

DEPARTMENT OF ENVIRONMENTAL SERVICES
KA 'OIHANA LAWELawe KAIĀPUNI
CITY AND COUNTY OF HONOLULU

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June 3, 2025

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IN REPLY REFER TO:
DIR. 25-33

The Honorable Tommy Waters
Chair and Presiding Officer
and Members
Honolulu City Council
530 South King Street, Room 202
Honolulu, Hawai'i 96813

Dear Chair Waters and Councilmembers:

SUBJECT: Request for Detailed CIP Breakdown and Funding Strategy for Bill 60

Thank you for your letter dated May 28, 2025, regarding the Department of Environmental Services (ENV) Capital Improvement Program and funding strategies as it relates to the proposed sewer fee increases in Bill 60. ENV submits the following responses:

The request letter poses several specific questions and also, in places, suggests that our Sewer Rate Study (CDM Smith, Feb 2025) be revised to include some or all of the requested information. In this letter we will provide answers to all of the questions posed, however, the Sewer Rate Study report is considered a completed work product of the consultant. Thus, this letter will be considered to be a City-ENV addendum to the Sewer Rate Study and the consultant report will remain as originally authored by ENV's consultant. The SEWER Rate Study can be found on ENV's website: <https://www.honolulu.gov/env/wp-content/uploads/sites/29/2025/04/Honolulu-Department-of-Environmental-Services-Rate-Study-Report-with-Appendices.pdf>.

Responses to specific questions:

1. Complete CIP Breakdown: Please provide a single table that accounts for every dollar of the \$10.1 billion, modeled after the Sand Mateo CA example.

Response: ENV has prepared the attached table (Table 1) which includes the requested information for ENV capital projects for the period FY 2025 through FY 2040. There are a total of 142 projects. Currently funded projects number 107 (57 in Planning, 27 in Design, and 23 in Construction). The table includes:

DEPT. COM. 417

Project name and purpose; Estimated cost and timeline; funding method (cash vs bonds); Regulatory drivers.

2. Sand Island and Consent Decree: The Sand Island Secondary Treatment upgrade is the largest single project in the plan. The report should include a dedicated section outlining: The 2010 Consent Decree Terms and Deadlines. How does this project fit into those requirements? Whether integrated planning efforts, such as the 'Ewa cesspool conversions, could offer equal or greater compliance benefits at a lower cost. We have also attached a relevant plan from Emma Yuen (DOFAW) relating to Integrated Planning to help inform this analysis and support preparations for future discussions with the EPA.

Response: The 2010 Consent Decree (CD) document can be found on the ENV website (<https://www.honolulu.gov/env/consent-decree/>). The terms and deadlines for the Sand Island Secondary Treatment upgrade are summarized as follows (Chapter 31 of CD):

- City shall “withdraw any pending appeals of EPA’s denial of its application for a permit pursuant to section 301(h) of the CWA for the Sand Island WWTP.” Section 301(h) is the section on secondary treatment waivers. The City withdrew its appeal in December 2010.

- Interim compliance milestone #1: CCH shall execute a design contract and issue notice to proceed (NTP) for design of secondary facilities by January 1, 2019. ENV issued a design contract and NTP to AECOM on December 31, 2018 meeting this milestone.

- Interim compliance milestone #2: CCH shall execute a construction contract and issue NTP to proceed with construction of secondary facilities by January 1, 2022. ENV issued a construction contract to Hensel Phelps for the first phase of the upgrade with NTP on December 13, 2021 meeting this milestone. The first phase project is currently 80% complete and will be completed in December 2026. It will have a treatment capacity of 20 million gallons per day (MGD).

- Interim compliance milestone #3: CCH shall execute a construction contract and issue NTP to proceed with construction to complete construction of all facilities necessary for secondary compliance by January 1, 2030. ENV has

initiated planning and design contracts for the second phase of the secondary upgrades which will have a capacity of an additional 70 MGD (total plant capacity is 90 MGD). Additional schedule information is included below.

- Compliance Milestone: CCH shall complete construction of secondary treatment facilities by December 31, 2035. Construction and start-up of phase 2 of the secondary upgrade is currently planned to occur from 2029 to 2035.

- The most updated schedule for phase 2 of the Sand Island upgrade is as follows: Planning: February 2022 – December 2024 (completed)

- Environmental Clearances and Approvals: January 2025 – August 2028 (in progress)

- Design and Agency Review: January 2025 – August 2028 (in progress)

- Bid Period and Construction NTP: March 2029 (anticipated)

- Construction, start-up, commissioning: March 2029 – December 2035 (anticipated)

- Complete Construction and meet treatment requirements: December 31, 2035

- The ENV projects that contribute to the CD are identified in Table 1 – Sand Island projects. The terms of the CD are specific and do not allow for proposed alternative compliance projects offering equal or greater benefits.

- ENV has completed efforts with respect to Integrated Planning (IP). An IP Feasibility Study (IPFS) was completed and is posted on the website (<https://www.honolulu.gov/env/major-wastewater-studies/>). The IPFS found reason to prepare a full Integrated Plan which is proposed for funding in the FY 26 budget bill. IP involves integration of wastewater planning/projects and stormwater planning/projects and drinking water and will involve continued collaboration with DFM-stormwater, the State Department of Health, the US EPA, the State DOFAW, and others. The IPFS did not find the modification of the 2010 CD as a possible outcome of the IP, however, this will be examined further in the full IP study.

3. PAYGo vs. Debt Service: Please clarify which projects will be paid in cash versus debt-financed. For PAYGo items, indicate whether they are conditional on available funding.

Response: In Table 1, the planned source of funding for each capital project is identified. Cash funded (PAYGo) projects use funds from the Sewer Cash Fund (#170) and are identified as SW in Table 1. Debt financed projects use funds from the Sewer Revenue Bond Improvement Fund (#670) and are identified as SR in Table 1.

4. Alternative Funding Options: Has ENV applied – or considered applying – for WIFIA (Water Infrastructure Finance and Innovation Act) loans? How would incorporating WIFIA change the proposed financial plan?

Response: ENV has carefully considered the federal WIFIA loan program to finance one or more of our capital projects. So far, ENV has not applied for a WIFIA loan. If ENV obtained a WIFIA loan for a project, the funds could be used to fund up to 50% of the project cost. The other 50% of the cost would be funded either by sewer cash or sewer bond revenue. ENV's proposed financial plan includes the use of either cash or sewer bond revenue for capital projects. WIFIA loan funds would likely not change ENV's plans for cash funded capital projects. Instead, the WIFIA loan funds would likely be used in place of sewer revenue bond funds. The difference would be in the structuring of the debt service. The WIFIA interest rate could be a little lower than our tax-free sewer bonds (which would amount to long-term savings) and the repayment term has some flexibility not available with municipal market bonds. Thus, the total interest payments could potentially be reduced and the duration of payments for individual WIFIA-funded projects could be different. There are restrictions and requirements for use of WIFIA funds that impact the ease of their use. These have been evaluated by ENV and our financial advisors and so far, ENV has not determined it to be prudent to apply for a WIFIA loan. ENV continues to evaluate WIFIA loans for future capital projects.

5. Missing or Underdeveloped Elements: These comments refer to items that are recommended to be added to ENV's Sewer Rate Study. There are five items that are addressed as follows:

- a) Reserve fund targets and projected balances.

Response: The City's financial reserve policies for the Wastewater System Enterprise are established in Resolution 98-197, CD1, titled *Debt and Financial Policies of the Wastewater System Enterprise*. These policies provide guiding principles for maintaining reserves to support stable operations and long-term financial health.

Specifically:

- Section II.E establishes the City's policy to maintain an Operating Reserve:

"To accommodate periodic, unanticipated or unforeseen needs, the City will maintain at all times operating reserves equal to at least three (3) months of operation and maintenance costs."

- Section II.F outlines internal debt service coverage targets:

"...the City intends to target to maintain revenues... of 1.60 times Senior Revenue Bond debt service and 1.25 times debt service for all Revenue Bonds."

ENV must also comply with minimum reserve requirements under its outstanding wastewater revenue bonds, as set forth in Resolution 98-193, CD1:

- Section 3.04 requires the City to establish and maintain a Debt Service Reserve Fund, defined as the "Common Reserve Account Requirement", which serves as a safeguard to cover bond payments if revenues fall short.
- Section 10 includes specific requirements which limits the City's ability to issue new bonds unless it can demonstrate adequate financial capacity. Specifically, the City must show that net system revenues are sufficient to cover:
 - All debt service and required deposits, and
 - At least 1.20 times the maximum annual debt service on all outstanding and proposed bonds, plus 1.0 times any support facility reimbursement obligations.

In both cases, the revenue must be more than enough, not just to make payments, but to provide a financial safety margin. This ensures the wastewater system remains financially stable and does not take on more debt than it can responsibly manage.

Projected Balances (Tables 3-1 and 3-6 of the Rate Study Report)

The Sewer Rate Study presents reserve planning through long-range fund projections and a detailed breakdown of annual financial needs.

- Figure 3-1 (page 3-5) provides a visual summary of projected fund balances through 2035, alongside cash-funded capital and bond-funded capital. This figure illustrates how reserves are expected to change over time in relation to planned capital spending, and highlights the balance between cash financing and debt financing.
- Table 3-6 (page 3-7) summarizes the projected revenue requirement for FY 2025 through FY 2035. The revenue requirement includes contributions to reserves which ensure compliance with City financial policies and bond indenture requirements. ENV policy is to maintain a minimum operating reserve equal to 25% of annual O&M, and a debt service reserve equal to 50% of existing debt service. Revenue requirements are projected to grow from \$437.3 million in FY 2025 to \$746.4 million in FY 2035, an average annual increase of 5.5%.

The above fund projections and reserve contributions reflect a financial strategy aligned with policy goals and legal obligations, supporting the long-term stability of the wastewater enterprise.

b) Detailed rate structure and flow thresholds.

Response: The proposed rate schedule for all customer classes is included in Bill 60 CD2 and described here:

The City is proposing a new sewer rate structure and a series of annual rate increases designed to promote fairness, conservation, and long-term financial sustainability.

New Rate Structure: 40/60 Fixed-to-Variable Split

- The current structure (70% fixed / 30% variable) will shift to a 40% fixed / 60% variable model, phased in over two years.
- This change gives customers more control over their bills, with a greater portion of charges tied directly to water usage.
- There are no flow thresholds or usage tiers — all customers pay the same rate per 1,000 gallons.
- Households that use less water will see lower sewer charges, incentivizing conservation

Annual Rate Increases (Effective January 1, 2026 – July 1, 2035):

- Scheduled annual percentage increases are:
6%, 7.5%, 8.5%, 9%, 9%, 9%, 9%, 8%, 7.5%, 7%

These increases apply consistently each year and are structured to support rising system costs and capital needs

c) Sub-area rate differentials (if applicable).

Response: ENV's current and proposed sewer rate structures do not include sub-area rate differentials. All residential customers across the City and County of Honolulu are charged using the same uniform rate structure, regardless of geographic location or service area.

d) Peer agency comparisons.

Response: A comparison of Honolulu's sewer bills to those of other large West Coast and mainland utilities was summarized on pages 38–40 of the March 4, 2025 Budget Briefing Presentation.

The analysis compares total monthly sewer charges for a typical residential customer. Key takeaways include:

- Honolulu's proposed rates remain within the range of peer agencies through 2035, even after scheduled increases.
- This benchmarking helps place Honolulu's proposed increases in context, showing that the City's rates are reasonable, competitive, and aligned with similar urban coastal utilities facing aging infrastructure, stringent regulatory obligations, and capital-intensive needs.

These comparisons help demonstrate that the City's approach is consistent with broader industry trends and financial planning standards.

e) Public-facing financial model or appendix.

Response: ENV does not maintain a public-facing financial model for the wastewater system. However, there is a significant amount of publicly available information that provides detailed insight into the financial status, planning, and performance of the program.

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and Members
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Two key resources include:

1. Annual Official Statement for Wastewater System Revenue Bonds
The City publishes a comprehensive Official Statement each year in support of its wastewater bond program. This document provides an in-depth look at the financial condition of the wastewater enterprise, including operating revenues and expenditures, capital improvement planning, outstanding debt, and system performance metrics.
2. Annual Audited Financial Statements
The Sewer Fund is audited annually by an independent accounting firm, and the results are published as part of the City's Annual Comprehensive Financial Report (ACFR). These audits provide transparency on fund balances, revenue sources, expenditures, and compliance with financial policies.

While a public financial model was not developed for this rate study, the above resources offer extensive public visibility into the program's finances and long-term planning framework.

Should there be any questions, please contact me at 808-768-3486.

Sincerely,



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Roger Babcock, Jr., Ph.D., P.E.
Director

Attachment

cc: Mayor Rick Blangiardi
Michael D. Formby, Managing Director, Office of the Managing Director
Andrew T. Kawano, Director, Department of Budget and Fiscal Services

APPROVED:

**Michael D.
Formby**

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D. Formby
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Michael D. Formby, Managing Director
Office of the Managing Director

Table 1

| Project No. | Project Name | FY Funding Start | FY25 - FY31 | | FY25 - FY31 SR | FY32 - FY40 Funding TBD | FY25 - FY40 Total Project Funding | Project Start/Projected Start | Project End/Projected End | Project Scope | Project Category | | | | | | | | | |
|-------------|--|------------------|-------------|------------|----------------|-------------------------|-----------------------------------|-------------------------------|---------------------------|---------------|--|------------|--|-----------------|------------------|------------|-------------|----|-------------|--|
| | | | | SW | | | | | | | Regulatory | Resilience | Reliability | Future Capacity | System Expansion | | | | | |
| 2008063 | Ahuimanu WWPTF Force Main and Sewer Improvements | 2022 | \$ | 36,003,000 | \$ | - | \$ | 36,003,000 | 5/12024 | 12/31/2033 | 2010 Consent Decree requirement under force main program; see 6yr CIP Budget Book for detailed description | \$ | 36,003,000 | | | | | | | |
| 2013046 | Ahuimanu WWPTF Improvements and Equalization Facility | 2013 | \$ | 54,501,000 | \$ | 501,000 | \$ | - | \$ | 55,002,000 | 1/1/2013 | 12/30/2031 | 2010 Consent Decree requirement regarding facility reliability; see 6yr CIP Budget Book for detailed description | \$ | 55,002,000 | | | | | |
| | Ala Moana WWPS Basin - TOD Sewer Relief/Replacement/Rehabilitation | 2032 | \$ | - | \$ | - | \$ | 507,800,000 | \$ | 507,800,000 | 7/1/2032 | TBD | TOD sewer relief, replacement, and/or rehabilitation in the Ala Moana Basin; specific projects currently under evaluation in Sand Island WWTP and Sewer Basin Facilities FY19 | | | \$ | 253,900,000 | \$ | 253,900,000 | |
| | Ala Moana Basin WWPSs Generic Projects | 2032 | \$ | - | \$ | - | \$ | 104,500,000 | \$ | 104,500,000 | 7/1/2032 | TBD | Resiliency and/or future capacity upgrades for WWPSs in the Ala Moana Basin; currently under evaluation in Sand Island WWTP and Sewer Basin Facilities FY19 | | \$ | 52,250,000 | | \$ | 52,250,000 | |
| 2015050 | Ala Moana Blvd WWPS and Sewer Improvements | 2025 | \$ | 5,001,000 | \$ | 77,501,000 | \$ | 2,002 | \$ | 82,504,002 | 5/1/2025 | 1/1/2034 | New pump station proposed to be located in the vicinity of the Moana Park Pump Station; see 6yr CIP Budget Book for detailed description | | | \$ | 82,504,002 | | | |
| 2017060 | Ala Moana WWPS Force Main No. 2 System | 2018 | \$ | 4,504,000 | \$ | - | \$ | 44,006,000 | \$ | 48,510,000 | 6/1/2020 | 12/31/2031 | 2010 Consent Decree requirement under force main program; see 6yr CIP Budget Book for detailed description | \$ | 48,510,000 | | | | | |
| 2017057 | Aliamanu No.1 WWPS - Gravity Sewer Replacement | 2029 | \$ | 1,503,000 | \$ | - | \$ | 21,805,000 | \$ | 23,308,000 | 10/1/2028 | 7/1/2034 | 2010 Consent Decree requirement to be completed after 2020; see 6yr CIP Budget Book for detailed description | \$ | 23,308,000 | | | | | |
| 2019046 | Awa Street WWPS Improvements/Rehabilitation | 2020 | \$ | 13,501,000 | \$ | 1,601,000 | \$ | - | \$ | 15,102,000 | 5/1/2021 | 12/31/2031 | Reliability improvements at the Awa Street Pump Station; see 6yr CIP Budget Book for detailed description | | | \$ | 15,102,000 | | | |
| new | Central Oahu Wastewater Facilities Plan | 2032 | \$ | - | \$ | - | \$ | 5,000,000 | \$ | 5,000,000 | 7/1/2033 | TBD | Facilities planning for Central Oahu to ensure compliance with current/future regulatory requirements and future population and flow projectoins | \$ | 2,500,000 | | | \$ | 2,500,000 | |
| 2025046 | Central O'ahu Water Recycling Facilities, Mililani | 2025 | \$ | 18,900,000 | \$ | - | \$ | - | \$ | 18,900,000 | 7/1/2025 | 12/31/2033 | Wastewater reuse facility at the Mililani Wastewater Pre-Treatment Facility; see 6yr CIP Budget Book for detailed description | | \$ | 18,900,000 | | | | |
| 2023046 | Collection System Maintenance (CSM) Pearl City Warehouse | 2023 | \$ | - | \$ | 9,701,000 | \$ | - | \$ | 9,701,000 | 7/1/2022 | 6/31/2029 | New warehouse to replace deteriorated and unsafe warehouse; see 6yr CIP Budget Book for detailed description | | | \$ | 9,701,000 | | | |
| 2023047 | Energy Improvements at Wastewater Facilities | 2024 | \$ | 12,802,000 | \$ | - | \$ | - | \$ | 12,802,000 | 5/1/2024 | 12/31/2030 | Improvements to wastewater facilities to increase energy efficiency, implement renewable energy projects, and/or reduce energy demand; see 6yr CIP Budget Book for detailed description | | \$ | 12,802,000 | | | | |
| 2017053 | ENV Support Facilities at Honouliuli WWTP | 2017 | \$ | 3,501,000 | \$ | 2,501,000 | \$ | - | \$ | 6,002,000 | 5/1/2017 | 7/1/2028 | New facilities for functions that need to move from the Sand Island WWTP to the Honouliuli WWTP to provide space for secondary treatment at Sand Island WWTP; see 6yr CIP Budget Book for detailed description | \$ | 6,002,000 | | | | | |
| 2012056 | Ewa Beach WWPS Force Main System Improvements | 2011 | \$ | 1,401,000 | \$ | 134,502,000 | \$ | - | \$ | 135,903,000 | 1/1/2012 | 12/1/2030 | 2010 Consent Decree requirement under force main program; see 6yr CIP Budget Book for detailed description | \$ | 135,903,000 | | | | | |
| 2013050 | Fort DeRussy WWPS, Force Main, and University Ave/McCully Sewer Relief | 2013 | \$ | 2,102,000 | \$ | - | \$ | - | \$ | 2,102,000 | 1/1/2014 | 1/1/2033 | 2010 Consent Decree requirement under force main program; see 6yr CIP Budget Book for detailed description | \$ | 2,102,000 | | | | | |
| New | Geiger Road Sewer Relief/Rehabilitaton | 2032 | \$ | - | \$ | - | \$ | 37,700,000 | \$ | 37,700,000 | 7/1/2032 | TBD | Relief/Rehabilitation of sewer main on Geiger Road from Kalaeloa; dependant on future development in Kalaleloa area | | | | | \$ | 37,700,000 | |
| 2012046 | Halawa WWPS Force Main System Improvements | 2022 | \$ | 11,001,000 | \$ | 1,501,000 | \$ | - | \$ | 12,502,000 | 5/1/2024 | 12/31/2032 | 2010 Consent Decree requirement under force main program; see 6yr CIP Budget Book for detailed description | \$ | 12,502,000 | | | | | |
| | Hart Street Basin WWPSs Generic Projects | 2032 | \$ | - | \$ | - | \$ | 104,500,000 | \$ | 104,500,000 | 7/1/2033 | TBD | Resiliency and/or future capacity upgrades for Hart St WWPS, Kamehameha Hwy WWPS, and/or Awa St WWPS; currently under evaluation in Sand Island WWTP and Sewer Basin Facilities FY19 | | \$ | 52,250,000 | | \$ | 52,250,000 | |
| | Hart Street WWPS Basin - TOD Sewer Relief/Replacement/Rehabilitation | 2032 | \$ | - | \$ | - | \$ | 395,000,000 | \$ | 395,000,000 | 7/1/2033 | TBD | TOD sewer relief, replacement, and/or rehabilitation in the Hart St Basin; specific projects currently under evaluation in Sand Island WWTP and Sewer Basin Facilities FY19 | | | \$ | 197,500,000 | \$ | 197,500,000 | |
| 2017054 | Hart Street WWPS FM Improvements Phase 3 | 2016 | \$ | 8,801,000 | \$ | 351,000 | \$ | - | \$ | 9,152,000 | 7/1/2018 | 12/31/2025 | 2010 Consent Decree requirement under force main program; see 6yr CIP Budget Book for detailed description | \$ | 9,152,000 | | | | | |
| 1995812 | Hart Street WWPS Upgrade | 2025 | \$ | 13,001,000 | \$ | 2,001,000 | \$ | - | \$ | 15,002,000 | 5/1/2025 | 12/1/2033 | Reliability improvements at the Hart Street Pump Station; see 6yr CIP Budget Book for detailed description | | | \$ | 15,002,000 | | | |
| 2009111 | Heeia Wastewater Pump Station Improvements | 2009 | \$ | - | \$ | 7,600,000 | \$ | - | \$ | 7,600,000 | 9/1/2008 | 3/29/2028 | Reliability improvements at the Heeia Pump Station; see 6yr CIP Budget Book for detailed description | | | \$ | 7,600,000 | | | |
| 2023049 | Honolulu Area Sewer Reconstruction/Rehabilitation | 2022 | \$ | 72,004,000 | \$ | 1,001,000 | \$ | - | \$ | 73,005,000 | 5/1/2024 | 12/31/2035 | Reliability improvements to sewer lines in the Honolulu area; see 6yr CIP Budget Book for detailed description | | | \$ | 73,005,000 | | | |
| | Honouliuli EAST Basin Gravity Sewer Generic Projects | 2032 | \$ | - | \$ | - | \$ | 90,300,000 | \$ | 90,300,000 | 7/1/2033 | TBD | TOD sewer relief, replacement, and/or rehabilitation east of the Honouliuli WWTP; specific projects currently under evaluation in Wastewater Capacity Management & Monitoring program and further evaluated in Honouliuli WWTP and Sewer Basin Facilities FY27 | | | \$ | 90,300,000 | | | |
| | Honouliuli EAST Basin WWPSs Generic Projects | 2032 | \$ | - | \$ | - | \$ | 57,600,000 | \$ | 57,600,000 | 7/1/2033 | TBD | Resiliency and/or future capacity upgrades for pump stations located east of Honouliuli WWTP; to be evaluated in Honouliuli WWTP and Sewer Basin Facilities FY27 | | \$ | 57,600,000 | | | | |
| | Honouliuli WEST Basin Gravity Sewer Generic Projects | 2032 | \$ | - | \$ | - | \$ | 90,300,000 | \$ | 90,300,000 | 7/1/2033 | TBD | TOD sewer relief, replacement, and/or rehabilitation west of the Honouliuli WWTP; specific projects currently under evaluation in Wastewater Capacity Management & Monitoring program and further evaluated in Honouliuli WWTP and Sewer Basin Facilities FY27 | | | \$ | 90,300,000 | | | |

| Project No. | Project Name | FY Funding Start | FY25 - FY31 SW | FY25 - FY31 SR | FY32 - FY40 Funding TBD | FY25 - FY40 Total Project Funding | Project Start/Projected Start | Project End/Projected End | Project Scope | Regulatory | Resilience | Reliability | Future Capacity | System Expansion |
|-------------|---|------------------|----------------|----------------|-------------------------|-----------------------------------|-------------------------------|---------------------------|--|----------------|-------------------|-------------------|-------------------|------------------|
| | Honouliuli WEST Basin WWPSs Generic Projects | 2032 | \$ - | \$ - | \$ 57,600,000 | \$ 57,600,000 | 7/1/2033 | TBD | Resiliency and/or future capacity upgrades for pump stations west of the Honouliuli WWTP; to be evaluated under Honouliuli WWTP and Sewer Basin Facilities FY27 | | \$ 28,800,000 | | \$ 28,800,000 | |
| 2009110 | Honouliuli WWTP and Sewer Basin Facilities Plan | 2027 | \$ 5,000,000 | \$ - | \$ 7,000,000 | \$ 12,000,000 | 7/1/2027 | 12/31/2031 | Facilities planning for the Honouliuli basin to ensure compliance with current/future regulatory requirements and future population and flow projections | \$ 6,000,000 | | | \$ 6,000,000 | |
| 2012058 | Honouliuli WWTP Secondary Treatment | 2012 | \$ 1,000 | \$ 10,049,000 | \$ - | \$ 10,050,000 | 1/1/2013 | 12/31/2027 | 2010 Consent Decree requirement; see 6yr CIP Budget Book for detailed description | \$ 10,050,000 | | | | |
| New | Honouliuli Effluent Pump Station | 2032 | \$ - | \$ - | \$ 95,900,000 | \$ 95,900,000 | 7/1/2033 | TBD | Capacity upgrde for the Honouliuli WWTP Effluent Pump Station; dependant on future development in area; to be evaluated under Honouliuli WWTP and Sewer Basin Facilities FY27 | | | | \$ 95,900,000 | |
| 2010053 | Honouliuli WWTP Effluent Treatment & Outfall Improvements | 2021 | \$ - | \$ 52,501,000 | \$ - | \$ 52,501,000 | 5/1/2021 | 12/31/2029 | NPDES Permit requirement; see 6yr CIP Budget Book for detailed description | \$ 52,501,000 | | | | |
| | Honouliuli WWTP Generic Projects | 2032 | \$ - | \$ - | \$ 307,600,000 | \$ 307,600,000 | 7/1/2033 | TBD | Honouliuli WWTP improvements, capacity upgrades, and/or resiliency upgrades; to be evaluated in Honouliuli WWTP and Sewer Basin Facilities FY27 | | \$ 102,533,333.33 | \$ 102,533,333.33 | \$ 102,533,333.33 | |
| 2019047 | Honouliuli WWTP Headworks, Pump Station, Energy Savings, Solids Process Upgrades and Misc. Improvements | 2020 | \$ 1,556,000 | \$ 234,921,000 | \$ - | \$ 236,477,000 | 5/1/2020 | 2/28/2031 | Improvements/upgrades to Honouliuli WWTP; see 6yr CIP Budget Book for detailed description | | | \$ 236,477,000 | | |
| 2019067 | Iwilei, King Street, Kokea Street Area Sewer Improvements | 2019 | \$ 11,002,000 | \$ - | \$ 61,200,000 | \$ 72,202,000 | 4/1/2019 | 6/30/2030 | Construction of new sewers and replacement of existing sewers in the Iwilei, King St, and Kokea St areas; see 6yr CIP Budget Book for detailed description | | | \$ 72,202,000 | | |
| | Kāhala Basin WWPSs Generic Projects | 2032 | \$ - | \$ - | \$ 60,900,000 | \$ 60,900,000 | 7/1/2033 | TBD | Resiliency and/or future capacity upgrades to Paiko Dr WWPS, Niu Valley WWPS, and/or Kuliouou WWPS; currently under evaluation in Sand Island WWTP and Sewer Basin Facilities FY19 | | \$ 30,450,000 | | \$ 30,450,000 | |
| | Kāhala WWPS Basin Gravity Sewer Generic Projects | 2032 | \$ - | \$ - | \$ 87,100,000 | \$ 87,100,000 | 7/1/2033 | TBD | Sewer relief, replacement, and/or rehabilitation in the Kahala WWPS Basin for future flows; currently under evaluation in Sand Island WWTP and Sewer Basin Facilities FY19 | | | \$ 43,550,000 | \$ 43,550,000 | |
| New | Kahawai Stream WWPS Modification | 2032 | \$ - | \$ - | \$ 7,900,000 | \$ 7,900,000 | 7/1/2033 | TBD | Improvements/upgrades to Kahawai Stream WWPS; currently under evaluation in Waimanalo Wastewater Facilities Plan FY23 | | | \$ 7,900,000 | | |
| 2019069 | Kahuku WWTP - Septage Receiving, SBR and Sludge Thickening Improvements | 2021 | \$ - | \$ 39,502,000 | \$ - | \$ 39,502,000 | 5/1/2022 | 12/1/2032 | Upgrade/replacement of septage receiving station at Kahuku WWTP; see 6yr CIP Budget Book for detailed description | | | \$ 39,502,000 | | |
| 2023050 | Kahuku Wastewater Facilities Plan | 2034 | \$ - | \$ - | \$ 5,000,000 | \$ 5,000,000 | | | Facilities planning for the Kahuku WWTP basin to ensure compliance with future regulatory requirements and future population and flow projections | \$ 5,000,000 | | | | |
| 2023051 | Kailua/Kaneohe Area Sewer Reconstruction/Rehabilitation | 2022 | \$ 59,001,000 | \$ 1,001,000 | \$ - | \$ 60,002,000 | 6/1/2024 | 12/31/2033 | Improvements to existing sewers in Kailua, Kaneohe, Kahaluu, and adjoining areas; see 6yr CIP Budget Book for detailed description | | | \$ 60,002,000 | | |
| | Kailua Basin Gravity Sewer Generic Projects | 2032 | \$ - | \$ - | \$ 116,100,000 | \$ 116,100,000 | 7/1/2033 | TBD | Capacity upgrades to existing sewer lines in Kailua for future flows; currently under evaluation in Kailua WWTP and Sewer Basin Facilities FY19 | | | \$ 58,050,000 | \$ 58,050,000 | |
| | Kailua Basin WWPSs Generic Projects | 2032 | \$ - | \$ - | \$ 58,000,000 | \$ 58,000,000 | 7/1/2033 | TBD | Resiliency and/or future capacity upgrades to WWPSs in Kailua; currently under evaluation in Kailua WWTP and Sewer Basin Facilities FY19 | | \$ 29,000,000 | | \$ 29,000,000 | |
| 2019071 | Kailua WWTP (old name Kailua WWTP - Primary Tanks, Secondary Tanks and TFSC System Rehabilitation) | 2021 | \$ 4,002,000 | \$ 106,501,000 | \$ - | \$ 110,503,000 | 7/1/2021 | 12/1/2034 | NPDES Permit requirement; see 6yr CIP Budget Book for detailed description | \$ 110,503,000 | | | | |
| | Kailua WWTP and Basin Generic Projects | 2032 | \$ - | \$ - | \$ 235,100,000 | \$ 235,100,000 | 7/1/2033 | TBD | Improvements/upgrades to Kailua WWTP for reliability and future regulatory requirements; currently under evaluation in Kailua WWTP and Sewer Basin Facilities FY19 | \$ 117,550,000 | | \$ 117,550,000 | | |
| 2009109 | Kailua WWTP and Sewer Basin Facilities | 2020 | \$ 4,000,000 | \$ - | \$ 5,000,000 | \$ 9,000,000 | 1/29/2020 | 12/1/2032 | Facilities planning for the Kailua WWTP basin to ensure compliance with current/future regulatory requirements and future population and flow projections | \$ 4,500,000 | | | \$ 4,500,000 | |
| 2010048 | Kailua WWTP Outfall Improvements/Rehabilitation | 2010 | \$ - | \$ 3,502,000 | \$ - | \$ 3,502,000 | 12/31/2010 | 12/1/2032 | Improvements/rehabilitation of Kailua WWTP Outfall; see 6yr CIP Budget Book for detailed description | | | \$ 3,502,000 | | |
| 2017055 | Kailua WWTP - Solids Handling System Improvements | 2020 | \$ 1,000 | \$ 48,103,000 | \$ - | \$ 48,104,000 | 12/17/2020 | 12/31/2032 | Improvements to solids handling system at Kailua WWTP; see 6yr CIP Budget Book for detailed description | | | \$ 48,104,000 | | |
| 2019064 | Kailua WWTP - System Improvements | 2021 | \$ 8,001,000 | \$ 132,001,000 | \$ - | \$ 140,002,000 | 7/1/2021 | 3/30/2031 | NPDES Permit requirement; see 6yr CIP Budget Book for detailed description | \$ 140,002,000 | | | | |
| 2002037 | Kalanianaʻole Highway Sewer System Improvements | 2022 | \$ 50,302,000 | \$ 1,601,000 | \$ - | \$ 51,903,000 | 3/22/2022 | 12/1/2034 | Improvements to existing sewers along Kalanianaʻole Hwy from Aina Haina to Kahala; see 6yr CIP Budget Book for detailed description | | | \$ 51,903,000 | | |
| 2023052 | Kalihi Kai Area Sewer Reconstruction/Rehabilitation | 2024 | \$ 59,001,000 | \$ 1,001,000 | \$ - | \$ 60,002,000 | 5/1/2024 | 12/31/2035 | Improvements to existing sewers in Kalihi Kai area; see 6yr CIP Budget Book for detailed description | | | \$ 60,002,000 | | |
| 2005075 | Kalihi / Nuuanu Area Sewer Rehabilitation/ Improvements | 2022 | \$ 32,403,000 | \$ 2,001,000 | \$ - | \$ 34,404,000 | 2/3/2022 | 12/31/2032 | 2010 Consent Decree requirement to be completed after 2020; see 6yr CIP Budget Book for detailed description | \$ 34,404,000 | | | | |
| 2018058 | Kalihi Valley Sewers - Relief/Reconstruction | 2021 | \$ 42,203,000 | \$ - | \$ - | \$ 42,203,000 | 6/15/2021 | 12/31/2032 | Improvements to existing sewers in Kalihi Valley area; see 6yr CIP Budget Book for detailed description | | | \$ 42,203,000 | | |
| 2012049 | Kamehameha Highway WWPS Force Main System Improvements | 2011 | \$ 4,601,000 | \$ 1,001,000 | \$ - | \$ 5,602,000 | 7/31/2011 | 6/30/2030 | 2010 Consent Decree requirement under force main program; see 6yr CIP Budget Book for detailed description | \$ 5,602,000 | | | | |
| 2010060 | Kamehameha Highway WWPS Upgrade, Mapunapuna | 2010 | \$ - | \$ 931,000 | \$ - | \$ 931,000 | 12/10/2010 | 5/1/2028 | 2010 Consent Decree requirement to be completed after 2020; see 6yr CIP Budget Book for detailed description | \$ 931,000 | | | | |

| Project No. | Project Name | FY Funding Start | FY25 - FY31 SW | FY25 - FY31 SR | FY32 - FY40 Funding TBD | FY25 - FY40 Total Project Funding | Project Start/Projected Start | Project End/Projected End | Project Scope | Regulatory | Resilience | Reliability | Future Capacity | System Expansion |
|-------------|---|------------------|----------------|------------------|-------------------------|-----------------------------------|-------------------------------|---------------------------|--|------------------|----------------|----------------|-----------------|------------------|
| 2019073 | Kamehameha Hwy/Whitmore Avenue Sewer Improvements, Wahiawa | 2020 | \$ - | \$ 3,003,000 | \$ - | \$ 3,003,000 | 5/1/2020 | 6/30/2030 | Capacity upgrades to existing sewer lines along Kamehameha Hwy and Whitmore Ave; see 6yr CIP Budget Book for detailed description | | | | \$ 3,003,000 | |
| | Kāneʻohe Basin Gravity Sewer Generic Projects | 2032 | \$ - | \$ - | \$ 116,100,000 | \$ 116,100,000 | 7/1/2033 | TBD | Capacity upgrades to existing sewer lines in Kaneohe for future flows; currently under evaluation in Kailua WWTP and Sewer Basin Facilities FY19 | | | \$ 58,050,000 | \$ 58,050,000 | |
| | Kāneʻohe Basin WWPSs Generic Projects | 2032 | \$ - | \$ - | \$ 58,000,000 | \$ 58,000,000 | 7/1/2033 | TBD | Resiliency and/or future capacity upgrades to WWPSs in Kaneohe; currently under evaluation in Kailua WWTP and Sewer Basin Facilities FY19 | | \$ 29,000,000 | | \$ 29,000,000 | |
| 2022046 | Kaneohe/Kailua Sewer Tunnel - Decommission Old Facilities | 2022 | \$ 11,001,000 | \$ - | \$ - | \$ 11,001,000 | 10/1/2022 | 12/31/2030 | Decommission of old facilities at Kaneohe PTF; see 6yr CIP Budget Book for detailed description | | | \$ 11,001,000 | | |
| new | Laie Wastewater Facilities Plan | 2033 | \$ - | \$ - | \$ 5,000,000 | \$ 5,000,000 | | | Facilities planning for the Laie WWTP basin to ensure compliance with current/future regulatory requirements and future population and flow projections | \$ 5,000,000 | | | | |
| new | Laie WWTP & Recycling System Improvements | 2032 | \$ - | \$ - | \$ 16,400,000 | \$ 16,400,000 | 7/1/2033 | TBD | Improvements/Upgrades to Laie WWTP & Recycling System | | | \$ 16,400,000 | | |
| 2019048 | Lualualei WWPS Force Main - Shoreline Protection | 2020 | \$ 11,001,000 | \$ 401,000 | \$ - | \$ 11,402,000 | 7/1/2020 | 12/1/2032 | Shoreline protection of Lualualei WWPS Force Main; see 6yr CIP Budget Book for detailed description | | | \$ 11,402,000 | | |
| 2008091 | Lualualei WWPS Improvements | 2032 | \$ - | \$ - | \$ 6,200,000 | \$ 6,200,000 | 7/1/2033 | TBD | Resiliency upgrades to the Lualualei WWPS developed under Waianae Wastewater Facilities Plan FY10 | | \$ 6,200,000 | | | |
| 2008074 | Manoa Sewer System Improvements, (old name: Manoa Sewer Relief/Rehab) | 2023 | \$ 9,404,000 | \$ - | \$ - | \$ 9,404,000 | 6/19/2023 | 12/31/2032 | 2010 Consent Decree requirement to be completed after 2020; see 6yr CIP Budget Book for detailed description | \$ 9,404,000 | | | | |
| 2013059 | Maunawili WWPS's, Force Mains and Sewer Improvements, Kailua | 2014 | \$ 9,501,000 | \$ - | \$ - | \$ 9,501,000 | 5/1/2014 | 12/1/2035 | 2010 Consent Decree requirement to be completed after 2020; see 6yr CIP Budget Book for detailed description | \$ 9,501,000 | | | | |
| New | Mililani Diversion Sewer Relief/Rehabilitation | 2032 | \$ - | \$ - | \$ 27,300,000 | \$ 27,300,000 | 7/1/2033 | TBD | Relief/Rehabilitation of sewer main from Mililani PTF to Waipahu | | | \$ 27,300,000 | | |
| 2019072 | Moanalua Stream Sewer Replacement/Reconstruction | 2020 | \$ 11,002,000 | \$ - | \$ - | \$ 11,002,000 | 5/1/2020 | 12/31/2032 | Re-alignment or reconstruction of existing sewer line along Moanalua Stream; see 6yr CIP Budget Book for detailed description | | | \$ 11,002,000 | | |
| 2006057 | North Shore Regional Wastewater Alternatives | 2025 | \$ 2,000,000 | \$ - | \$ - | \$ 2,000,000 | 1/1/2007 | 6/1/2012 | City Council addition; see 6yr CIP Budget Book for detailed description | | | | | \$ 2,000,000 |
| 2023053 | Paalaa Kai Wastewater Facilities Plan | 3034 | \$ - | \$ - | \$ 5,000,000 | \$ 5,000,000 | | | Facilities planning for the Paalaa Kai WWTP basin to ensure compliance with current/future regulatory requirements and future population and flow projections | \$ 5,000,000 | | | | |
| 1997812 | Pacific Palisades WWPS, Force Main, and Sewer Improvements | 2022 | \$ 11,202,000 | \$ 2,001,000 | \$ - | \$ 13,203,000 | 11/30/2022 | 12/31/2032 | Improvements to the Pacific Palisades WWPS, FM, and sewer system; see 6yr CIP Budget Book for detailed description | | | \$ 13,203,000 | | |
| 2008078 | Palolo Valley Sewer Rehabilitation/ Relief | 2022 | \$ 11,404,000 | \$ 501,000 | \$ - | \$ 11,905,000 | 5/1/2022 | 12/31/2032 | 2010 Consent Decree requirement to be completed after 2020; see 6yr CIP Budget Book for detailed description | \$ 11,905,000 | | | | |
| | Pearl City Basin Gravity Sewer Generic Projects | 2032 | \$ - | \$ - | \$ 362,700,000 | \$ 362,700,000 | 7/1/2033 | TBD | Sewer relief, replacement, rehabilitation in Pearl City Basin; spcific projects currently under evaluation in Wastewater Capacity Management & Monitoring program and further evaluated in Honouliuli WWTP and Sewer Basin Facilities FY27 | | | \$ 181,350,000 | \$ 181,350,000 | |
| | Pearl City Basin WWPSs Generic Projects | 2032 | \$ - | \$ - | \$ 67,100,000 | \$ 67,100,000 | 7/1/2033 | TBD | Resiliency and/or future capacity upgrades for pump stations from Halawa WWPS to Pearl City WWPS; to be evaluated under Honouliuli WWTP and Sewer Basin Facilities FY27 | | \$ 33,550,000 | | \$ 33,550,000 | |
| 2013060 | Pearl City WWPS, Force Main and Sewer System Alternatives | 2013 | \$ - | \$ 750,000 | \$ - | \$ 750,000 | 5/1/2014 | 12/31/2025 | Improvements to the Pearl City WWPS needed until the Pearl City/Waipahu Trunk Sewer is complete; see 6yr CIP Budget Book for detailed description | | | \$ 750,000 | | |
| 2020046 | Pearl City Sewers - Rehabilitation/Replacement | 2026 | \$ 53,804,000 | \$ 2,001,000 | \$ 1,002,000 | \$ 56,807,000 | 5/1/2026 | 12/31/2033 | Rehabilitation/replacement of trunk sewer between Waimalu and Pearl City to accommodate TOD development in Halawa; see 6yr CIP Budget Book for detailed description | | | \$ 28,403,500 | \$ 28,403,500 | |
| 2018057 | Pearl City/Waipahu Trunk Sewer | 2022 | \$ 3,505,000 | \$ 178,002,000 | \$ - | \$ 181,507,000 | 5/1/2022 | 12/31/2035 | New gravity trunk sewer to eliminate Pearl City WWPS and associated force mains; see 6yr CIP Budget Book for detailed description | | | \$ 181,507,000 | | |
| 2001124 | Project Management for Wastewater Projects | 2001 | \$ 9,550,000 | \$ - | \$ - | \$ 9,550,000 | 7/1/2024 | 6/30/2026 | WEC Salaries previously funded through CIP program | | | \$ 9,550,000 | | |
| 2013061 | Punawai WWPS, Force Main System and Sewer Improvements, Kaneohe | 2014 | \$ 3,902,000 | \$ - | \$ - | \$ 3,902,000 | 5/1/2014 | 12/31/2032 | Improvements to the Punawai WWPS, force main, and sewers; see 6yr CIP Budget Book for detailed description | | | \$ 3,902,000 | | |
| 2009112 | Sand Island WWTP and Sewer Basin Facilities | 2029 | \$ 5,000,000 | \$ - | \$ 10,000,000 | \$ 15,000,000 | 5/1/2029 | 12/31/2034 | Facilities planning for the Sand Island WWTP basin to ensure compliance with current/future regulatory requirements and future population and flow projections | \$ 15,000,000 | | | | |
| | Sand Island WWTP Generic Projects | 2032 | \$ - | \$ - | \$ 169,300,000 | \$ 169,300,000 | 7/1/2033 | TBD | Sand Island WWTP improvements and/or resiliency upgrades; to be evaluated in Sand Island WWTP and Sewer Basin Facilities FY19 | | \$ 169,300,000 | | | |
| 2013062 | Sand Island WWTP Improvements / Upgrade | 2013 | \$ 13,001,000 | \$ 100,000 | \$ - | \$ 13,101,000 | 9/1/2013 | 12/31/2031 | Reliability improvements at the Sand Island WWTP; see 6yr CIP Budget Book for detailed description | | | \$ 13,101,000 | | |
| 2012059 | Sand Island WWTP Secondary Treatment | 2016 | \$ 95,765,000 | \$ 1,895,330,000 | \$ 26,005,000 | \$ 2,017,100,000 | 6/1/2016 | 12/31/2036 | 2010 Consent Decree requirement; see 6yr CIP Budget Book for detailed description | \$ 2,017,100,000 | | | | |
| 2018054 | Sand Island WWTP Solids System Improvements/Upgrade | 2021 | \$ 19,500,000 | \$ - | \$ - | \$ 19,500,000 | 5/1/2021 | 12/31/2032 | 2010 Consent Decree requirement; see 6yr CIP Budget Book for detailed description | \$ 19,500,000 | | | | |
| 2007068 | Sewer Condition Assessment Program | 2007 | \$ 5,001,000 | \$ - | \$ - | \$ 5,001,000 | 7/1/2025 | 6/30/2031 | 2010 Consent Decree program requirement; starting in FY26, funding combined under "Sewer Mainline and Lateral Projects" | \$ 5,001,000 | | | | |
| 2019070 | Sewer Easement Access Improvements - Mililani Effluent Sewer, Pacific Palisades, Aiea, Halawa Heights | 2020 | \$ 3,903,000 | \$ - | \$ - | \$ 3,903,000 | 5/1/2020 | 12/31/2029 | Easement access improvements; see 6yr CIP Budget Book for detailed description | | | \$ 3,903,000 | | |

| Project No. | Project Name | FY Funding Start | FY25 - FY31 SW | FY25 - FY31 SR | FY32 - FY40 Funding TBD | FY25 - FY40 Total Project Funding | Project Start/Projected Start | Project End/Projected End | Project Scope | Regulatory | Resilience | Reliability | Future Capacity | System Expansion |
|-------------|--|------------------|----------------|----------------|-------------------------|-----------------------------------|-------------------------------|---------------------------|--|----------------|---------------|---------------|-----------------|------------------|
| 2013063 | Sewer I-I Relief & Rehab Projects - Ala Moana Tributary Basin | 2014 | \$ 7,602,000 | \$ - | \$ - | \$ 7,602,000 | 6/30/2014 | 1/14/2029 | Sewer relief and rehabilitation in the Ala Moana basin; see 6yr CIP Budget Book for detailed description | | | \$ 7,602,000 | | |
| 2013066 | Sewer I-I Relief & Rehab Projects - Windward Area | 2014 | \$ 2,001,000 | \$ 57,802,000 | \$ - | \$ 59,803,000 | 5/1/2014 | 12/1/2031 | Sewer relief and rehabilitation in the Windward area; see 6yr CIP Budget Book for detailed description | | | \$ 59,803,000 | | |
| 2017061 | Sewer I-I Relief & Rehab Projects - Windward, Increment 2 | 2019 | \$ 8,004,000 | \$ 601,000 | \$ - | \$ 8,605,000 | 10/1/2019 | 12/31/2030 | Sewer relief and rehabilitation in the Windward area; see 6yr CIP Budget Book for detailed description | | | \$ 8,605,000 | | |
| 2000071 | Sewer Mainline and Lateral Projects | 2014 | \$ 199,875,000 | \$ - | \$ 261,900,000 | \$ 461,775,000 | Ongoing | Ongoing | 2010 Consent Decree program requirement; see 6yr CIP Budget Book for detail description | \$ 461,775,000 | | | | |
| 2020048 | Sewer Relief & Rehabilitation - Ala Moana Basin | 2023 | \$ 33,001,000 | \$ 36,001,000 | \$ - | \$ 69,002,000 | 4/4/2023 | 12/31/2033 | 2010 Consent Decree requirement to be completed after 2020; see 6yr CIP Budget Book for detailed description | \$ 69,002,000 | | | | |
| 2020049 | Sewer Relief & Rehabilitation -Leeward Area | 2021 | \$ 54,002,000 | \$ - | \$ - | \$ 54,002,000 | 7/1/2021 | 12/31/2031 | 2010 Consent Decree requirement to be completed after 2020; see 6yr CIP Budget Book for detailed description | \$ 54,002,000 | | | | |
| | Wahiawa Basin Gravity Sewer Generic Projects | 2035 | \$ - | \$ - | \$ 24,200,000 | \$ 24,200,000 | 7/1/2035 | TBD | Sewer relief, replacement, rehabilitation in the Wahiawa area; specific projects to be developed under the Central O`ahu Wastewater Facilities Plan FY27 | | | \$ 24,200,000 | | |
| | Wahiawa Basin WWPSs Generic Projects | 2035 | \$ - | \$ - | \$ 27,100,000 | \$ 27,100,000 | 7/1/2035 | TBD | Improvements/upgrades to WWPSs Wahiawa area; specific projects to be developed under the Central O`ahu Wastewater Facilities Plan FY27 | | | \$ 27,100,000 | | |
| 2013069 | Wahiawa, Whitmore Village and Makakilo Area WWPS and Facilities Improvements | 2010 | \$ 27,002,000 | \$ 1,000,000 | \$ - | \$ 28,002,000 | 7/16/2010 | 7/15/2031 | WWPS reliability improvements; project includes Grandview WWPS, Homelani WWPS, Kemoo Farm WWPS, Lakeview Circle WWPS, Nakula WWPS, Ohai Place WWPS, Makakilo City WWPS, & Whitmore Village WWPTF; see 6yr CIP Budget Book for detailed description | | | \$ 28,002,000 | | |
| 2020050 | Wahiawa WWTP - Effluent System & Storage (partially funded by the State) | 2020 | \$ - | \$ 2,150,000 | \$ - | \$ 2,150,000 | 9/1/2020 | 9/30/2027 | Effluent system pumping and storage improvements at the Wahiawa WWTP; see 6yr CIP Budget Book for detailed description | \$ 2,150,000 | | | | |
| | Wahiawa WWTP Generic Projects | 2035 | \$ - | \$ - | \$ 96,700,000 | \$ 96,700,000 | 7/1/2035 | TBD | Improvements/upgrades to the Wahiawa WWTP; specific projects to be developed under the Central O`ahu Wastewater Facilities Plan FY27 | | | \$ 96,700,000 | | |
| 2022048 | Wahiawa WWTP - System Improvements | 2023 | \$ 50,000 | \$ 40,201,000 | \$ - | \$ 40,251,000 | 6/6/2023 | 12/31/2032 | Reliability improvements at Wahiawa WWTP; see 6yr CIP Budget Book for detailed description | | | \$ 40,251,000 | | |
| | Waianae Basin Gravity Sewer Generic Projects | 2032 | \$ - | \$ - | \$ 48,400,000 | \$ 48,400,000 | 7/1/2033 | TBD | Sewer relief, replacement, rehabilitation in the Wahiawa area; specific projects to be developed under the Waianae Wastewater Facilities Plan FY30 | | | \$ 48,400,000 | | |
| | Waianae Basin WWPSs Generic Projects | 2032 | \$ - | \$ - | \$ 36,800,000 | \$ 36,800,000 | 7/1/2033 | TBD | Resiliency and/or future capacity upgrades to WWPSs in the Waianae area; specific projects to be developed under the Waianae Wastewater Facilities Plan FY30 | | \$ 18,400,000 | | \$ 18,400,000 | |
| 2015051 | Waianae Septage Handling Facility | 2029 | \$ - | \$ 3,902,000 | \$ - | \$ 3,902,000 | 7/1/2029 | 12/31/2033 | Septage handling facility at Waianae WWTP; see 6yr CIP Budget Book for detailed description | | | \$ 3,902,000 | | |
| 2010047 | Waianae Wastewater Facilities Plan | 2030 | \$ 2,000,000 | \$ - | \$ 5,000,000 | \$ 7,000,000 | 7/1/2030 | 12/31/2035 | Facilities planning for the Waianae WWTP basin to ensure compliance with current/future regulatory requirements and future population and flow projections | \$ 7,000,000 | | | | |
| new | Waianae WWTP Biogas Energy Recovery | 2023 | \$ - | \$ - | \$ 5,501,000 | \$ 5,501,000 | 7/1/2032 | TBD | Biogas energy recovery facility at Waianae WWTP; planning and design started using Wastewater Treatment Plant, Pump Station, and Force Main Projects FY23 | | \$ 5,501,000 | | | |
| | Waianae WWTP Generic Projects | 2037 | \$ - | \$ - | \$ 30,000,000 | \$ 30,000,000 | 7/1/2037 | TBD | Improvements/upgrades to the Waianae WWTP; specific projects to be developed under the Waianae Wastewater Facilities Plan FY30 | | | \$ 30,000,000 | | |
| 2013067 | Waianae WWTP Improvements / Upgrade | 2015 | \$ 23,804,000 | \$ 16,202,000 | \$ - | \$ 40,006,000 | 7/23/2015 | 12/31/2031 | Rehabilitation/upgrades to Waianae WWTP previously identified by the Waianae Wastewater Facilities Plan FY10; see 6yr CIP Budget Book for detailed description | | | \$ 40,006,000 | | |
| 2017062 | Waianae WWTP Influent Pump Station Upgrade & Flow Equalization | 2028 | \$ 7,704,000 | \$ - | \$ - | \$ 7,704,000 | 5/1/2028 | 12/31/2033 | 2010 Consent Decree requirement to be completed after 2020; see 6yr CIP Budget Book for detailed description | \$ 7,704,000 | | | | |
| 2019050 | Waianae WWTP Recycled Water and Improvements | 2026 | \$ 801,000 | \$ - | \$ - | \$ 801,000 | 5/1/2026 | 12/31/2032 | Recycled water system for in-plant use at Waianae WWTP; see 6yr CIP Budget Book for detailed description | | \$ 801,000 | | | |
| 2020051 | Waimalu Trunk Sewers - Rehabilitation/Replacement | 2024 | \$ 55,304,000 | \$ 11,803,000 | \$ - | \$ 67,107,000 | 4/1/2024 | 12/31/2035 | Rehabilitation/replacement of trunk sewer from Halawa WWPS to Waimalu WWPS; see 6yr CIP Budget Book for detailed description | | | \$ 33,553,500 | \$ 33,553,500 | |
| 2017056 | Waimalu WWPS Force Main System | 2017 | \$ 1,902,000 | \$ 1,202,000 | \$ - | \$ 3,104,000 | 12/1/2017 | 12/31/2028 | 2010 Consent Decree requirement under force main program; see 6yr CIP Budget Book for detailed description | \$ 3,104,000 | | | | |
| | Waimānalo Basin Gravity Sewer Generic Projects | 2032 | \$ - | \$ - | \$ 21,800,000 | \$ 21,800,000 | 7/1/2033 | TBD | Sewer relief, replacement, rehabilitation in the Wahiawa area; specific projects to be developed under the Waimanalo Wastewater Facilities Plan FY23 | | | \$ 21,800,000 | | |
| 2023054 | Waimanalo Wastewater Facilities Plan | 2039 | \$ - | \$ - | \$ 5,000,000 | \$ 5,000,000 | 7/1/2039 | TBD | Facilities planning for the Waimanalo WWTP basin to ensure compliance with current/future regulatory requirements and future population and flow projections | \$ 5,000,000 | | | | |
| | Waimanalo WWTP Generic Projects | 2041 | \$ - | \$ - | \$ 32,200,000 | \$ 32,200,000 | 7/1/2041 | TBD | Improvements/upgrades to the Waimanalo WWTP; specific projects to be developed under the Waimanalo Wastewater Facilities Plan FY23 | | | \$ 32,200,000 | | |

| Project No. | Project Name | FY Funding Start | FY25 - FY31 SW | FY25 - FY31 SR | FY32 - FY40 Funding TBD | FY25 - FY40 Total Project Funding | Project Start/Projected Start | Project End/Projected End | Project Scope | Regulatory | Resilience | Reliability | Future Capacity | System Expansion |
|-------------|--|------------------|----------------|----------------|-------------------------|-----------------------------------|-------------------------------|---------------------------|---|---------------|----------------|----------------|-----------------|------------------|
| new | Waimanalo WWTP Recycled Water and Improvements | 2033 | \$ - | \$ - | \$ 100,000,000 | \$ 100,000,000 | | | Recycled water system at Waimanalo WWTP and associated distribution system; specific projects to be developed under Waimanalo Wastewater Facilities Plan FY23 | | \$ 100,000,000 | | | |
| 2019066 | Waimanalo WWTP - Solids System Improvements | 2020 | \$ - | \$ 17,402,000 | \$ - | \$ 17,402,000 | 5/1/2020 | 12/31/2029 | Improvements to the solids handling system at Waimanalo WWTP; see 6yr CIP Budget Book for detailed description | | | \$ 17,402,000 | | |
| | Waipahu NORTH Basin Gravity Sewer Generic Projects | 2032 | \$ - | \$ - | \$ 145,100,000 | \$ 145,100,000 | 7/1/2033 | TBD | TOD sewer relief, replacement, and/or rehabilitation in the northern Waipahu area; specific projects currently under evaluation in Wastewater Capacity Management & Monitoring program and further evaluated in Honouliuli WWTP and Sewer Basin Facilities FY27 | | | \$ 72,550,000 | \$ 72,550,000 | |
| | Waipahu SOUTH Basin Gravity Sewer Generic Projects | 2032 | \$ - | \$ - | \$ 145,100,000 | \$ 145,100,000 | 7/1/2033 | TBD | TOD sewer relief, replacement, and/or rehabilitation in the southern Waipahu area; specific projects currently under evaluation in Wastewater Capacity Management & Monitoring program and further evaluated in Honouliuli WWTP and Sewer Basin Facilities FY27 | | | \$ 72,550,000 | \$ 72,550,000 | |
| 2012053 | Waipahu WWPS Force Main (NEW) | 2012 | \$ 4,903,000 | \$ 15,000,000 | \$ - | \$ 19,903,000 | 10/16/2012 | 12/31/2031 | New Waipahu WWPS force main to meet future flows; see 6yr CIP Budget Book for detailed description | | | | \$ 19,903,000 | |
| 2018056 | Waipahu WWPS No.2 (new) (formerly "Pearl City/Waipahu Tunnel WWPS) | 2024 | \$ 5,501,000 | \$ 71,203,000 | \$ 2,405,000 | \$ 79,109,000 | 7/18/2024 | 12/31/2035 | New pump station in the vicinity of the existing Waipahu WWPS to provide capacity for future growth; see 6yr CIP Budget Book for detailed description | | | | \$ 79,109,000 | |
| 2018053 | Waipahu WWPS Force Mains Rehabilitation | 2020 | \$ 1,502,000 | \$ 132,503,000 | \$ - | \$ 134,005,000 | 5/1/2020 | 12/31/2032 | Rehabilitation/improvement of two force mains from Waipahu WWPS; see 6yr CIP Budget Book for detailed description | | | \$ 134,005,000 | | |
| 2000038 | Wastewater Equipment | 2000 | \$ 74,212,000 | \$ - | \$ 90,000,000 | \$ 164,212,000 | Ongoing | Ongoing | Major equipment needed for wastewater function | | | \$ 164,212,000 | | |
| 1998806 | Wastewater Facilities Replacement Reserve | 1998 | \$ 35,000,000 | \$ - | \$ 45,000,000 | \$ 80,000,000 | Ongoing | Ongoing | Federal law administered by EPA requires reserve funds for facility replacement; see 6yr CIP Budget Book for detailed description | \$ 80,000,000 | | | | |
| 2003151 | Wastewater Planing and Programming | 2003 | \$ 425,000 | \$ - | \$ - | \$ 425,000 | 7/1/2024 | 6/30/2026 | OAS Program Coordination Salaries previously funded through CIP program | | | \$ 425,000 | | |
| 2007073 | Wastewater Program Management | 2007 | \$ 5,000,000 | \$ - | \$ - | \$ 5,000,000 | 7/1/2024 | 6/30/2026 | Wastewater program management services for wastewater projects; see 6yr CIP Budget Book for detailed description | | | \$ 5,000,000 | | |
| 2018052 | Wastewater Pump Stations - Electrical and SCADA Improvements | 2024 | \$ 15,000,000 | \$ - | \$ - | \$ 15,000,000 | 7/1/2024 | 6/30/2026 | Electrical and SCADA improvemens at WWPS; see 6yr CIP Budget Book for detailed description | | | \$ 15,000,000 | | |
| 2001062 | Wastewater Treatment Plant, Pump Station And Force Main Projects | 2020 | \$ 88,245,000 | \$ - | \$ 176,414,000 | \$ 264,659,000 | Ongoing | Ongoing | High priority projects required at treatment plants and pump stations, and associated force mains; see 6yr CIP Budget Book for detailed description | \$ 66,164,750 | \$ 66,164,750 | \$ 66,164,750 | \$ 66,164,750 | |
| 2019051 | West Loch Estates WWPS Upgrade | 2021 | \$ 5,850,000 | \$ 251,000 | \$ - | \$ 6,101,000 | 5/1/2021 | 12/1/2030 | Upgrades to West Loch Estates WWPS; see 6yr CIP Budget Book for detailed description | | | \$ 6,101,000 | | |
| | IMPROVEMENT DISTRICT - SEWERS | | | | | | | | | | | | | |
| 1971280 | Aiea Heights Sewers, Section 4, Improvement District | 2028 | \$ - | \$ 3,504,000 | \$ - | \$ 3,504,000 | 5/1/2029 | 12/31/2032 | Est. 132 unsewered lots; requires pump station or low pressure sewer system; see 6yr CIP Budget Book for detailed description | | | | | \$ 3,504,000 |
| new | Crater Road, Kaimuki Sewers, Improvement District | 2031 | \$ 301,000 | \$ - | \$ 28,602,000 | \$ 28,903,000 | 7/1/2032 | TBD | Est. 85 unsewered lots; connection method under evaluation in Sand Island WWTP and Sewer Basin Facilities FY19 | | | | | \$ 28,903,000 |
| 1971276 | Diamond Head Sewers, Improvement District | 2025 | \$ - | \$ 4,502,000 | \$ - | \$ 4,502,000 | 5/1/2025 | 12/31/2033 | Est. 215 unsewered lots in Black Point, est. 45 unsewered lots in Diamond Head, and est. 10 unsewered lots on Aukai Ave; combindation of gravity and low pressure sewer system; see 6yr CIP Budget Book for detailed description | | | | | \$ 4,502,000 |
| 1997811 | Ewa Beach Sewers, Section 4, Improvement District | 2020 | \$ - | \$ 79,003,000 | \$ - | \$ 79,003,000 | 12/1/2020 | 6/30/2029 | Est. 979 unsewered lots; see 6yr CIP Budget Book for detailed description | | | | | \$ 79,003,000 |
| new | Holouku/Maeha Sewers, Improvement District, Kaneohe | 2027 | \$ 3,903,000 | \$ - | \$ - | \$ 3,903,000 | 7/20/2032 | 7/20/2035 | Est. 27 unsewered lots; connection by new gravity sewers; see 6yr CIP Budget Book for detailed description | | | | | \$ 3,903,000 |
| new | Honouliuli Sewers, Improvement District | 2032 | \$ - | \$ - | \$ 6,403,000 | \$ 6,403,000 | 7/1/2033 | TBD | Est. 20 unsewered parcels; connection method to be evaluated under Honouliuli WWTP and Sewer Basin Facilities | | | | | \$ 6,403,000 |
| 1981040 | Kahaluu Sewers, Section 3, Improvement District | 2025 | \$ - | \$ 11,253,000 | \$ - | \$ 11,253,000 | 7/1/2027 | 12/31/2033 | Est. 297 unsewered lots; connection method under evaluation in planning phase; see 6yr CIP Budget Book for detailed description | | | | | \$ 11,253,000 |
| 2015052 | Kahaluu Sewers, Section 5, Improvement District | 2030 | \$ 401,000 | \$ - | \$ 8,603,000 | \$ 9,004,000 | 2/1/2032 | 6/1/2038 | Est. 124 unsewered lots; connection method under evaluation in planning phase; see 6yr CIP Budget Book for detailed description | | | | | \$ 9,004,000 |
| 2015053 | Kailua Sewers, Section 10, Improvement District | 2020 | \$ 17,401,000 | \$ - | \$ - | \$ 17,401,000 | 12/1/2020 | 12/31/2030 | Est. 174 unsewered lots; connection method under evaluation in planning phase; see 6yr CIP Budget Book for detailed description | | | | | \$ 17,401,000 |
| 2005064 | Kamehameha Highway Sewers, Improvement District, Kaneohe | 2025 | \$ - | \$ 2,502,000 | \$ - | \$ 2,502,000 | 5/1/2025 | 12/1/2036 | Est. 37 unsewered lots; requires low pressure sewer system; see 6yr CIP Budget Book for detailed description | | | | | \$ 2,502,000 |
| new | Kaneohe Sewers, Section 10, Improvement District | 2032 | \$ - | \$ - | \$ 11,804,000 | \$ 11,804,000 | 7/1/2032 | TBD | Est. 28 unsewered lots; connection method under evaluation in Kailua WWTP and Sewer Basin Facilities FY19 | | | | | \$ 11,804,000 |
| 1972065 | Maikiki Heights and Puowaina Drive Sewers, Improvement District | 2032 | \$ - | \$ - | \$ 182,903,000 | \$ 182,903,000 | 7/1/2032 | TBD | Est. 306 unsewered lots; connection method under evaluation in Sand Island WWTP and Sewer Basin Facilities FY19 | | | | | \$ 182,903,000 |
| new | Makaha Sewers, Section 5, Improvement District | 2032 | \$ - | \$ - | \$ 102,503,000 | \$ 102,503,000 | 7/1/2032 | TBD | Est. 134 unsewered lots; requires pump station or low pressure sewer system | | | | | \$ 102,503,000 |
| new | Manoa Sewers, Improvement District | 2032 | \$ - | \$ - | \$ 4,502,000 | \$ 4,502,000 | 7/1/2032 | TBD | Est. 11 unsewered lots; connection method under evaluation in Sand Island WWTP and Sewer Basin Facilities FY19 | | | | | \$ 4,502,000 |
| new | Maunawili Circle Sewers, Improvement District, Kailua | 2032 | \$ - | \$ - | \$ 4,002,000 | \$ 4,002,000 | 7/1/2032 | TBD | Est. 18 unsewered lots; connection method under evaluation in Kailua WWTP and Sewer Basin Facilities FY19 | | | | | \$ 4,002,000 |

| Project No. | Project Name | FY Funding Start | FY25 - FY31 SW | FY25 - FY31 SR | FY32 - FY40 Funding TBD | FY25 - FY40 Total Project Funding | Project Start/Projected Start | Project End/Projected End | Project Scope | Regulatory | Resilience | Reliability | Future Capacity | System Expansion |
|-------------|--|------------------|----------------|----------------|-------------------------|-----------------------------------|-------------------------------|---------------------------|---|------------|------------|-------------|-----------------|------------------|
| new | Puowaina Drive -Punchbowl Sewers, Improvement District | 2032 | \$ - | \$ - | \$ 21,703,000 | \$ 21,703,000 | 7/1/2032 | TBD | Est. 51 unsewered lots; connection method under evaluation in Sand Island WWTP and Sewer Basin Facilities FY19 | | | | | \$ 21,703,000 |
| new | Waianae Area Sewers, Improvement District | 2032 | \$ - | \$ - | \$ 11,303,000 | \$ 11,303,000 | 7/1/2032 | TBD | Est. 121 unsewered lots; connection by new gravity sewers | | | | | \$ 11,303,000 |
| 2015054 | Waimanalo Sewers, Section 2, Improvement District | 2027 | \$ 17,403,000 | \$ - | \$ - | \$ 17,403,000 | 5/1/2027 | 12/1/2033 | Est. 450 unsewered lots; connection method under evaluation under FY23 Waimanalo Wastewater Facilities Plan; see 6yr CIP Budget Book for detailed description | | | | | \$ 17,403,000 |

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|---------|-------------------|
| TOTAL = | \$ 10,104,566,002 |
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| | | | | | |
|------------------------------|------------------|----------------|------------------|------------------|----------------|
| Project Category Subtotals = | \$ 3,671,339,750 | \$ 813,502,083 | \$ 3,404,753,085 | \$ 1,690,470,083 | \$ 524,501,000 |
|------------------------------|------------------|----------------|------------------|------------------|----------------|

| | | | | | |
|---|-----|----|-----|-----|----|
| Project Category Subtotal Percentages = | 36% | 8% | 34% | 17% | 5% |
|---|-----|----|-----|-----|----|