021 \$24,525 spent and encumbered through February 2020

**Project Status** New capital project to replace D1160.

Construction initiated - Sewells Orchard pond.

Construction complete - Gwynn Park Drive outfall, Carrigan Drive outfall.

FY 2021 Budget	2,700	0	2,700	0	500	500	500	0	1,500	0	0	0		4,200
Difference 2021 / 2022	0	0	0	1,100	600	600	600	1,100	4,000	1,100	1,100	1,100	1,100	8,400

# **Project: D1180 - FY2021 TIBER WATERSHED IMPROVEMENTS**

#### Description

A project for the design and construction of varying sized drainage and stormwater management projects within the Tiber Watershed.

#### **Justification**

This watershed was significantly impacted by recent flooding events. Additionally, many of the existing drainage conveyance systems have reached the end of their useful service life and need to be replaced. Much of the development within the watershed predates current storm water management requirements. This program will address these issues.

#### Remarks

- 1. Construction of some projects may be dependent upon donations from adjacent property owners.
- 2. This program implements recommendations from study done under CB56-2018.

#### **Project Schedule**

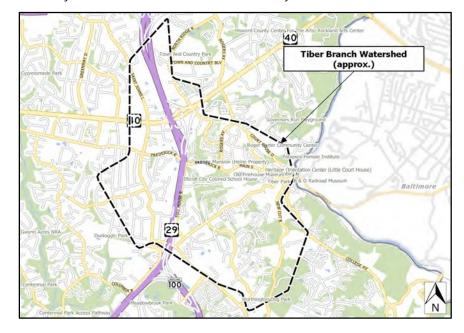
FY22 - Design and construction

FY23 - Construction

#### **Operating Budget Impact**

No Operating Impact

FY2022 Bonds - Annual Debt Service Payment 0
FY2022 Bonds - 20-Year Total Debt Service Payment 0
Total Project Bonds - Annual Debt Service Payment 76,355
Total Project Bonds - 20-Year Total Debt Service Payment 1,527,095



# **Project: D1180 - FY2021 TIBER WATERSHED IMPROVEMENTS**

(In Thousands)					Five	Year Cap				Master P	lan			
Appropriation Object Class	Prior Appr.	FY2022 Budget	Appr. Total	Fiscal 2023	Fiscal 2024	Fiscal 2025	Fiscal 2026	Fiscal 2027	Sub Total	Fiscal 2028	Fiscal 2029	Fiscal 2030	Fiscal 2031	Total Project
PLANS & ENGINEERING	150	0	150	0	150	0	0	0	150	0	0	0	0	300
LAND ACQUISITION	100	0	100	0	0	0	0	0	0	0	0	0	0	100
CONSTRUCTION	250	0	250	0	350	0	0	0	350	0	0	0	0	600
Total Expenditures	500	0	500	0	500	0	0	0	500	0	0	0	0	1,000
BONDS	500	0	500	0	500	0	0	0	500	0	0	0	0	1,000
Total Funding	500	0	500	0	500	0	0	0	500	0	0	0	0	1,000

\$0 spent and encumbered through February 2021

**\$0** spent and encumbered through February 2020

**Project Status** FY21 – Design of various watershed improvements is underway

FY 2021 Budget	500	500	1,000	500	0	0	0	0	500	0	0	0		1,500
Difference 2021 / 2022	0	(500)	(500)	(500)	500	0	0	0	0	0	0	0	0	(500)

# **Project: D1181 - FY2021 PLUM TREE WATERSHED IMPROVEMENTS**

#### Description

A project for the design and construction of varying sized drainage and stormwater management projects within the Plum Tree Watershed.

#### **Justification**

This watershed was significantly impacted by recent flooding events. Additionally, many of the existing drainage conveyance systems have reached the end of their useful service life and need to be replaced. Much of the development within the watershed predates current storm water management requirements. This program will address these issues

#### Remarks

- 1. Construction of some projects may be dependent upon donations from adjacent property owners.
- 2. This program implements recommendations from study done under CB56-2018.

#### **Project Schedule**

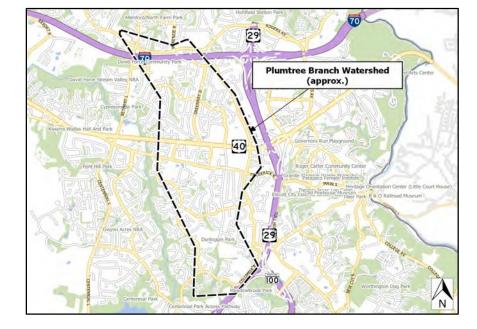
FY22 - Design and construction

FY23 - Construction

#### **Operating Budget Impact**

No Operating Impact

FY2022 Bonds - Annual Debt Service Payment 0
FY2022 Bonds - 20-Year Total Debt Service Payment 0
Total Project Bonds - Annual Debt Service Payment 61,084
Total Project Bonds - 20-Year Total Debt Service Payment 1,221,676



# **Project: D1181 - FY2021 PLUM TREE WATERSHED IMPROVEMENTS**

(In Thousands)					Five	Year Cap				Master P	lan			
Appropriation Object Class	Prior Appr.	FY2022 Budget	Appr. Total	Fiscal 2023	Fiscal 2024	Fiscal 2025	Fiscal 2026	Fiscal 2027	Sub Total	Fiscal 2028	Fiscal 2029	Fiscal 2030	Fiscal 2031	Total Project
PLANS & ENGINEERING	100	0	100	100	0	0	0	0	100	0	0	0	0	200
LAND ACQUISITION	50	0	50	0	0	0	0	0	0	0	0	0	0	50
CONSTRUCTION	250	0	250	300	0	0	0	0	300	0	0	0	0	550
Total Expenditures	400	0	400	400	0	0	0	0	400	0	0	0	0	800
BONDS	400	0	400	400	0	0	0	0	400	0	0	0	0	800
Total Funding	400	0	400	400	0	0	0	0	400	0	0	0	0	800

\$0 spent and encumbered through February 2021

**\$0** spent and encumbered through February 2020

**Project Status** FY21 – Design of various watershed improvements is underway

FY 2021 Budget	400	400	800	400	0	0	0	0	400	0	0	0		1,200
Difference 2021 / 2022	0	(400)	(400)	0	0	0	0	0	0	0	0	0	0	(400)

# **Project: D1182-FY2021 ORCHARD RIDGE DRAINAGE IMPROVEMENTS**

#### Description

This project is for the design and construction of drainage and stormwater management improvements in the Orchard Ridge community.

#### **Justification**

There are several locations of drainage conveyance issues in the vicinity of Hale Haven Drive and Carman Drive. Additionally, the adjacent tributary is severely eroding neighboring properties. Highways is unable to adequately maintain the area or address resident concerns.

#### Remarks

- 1.A study of the area was done to determine possible solutions for runoff and stream erosion in the area. This project will advance the recommended solutions.
- 2.Construction may be dependent upon donation of easements from adjacent property owners.
- 3. Request represents project advancement.

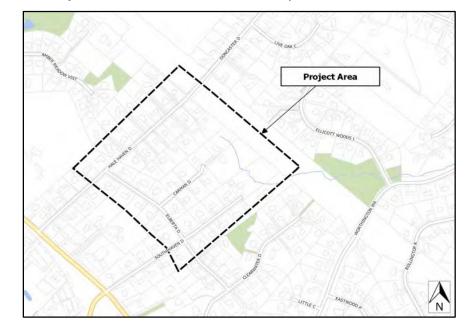
#### **Project Schedule**

- FY22 Land Acquisition and Construction along tributary
- FY23 Design, Land Acquisition and Construction along Hale Haven & Carman Drives.

#### **Operating Budget Impact**

Decrease.

FY2022 Bonds - Annual Debt Service Payment	38,177
FY2022 Bonds - 20-Year Total Debt Service Payment	763,548
Total Project Bonds - Annual Debt Service Payment	108,806
Total Project Bonds - 20-Year Total Debt Service Payment	2,176,111



# **Project: D1182-FY2021 ORCHARD RIDGE DRAINAGE IMPROVEMENTS**

(In Thousands)					Five	Year Cap	oital Prog	gram				Master P	ter Plan		
Appropriation Object Class	Prior Appr.	FY2022 Budget	Appr. Total	Fiscal 2023	Fiscal 2024	Fiscal 2025	Fiscal 2026	Fiscal 2027	Sub Total	Fiscal 2028	Fiscal 2029	Fiscal 2030	Fiscal 2031	Total Project	
PLANS & ENGINEERING	175	75	250	0	0	0	0	0	0	0	0	0	0	250	
LAND ACQUISITION	400	25	425	0	0	0	0	0	0	0	0	0	0	425	
CONSTRUCTION	0	400	400	350	0	0	0	0	350	0	0	0	0	750	
Total Expenditures	575	500	1,075	350	0	0	0	0	350	0	0	0	0	1,425	
BONDS	575	500	1,075	350	0	0	0	0	350	0	0	0	0	1,425	
Total Funding	575	500	1,075	350	0	0	0	0	350	0	0	0	0	1,425	

\$78,721 spent and encumbered through February 2021

**\$0** spent and encumbered through February 2020

Project Status FY21 - Initial land acquisition complete. Design of diversion along BGE right-of-way underway along with requisite land acquisition

FY 2021 Budget	575	300	875	350	0	0	0	0	350	0	0	0		1,225
Difference 2021 / 2022	0	200	200	0	0	0	0	0	0	0	0	0	0	200

# ATTACHMENT 3: GENERAL FUND FY2022

	FY 2020	FY 2021	FY 2021		FY 2022		Approved vs.Pr Authorize	
Department	Actual	Authorized	Estimated	Base Budget	Budget	Total	Difference	%
3100 - Department of Public Works	1,312,492	1,291,115	1,159,818	1,213,761	116,300	1,330,061	38,946	3.02 %
01 - General Fund	1,312,492	1,291,115	1,159,818	1,213,761	116,300	1,330,061	38,946	3.02 %
50 - Personnel Costs	1,137,414	1,134,686	992,014	1,166,839	0	1,166,839	32,153	2.83 %
500100 - Salary-Regular	848,038	843,419	799,148	876,390	0	876,390	32,971	3.91 %
500140 - Disaster Recovery	0	0	0	0	0	0	0	0.00%
500900 - Salary-Overtime	107	0	0	0	0	0	0	0.00%
501100 - Benefits-FICA	62,818	63,679	41,887	66,214	0	66,214	2,535	3.98 %
501300 - Benefits-Health Insurance	128,070	128,070	85,380	120,825	0	120,825	(7,245)	-5.66 %
501500 - Benefits-Retirement	98,381	99,518	65,599	103,410	0	103,410	3,892	3.91 %
51 - Contractual Services	141,189	119,659	134,834	12,243	109,300	121,543	1,884	1.57 %
510200 - Telecommunications Wired	750	538	863	534	0	534	(4)	-0.74 %
510210 - Telecommunications Wireless	3,198	2,500	2,500	0	2,500	2,500	0	0.00 %
510300 - Printing	1,143	1,000	750	0	1,000	1,000	0	0.00 %
510400 - Advertising & Clipping Service	0	0	0	0	0	0	0	0.00%
511500 - Industrial & InstitutionI Eq Maintenance	8,108	102,000	101,000	0	102,000	102,000	0	0.00 %
511900 - Software Maintenance	31,439	0	17,000	0	0	0	0	0.00%
512100 - Electricity	0	500	500	0	500	500	0	0.00 %
513100 - Mileage	0	0	0	0	300	300	300	100.00%
513110 - Ground Transportation	0	0	0	0	0	0	0	0.00%
513500 - Conferences & Seminar Fees	0	0	0	0	1,000	1,000	1,000	100.00%
514355 - Groundwater and Leachate Analysis Svcs	0	0	0	0	0	0	0	0.00%
514700 - Data Processing Services	12,939	11,121	11,121	11,709	0	11,709	588	5.29 %

Run Date: 6/17/2021 Budget Year: 2022 Version: Approved

	FY 2020	FY 2021	FY 2021		FY 2022		Approved vs.Pri Authorize	
Department	Actual	Authorized	Estimated	Base Budget	Budget	Total	Difference	%
514820 - Inspection Services	1,022	0	0	0	0	0	0	0.00%
515900 - Other Contractual Services	72,679	0	0	0	0	0	0	0.00%
515950 - Training Services	1,040	2,000	1,100	0	2,000	2,000	0	0.00 %
516190 - Other Donations	8,871	0	0	0	0	0	0	0.00%
516820 - Association & Membership Dues	0	0	0	0	0	0	0	0.00%
52 - Supplies and Materials	5,517	7,000	3,200	0	7,000	7,000	0	0.00 %
520100 - Office Supplies	975	2,000	1,000	0	2,000	2,000	0	0.00 %
520200 - Data Processing Equipment & Supplies	2,619	0	0	0	0	0	0	0.00%
521720 - Household Supplies	1,923	5,000	2,200	0	5,000	5,000	0	0.00 %
53 - Capital Outlay	0	0	0	0	0	0	0	0.00%
530500 - Capital Outlay-Equipment	0	0	0	0	0	0	0	0.00%
58 - Expense Other	28,372	29,770	29,770	34,679	0	34,679	4,909	16.49 %
581050 - Direct Cost Conversion-Vehicle Charges	28,372	29,770	29,770	34,679	0	34,679	4,909	16.49 %
Total Budget	1,312,492	1,291,115	1,159,818	1,213,761	116,300	1,330,061	\$38,946	3.02 %

# ATTACHMENT 4: WATERSHED PROTECTION AND RESTORATION FUND FY2022 – DPW

	FY 2020	FY 2021	FY 2021		FY 2022		Approved vs.Pr Authorize	
Department	Actual	Authorized	Estimated	Base Budget	Budget	Total	Difference	%
3100 - Department of Public Works	6,645,333	14,406,653	14,305,935	946,149	6,093,462	7,039,611	(7,367,042)	-51.14 %
27 - Watershed Protection & Restoration Fund	6,645,333	14,406,653	14,305,935	946,149	6,093,462	7,039,611	(7,367,042)	-51.14 %
50 - Personnel Costs	681,875	697,600	686,482	716,835	0	716,835	19,235	2.76 %
500100 - Salary-Regular	490,580	501,250	500,367	522,916	0	522,916	21,666	4.32 %
500140 - Disaster Recovery	0	0	0	0	0	0	0	0.00%
501100 - Benefits-FICA	36,099	38,346	33,831	40,012	0	40,012	1,666	4.34 %
501300 - Benefits-Health Insurance	85,380	85,380	85,380	80,550	0	80,550	(4,830)	-5.66 %
501500 - Benefits-Retirement	56,729	59,141	53,906	61,698	0	61,698	2,557	4.32 %
501700 - Benefits-Workers Compensation	13,087	13,483	12,998	11,659	0	11,659	(1,824)	-13.53 %
51 - Contractual Services	1,393,863	1,415,118	1,325,518	212,128	1,319,000	1,531,128	116,010	8.20 %
510400 - Advertising & Clipping Service	916	80,000	1,000	0	80,000	80,000	0	0.00 %
511310 - Radio Maintenance	10,946	8,712	8,712	9,546	0	9,546	834	9.57 %
511500 - Industrial & InstitutionI Eq Maintenance	0	0	0	0	0	0	0	0.00%
513100 - Mileage	0	0	0	0	0	0	0	0.00%
513120 - Parking Fees	0	0	0	0	0	0	0	0.00%
514355 - Groundwater and Leachate Analysis Svcs	21,009	10,000	9,900	0	10,000	10,000	0	0.00 %
514700 - Data Processing Services	223,793	192,406	192,406	202,582	0	202,582	10,176	5.29 %
514820 - Inspection Services	609,912	600,000	600,000	0	600,000	600,000	0	0.00 %
515900 - Other Contractual Services	527,287	520,000	510,000	0	625,000	625,000	105,000	20.19 %
516820 - Association & Membership Dues	0	4,000	3,500	0	4,000	4,000	0	0.00 %
54 - Debt Service	351,976	1,432,518	1,432,518	0	1,377,830	1,377,830	(54,688)	-3.82 %
540100 - Interest Paid-Bonds-Other	108,264	620,408	620,408	0	723,070	723,070	102,662	16.55 %

Run Date: 6/17/2021 Budget Year: 2022 Version: Approved

	FY 2020	FY 2021	FY 2021		FY 2022		Approved vs.Pr Authorize	
Department	Actual	Authorized	Estimated	Base Budget	Budget	Total	Difference	%
540800 - Interest Paid-Loans-Assets	(154)	39,680	39,680	0	39,400	39,400	(280)	-0.71 %
543100 - Principal Expense Paid-Bonds-Other	243,712	621,835	621,835	0	464,480	464,480	(157,355)	-25.30 %
543800 - Principal Exp Pd-Loans-Assets	154	150,595	150,595	0	150,880	150,880	285	0.19 %
58 - Expense Other	267,619	220,037	220,037	17,186	3,396,632	3,413,818	3,193,781	1,451.47 %
581010 - Current Operating Cost Conversion	248,960	202,069	202,069	0	221,603	221,603	19,534	9.67 %
581059 - Direct Cost Conversion-GIS	15,919	17,472	17,472	16,686	0	16,686	(786)	-4.50 %
581097 - Indirect Cost Conversion	2,740	496	496	500	0	500	4	0.81 %
589800 - Appropriation To Fund Balance	0	0	0	0	3,175,029	3,175,029	3,175,029	100.00%
69 - Operating Transfers	3,950,000	10,641,380	10,641,380	0	0	0	(10,641,380)	-100.00 %
695000 - Operating Transfers Out-Budg-Other	3,950,000	10,641,380	10,641,380	0	0	0	(10,641,380)	-100.00 %
Total Budget	6,645,333	14,406,653	14,305,935	946,149	6,093,462	7,039,611	(\$7,367,042)	-51.14 %

# ATTACHMENT 5: WATERSHED PROTECTION AND RESTORATION FUND FY2022 – ALL

	FY 2020	FY 2021	FY 2021		FY 2022			Approved vs.Pr Authorize	
	Actual	Authorized	Estimated	Base Budget	Budget	New Efforts	Total	Difference	%
27 - Watershed Protection & Restoration Fund	9,018,048	17,167,659	16,984,757	1,564,032	8,306,318	0	9,870,350	(7,297,309)	-42.51 %
7360000000 - Watershed Protection & Restoration Fund	9,018,048	17,167,659	16,984,757	1,564,032	8,306,318	0	9,870,350	(7,297,309)	-42.51 %
1100 - Department of County Administration	868,550	1,238,204	1,166,428	307,180	976,141	0	1,283,321	45,117	3.64 %
1120000000 - Community Sustainability	868,550	1,238,204	1,166,428	307,180	976,141	0	1,283,321	45,117	3.64 %
99999999999999999999999999999999999999	868,550	1,238,204	1,166,428	307,180	976,141	0	1,283,321	45,117	3.64 %
50 - Personnel Costs	208,614	209,056	197,880	268,204	-48,403	0	219,801	10,745	5.14 %
500100 - Salary-Regular	143,093	145,419	142,215	190,820	-38,335	0	152,485	7,066	4.86 %
GGG00000000000	143,093	145,419	142,215	190,820	-38,335	0	152,485	7,066	4.86 %
Subtract 25% of Lindsay's & Julie's salary that is	funded by OCS Ge	neral Fund.							
500190 - Salary-Other	0	0	0	0	4,100	0	4,100	4,100	100.00%
GGG00000000000	0	0	0	0	4,100	0	4,100	4,100	100.00%
501100 - Benefits-FICA	9,306	11,125	10,874	14,596	-2,932	0	11,664	539	4.84 %
GGG00000000000	9,306	11,125	10,874	14,596	-2,932	0	11,664	539	4.84 %
Subtract 25% of Lindsay's & Julie's FICA that is f	funded by OCS Gen	eral Fund							
501300 - Benefits-Health Insurance	35,575	35,575	35,575	40,275	-6,713	0	33,562	(2,013)	-5.66 %
GGG00000000000	35,575	35,575	35,575	40,275	-6,713	0	33,562	(2,013)	-5.66 %
Subtract 25% of Lindsay's & Julie's Health Insura	ance that is funded	by OCS General Fui	nd.						
501500 - Benefits-Retirement	20,640	16,937	9,216	22,513	-4,523	0	17,990	1,053	6.22 %
GGG00000000000	20,640	16,937	9,216	22,513	-4,523	0	17,990	1,053	6.22 %

Subtract 25% of Lindsay's & Julie's Retirement that is funded by OCS General Fund.

	FY 2020	FY 2021	FY 2021		FY 2022			Approved vs.Pi Authoriz	
	Actual	Authorized	Estimated	Base Budget	Budget	New Efforts	Total	Difference	%
51 - Contractual Services	512,179	910,400	849,740	17,889	926,750	0	944,639	34,239	3.76 %
510300 - Printing	0	5,000	5,000	0	3,000	0	3,000	(2,000)	-40.00 %
GGG00000000000	0	5,000	5,000	0	3,000	0	3,000	(2,000)	-40.00 %
Innovation Grant Signage.									
512230 - Stormwater Reimbursement	131,052	330,000	270,000	0	250,000	0	250,000	(80,000)	-24.24 %
GGG000000000000	131,052	330,000	270,000	0	250,000	0	250,000	(80,000)	-24.24 %
Cleanscapes 150k, Septic Savers 100k									
513100 - Mileage	215	500	500	0	500	0	500	0	0.00 %
GGG00000000000	215	500	500	0	500	0	500	0	0.00 %
513120 - Parking Fees	114	100	100	0	100	0	100	0	0.00 %
GGG00000000000	114	100	100	0	100	0	100	0	0.00 %
513200 - Lodging	0	300	0	0	0	0	0	(300)	-100.00 %
GGG000000000000	0	300	0	0	0	0	0	(300)	-100.00 %
513500 - Conferences & Seminar Fees	489	2,500	2,500	0	2,000	0	2,000	(500)	-20.00 %
GGG00000000000	489	2,500	2,500	0	2,000	0	2,000	(500)	-20.00 %
514700 - Data Processing Services	0	16,990	16,990	17,889	0	0	17,889	899	5.29 %
GGG00000000000	0	16,990	16,990	17,889	0	0	17,889	899	5.29 %
515900 - Other Contractual Services	380,159	554,360	554,000	0	670,000	0	670,000	115,640	20.86 %
GGG00000000000	380,159	554,360	554,000	0	670,000	0	670,000	115,640	20.86 %
515950 - Training Services	150	500	500	0	1,000	0	1,000	500	100.00 %
GGG00000000000	150	500	500	0	1,000	0	1,000	500	100.00 %
516820 - Association & Membership Dues	0	150	150	0	150	0	150	0	0.00 %
GGG00000000000	0	150	150	0	150	0	150	0	0.00 %

	FY 2020	FY 2021	FY 2021		FY 2022			Approved vs.Pi Authoriz	
	Actual	Authorized	Estimated	Base Budget	Budget	New Efforts	Total	Difference	%
52 - Supplies and Materials	1,271	10,400	10,460	0	5,460	0	5,460	(4,940)	-47.50 %
520100 - Office Supplies	94	100	100	0	100	0	100	0	0.00 %
GGG00000000000	94	100	100	0	100	0	100	0	0.00 %
520250 - Software/Licenses	0	0	360	0	360	0	360	360	100.00%
GGG00000000000	0	0	360	0	360	0	360	360	100.00%
Basecamp - project management software									
520400 - Promotional Materials	0	10,000	10,000	0	5,000	0	5,000	(5,000)	-50.00 %
GGG00000000000	0	10,000	10,000	0	5,000	0	5,000	(5,000)	-50.00 %
521500 - Food Purchases	149	300	0	0	0	0	0	(300)	-100.00 %
GGGG00000000000	149	300	0	0	0	0	0	(300)	-100.00 %
521810 - Landscape and Soil Retention Materials	1,028	0	0	0	0	0	0	0	0.00%
GGG00000000000	1,028	0	0	0	0	0	0	0	0.009
58 - Expense Other	146,486	108,348	108,348	21,087	92,334	0	113,421	5,073	4.68 %
581010 - Current Operating Cost Conversion	124,480	84,195	84,195	0	92,334	0	92,334	8,139	9.67 %
GGG00000000000	124,480	84,195	84,195	0	92,334	0	92,334	8,139	9.67 %
581059 - Direct Cost Conversion-GIS	22,006	24,153	24,153	21,087	0	0	21,087	(3,066)	-12.69 %
GGG00000000000	22,006	24,153	24,153	21,087	0	0	21,087	(3,066)	-12.69 %
3100 - Department of Public Works	8,038,366	15,810,496	15,699,370	1,256,852	7,205,631	0	8,462,483	(7,348,013)	-46.48 %
3122000000 - Highways - Maintenance	1,393,033	1,403,843	1,393,435	310,703	1,112,169	0	1,422,872	19,029	1.36 %
99999999999999999999999999999999999999	1,393,033	1,403,843	1,393,435	310,703	1,112,169	0	1,422,872	19,029	1.36 %

	FY 2020	FY 2021	FY 2021		FY 2022			Approved vs.Pri Authorize	
	Actual	Authorized	Estimated	Base Budget	Budget	New Efforts	Total	Difference	%
50 - Personnel Costs	234,234	315,149	307,935	310,415	7,500	0	317,915	2,766	0.88 %
500100 - Salary-Regular	133,624	197,986	192,236	203,672	0	0	203,672	5,686	2.87 %
PWPW00000000000	0	0	0	0	0	0	0	0	0.00%
PWPWHMAD00000000	0	0	0	0	0	0	0	0	0.00%
PWPWHMSW0000000	133,624	197,986	192,236	203,672	0	0	203,672	5,686	2.87 %
500190 - Salary-Other	0	0	0	0	0	0	0	0	0.00%
PWPW000000000000	0	0	0	0	0	0	0	0	0.00%
PWPWHMAD00000000	0	0	0	0	0	0	0	0	0.00%
500900 - Salary-Overtime	3,878	7,500	6,996	0	7,500	0	7,500	0	0.00 %
PWPW00000000000	0	0	0	0	0	0	0	0	0.00%
PWPWHMAD00000000	0	0	0	0	0	0	0	0	0.00%
PWPWHMSW0000000	3,878	7,500	6,996	0	7,500	0	7,500	0	0.00 %
500940 - Disaster Recovery Overtime	0	0	0	0	0	0	0	0	0.00%
PWPWHMSW00000000	0	0	0	0	0	0	0	0	0.00%
501000 - Benefits-Pensions Paid	0	0	0	0	0	0	0	0	0.00%
PWPW00000000000	0	0	0	0	0	0	0	0	0.00%
501100 - Benefits-FICA	10,303	15,143	15,112	15,590	0	0	15,590	447	2.95 %
PWPW00000000000	0	0	0	0	0	0	0	0	0.00%
PWPWHMAD00000000	0	0	0	0	0	0	0	0	0.00%
PWPWHMSW00000000	10,303	15,143	15,112	15,590	0	0	15,590	447	2.95 %
501300 - Benefits-Health Insurance	71,150	71,150	71,150	67,125	0	0	67,125	(4,025)	-5.66 %
PWPWHMAD00000000	0	0	0	0	0	0	0	0	0.00%
PWPWHMSW0000000	71,150	71,150	71,150	67,125	0	0	67,125	(4,025)	-5.66 %

	FY 2020	FY 2021	FY 2021		FY 2022			Approved vs.Pri Authorize	
	Actual	Authorized	Estimated	Base Budget	Budget	New Efforts	Total	Difference	%
501500 - Benefits-Retirement	15,279	23,370	22,441	24,028	0	0	24,028	658	2.82 %
PWPWHMAD00000000	0	0	0	0	0	0	0	0	0.00%
PWPWHMSW0000000	15,279	23,370	22,441	24,028	0	0	24,028	658	2.82 %
51 - Contractual Services	896,339	820,303	819,445	288	820,000	0	820,288	(15)	0.00 %
510500 - Copier Charges	0	303	303	288	0	0	288	(15)	-4.95 %
PWPW000000000000	0	303	303	288	0	0	288	(15)	-4.95 %
511500 - Industrial & Institutionl Eq Maintenance	0	70,000	70,146	0	70,000	0	70,000	0	0.00 %
PWPWHMSW00000000	0	70,000	70,146	0	70,000	0	70,000	0	0.00 %
515215 - Uniform Rental	0	0	944	0	0	0	0	0	0.00%
PWPWHMSW00000000	0	0	944	0	0	0	0	0	0.00%
515780 - Construction Site Work	877,841	0	0	0	0	0	0	0	0.00%
PWPW00000000000	437,852	0	0	0	0	0	0	0	0.00%
PWPWHMRM00000000	0	0	0	0	0	0	0	0	0.00%
PWPWHMSW0000000	439,989	0	0	0	0	0	0	0	0.00%
515790 - Other Construction Services	0	250,000	250,000	0	250,000	0	250,000	0	0.00 %
PWPWHMSW00000000	0	250,000	250,000	0	250,000	0	250,000	0	0.00 %
515900 - Other Contractual Services	18,498	500,000	498,052	0	500,000	0	500,000	0	0.00 %
PWPWHMSW00000000	18,498	500,000	498,052	0	500,000	0	500,000	0	0.00 %
52 - Supplies and Materials	0	100,000	97,664	0	100,000	0	100,000	0	0.00 %
520550 - Ticket Purchases	0	0	357	0	0	0	0	0	0.00%
PWPWHMSW0000000	0	0	357	0	0	0	0	0	0.00%
520900 - Safety Equipment & Supplies	0	0	1,800	0	0	0	0	0	0.00%
PWPWHMSW0000000	0	0	1,800	0	0	0	0	0	0.00%

	FY 2020	FY 2021	FY 2021		FY 2022			Approved vs.Pr Authoriz	
	Actual	Authorized	Estimated	Base Budget	Budget	New Efforts	Total	Difference	%
521730 - Hardware & Related Supplies	0	0	3,513	0	0	0	0	0	0.009
PWPWHMSW0000000	0	0	3,513	0	0	0	0	0	0.009
521750 - Plumbing Equipment & Supplies	0	100,000	80,000	0	100,000	0	100,000	0	0.00 %
PWPWHMSW0000000	0	100,000	80,000	0	100,000	0	100,000	0	0.00 %
521800 - Seed	0	0	1,200	0	0	0	0	0	0.00%
PWPWHMSW0000000	0	0	1,200	0	0	0	0	0	0.00%
522190 - Other Vehicle Equipment & Supplies	0	0	10,794	0	0	0	0	0	0.00%
PWPWHMSW0000000	0	0	10,794	0	0	0	0	0	0.00%
522200 - Road Maintenance Equipment & Supplies	0	0	0	0	0	0	0	0	0.00%
PWPWHMSW0000000	0	0	0	0	0	0	0	0	0.00%
53 - Capital Outlay	13,500	0	0	0	0	0	0	0	0.00%
530500 - Capital Outlay-Equipment	13,500	0	0	0	0	0	0	0	0.00%
PWPWHMSW0000000	13,500	0	0	0	0	0	0	0	0.00%
530560 - Capital Outlay-Vehicles	0	0	0	0	0	0	0	0	0.00%
PWPW000000000000	0	0	0	0	0	0	0	0	0.00%
PWPWHMSW00000000	0	0	0	0	0	0	0	0	0.00%
58 - Expense Other	248,960	168,391	168,391	0	184,669	0	184,669	16,278	9.67 %
581010 - Current Operating Cost Conversion	248,960	168,391	168,391	0	184,669	0	184,669	16,278	9.67 %
PWPW00000000000	248,960	0	0	0	0	0	0	0	0.00%
PWPWHMSW0000000	0	168,391	168,391	0	184,669	0	184,669	16,278	9.67
142000000 - Env Stormwater Mgmt	6,645,333	14,406,653	14,305,935	946,149	6,093,462	0	7,039,611	(7,367,042)	-51.14 %

	FY 2020	FY 2021	FY 2021		FY 2022			Approved vs.Pi Authoriz	
	Actual	Authorized	Estimated	Base Budget	Budget	New Efforts	Total	Difference	%
999999999999999999900 - Administration	6,645,333	14,406,653	14,305,935	946,149	6,093,462	0	7,039,611	(7,367,042)	-51.14 %
50 - Personnel Costs	681,875	697,600	686,482	716,835	0	0	716,835	19,235	2.76 %
500100 - Salary-Regular	490,580	501,250	500,367	522,916	0	0	522,916	21,666	4.32 %
PWPW000000000000	490,580	501,250	500,367	522,916	0	0	522,916	21,666	4.32 %
500140 - Disaster Recovery	0	0	0	0	0	0	0	0	0.00%
PWPW000000000000	0	0	0	0	0	0	0	0	0.00%
501100 - Benefits-FICA	36,099	38,346	33,831	40,012	0	0	40,012	1,666	4.34 %
PWPW00000000000	36,099	38,346	33,831	40,012	0	0	40,012	1,666	4.34 %
501300 - Benefits-Health Insurance	85,380	85,380	85,380	80,550	0	0	80,550	(4,830)	-5.66 %
PWPW00000000000	85,380	85,380	85,380	80,550	0	0	80,550	(4,830)	-5.66 %
501500 - Benefits-Retirement	56,729	59,141	53,906	61,698	0	0	61,698	2,557	4.32 %
PWPW00000000000	56,729	59,141	53,906	61,698	0	0	61,698	2,557	4.32 %
501700 - Benefits-Workers Compensation	13,087	13,483	12,998	11,659	0	0	11,659	(1,824)	-13.53 %
PWPW00000000000	13,087	13,483	12,998	11,659	0	0	11,659	(1,824)	-13.53 %
51 - Contractual Services	1,393,863	1,415,118	1,325,518	212,128	1,319,000	0	1,531,128	116,010	8.20 %
510400 - Advertising & Clipping Service	916	80,000	1,000	0	80,000	0	80,000	0	0.00 %
PWPW00000000000	916	80,000	1,000	0	80,000	0	80,000	0	0.00 %
511310 - Radio Maintenance	10,946	8,712	8,712	9,546	0	0	9,546	834	9.57 %
PWPW00000000000	10,946	8,712	8,712	9,546	0	0	9,546	834	9.57 %
511500 - Industrial & InstitutionI Eq Maintenance	0	0	0	0	0	0	0	0	0.00%
PWPW00000000000	0	0	0	0	0	0	0	0	0.00%

	FY 2020	FY 2021	FY 2021		FY 2022			Approved vs.Pr Authorize	
	Actual	Authorized	Estimated	Base Budget	Budget	New Efforts	Total	Difference	%
513100 - Mileage	0	0	0	0	0	0	0	0	0.00%
PWPW000000000000	0	0	0	0	0	0	0	0	0.00%
513120 - Parking Fees	0	0	0	0	0	0	0	0	0.00%
PWPW000000000000	0	0	0	0	0	0	0	0	0.00%
514355 - Groundwater and Leachate Analysis Svcs	21,009	10,000	9,900	0	10,000	0	10,000	0	0.00 %
PWPW000000000000	21,009	10,000	9,900	0	10,000	0	10,000	0	0.00 %
514700 - Data Processing Services	223,793	192,406	192,406	202,582	0	0	202,582	10,176	5.29 %
PWPW000000000000	223,793	192,406	192,406	202,582	0	0	202,582	10,176	5.29 %
514820 - Inspection Services	609,912	600,000	600,000	0	600,000	0	600,000	0	0.00 %
PWPW000000000000	609,912	600,000	600,000	0	600,000	0	600,000	0	0.00 %
515900 - Other Contractual Services	527,287	520,000	510,000	0	625,000	0	625,000	105,000	20.19 %
PWPW00000000000	527,287	520,000	510,000	0	625,000	0	625,000	105,000	20.19 %
516820 - Association & Membership Dues	0	4,000	3,500	0	4,000	0	4,000	0	0.00 %
PWPW000000000000	0	4,000	3,500	0	4,000	0	4,000	0	0.00 %
54 - Debt Service	351,976	1,432,518	1,432,518	0	1,377,830	0	1,377,830	(54,688)	-3.82 %
540100 - Interest Paid-Bonds-Other	108,264	620,408	620,408	0	723,070	0	723,070	102,662	16.55 %
PWPW00000000000	108,264	620,408	620,408	0	723,070	0	723,070	102,662	16.55 %
540800 - Interest Paid-Loans-Assets	(154)	39,680	39,680	0	39,400	0	39,400	(280)	-0.71 %
PWPW00000000000	(154)	39,680	39,680	0	39,400	0	39,400	(280)	-0.71 %
543100 - Principal Expense Paid-Bonds- Other	243,712	621,835	621,835	0	464,480	0	464,480	(157,355)	-25.30 %
PWPW00000000000	243,712	621,835	621,835	0	464,480	0	464,480	(157,355)	-25.30 %

	FY 2020	FY 2021	FY 2021		FY 2022			Approved vs.P Authoriz	
	Actual	Authorized	Estimated	Base Budget	Budget	New Efforts	Total	Difference	%
543800 - Principal Exp Pd-Loans-Assets	154	150,595	150,595	0	150,880	0	150,880	285	0.19 %
PWPW00000000000	154	150,595	150,595	0	150,880	0	150,880	285	0.19 %
58 - Expense Other	267,619	220,037	220,037	17,186	3,396,632	0	3,413,818	3,193,781	1,451.47 %
581010 - Current Operating Cost Conversion	248,960	202,069	202,069	0	221,603	0	221,603	19,534	9.67 %
PWPW00000000000	248,960	202,069	202,069	0	221,603	0	221,603	19,534	9.67 %
581059 - Direct Cost Conversion-GIS	15,919	17,472	17,472	16,686	0	0	16,686	(786)	-4.50 %
PWPW00000000000	15,919	17,472	17,472	16,686	0	0	16,686	(786)	-4.50 %
581097 - Indirect Cost Conversion	2,740	496	496	500	0	0	500	4	0.81 %
PWPW00000000000	2,740	496	496	500	0	0	500	4	0.81 %
589800 - Appropriation To Fund Balance	0	0	0	0	3,175,029	0	3,175,029	3,175,029	100.00%
PWPW00000000000	0	0	0	0	3,175,029	0	3,175,029	3,175,029	100.00%
69 - Operating Transfers	3,950,000	10,641,380	10,641,380	0	0	0	0	(10,641,380)	-100.00 %
695000 - Operating Transfers Out-Budg- Other	3,950,000	10,641,380	10,641,380	0	0	0	0	(10,641,380)	-100.00 %
PWPW00000000000	3,950,000	10,641,380	10,641,380	0	0	0	0	(10,641,380)	-100.00 %
7800 - Soil Conservation District	111,132	118,959	118,959	0	124,546	0	124,546	5,587	4.70 %
7800000000 - Soil Conservation District	111,132	118,959	118,959	0	124,546	0	124,546	5,587	4.70 %
999999999999999999900 - Administration	111,132	118,959	118,959	0	124,546	0	124,546	5,587	4.70 %
50 - Personnel Costs	26,308	18,388	28,323	0	29,420	0	29,420	11,032	60.00 %
501300 - Benefits-Health Insurance	17,249	18,388	18,388	0	18,993	0	18,993	605	3.29 %
CSCS000000000000	0	18,388	18,388	0	18,993	0	18,993	605	3.29 %
PWPW00000000000	17,249	0	0	0	0	0	0	0	0.00%

	FY 2020	FY 2021	FY 2021		FY 2022			Approved vs.Pr Authorize	
	Actual	Authorized	Estimated	Base Budget	Budget	New Efforts	Total	Difference	%
501500 - Benefits-Retirement	9,059	0	9,935	0	10,427	0	10,427	10,427	100.00%
CSCS000000000000	0	0	9,935	0	10,427	0	10,427	10,427	100.00%
PWPW00000000000	9,059	0	0	0	0	0	0	0	0.00%
51 - Contractual Services	84,824	100,571	90,636	0	95,126	0	95,126	(5,445)	-5.41 %
516190 - Other Donations	84,824	100,571	90,636	0	95,126	0	95,126	(5,445)	-5.41 %
CSCS000000000000	0	100,571	90,636	0	95,126	0	95,126	(5,445)	-5.41 %
PWPW00000000000	84,824	0	0	0	0	0	0	0	0.00%
Total Budget	9,018,048	17,167,659	16,984,757	1,564,032	8,306,318	0	9,870,350	(\$7,297,309)	-42.51 %



	Financial Capacity Spreadsheet							
1	County/City Name	Howard County, MD						
2	Cost As A Percent Of Household Inco	ome						
2a	Median Household Income (MHI)	\$	121,160					
2b	Total Number Of Households In Juris		114,170					
2c	Average Annual Cost For Public Stori	nwater Related Management Programs	\$	42,608,400.75				
2d	Annual Cost For Public Stormwater R	elated Management Programs Per Household	\$	373.20				
2e	% Of MHI Spent On Public Stormwat		0.31%					
2f	Total Annual Stormwater Remediation	n Fee Per Household	\$	40.17				
2g	% Of MHI Spent Annually On Stormy	water Remediation Fee		0.03%				
3	Cost Of Impervious Surface Restoration	on As A Percent Of Household Income						
3a	Total In Previous Permit Term Spent ((ISRP)	On The Impervious Surface Restoration Plan	\$	56,836,251.00				
3b	Average Annual Cost Of The ISRP D	uring The Previous Permit Term	\$	5,982,763.26				
3c	Annual Cost Of The ISRP Per Housel	nold During The Previous Permit Term	\$	52.40				
3d	% Of MHI Spent On The ISRP During		0.04%					
3e	Total Projected Cost For Restoration I	\$	340,867,206.00					
3f	Projected Annual Cost For Restoration	\$	42,608,400.75					
3g	Projected Annual Cost For Restoration	\$	373.20					
3h	% Of MHI Spent On Projected Cost C		0.31%					
4	Cost For Low-Income Residential Customers As A Percent Of Household Income							
4a	Percentage Of Households With Annu		7.70%					
4b	% Of Income For Low Income Housel Management Programs		1.49%					
4c	% Of Income For Low Income House		0.16%					
4d	% Of Income For Low Income House	hold Spent On The ISRP		0.21%				
4e	% Of MHI For Low Income House Sp Portfolio		1.49%					
5	Key Socioeconomic Indicators							
5a	Percentage Unemployed		2.70%					
5b	Median Household Income	\$	121,160					
5c	Percent Of Individuals (All People) Be		5.00%					
6	Financial Capacity Indicators							
6a		Aaa						
6b	Debt Indicators	N/A						
6c		Net Debt As A % Of FMPV <sup>2</sup>		2.29%				
6d	Einen siel Management In Breete	Property Tax Revenues As % Of FMPV		1.22%				
6e	Financial Management Indicators	Property Tax Revenue Collection Rate		99.25%				

# Notes:

- GO = General Obligation
   FMPV = Full Market Property Value