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DEPARTMENT OF ENVIRONMENTAL SERVICES
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CITY AND COUNTY OF HONOLULU

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IN REPLY REFER TO:
DIR 25-13

March 5, 2025

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: Responses to Questions Regarding Bill 60 (2024)
Proposed Increase in Sewer Fees

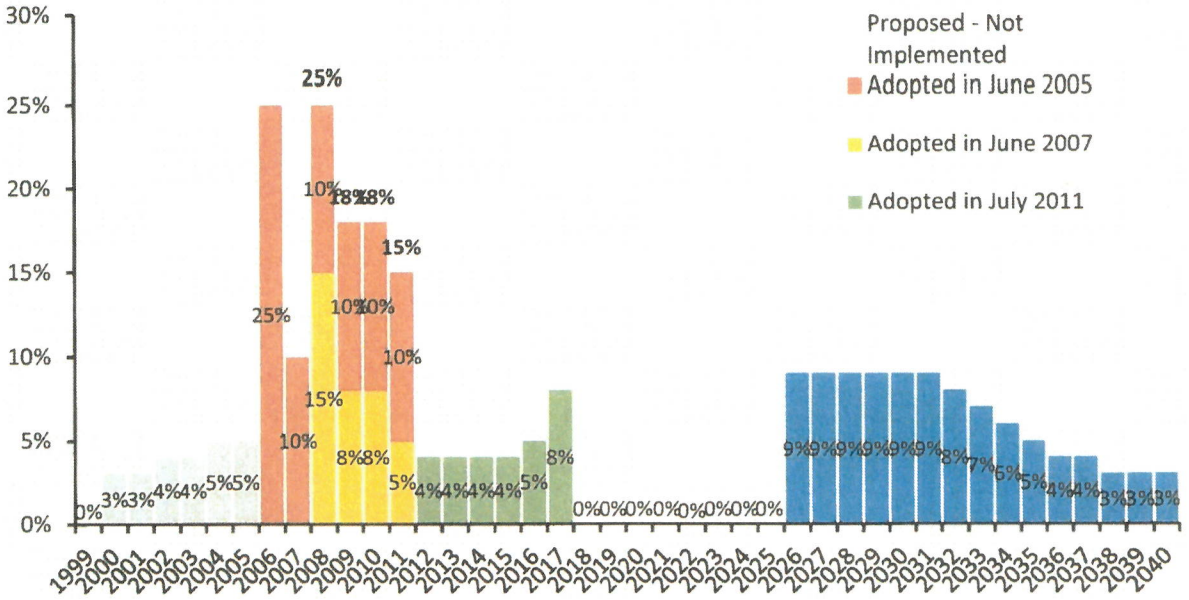
Thank you for your letter dated February 11, 2025, requesting information related to administration-initiated Bill 60 (2024) To Amend Chapter 43 of the Revised Ordinances of Honolulu 2021, Relating to Sewers, Drainage, and Cesspools. Bill 60 proposes a 10-year package of Sewer Fee Increases. The Department of Environmental Services (ENV) welcomes the opportunity to provide detailed information to you, the City Council and the public regarding the rationale behind the compelling need to raise Sewer Fees to continue to provide essential sewer service to the people of Honolulu through a program that includes proactive maintenance, refurbishment and modernization of infrastructure while continuing to meet current regulatory requirements and the terms of the 2010 Consent Decree.

ENV contracted with a consultant, CDM Smith, and formed a stakeholder advisory group to assist with the evaluation and development of necessary sewer rate increases, rates structure changes and low-income customer assistance programs. CDM Smith began work in August 2022. The advisory group was formed via invitations from the Mayor and held its first meeting in May 2024. The effort resulted in a Sewer Rate Study Report which is included as an attachment to this letter. The rate study report provides detailed information on the rate setting process.

1. **Please provide a detailed history and timeline of the sewer fund rates for the last 20 years.**

Response: The following Figure shows the historic rate increases in Sewer Fees from FY 1999 through the present and including the proposed 10-year rate increase package and beyond:

DEPT. COM. 158



Year 1999 began a long period of 7 years with no rate increases (increases were proposed but not implemented) followed by a period of 6 years of very high rate increases followed immediately by 6 years of moderate rate increases and then a period of 8 years with no rate increases. If moderate increases of three percent (3%) to four percent (4%) per year had been maintained over the past 8 years, the increases shown in the coming years would not be as large. The up-and-down pattern of rate increases is not conducive to good financial planning for the citizens or businesses of Honolulu. It is recommended that moderate annual rate increases, tied to the local inflation rate, become effectively automatically. This could be accomplished, similarly to other large U.S. utilities, by giving ENV the authority in ROH 43 to increase rates annually by no more than the local inflation rate or a set number such as three percent (3%). Any larger increases needed due to regulatory changes or other factors would require ENV to go back to Council and the public with a request to amend the ordinance.

a. Please describe the process for setting rates.

Response: The rate setting process is described in the Sewer Rate Study report (SRS) (attached). The SRS was completed by ENV consultant CDM Smith which started work in August 2022. The SRS has a study period of FY2025 through FY2035. To summarize the process; Step 1 was to estimate projected revenues under current rates *without raising rates*. Step 2 was to estimate revenue requirements. Operations and Maintenance (O&M) costs were generated using the approved FY 2025 sewer fund budget and escalated assuming values for annual inflation (FY2026-4.0%, FY2027-3.5%, FY2028 thru FY2035-3.0%). Debt Service (DS) costs were estimated from the Capital Improvement Plan (CIP) spending each year and include estimated DS on SRF loans anticipated to be received and DS on projected wastewater revenue bonds sales, including principal and interest. ENV also funds a portion of its CIP with sewer fund cash. Reserve fund (R) contributions are also calculated by the financial model

based on bond covenant requirements. Step 3 was to determine annual rate increases to meet the revenue requirements using various rate structure alternatives. Step 4 was to work with our Stakeholder Advisory Group to develop the recommended fee increase schedule for FY2026 to FY2035. Our Stakeholder Advisory Group, consisting of thirty-five (35) members with diverse backgrounds, met 6 times at the Blaisdell Center between May and October 2024 to provide feedback on proposed rates, rate structures and customer assistance programs. Part of the process was looking at how to spread the rate increases such that all annual increases are less than 10% to avoid rate shock, smooth out financial impacts on residents and businesses to allow financial planning, and to facilitate schedule acceptance. It is noted that smaller percentage increases are possible in the first few years, however, greater than ten percent (10%) increases are then required in some later years (several examples are shown below).

b. Please include the proposed amount of any increase or decrease in the rates and the rationale for the rate changes.

Response: The rationale is described in the SRS and summarized in 1a above. The proposed rate increases are as follows:

Year	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY33	FY34	FY35
Annual % Increase	9	9	9	9	9	9	8	7	6	5
Total % Increase	9.0	18.8	29.5	41.2	53.9	67.7	81.1	93.8	105.4	115.7
Total % Inflation	4	7.6	10.9	14.2	17.6	21.2	24.8	18.5	32.4	36.4

Alternative rate increase schedules that were considered are as follows (these all achieve the same necessary annual revenue requirements):

Year	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY33	FY34	FY35
Alternative Annual % Increase	8	8	8	8	10	10	9	6	6	6
Alternative Annual % Increase	7	7	7	7	12	12	10	6	6	6
Alternative Annual % Increase	2	11	11	11	11	9	8	7	6	5
Alternative Annual % Increase	2	6	12.5	12.5	12.5	9	8	7	6	5

2. Please break down in detail and year by year what the recent projected increase in Sewer Fees fund would be used for.

a. Include detailed projections of the annual income from the Sewer Fees and specifically how those funds are projected to be spent each year.

Response: The following table shows the additional revenue the proposed rates would generate each year. It also shows the projected expenses by category over the 10-year period. The projected use of existing cash in the sewer fund to pay for a portion of the CIP is shown as well as the total expenses projected over the 10-year period. It is noted here that the sewer cash fund currently has a balance of approximately $1.3 billion and that the proposed spend plan in the table draws this cash fund down to approximately $400 million over the 10-year period to reduce necessary sewer rate increases while also maintaining all financial bond coverage legal requirements. Numbers are shown in thousands ($000's) of dollars.

	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	Total
Proposed Rate Increases	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%	8.0%	7.0%	6.0%	5.0%	115%
Additional Rate Revenue	**$41.1**	**$86.0**	**$134.8**	**$188.1**	**$246.2**	**$309.5**	**$370.8**	**$428.7**	**$481.9**	**$528.8**	**$2,815.8**
Total Annual Revenue	$430.6	$435.2	$456.0	$498.4	$552.9	$628.7	$675.4	$705.9	$732.9	$746.4	$5,862.4
Projected Expenses											
Operations and Maintenance	$231.6	$237.7	$243.9	$252.7	$262.2	$272.5	$282.6	$291.4	$299.9	$308.1	$2,682.7
Existing Debt Service	$179.4	$173.1	$166.5	$172.7	$177.2	$199.6	$200.9	$197.2	$197.2	$177.7	$1,841.5
Anticipated New Debt Service	$21.6	$37.8	$53.0	$75.2	$107.1	$141.3	$175.3	$206.4	$227.7	$256.6	$1,301.9
Reserve Contributions	$12.4	$0.5	$6.2	$10.8	$18.4	$25.6	$25.5	$18.2	$14.4	$9.8	$141.8
Total Expenses prior to Cash Funded Capital	**$444.9**	**$449.1**	**$469.6**	**$511.4**	**$564.9**	**$639.0**	**$684.3**	**$713.3**	**$739.3**	**$752.1**	**$5,968.0**
Cash Funded Capital	$149.8	$137.5	$168.1	$208.8	$258.6	$301.1	$316.6	$320.6	$316.7	$300.3	$2,477.9
Total Annual Expenditures	**$594.7**	**$586.6**	**$637.7**	**$720.2**	**$823.5**	**$940.1**	**$1,000.9**	**$1,033.9**	**$1,056.0**	**$1,052.4**	**$8,445.9**

The following table provides more details about ENV's Capital Program for the 10-year rate setting period. The Capital Program includes all of ENV's projects, including the Sand Island WWTP Secondary Upgrade Project required for the 2010 Consent Decree. The data shows ENV's financial strategy of using a combination of bond debt paid off over 30 years and sewer cash to finance the program over time while maintaining moderate (less than 10%) rate increases in any future year. The difference between total expenditures of $6.45 billion and total payments of $3.78 billion equals the amount of capital ($2.67 billion) that is stretched out over the following 30 years.

	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	Total
Projected CIP Program Expenses	**$391.8**	**$406.2**	**$566.5**	**$787.7**	**$882.4**	**$924.2**	**$887.3**	**$705.0**	**$483.9**	**$414.4**	**$6,449.4**
Projected CIP Program Payments - CASH	$149.8	$137.5	$168.1	$208.8	$258.6	$301.1	$316.6	$320.6	$316.7	$300.3	$2,477.9
Projected CIP Program Payments - NEW BOND DEBT	$21.6	$37.8	$53.0	$75.2	$107.1	$141.3	$175.3	$206.4	$227.7	$256.6	$1,301.9
Projected CIP Program TOTAL Payments (not including current outstanding debt service)	**$171.3**	**$175.2**	**$221.1**	**$284.0**	**$365.7**	**$442.4**	**$491.8**	**$527.0**	**$544.4**	**$556.8**	**$3,779.8**

Details of budgeted projects, including descriptions and budgeted amounts for all phases of work (P, D, C, I) are included in ENV's 6-year CIP program (submitted to Council by Mayor on February 26, 2025).

b. Please provide a list, details, and amounts of any projects that would not be completed each year without the proposed increase in fees, including the impact to the City of any project delayed or not completed.

Response: The following table shows the total projected annual revenue without the proposed rate increases. It also shows the total projected existing obligations (projected operations and maintenance + existing debt service + reserve contributions). The data indicates that if no new debt is issued, the projected total revenues ($4,665.8) would almost exactly equal the existing obligations ($4,666.1). This means that the only Capital Projects that could be completed would be with sewer cash to partly draw down the cash fund. An estimate of $50 million per year ($500 million total) could perhaps be used for this while maintaining required legal sewer bond debt coverages. This is in comparison to the total projected Capital Program of $6.45 billion. $500 million is about eight percent (8%) of the Capital Program, meaning that 92% of all the planned Capital Projects could not be completed, including the 2010 Consent Decree projects. Many projects are needed for regulatory compliance, system refurbishment, replacement and upgrades, in addition to the required Consent Decree projects. The impacts of not completing 92% of ENV's Capital Projects would likely include effluent permit exceedances, increased sewer spills, increased enforcement actions (violations, fines, orders), and generally more pollution of water.

	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	Total
Total Annual Revenue without Rate Increases	$471.3	$470.9	$470.6	$470.0	$469.0	$467.4	$465.9	$464.5	$463.4	$452.8	$4,665.8
Existing Obligations without Issuing Any New Debt	$423.4	$411.3	$416.6	$436.2	$457.8	$497.8	$509.0	$506.9	$511.5	$495.6	$4,666.1

3. These sewer system upgrades started with the 1995 Consent Decree.

a. Please show us what was spent complying with that 1995 Consent Decree.

Response: Our records do not go back that far. However, the 1999 Final Infiltration/Inflow (I/I) Plan was developed for the 1995 Consent Decree. This plan included a 20-year Rehabilitation Capital Improvement Plan (Rehabilitation CIP). The Rehabilitation CIP included a prioritized list of projects that were developed to address structural and hydraulic deficiencies identified by the assessment program completed under the 1999 Consent Decree. The Rehabilitation CIP divided the projects into "Blocks". "Block 1" projects were completed from January 1, 2002 through December 31, 2004. "Block 2" projects were completed from January 1, 2005 through December 31, 2009. "Block 3" projects (January 1, 2010 to December 31, 2014) and "Block 4" projects (January 1, 2015 to December 31, 2019) were to be re-evaluated after the completion of the "Block 1" and "Block 2" projects because they were conceptual in nature and required additional planning and design before they could be executed. The "Block 3" and "Block 4" projects were re-evaluated and incorporated into the 2010 comprehensive settlement. We do not have the costs for the Block 1 and Block 2 projects that were completed.

b. What costs are associated with the 2007 stipulated order?

Response: The requirements included in the 2007 stipulated order centered around specific Wastewater Pump Station (WWPS) Force Main (FM) condition assessments and WWPS FM improvements. These requirements were incorporated and expanded in the 2010 comprehensive settlement. These costs are described below.

c. What are the costs associated with the 2010 comprehensive settlement?

Response: The costs associated with the 2010 comprehensive settlement consist of costs associated with specific CIP as well as overall programs (i.e. Force Main Spill Contingency Program; Force Main Condition Assessments and Follow-up Action Plans; Force Main Maintenance and Spill Prevention Programs; Gravity Main Condition Assessment; Gravity Main Rehabilitation and Replacement; Gravity Main Cleaning and Maintenance; Commercial FOG Control Program; Staffing Commitments; Equipment Commitments; Spill Response, Monitoring, Reporting). As of December 2024, ENV has expended approximately $2.18 billion in Sewer Bond funds and approximately $630 million in Sewer Cash funds, for a current total around $2.81 billion. This estimate includes the completion of the Honouliuli WWTP Upgrade to Secondary Treatment (2010 Consent Decree, Paragraph 30) and only a portion of the Sand Island WWTP Upgrade Phase I to Secondary Treatment (2010 Consent Decree, Paragraph 31.b). The Sand Island WWTP Upgrade Phase I is currently under construction and the Sand Island WWTP Upgrade Phase II (2010 Consent Decree, Paragraph 31.a) is currently in design. These totals include completed designs and construction projects as well as the full contract amounts for in-progress construction projects. The attached spreadsheet (2010 CD Cost Summary – 5 parts) contains details of spending on the Consent Decree.

d. Since the 1995 Consent Decree, have the Sewer Rates been consistently adjusted to provide the funding for the anticipated costs that the Consent Decree, the stipulated order, and the settlement were projected to incur?

Response: No, the rates have not been consistently adjusted to provide the anticipated funding needs. The graph provided for question 1 shows multi-year gaps in Sewer Fee Increases. However, fees have been increased inconsistently by a large enough amount for ENV to entirely meet all requirements of these orders, on-time and on-budget, including planning, designing, and constructing all required projects and meeting all milestones and deadlines. ENV remains on schedule to complete the remainder of the milestones and deadlines in the comprehensive settlement.

i. If the rates were not consistently adjusted to account for the projected costs, please explain why and the impact of the lack of such adjustments to ratepayers.

Response: This administration cannot opine on why rate increases were not implemented prior to 2021 when Mayor Blangiardi was not in office. However, 2021-2024 were the COVID pandemic years, followed by recovery of the economy from the COVID pandemic. During that period which included significant subsidization of rent and utilities for low income families on O'ahu, there was no appetite for even moderate Sewer Fee Increases and none were proposed.

ENV did commence the rate study in 2022 to lay the groundwork for the currently proposed Sewer Fee Increases.

The result of not increasing Sewer Rates every year is to necessitate larger increases in the years when increases do occur. It can be calculated that an average rate increase of about 6% annually, if they had been implemented every year over the past 20 years and continued into the next 10 years, would meet all of the funding needs for the sewer program for the 30-year period.

4. **What is the total projected cost of the Sand Island WWTP project?**

Response: The project consists of four (4) construction projects. The secondary treatment process has two (2) phases, the first phase is under construction (2022-2026), is 60% complete, and has a contract award cost of $458.5 million. The designer is AECOM and the construction contractor is Hensel Phelps. The second phase of the secondary treatment process is currently in design, to be bid/awarded in 2028, and begin construction in 2029 with completion in 2035 at a cost of $1.8 billion. Included as part of the first phase is the Maintenance Building, Grit, Septage, Site Improvements (MBSSI) project which is currently under construction (2020-2026), is 60% complete, and has a contract award cost of $96.5 million. The designer is AECOM and the contractor is Hawaiian Dredging. Also part of the second phase the addition of two anaerobic digesters (project funded as an amendment to ENV's contract with Synagro who operates ENV's two (2) existing digesters and the biosolids dryer). The designer is Stantec, the contractor is Hensel Phelps, the awarded contract cost is $191 million, and the construction period is 2024-2028). This gives a total construction cost of: $2.55 billion. Additional costs include planning, design and construction management costs, with an approximate total cost of $297 million.

   a. **Please break down the total cost of the SIWWTP upgrade by budget year. Please provide details on each project line item (planning, design, construction, inspection, etc.), including detailed costs.**

Response: The following table shows the total estimated costs for design and construction of the Sand Island WWTP Secondary Upgrade Project (Phases 1 and 2) for the 2010 Consent Decree. Much of this work is still in progress. Additional details are contained below and in ENV's 6-year CIP.

PROJECT	PROJECTED DESIGN COST	PROJECTED CONSTRUCTION COST
Sand Island Maintenance Bldg, Grit, Septage, Site Improvements	Included in SI- Phase 1	$ 96,465,984.67
Sand Island Secondary Phase 1	$ 71,003,000.00	$ 458,485,902.33
Sand Island Secondary Phase 2	$ 226,500,000.00	$ 1,800,000,000.00

Synagro Digesters	N/A (part of design/build contract)	$ 191,462,600.00
TOTAL:	$ 297,503,000.00	$ 2,546,414,487.00
Grand total (Design + Construction)	$ 2,843,917,487.00	

Sand Island Secondary Treatment Project Phase 1, Planning and Design. Design consultant: AECOM. Total Cost Encumbered by Fiscal Year:

Fiscal Year	Planning	Design	Total
FY15	$ 2,000,000	$ 1,000	$ 2,001,000
FY17	$ 4,000,000	$ 1,000	$ 4,001,000
FY18	$ 500,000	$ 14,000,000	$ 14,500,000
FY19	$ 500,000	$ 30,000,000	$ 30,500,000
FY20	$ 1,000	$ 20,000,000	$ 20,001,000
Total			$ 71,003,000

Phase 1 planning included numerous planning reports and culminated in a Design Definition and Conceptual Design Report. Design included a Basis of Design Report, 30%, 60%, 90%, 100%, and Final Plans and Specifications, application and approval of required permits and clearances, and services during construction.

Sand Island Secondary Treatment Project Phase 2, Planning and Design. Design consultants are RM Towill and Stantec.

Total Cost Encumbered by Fiscal Year (Projections shown for FY26-34).

Fiscal Year	Planning	Design	Total
FY21	$ 8,000,000	$ 8,000,000	$ 16,000,000
FY23	$ 6,000,000	$ 15,000,000	$ 21,000,000
FY24	$ 8,000,000	$ 24,000,000	$ 32,000,000
FY25	$ 5,000,000	$ 42,500,000	$ 47,500,000
FY26	$ 5,000,000	$ 30,000,000	$ 35,000,000
FY27	$ 5,000,000	$ 6,000,000	$ 11,000,000
FY28	$ 4,000,000	$ 12,000,000	$ 16,000,000
FY29	$ 2,000,000	$ 13,000,000	$ 15,000,000
FY30	$ 2,000,000	$ 12,000,000	$ 14,000,000
FY31	$ 2,000,000	$ 3,000,000	$ 5,000,000
FY32	$ 1,000,000	$ 3,000,000	$ 4,000,000
FY33	$ 1,000,000	$ 3,000,000	$ 4,000,000

FY34	$ 1,000,000	$ 5,000,000	$ 6,000,000
Total			$226,500,000

Phase 2 planning includes numerous planning reports, pilot testing of the selected treatment alternative, and will culminate in an Engineering Report/Basis of Design Report. Design will include 30%, 60%, 90%, 100%, and Final Plans and Specifications, application and approval of required permits and clearances, and services during construction including plant operations optimization.

b. What are the milestones for the project? What are the timing and costs to reach each milestone? What are the potential roadblocks or delays for each milestone? By what amount would each delayed milestone delay project completion and increase costs?

Response: The milestones for Phase 1 of the project coincide with two (2) of the milestones listed in the Consent Decree and are summarized below:

- By January 1, 2019 - Execute a design contract and issue a notice to proceed for design of Phase 1; and
- By January 1, 2022 - Execute a construction contract and issue a notice to proceed for construction for Phase 1.

The table below summarizes the timing to reach each milestone and the cost to reach each milestone.

Milestone	NTP Date	Consent Decree Deadline	Engineering Cost	Notes
Contract NTP	5/9/2016 (Consultant)	-	$5,479,330.68	Planning
Execute Design Contract and Issue Notice to Proceed	12/31/2018 (Consultant)	1/1/2019	$25,461,726.93	Design
Execute Construction Contract and Issue Notice to Proceed	12/13/2021 (Contractor)	1/1/2022	$21,153,492.42	Design-Services During Construction

There is no milestone for construction completion for this phase of secondary upgrade. The work is well underway and on schedule to complete by December 2026.

The Phase 2 Consent Decree milestones are:

- By January 1, 2030 - Execute a construction contract and issue a notice to proceed for full secondary treatment upgrade facilities; and
- By December 31, 2035 – Construction complete for full secondary facilities.

Design Cost to reach January 1, 2030 milestone: $207,500,000

Design Cost to reach December 31, 2035 milestone: $226,500,000

The Consent Decree contains various stipulated daily monetary penalties for failing to achieve these project milestones. Penalties depend on number of days over the deadline that City performs the requirement. The more days over the deadline, the higher the penalty per day.

c. What contracts have been or are projected to be procured? Who are the contractors engaged by ENV for the project? What are the contracts for and what is the cost of each contract? What is the status of each contract?

Response: These questions are answered in part 2b above.

d. How will the tariffs implemented and proposed by President Trump impact the costs of the upgrades and the total cost of the SIWWTP projects?

Response: Tariffs on construction materials/equipment can have an effect on the cost of construction of all City projects, if items subject to tariffs are utilized. The cost effect will depend on when each project goes out to bid AND when the contractor actually purchases any materials subject to tariffs. For SIWWTP Phase 2 upgrades, the project will go out to bid in 2028 and NTP for construction is anticipated in 2029, with contractor procurement occurring after NTP and over 5-6 years. It is not possible at this time to predict the effect of any current/future tariffs on this specific project. We will likely see effects of tariffs on projects currently underway and projects that are bidding in the near future.

5. What is the total spent cost to date of the Sand Island Wastewater Treatment Plant project?

Response: The total estimated cost of the Sand Island Secondary Upgrade Project (including design and construction for Phases 1 and 2 is shown above as $2.55 billion. Of this amount, only the $1.8 billion for Phase 2 construction has not yet been awarded in either a design or construction contract. Thus, approximately $1.04 billion has been encumbered/awarded already for this project.

a. How has the project been funded so far?

Response: The Sand Island WWTP Secondary Upgrade Project Planning and Design have been funded with sewer fund cash and Construction and Inspection has been funded by sewer revenue bonds. The following table shows the appropriation amounts by project phase (P, D, C, I). These are amounts encumbered, not expended.

Fiscal Year	Project Number	Work Phase	Source of Funds
2015	2012059	2,000,000 P 1,000 D	Sewer Cash
2017	2012059	4,000,000 P 1,000 D	Sewer Cash

2018	2012059	500,000 P 14,000,00 D	Sewer Cash
2019	2012059	500,000 P 30,000,000 D	Sewer Cash
2020	2012059	1,000 P 20,000,000 D 105,000,000 C 2,500,000 I	P&D – Sewer Cash C&I – Sewer Bonds
2021	2012059	8,000,000 P 8,000,000 D 549,999,000 C 2,5000,000 I	P&D – Sewer Cash C&I – Sewer Bonds
2022	2012059	4,000,000 P	P – Sewer Cash
2023	2012059	8,000,000 P 9,000,000 D 10,000,000 I	P&D – Sewer Cash I – Sewer Bonds
2024	2012059	3,9000,000 P 28,5000,000 D 6,000,000 I	P&D – Sewer Cash I – Sewer Bonds
2025	2012059	6,000,000 I	I – Sewer Bonds

b. Which revenue source will pay for the remaining costs to complete the Sand Island WWTP project?

Response: The City plans to use sewer revenue bonds to pay for the remaining costs to complete the project.

c. Has the City evaluated or applied for any funding or grants from the federal government?

Response:

i. ENV has not communicated any funding requests to our federal Congressional delegation for the Sand Island WWTP Secondary Upgrade Project.

ii. ENV has requested and been awarded an earmark project from Senator Schatz for $1 million for a study on creating recycled water at the Mililani pretreatment facility for use at the Patsy Mink Central O'ahu Regional Park (this money is coming from the EPA).

iii. ENV has evaluated the WIFIA loan program which is available for projects like the Sand Island project (at least prior to the new Trump administration). WIFIA is a loan program with an interest rate equivalent to the Treasury Bill rate (roughly equivalent to a AAA bond rating rate). ENV has a AA+ bond rating which is allows it to sell revenue bonds at

only a slightly higher interest rate. In addition, the ENV sewer bonds can be refinanced in the future as many times as necessary in order to restructure debt and realize savings. This is not possible with a WIFIA loan. In addition, WIFIA carries with it federal restrictions such as BABA (Buy America, Build America) and cumbersome accounting/reporting requirements which increase project costs.

iv. According to ENV's research, the main federal dollars that are available to ENV are the SRF Clean Water loan program funded by the EPA and administered by the State Department of Health, Wastewater Branch (DOH-WWB). DOH-WWB receives an allocation from EPA each year. SRF are loans that are 1.25% interest rate for 20 years. They also have a loan fee of 0.5%. DOH-WWB also receives some SRF funds for fee forgiveness and principal forgiveness, but it only applies to some loans. ENV submits requests and meets with DOH-WWB every year for SRF loans. In the past 6 years, ENV has received an average of $55 million per year in SRF loans. This is the cheapest money that ENV can get for our projects and it saves a lot in debt service over time. ENV has a list of projects that have been pre-qualified by DOH-WWB for SRF funding and DOH-WWB awards all of the funds that they receive each year. The only other eligible programs are the wastewater departments in the 3 other counties and ENV receives nearly all of the money. ENV has not submitted the Sand Island WWTP upgrade project for SRF funding. SRF loans are used on smaller projects that can be fully funded by the loans. The maximum use of SRF loans reduces the amount of sewer revenue bonds issued each year and thus the total amount of debt service. This equates to reduced revenue requirements and Sewer Fees irrespective of which projects use SRF funds.

d. Has the City evaluated or applied for any funding or grants from the Hawai'i State Government?

Response: ENV worked with the State Legislature, specifically the House Committee on HB 1404 (2025) which included an appropriation of $12 million for cesspool closure and lateral installation for ENV's 'Ewa Beach Sewer Improvement District (SID) project. This is the amount ENV estimated was needed for the 979 homeowner connections to the new City sewer plus closure of their cesspools. The Bill was co-sponsored by Representatives Nicole Lowen, Nadine Nakamura, Amy Perruso, and Chris Todd. It passed first reading in the House on January 23, 2025, and was referred on January 27, 2025, to EEP/WAL and FIN. It received a hearing by EEP and WAL on February 11, 2025, and was passed out by both committees. It passed second reading by the House on January 14, 2025, and was passed out to FIN. As of February 28, 2025, the bill has not been scheduled for a hearing by FIN and appears dead for this session. The requested funding would have had an undetectable effect (no more than 0.1% in any year) on the proposed Sewer Fee Increases. The 'Ewa Beach SID project is scheduled to receive SRF funding with principal forgiveness (a zero interest 20-year loan). If ENV were to receive the State grant at some point in the future, then we would use it for the SID project and switch the SRF funds to a different project.

e. Has the City evaluated or applied for any funding or grants from the private or non-profit sector?

Response: ENV has not.

6. What ability does the City have to fund the Sand Island WWTP upgrades through existing City departmental budgets?

Response: The following answer is provided by the Department of Budget and Fiscal Services (BFS):

Reluctance to support ENV's proposed sewer increases based on professional and in-depth cost and engineering studies to comply with the 2010 Consent Decree entered into by the City, the United States Environmental Protection Agency, Department of Health and several non-governmental organizations in settlement of lawsuits relating to the City's wastewater system would very likely result in a downgrade to the sewer fund's credit ratings, increasing borrowing costs, and consequently further increasing costs to meet Consent Decree requirements.

Our investment bankers, Bank of America ("BofA"), noted that there are numerous examples of municipal water and sewer credits where failure to timely adopt adequate rate increases was a contributing factor to credit rating downgrades. BofA further noted that in some cases the downgrades occurred even as rate increases were being adopted but were too late to avoid weakened financial performance – lower debt service coverage and reduced cash balances. The following are some relevant examples:

Baltimore City Wastewater – A+ to A, March 13, 2024 – "The lowered ratings reflect our view of the wastewater utility's deteriorating financial performance, including the depletion of its rate stabilization funds with no plans for replenishment, as well as continued operational risks associated with its aged underlying infrastructure the costs to meet these added operational requirements have been significant and the City has not adopted a rate package to recover those costs, relying instead on its rate stabilization fund."

Sonoma County Water Agency – AAA to AA+, July 22, 2024 – decline in coverage largely attributable to drought-related drop in water sales – S&P notes "recent rate increases that were insufficient to maintain historically extremely strong all-in coverage metrics" but adopted rates increases projected at 8 – 10% annually should stabilize financial metrics.

Columbus OH Sewerage System – AA+ to AA with negative outlook, September 29, 2021 – "Historically, management intentionally set rates to achieve sum sufficiency or just above it, with the assumption that the full CIP would be debt funded, primarily with low-cost state loans. While we understand that this funding approach allowed the system to implement nominally small rate increases which have preserved the rate affordability in the service area, it has also resulted in very thin operating margins."

Albuquerque-Bernalillo County Water Utility Authority – AA+ to AA+ negative outlook – negative outlook reflects uncertainty about future rate increases and the related effect on both cash and coverage, given the postponement of rate increases in the past."

Charleston Sanitation Board, WV – AA- to A, November 9, 2022, – "downgrade reflects uncertainty regarding the need for additional rate increases to fund Capital Projects related to the City's long-term control plan (LTCP)....we consider CSB's overall financial ratios healthy for now, the uncertainty regarding how and when additional projects will be funded is the primary factor in the downgrade."

Woonsocket, RI water revenue bonds – A- to BBB+, November 1, 2024, – "downgrade reflects reactive rate setting resulting in financial erosion at the water fund before a recent large rate hike, compounded by poor transparency characterized by delayed audits and budgeting, which we view as governance weaknesses in risk management and transparency. The negative outlook reflects our concern that near-term financial performance could weaken further if recently approved rate increases are insufficient to cover rising operating costs and sufficiently fund capital reinvestment in the system."

Pearland TX Water and Sewer – A+ to A, negative outlook, May 28, 2024, – "recent and planned rate adjustments lag increasing operating and debt carrying costs. An improvement in FADS [ratio of net debt to funds available for debt service] and a reduction in leverage is heavily dependent on the City's planned annual rate adjustments that are expected to range from 8%-17% through 2028. However, adoption of these rates is still subject to City Council approval."

North Fort Bend Water Authority, TX – A+ negative outlook to A stable outlook, July 26, 2024, – "the notable increase in purchased water costs expected in 2027 is not expected to be offset with a commensurate revenue increase as no rate adjustments are currently planned.

Lastly, BofA confirmed that the Council's inquiry about the City's ability to subsidize the sewer fund is a futile exercise. The credit agencies will view any such action as Council's and the sewer fund's inability to responsibly increase Sewer Fees to cover increasing operational costs to comply with the 2010 Consent Decree. There will be projected unintended consequences – beyond the sewer fund's credit rating downgrade, if Council allocates general fund resources to the sewer fund to reduce Sewer Fee Increases, the credit worthiness of the general fund could be impaired, further raising the costs of City operations.

Therefore, based on expert financial advice, it would be irresponsible for ENV or BFS to allocate any general fund resources to the sewer fund to reduce Sewer Fee Increases.

7. **Has ENV discussed the rate increases with all the Oahu Neighborhood Boards?**

Response: ENV Director and Deputy Director have either made presentations or are scheduled to make presentations on the proposed Sewer Fee Increase to all 33 Neighborhood Boards.

   a. **If not, why not?**

Response: It took time to work with all the NB chairs to get on all their agendas; multiple contacts were required which stretched it out over 6 months.

   b. **Which Neighborhood Boards have you already met with?**

Response: We have met with 26 NBs to date:

i. Five presentations were made in October 2024

1. No. 26 - October 21st
2. No. 11 - October 22nd
3. No. 21 - October 22nd
4. No. 22 - October 24th
5. No. 1 - October 29th

ii. Seven presentations were made in November 2024

1. No. 8 - November 7th
2. No. 20 - November 12th
3. No. 16 - November 13th
4. No. 5 - November 14th
5. No. 12 - November 19th
6. No. 10 - November 21st
7. No. 30 - November 21st

iii. Two presentations were made in December 2024

1. No. 2 - December 4th
2. No. 13 - December 5th

iv. Six presentations were made in January 2025

1. No. 18 - January 9th
2. No. 32 - January 13th
3. No. 9 - January 14th
4. No. 35 - January 21st
5. No. 34 - January 22nd
6. No. 25 – January 22nd

v. Six presentations were made in February 2025

1. No. 14 - February 10th
2. No. 6 - February 12th
3. No. 23 - February 13th
4. No.15 - February 19th,
5. No. 4 - February 19th
6. No.3 - February 20th

c. What was presented at each board, and who was the presenter?

Response: At the Neighborhood Board meetings, the board Chairs limit the presentation times to 3 or 5 minutes. Thus, ENV does not utilize a PowerPoint slide show. Instead, ENV hands out the attached 2-page sewer rate increase flier (also available on ENV's website). The

presenter discusses the content of the flier while referring to it. Then the presenter asks for questions. Director Babcock made the presentations at most of the meetings (Deputy Director Mike O'Keefe presented at No. 4, No. 10, No. 11, No. 16, No. 34).

d. What was the reaction from each board?

Response: The reaction from all the boards was very similar except for 3 board members. The general reaction from all boards was an understanding of the need for the rate increases, and no expressed concern over the size or timing of the proposed fee increases. There was interest in the proposed shifting of the base charge portion of the bill from 70% to 50%. There was also interest in the proposed customer assistance program. There was 1 board member who said that the 115% increase was way out of line and unreasonable. At another board meeting, 1 board member said that it would be unaffordable for her as a Native Hawaiian with a large family, no one else spoke up. There were questions about how much actual bills will increase each year, about why the rates had not been raised at all over the past 8 years, about what caused the Consent Decree, about how people can conserve water, about how the sub-meter program works, and about whether residents can recycle their gray water.

e. Which Neighborhood Boards have you NOT met with?

Response: The remaining seven (7) have been scheduled in March 2025:

- No. 24 - March 4th
- No. 7 - March 5th
- No. 31 - March 6th
- No. 29 - March 12th
- No. 36 - March 18
- No. 27 - March 25th
- No. 28 - April 10th

f. Please provide copies of all materials presented to the Neighborhood Boards.

Response: At the Neighborhood Board meetings, the attached flyer has been handed out. In addition to the Neighborhood Board meetings, ENV has conducted eight (8) Sewer Fee Town Hall meetings and has three (3) more scheduled. These advertised meetings are 1.5 hours long and enable a PowerPoint presentation and more discussion and questions from the attendees. The PowerPoint that we use is attached. There has not been any negative feedback at any of the Town Hall meetings, just questions and an understanding of the needs and usage of the fees. Roger Babcock made all of these presentations. The dates and locations of the Town Hall meetings are as follows:

Location	Date, Time	Council District
Kapolei Hale	Monday, Nov 18, 2024, 5:30-7:00pm	1
Neal Blaisdell Center	Tuesday, Dec 3, 2024, 10am – 12pm	6
Kailua District Park	Tuesday, Dec 10, 2024, 5:30-7:00pm	3
Mililani District Park	Tuesday, Dec 17, 2024, 5:30-7:00pm	8
ʻĀina Haina Community Park	Friday, Jan 3, 2025, 5:30-7:00pm	4
Nānākuli - Kalanianaole Beach Park	Monday, Jan 6, 2025, 5:30-7:00pm	1
Mānoa District Park	Tuesday, Feb 18, 2025, 5:30-7:00pm	5
ʻEwa Mahiko District Park	Thursday, Feb 20, 2025, 5:30-7:00pm	9
Nuʻuanu/Punchbowl – Booth District Park	Tuesday, Mar 11, 2025, 5:30-7:00pm	6
Salt Lake District Park	Thursday, Mar 13, 2025, 5:30-7:00pm	7
Wahiawā District Park	Thursday, Mar 20, 2025, 5:30-7:00pm	2

In spite of active publicity for these events, the turnout has been small. Most Town Halls had only a handful of attendees and the largest turnout was fifteen (15) people (ʻĀina Haina). ENV has conducted several other types of outreach on the proposed Sewer Fee Increases as follows:

- Conducted briefings with each City Council member (September 26, 2024 - October 4, 2024)
- Added an announcement to all Neighborhood Board agendas (October 10, 2024)
- Requested a presentation at all Neighborhood Boards (October 10, 2024)
- Held press conference announcement (October 23, 2024)
- Participated in segment of KHON show called Living 808 (October 24, 2024)
- Released One Oʻahu podcast (October 24, 2024)
- Published Op-Ed in the Star-Advertiser (October 27, 2024)
- Introduced Sewer Fee Bill at Full City Council (November 7, 2024)
- Offered public bus tour of wastewater facilities (Saturday November 16th, 2024)
- Created webpage: www.honolulu.gov/env/sewer-fee-rates
- Posted to social media: Facebook (HNL.ENV1) and Instagram (hnl.env)
- Engaged with various media agencies (list of seventeen (17) story links is included in Sewer Rate Study Report):
    - Honolulu Star Advertiser
    - Hawaiʻi News Now (KGMB, KHNL, KFVE)
    - KITV 4
    - KHON 2
    - Spectrum News
    - Hawaiʻi Public Radio

Thank you for the opportunity to provide detailed responses to your questions about ENV's proposed Sewer Fee Increases. Should you have any further questions, please contact me at 808-768-3486 or roger.babcock@honolulu.gov.

Sincerely,

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

Attachments: Sewer Rate Study, CDM Smith, Final DRAFT February 2025
Sewer Fee Increase Informational Flier
Sewer Fee Increase Town Hall Presentation Slides
2010 CD Cost Summary Spreadsheet – 5 parts

cc: Mayor Rick Blangiardi

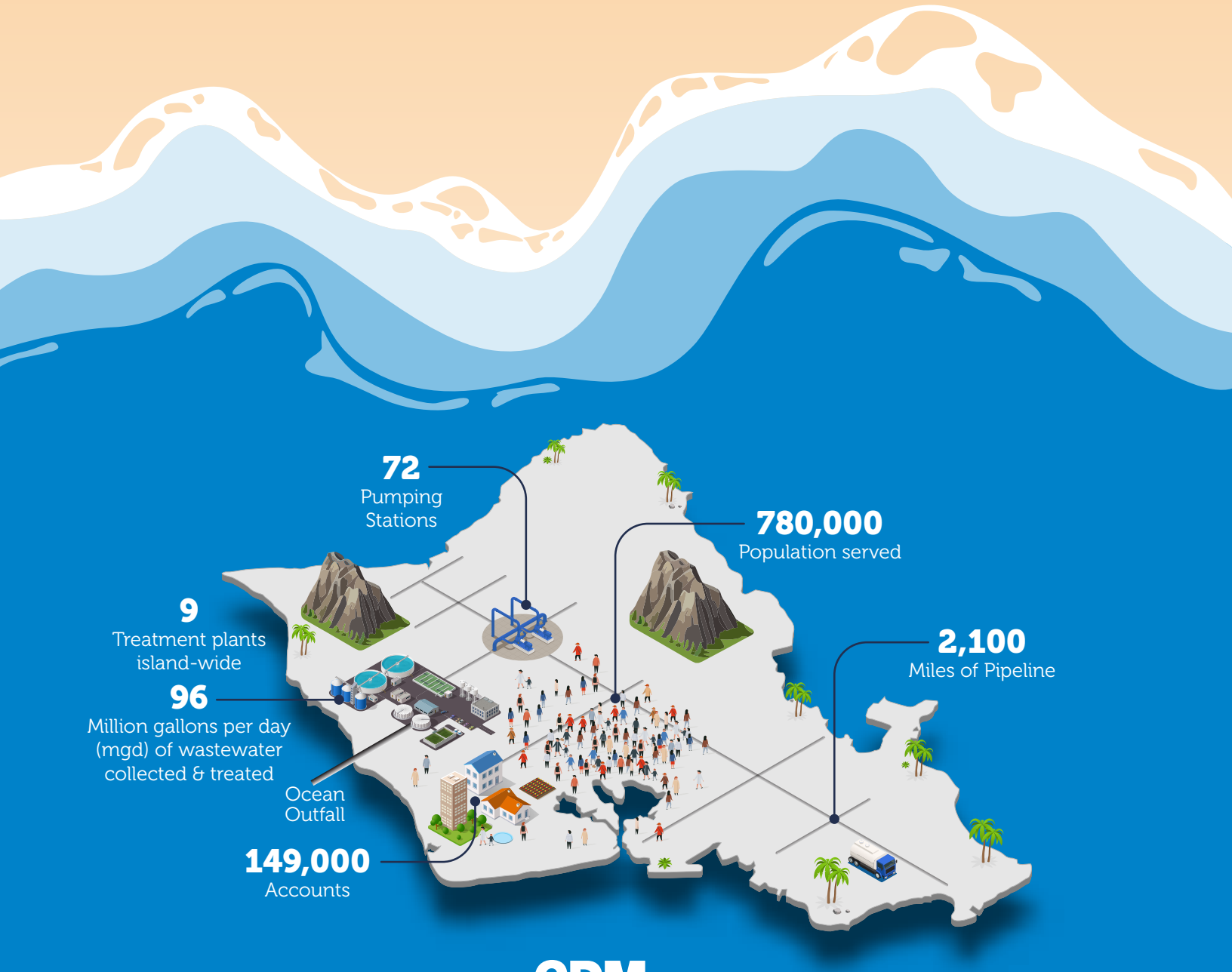
APPROVED:

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

City and County of Honolulu
Department of Environmental Services (ENV)

Sewer Rate Study

DRAFT February 2025



CDM Smith

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Executive Summary

The City and County of Honolulu Department of Environmental Services (ENV) engaged CDM Smith to assist with the development of revenue requirement projections, evaluation of rate alternatives, and projection of future required rate increases. ENV is undertaking a significant capital improvement program (CIP) that will meet the requirements of a consent decree and renovate and upgrade existing infrastructure, and it is experiencing increasing operating and maintenance (O&M) costs. ENV needed to determine its additional revenue needs to meet current and future revenue requirements, and the potential rate adjustments to generate sufficient revenues. ENV last adjusted sewer rates in Fiscal Year (FY) 2017.

ENV's projected revenues requirements are anticipated to increase from $437.3 million in FY 2025 to $746.4 million in FY 2035, an average annual increase of nearly 5.5 percent. The rate of increase is higher in the latter years than the initial years. To meet these revenue requirements, ENV is moving forward with a proposed rate increase program with rate increases of 9 percent per year for FY 2026-FY 2031. Proposed rate increases after FY 2031 include increases of 8 percent in FY 2032, 7 percent in FY 2033, 6 percent in 2034 and 5 percent in FY 2035. ENV is also proposing that the rate structure be adjusted such that approximately 50 percent of rate revenues are generated from the Base Charge and 50 percent from the Volume Charge. The current ratio of revenues on an average sewer bill is approximately 73 percent from the Base Charge and 27 percent from the Volume Charge. This will shift the cost burden among ENV's customer base; generally, customers that use large volumes of water will experience larger than average increases, conversely customers with low water use will experience below average increases.

The proposed rate schedule was presented to the City Council on November 7, 2024. The proposed rate schedule can be found as **Appendix A**.

ES-1. Projected Revenue Requirement

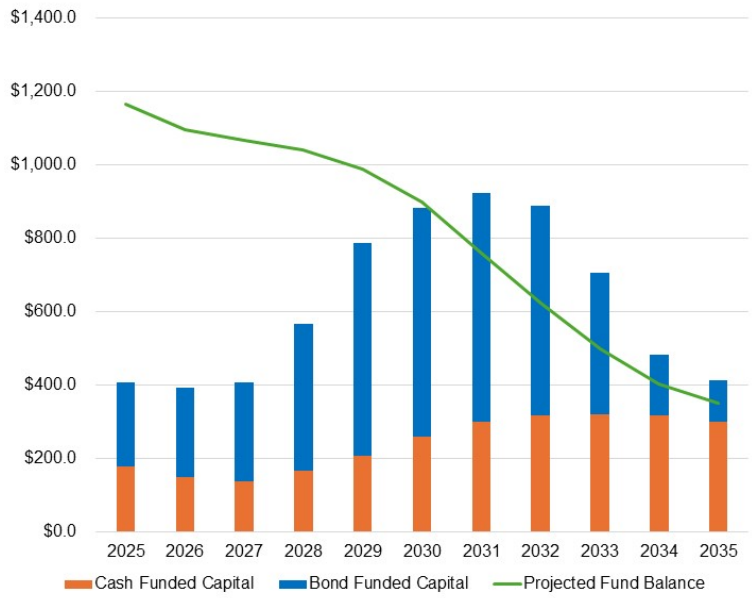
ENV's revenue requirements comprise O&M expenses, debt service, and reserve requirements. ENV's annual revenue requirement for FY 2025 is $437.3M, projected to increase to $746.4M in FY 2035.

The primary component of the revenue requirement increase is debt service, which is projected to increase from $217.6M in FY 2025 to $434.3M in FY 2035. Debt service represents approximately 50 percent of revenue requirement in FY 2025, increasing to approximately 58 percent in FY 2035 and accounting for 70 percent of the projected increase in revenue requirements. The debt service increase reflects payments on outstanding debt plus estimated future borrowings to fund a portion of ENV's CIP.

As part of the analysis, a proposed financing plan was developed to meet capital requirements while maintaining ENV's financial policies and coverage ratios. The financing plan includes a combination of future borrowings and use of existing cash balances to pay for a portion of future capital projects. ENV has accumulated a total of $1.3B in existing cash balances in anticipation of mandated consent decree capital projects. ENV's proposed capital financing plan incorporated into the analysis, including the impact of existing cash balances, is summarized in **Figure ES.1**.

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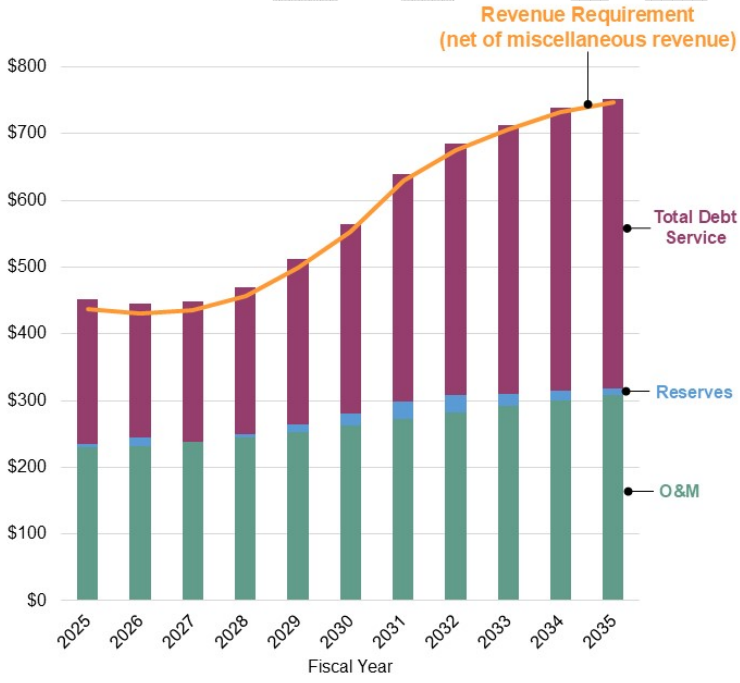
Figure ES.1 Projected Fund Balance and Capital Spending by Funding Source, FY 2025 – 2035



Fiscal Year	Cash Funded Capital	Bond Funded Capital	Projected Fund Balance
2025	$179.4	$229.1	$1,164.7
2026	$149.8	$242.0	$1,094.9
2027	$137.5	$268.8	$1,065.7
2028	$168.1	$398.4	$1,039.6
2029	$208.8	$578.9	$988.4
2030	$258.6	$623.8	$898.5
2031	$301.1	$623.2	$760.9
2032	$316.6	$570.7	$622.2
2033	$320.6	$384.4	$499.7
2034	$316.7	$167.2	$403.4
2035	$300.3	$114.2	$352.4

As mentioned, the debt service from future borrowings is the major driver of increasing revenue requirements over the forecast period. **Figure ES.2** shows the projected annual expenses and revenue requirements by expense category.

Figure ES.2 Total Expenses and Revenue Requirements, FY 2025 - 2035



Fiscal Year	O&M	Reserves	Total Debt Service	Revenue Requirement
2025	$229.52	$5.38	$217.56	$437.32
2026	$231.59	$12.40	$200.96	$430.64
2027	$237.72	$0.52	$210.86	$435.21
2028	$243.93	$6.18	$219.54	$456.05
2029	$252.70	$10.82	$247.92	$498.45
2030	$262.25	$18.37	$284.24	$552.89
2031	$272.51	$25.63	$340.90	$628.65
2032	$282.59	$25.54	$376.13	$675.41
2033	$291.43	$18.22	$403.68	$705.88
2034	$299.87	$14.42	$424.96	$732.91
2035	$308.12	$9.76	$434.26	$746.36

The projected revenue requirements inform the required rate adjustments over the rate setting period. A detailed discussion of revenue requirements can be found in **Section 3**.

ES-2. Proposed Sewer Rate Adjustments

Projected Rate Revenue Adjustments

The proposed sewer rate adjustments consider the amount of additional revenue required to meet annual revenue requirements. Under the existing sewer rates (i.e. without any future rate increases over the rate setting period), ENV is projected to generate $462.8M in total revenue in FY 2035, compared to a projected revenue requirement of $764.4M. The analysis first focused on the annual increases to total sewer rate revenue to generate sufficient revenue to cover annual revenue requirements.

ENV is proposing rate adjustments for a 10-year period from FY 2026 (beginning July 1, 2025) through FY 2035 (beginning July 1, 2034). The proposed rates increase total sewer fee revenues by an average of 9 percent per year FY 2026 through FY 2031, 8 percent for FY 2032, 7 percent for FY 2033, 6 percent for FY 2034, and 5 percent for FY 2035. **Table ES.1** summarizes the proposed rate adjustments for the rate setting period.

Table ES.1 Proposed Rate Adjustments, FY 2026 - 2035

Fiscal Year	Effective Date of Increase	Proposed Increase
2026	July 1, 2025	9.0%
2027	July 1, 2026	9.0%
2028	July 1, 2027	9.0%
2029	July 1, 2028	9.0%
2030	July 1, 2029	9.0%
2031	July 1, 2030	9.0%
2032	July 1, 2031	8.0%
2033	July 1, 2032	7.0%
2034	July 1, 2033	6.0%
2035	July 1, 2034	5.0%
Cumulative Increase		115%

Rate Structure Adjustments

In addition to evaluating the amount of required annual revenue, this analysis evaluated alternative rate structures to identify potential improvements to ENV's existing rate structure, assessing whether an alternative rate structure would better meet key rate objectives. The primary objectives considered include:

- **Revenue Stability**. Ensuring that the rate revenues are relatively stable each year and not volatile. Since a significant portion of the utility's expenses are essentially fixed (80 to 90 percent), it is important that within a year and across years revenues be relatively consistent. Rate structures that rely heavily on metered sales are generally less stable than those that rely on fixed charges.
- **Equity**. Rate equity focuses on whether customers that impose similar demands on the utility are assessed similar amounts and those that impose higher demands are charged higher amounts.

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- **Transparency and understandability.** Rate structures that are easy for customers to understand are generally preferable to those that are difficult for customers to understand. If the structure is more understandable it can reduce the number of customer inquiries and complaints, reducing customer service workload. It also makes clear any pricing signals the utility is seeking to send customers.
- **Administrative Ease.** Generally, rate structures that are easy to manage and maintain are preferable to more complex structures. This eases the burden on administrative staff.

Currently, ENV bills its customers for services primarily through a fixed Base Charge and a uniform consumption-based Volume Charge. The Base Charge accounts for approximately 70 percent of rate revenues, and the Volume Charge accounts for approximately 30 percent.

The primary rate structure alternatives detailed in this analysis include:

1) **Rate Structure Alternative:** Development of a tiered Volume Charge, where the unit price per 1,000 gallons of metered water consumption increases in steps as consumption increases
    - **Proposed Rate Structure**: Maintain uniform Volume Charge for all customers

A rate structure change to a tiered Volume Charge would create a structure potentially more equitable than the existing rate structure, as customers with relatively higher water use would experience a larger increase in monthly bills. A tiered structure would incentivize water conservation and provide customers with a greater ability to control the monthly bill through shifts in consumption behaviors. However, a tiered rate structure would create administrative complexities, complicate a customer's ability to understand the bill, and adversely impact certain customers with limited control over consumption (e.g. multi-generational households).

ENV's proposed rate structure elects to maintain the existing structure of a uniform Volume Charge for all customers.

2) **Rate Structure Alternative:** Reallocation of the share of revenues between the Base Charge and Volume Charge
    - **Proposed Rate Structure:** Shift revenue allocation to 50 percent rate revenue generated from the Base Charge, 50 percent revenue generated from the Volume Charge. Implement the reallocation over a 4-year phase in period.

This evaluation explores the implications of reallocating the share of revenues between the Base Charge and Volume Charge. The current allocation is approximately 73 percent Base Charge revenue, 27 percent Volume Charge revenue. The existing allocation provides a stable revenue stream but limits a customer's ability to reduce the monthly bill through conservation or other adjustments in consumption behavior. A rate structure change reducing the Base Charge bill proportion would potentially be more equitable than the existing rate structure, as customers with relatively higher water use and demands on the system would experience a larger increase in monthly bills than smaller users.

Variations of the mix between Base Charge and Volume Charge were evaluated, ranging from 100 percent Base Charge to 100 percent Volume Charge. During final rate design, three alternatives were selected for further review – 73 percent Base, 27 percent Volume (current allocation); 60 percent

Base, 40 percent Volume; and 50 percent Base, 50 percent Volume. The rate evaluation included phase-in periods for implementation to mitigate the potential for rate shock.

ENV's proposed rate structure includes a reallocation of revenue to 50 percent revenue from the Base Charge, 50 percent revenue from the Volume Charge, implemented over a 4-year phase in period.

More detail on the rate structure alternative analysis can be found in **Section 4**.

ES-3. Public Engagement

As part of the rate setting process, ENV conducted extensive public outreach to provide transparency to the development of the proposed rate adjustment. The outreach efforts provided opportunities for public comment. Overall feedback received via public outreach efforts include:

- Some general concern about the rate increase and compounded rate increase over the rate setting period
- Positive understanding the need for the rate increases
- Interest in the shift to a 50 percent Base Charge, 50 percent Volume Charge rate structure
- Interest in the Consumer Assistance for Residential Environmental Services (CARES) program
- Interest in ways to conserve water including reuse of gray water
- Interest in the sub-metering program and its cost

Public outreach and engagement activities related to the sewer rate increases included regular meetings with an advisory group, briefings to various governing bodies and local boards, creating virtual content and engaging with various media outlets.

More detail on the Public Engagement program can be found in **Section 5**.

Stormwater-Wastewater Advisory Group

The Stormwater-Wastewater Advisory Group (SW-WAG) was originally established by the Department of Facilities Maintenance (DFM) to solicit feedback regarding a stormwater fee. The SW-WAG's scope was expanded to facilitate discussion and solicit feedback from various stakeholders regarding the need for sewer rate adjustments and the potential flexibility in those adjustments.

Regular SW-WAG meetings were held throughout the rate setting process. ENV presented various alternatives related to rate adjustments and received feedback from the SW-WAG. The SW-WAG feedback was incorporated to focus and refine the rate alternatives and informed the proposed rate adjustments presented to the City Council.

More detail on the SW-WAG role and meeting discussions can be found in **Section 5**.

ES-4. Customer Assistance Program

ENV is concerned about the affordability of its rates, especially for customers with limited financial resources. Therefore, ENV is proposing a new affordability program for residential customers called Customer Assistance for Residential Environmental Services (CARES). CARES will offer a $20 to $25 credit

per month towards the Base Charge to households earning less than 80 percent of the area median income (AMI). Credits will be offered on a first-come, first-served basis until available funds in each year are committed. The program will be administered through a 3rd party non-profit and will require an application for enrollment, as well as re-verification every six months.

More information about the proposed rate adjustments and CARES can be found in **Section 6**.

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1.0 Introduction

The City and County of Honolulu Department of Environmental Services (ENV) is dedicated to safeguarding public health and protecting the environment through the effective and efficient management of wastewater. ENV currently serves a population of about 780,000 and has approximately 149,000 accounts. Every day, ENV handles the collection, treatment, disposal, and resource recovery of 100 million gallons of wastewater produced by O'ahu's residents and visitors. ENV operates and maintains 2,100 miles of sewer pipes, 72 wastewater pump stations, and 9 wastewater treatment plants located across the island.

Under the City and County of Honolulu Resolution No. 98-197, CD1, ENV must ensure that the wastewater program is self-sufficient, using only sewer revenues to pay for utility operations and capital improvements. Due to a judicious spending strategy, ENV has not had to raise sewer rates since Fiscal Year (FY) 2017. However, additional revenue is required to meet increasing operation and maintenance (O&M) costs and fully implement a significant Capital Improvement Program (CIP). The CIP is projected to cost $7.4 billion (in inflated dollars, $6.9 billion when adjusted for actual anticipated spending) between FY 2025 and FY 2035, the forecast period for this evaluation. Approximately 30 percent of the CIP to be undertaken over the next ten years is mandated by regulatory agency enforcement actions, the balance is to build new treatment systems based on new and anticipated regulatory requirements, renovate aging equipment, and improve efficiency and reliability. The largest CIP project is the final phase of the 2010 consent decree is the upgrade of the Sand Island Wastewater Treatment Plant to secondary treatment. This upgrade is estimated to cost $1.8 billion (in inflated dollars) and is required to be completed by 2035. Increasing sewer rates is required to fund ENV's CIP program.

1.1 Purpose

The purposes of this report are as follows:

- Determine the required annual revenue increase by evaluating O&M costs, debt service, and prudent reserves for each year of the period FY 2025 to FY 2035.
- Assess the impact on future revenue requirements and the required timing of shifts in CIP costs and schedule.
- Evaluate alternative rate structures to determine whether such alternatives could better meet key ENV rate system objectives and ratepayer preferences.
- In collaboration with ENV, conduct a public outreach program to increase public awareness and understanding and ideally build public support for ENV's program.

1.2 Methodology

CDM Smith undertook this study by:

- Collecting historical and current financial, budget, and customer information from ENV.

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- Developing a financial model (relying heavily on an existing ENV financial model) to project revenue requirement over the forecast period — FY 2025 to FY 2035.
- Based on discussions with ENV, identifying and evaluating a range of rate structure alternatives to assess whether a modified rate structure could better meet ENV goals of affordability, revenue stability, customer understanding and administrative ease.
- ENV convened a series of seven meetings with the Storm Water-Wastewater Advisory Group (SW-WAG) to assist with the rate setting process.

ENV's revenue requirements were determined by evaluating O&M costs, the CIP, debt service requirements, and reserve requirements. O&M costs were estimated by applying an annual inflation factor to the FY 2025 approved budget for each year of the rate setting period. Existing debt service was provided by ENV. Capital spending is based on ENV's CIP projections and the anticipated use of cash funding a portion of the CIP from ENV's available cash. Future debt was estimated by ENV's financial advisor then developed into future debt service estimates based on projected capital spending. The anticipated use of cash and borrowing is structured to minimize the magnitude of future rate increases, develop a smooth pattern avoiding spikes, ensure compliance with the City's minimum days cash policy, and the revenue bond covenant for debt coverage.

The development of revenue requirement projections and rate structures modifications was a highly iterative process. As ENV updated CIP costs, revenue requirement projections were modified to reflect revised cost estimates. In addition, ENV has accumulated a significant fund balance with the intent of applying the balance to directly pay for a portion of capital projects and reduce future debt service and revenue requirements. Multiple variations of how to apply those fund balances were developed. Finally, ENV developed multiple debt structures to be incorporated into revenue requirements. The debt structure alternatives were developed to minimize large spikes in revenue requirements and rate volatility.

Once a solid revenue requirement forecast was developed, numerous rate structures were identified and evaluated. ENV presented several rate structure alternatives to the SW-WAG and engaged in a collaborative process to select a rate structure that fully considered and meaningfully incorporated the SW-WAG's feedback.

1.3 Structure of the Report

The balance of this report is organized as follows:

- Section 2—Revenues Under Current Rates and Rate Structure
- Section 3—Revenue Requirements—FY 2025 to FY 2035
- Section 4—Rate Structure Evaluation
- Section 5—Public Outreach
- Section 6—Sewer Rate Adjustments FY 2025 to FY 2035

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2.0 Projected Revenues Under Previously Approved Rates

The purpose of this section is to summarize ENV's projected revenues under its existing rates that were approved in 2017, to provide a baseline projection to assess the magnitude of future revenue requirements based on future anticipated spending. Projected expenses and revenue requirements are summarized in **Section 3** of this report. The evaluation of potential modifications to the existing rate structure, the recommended changes and required rate requirements is described in **Section 4**. The rate structure and rate recommendations is summarized in **Section 6**.

ENV's current rate structure includes three customer classes: single-family residential (one- or two-unit dwellings), multi-family residential (three or more-unit dwellings), and non-residential. Each customer is billed on a monthly basis. The current rate structure (as of FY 2025) is comprised of a fixed monthly Base Charge and a uniform Volume Charge billed to customers at a rate per 1,000 gallons of metered water consumption per month. A small number of customers are billed based on metered wastewater discharges, and a small number of customers for which ENV does not have water consumption data are billed on a flat monthly non-metered water rate.

2.1 Base Charge

The Base Charge is billed per account for single-family customers, per dwelling unit for multi-family customers, and per Equivalent Single-Family Dwelling Unit (ESDU) for non-residential customers. Accessory Dwelling Units (ADUs) are billed an additional Base Charge per month. The current Base Charges are shown in **Table 2-1**. The Base Charge for multi-family residential customers is approximately 70 percent of single-family customers, reflecting lower average water use per dwelling unit.

ESDUs were implemented so that non-residential customers would be billed the Base Charge commensurate to their capacity required within the system relative to single-family customers. An ESDU is established as the water demand of an average (mean) single family customer—9,000 gallons per month. So, a non-residential customer consuming 90,000 gallons of water per month is assigned 10 ESDUs. ENV assigned ESDUs to existing customers at the time this structure was adopted by using historical water use data for each non-residential customer. For new customers and construction, the Department of Planning and Permitting (DPP) calculates the projected number of ESDUs based on wastewater design flows. ENV and DPP will also determine if the number of ESDUs for a specific location needs to be revised by reviewing remodeling plans to determine if there will be a change in water use.

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Table 2-1 Base Charge, FY 2025

Customer Class		$ / Month
Residential - Single-Family / Duplex 	**Metered Water**	$77.55
	Non-Metered Water (not connected to BWS)	$110.89
Residential - Multi-Family 	**Metered Water**	$53.32 (per dwelling)
	Non-Metered Water (not connected to BWS)	$86.65 (per dwelling)
Non-Residential 	**Domestic Strength (metered water)**	$77.55 (per ESDU)
	Domestic Strength (metered wastewater)	$77.55 (per ESDU)

Table 2-2 summarizes the projected annual revenue generated through the Base Charge under the existing rates, by major customer class. Revenue forecasts use a conservative assumption of no growth in the number of customers, so the baseline projection of revenues under current rates is constant at $334.7 million through FY 2035.

Table 2-2 Base Charge Revenue Under Prior Approved Rates, FY 2025; in $M

Customer Class	Projected Annual (millions of dollars)
Single Family Residential	$138.8
Multi-Family Residential	$82.3
Non-Residential	$113.6
Base Charge Revenue	**$334.7**

2.2 Volume Charge

Across all customer classes, ENV Volume Charge is $4.63 per 1,000 gallons of water use per month. The Volume Charge is applied to 80 percent of a customer's monthly billed water usage to account for irrigation and other water that does not enter the sewer system. **Table 2-3** shows the FY 2025 Volume Charge assessed to all customers.

Table 2-3 Volume Charge, FY 2025

Customer Class	$ / 1,000 gal / month
All Customers	$4.63

Table 2-4 summarizes the projected annual revenue generated through the Volume Charge under the existing rates, by major customer class. For Volume Charge revenues through FY 2035, referencing recent historical annual revenue receipts, CDM Smith has assumed that consumption remains flat through the forecast period. Therefore, the baseline projections assume that Volume Charge revenue will be $122.3 million through FY 2035.

Table 2-4 Volume Charge Revenue Under Prior Approved Rates, FY 2025; in $M

Customer Class	Projected Annual (millions of dollars)
Single Family Residential	$50.2
Multi-Family Residential	$31.4
Non-Residential	$40.7
Volume Charge Revenue	**$122.3**

2.3 Miscellaneous Non-Rate Revenue

ENV generates income from several sources in addition to its sewer rate revenue, the most significant of which is interest on accumulated fund balances. ENV also collects wastewater system facility charges (WSFC) for new connections.

Table 2-5 summarizes the miscellaneous revenue projected for FY 2025 – FY 2035. Miscellaneous revenue is projected to decrease over time as ENV spends down its existing fund balances over the forecast period, reducing projected interest income.

Table 2-5 Projected Miscellaneous Revenue FY 2025 – FY 2035; in $M

Fiscal Year	Sewer Lateral Installations/Other Revenues	Interest on Reserves	Total (millions of dollars)
FY 2025	$0.1	$15.0	**$15.1**
FY 2026	$0.1	$14.2	**$14.3**
FY 2027	$0.1	$13.8	**$13.9**
FY 2028	$0.1	$13.5	**$13.6**
FY 2029	$0.1	$12.9	**$13.0**
FY 2030	$0.1	$11.9	**$12.0**
FY 2031	$0.1	$10.3	**$10.4**
FY 2032	$0.1	$8.7	**$8.8**
FY 2033	$0.1	$7.3	**$7.4**
FY 2034	$0.1	$6.2	**$6.3**
FY 2035	$0.1	$5.7	**$5.8**

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2.4 Total Projected Revenue Under Previously Approved Rates

Table 2-6 summarizes the total projected revenue under the previously approved rates, through FY 2035. Total revenue includes revenues from the Base Charge, Volume Charge, and miscellaneous revenue. Total revenue under current rates is projected to decline over the forecast period, given the reduction in fund balances and the corresponding impact on interest income.

Table 2-6 Projected Revenue Under Prior Approved Rates; in $M

Fiscal Year	Base Charge Revenue	Volume Charge Revenue	Miscellaneous Revenue	Total (millions of dollars)
FY 2025	$334.7	$122.3	$15.1	**$472.2**
FY 2026	$334.7	$122.3	$14.3	**$471.3**
FY 2027	$334.7	$122.3	$13.9	**$470.9**
FY 2028	$334.7	$122.3	$13.6	**$470.6**
FY 2029	$334.7	$122.3	$13.0	**$470.0**
FY 2030	$334.7	$122.3	$12.0	**$469.0**
FY 2031	$334.7	$122.3	$10.4	**$467.4**
FY 2032	$334.7	$122.3	$8.8	**$465.9**
FY 2033	$334.7	$122.3	$7.4	**$464.5**
FY 2034	$334.7	$122.3	$6.3	**$463.4**
FY 2035	$334.7	$122.3	$5.8	**$462.8**

2.5 Balancing Base Charge and Volume Charge Revenues

Currently, 73 percent of ENV rate revenues are generated from the Base Charge and 27 percent of rate revenues are generated from the Volume Charge (in discussions with stakeholders and the public, this 73/27 ratio was rounded to 70/30 for simplicity). The emphasis on the Base Charge means that revenues are relatively stable, since the Base Charge is not impacted by shifts in customer water use. Conversely, the relatively high proportion of revenues from the Base Charge means that customers have limited ability to affect their bills through changes in water usage, since a relatively small portion of the customer bill is based on usage. This provides limited financial incentive for customers to pursue conservation efforts as a method to reduce monthly bills. Alternatives to the current revenue ratio of 73 percent Base Charge, 27 percent Volume Charge are discussed in **Section 4**.

2.6 Industrial Surcharge

Under Section 43-6.6 of the Honolulu ordinances, non-residential customers with discharges that contain total suspended solids (TSS) concentrations exceeding 220 milligrams/liter are subject to a surcharge upon completion of the Sand Island treatment plant. Sand Island is not projected to be completed until 2035. ENV does monitor approximately 14 entities to track their TSS discharges and to ensure compliance with other components of the Sewer Use Ordinance. ENV does not currently impose a surcharge for high strength BOD, but the ordinance authorizes the imposition of such a charge at the time secondary treatment is fully operational.

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Currently, ENV has no fees for fats, oil and grease.

The ordinance authorizes the assessment of the TSS surcharge using the following formula:

> Volume Charge ($/1000 gallons metered water consumption = 4.63 * [0.857 + (0.143 * (TSS concentration/220)]

For industries that are not in the pretreatment program, ENV developed the following rates in **Table 2-7**, to establish a use rate including surcharge. Based on discussions with ENV, the basis for these factors and assumed concentrations is not available.

Table 2-7 Surcharge Rate by Industry

Industry Establishment	SIC Code	Suspended Solids Concentration Average	$4.63*Usage	Base Charge per Unit
Meat Packing Plants	2011	870	$6.84800	$77.55
Sausage/Other Prepared Meats	2013	310	$4.99415	$77.55
Poultry Slaughtering/Processing	2015	617	$6.01046	$77.55
Pickled Fruits/Vegetables, Sauces/Seasonings/Dressings	2035	350	$5.12657	$77.55
Frozen Fruits/Juices/Vegetables	2037	331	$5.06367	$77.55
Bread/Bakery Products (except Cookies/Crackers)	2051	420	$5.35830	$77.55
Bakeries, Retail	5461	420	$5.35830	$77.55
Soybean Oil Mills	2075	500	$5.62314	$77.55
Macaroni, Spaghetti, Vermicelli and Noodles	2098	230	$4.72931	$77.55
Food Preparation, Not Elsewhere Classified (e.g., Potato Processing)	2099	1300	$8.27150	$77.55
Restaurant in Department Store	5311	560	$5.82176	$77.55
Eating Places (e.g., Carry-out, Coffee/Snack Shops, Caterers)	5812	560	$5.82176	$77.55
Hotels/Motels Serving Food	7011	560	$5.82176	$77.55
Grocery Stores/Super Markets	5411	250	$4.79552	$77.55
Drinking Places (Alcoholic Bev.)	5813	560	$5.82176	$77.55
Nursing/Personal Care Facilities	8059	240	$4.76242	$77.55

Consistent with the existing rate ordinance, the imposition of these surcharges is in abeyance pending completion of the Sand Island WWTP upgrade.

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3.0 Revenue Requirement

The purpose of this section is to summarize ENV's projected revenue requirements for the period FY 2025 – FY 2035. Revenue requirements represent the amount of rate revenue a utility needs to generate to pay for annual costs to provide service. ENV's revenue requirement components include O&M costs, debt service, and reserve requirements. This section details the annual revenue requirement projections, including the assumptions incorporated into the analysis.

3.1 Assumptions

Revenue requirement projections are driven by a set of assumptions, including the following:

- ENV's FY 2025 approved budget is used as the base for projection of operating expenses.
- Operating expenses are assumed to be spent at 100 percent of the annual budgeted and projected amounts.
- Operating expenses are inflated at a rate of 4.0 percent in FY 2026, 3.5 percent in FY 2027, and 3.0 percent per year in FY 2028 – FY 2035.
- Interest income is based on an assumed annual interest rate of 1.25 percent on existing fund balances.
- Sewer service charges (connection fees) are dedicated revenues applied to certain capital projects and have no impact on these projections.
- Annual water consumption and the number of ESDUs and ADUs are assumed to remain constant through the forecast period.
- Capital spending (2025 dollars) for the rate setting period is provided by ENV and reflects planned capital expenditures.
- Capital spending is inflated at 4.0 percent for FY 2026, 3.5 percent for FY 2027, and 3.0 percent per year for FY 2028 – FY 2035. These inflation factors apply to all projects except Sand Island, which has been previously inflated by ENV to mid-point of construction.
- The projections assume a 90 percent spend-rate on annual planned capital expenditures.
- Existing and future debt service payments were provided by ENV, reflecting anticipated annual capital expenditures, the use of some sewer fund cash, and are based on certain assumptions regarding interest rates and timing of principal repayments provided by ENV.
- At the start of FY 2025, the amount of cash reserves was approximately $1.3 billion.

The remainder of this section summarizes the projected revenue requirement for the forecast period FY 2025 – FY 2035.

3.2 Operation and Maintenance Expenses

The FY 2025 operating expenses are based on ENV's FY 2025 approved budget, with future year operating expense projections based on applying an annual inflation factor.

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The inflation factors applied to this analysis are summarized in **Table 3-1**.

Table 3-1 Inflation Factors; Operating Expenses

Fiscal Year	Annual Inflation Factor (%)
FY 2026	4.0
FY 2027	3.5
FY 2028	3.0
FY 2029	3.0
FY 2030	3.0
FY 2031	3.0
FY 2032	3.0
FY 2033	3.0
FY 2034	3.0
FY 2035	3.0
Cumulative Increase	36.4

Projected O&M expenses for the rate setting period are summarized in **Table 3-2**, by major ENV budget categories. The analysis assumes that ENV spends 100 percent of the budgeted and projected operating expenses.

O&M expenses are projected to increase from $229.5M in FY 2025 to $308.1M in FY 2035, an average annual increase of 3.0 percent, reflecting the impact of inflation on the projections. For FY 2025, the Current Expense category accounts for about 44 percent of O&M costs, which includes Treatment and Disposal costs and Collection System Maintenance costs. Personnel related costs (Salaries and Non-Salary Personnel Costs) account for about 40 percent of O&M costs. Expenses categorized as Other Agencies, which includes funding for services provided to ENV by the City and County of Honolulu including permitting, water, and corporation council, accounts for approximately 2 percent of O&M. As part of its operating budget, ENV budgets for annual equipment replacement separate from capital projects carried as part of the Capital Improvement Plan.

When the Sand Island treatment plant comes online, the O&M totals may increase, however, because the facility will not come on-line until December 2035 after the rate setting period, additional O&M costs have not been included in the projections. No other major increases in O&M costs are anticipated during the rate setting period.

Table 3-2 Projected O&M Expenses; in $M

Fiscal Year	Salaries	Non-Salary Personnel Costs	Current Expense	Other Agencies	Equipment	General Fund	Central Administrative Support	Total Projected Operating Expenses
FY 2025	$54.2	$37.8	$100.0	$4.8	$4.8	$0.5	$27.4	**$229.5**
FY 2026	$56.4	$39.3	$104.0	$5.0	$5.0	$0.5	$21.4	**$231.6**
FY 2027	$58.4	$40.6	$107.7	$5.2	$5.1	$0.5	$20.2	**$237.7**

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FY 2028	$60.1	$41.9	$110.9	$5.3	$5.3	$0.6	$19.9	**$243.9**
FY 2029	$61.9	$43.1	$114.2	$5.5	$5.4	$0.6	$21.9	**$252.7**
FY 2030	$63.8	$44.4	$117.6	$5.6	$5.6	$0.6	$24.6	**$262.2**
FY 2031	$65.7	$45.7	$121.2	$5.8	$5.8	$0.6	$27.7	**$272.5**
FY 2032	$67.7	$47.1	$124.8	$6.0	$5.9	$0.6	$30.4	**$282.6**
FY 2033	$69.7	$48.5	$128.6	$6.2	$6.1	$0.7	$31.7	**$291.4**
FY 2034	$71.8	$50.0	$132.4	$6.4	$6.3	$0.7	$32.3	**$299.9**
FY 2035	$74.0	$51.5	$136.4	$6.5	$6.5	$0.7	$32.6	**$308.1**
Cumulative Total	$703.7	$489.9	$1,297.8	$62.2	$61.8	$6.6	$290.2	**$2,912.2**

3.3 Capital Improvement Plan and Funding

ENV annually prepares and submits its CIP for a six-year period through the City's budgeting process, with the most recent CIP covering the period FY 2025 to FY 2030. For internal planning purposes, ENV also prepares longer term capital plans, which are updated periodically to reflect new requirements, anticipated needs, and revised cost estimates. ENV intends to finance capital projects using debt, fund balances, and grants when available.

3.3.1 Capital Improvement Plan

The projections herein reflect ENV's long-term internal capital planning estimates through FY 2035. For the purposes of determining revenue requirements and future rates, the following assumptions are made:

- The capital plan includes anticipated cash flow spending patterns on planned capital projects to estimate annual capital expenditures. These annual cash flow spending patterns have been incorporated into this analysis.
- Capital expenditures are inflated to the anticipated year of project expenditure, based on the inflation factors noted in **Section 3.1 (Table 3-1)**. All projects, except for the Sand Island secondary treatment plant, are stated in 2025 dollars in ENV's capital plan.
- The Sand Island project cost estimates developed by ENV were inflated to the mid-point of construction. Therefore, no additional inflation adjustments are included in these projections. The project has an estimated cost of $1.8 billion (inflated $), anticipated to be spent between FY 2028 and FY 2035.
- Planned capital expenditures have been adjusted to include a spend rate of 90 percent each year, consistent with ENV historical patterns. The 90 percent spend rate applies to all planned capital except the Sand Island project, where it is anticipated that ENV will expend 100 percent of the projected amounts.

For the period FY 2025 – FY 2035, estimated capital spending totals $6.9 billion (inflated $, after spend rate adjustment), or an annual average of about $623 million, summarized in **Table 3-3**. Approximately 30 percent of the anticipated capital spending is for mandated projects.

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Table 3-3 Projected Capital Expenditures FY 2025 to FY 2035; in inflated $M

Fiscal Year	Capital Spending, excluding Sand Island	Sand Island	Total Capital Spending
FY 2025	$408.5	$0.0	**$408.5**
FY 2026	$391.8	$0.0	**$391.8**
FY 2027	$406.2	$0.0	**$406.2**
FY 2028	$476.5	$90.0	**$566.5**
FY 2029	$469.7	$318.0	**$787.7**
FY 2030	$522.4	$360.0	**$882.4**
FY 2031	$564.2	$360.0	**$924.2**
FY 2032	$527.3	$360.0	**$887.3**
FY 2033	$480.0	$225.0	**$705.0**
FY 2034	$405.9	$78.0	**$483.9**
FY 2035	$405.4	$9.0	**$414.4**
Cumulative Total	$5,057.9	$1,800.0	**$6,857.9**

The following section summarizes the assumptions regarding funding and financing of the capital plan for the rate setting period.

3.3.2 Capital Funding and Financing

ENV funds its CIP through a mix of borrowings (revenue bonds and State Revolving Fund (SRF) loans) and cash. ENV as part of its financial planning includes $15M in SRF funding annually for yet to be identified projects. ENV does seek and use grants, although in general this is very limited.

At the start of FY 2025, ENV had approximately $1.3 billion in the sewer fund, which was accumulated over time with the purpose of paying down debt and for portions of its CIP. In evaluating the capital financing plan, ENV plans to use some sewer fund cash to pay for capital projects rather than borrowing. This will reduce the long-term debt obligations of ENV and the need for future rate increases. Future borrowings generate annual debt service requirements that are included in the calculation of revenue requirements. ENV's decision to apply available cash to fund a portion of future capital requirements reduces future revenue requirements and rates, while remaining in compliance with the City's financial policies and wastewater bond covenants.

The capital financing plan for the forecast period incorporated into these projections is summarized in **Table 3-4**.

Table 3-4 Projected Capital Financing FY 2025 - FY 2035; in inflated $M

Fiscal Year	Available Fund Balance	Revenue Bonds	Total
FY 2025	$179.4	$229.1	**$408.5**
FY 2026	$149.8	$242.0	**$391.8**
FY 2027	$137.5	$268.8	**$406.2**

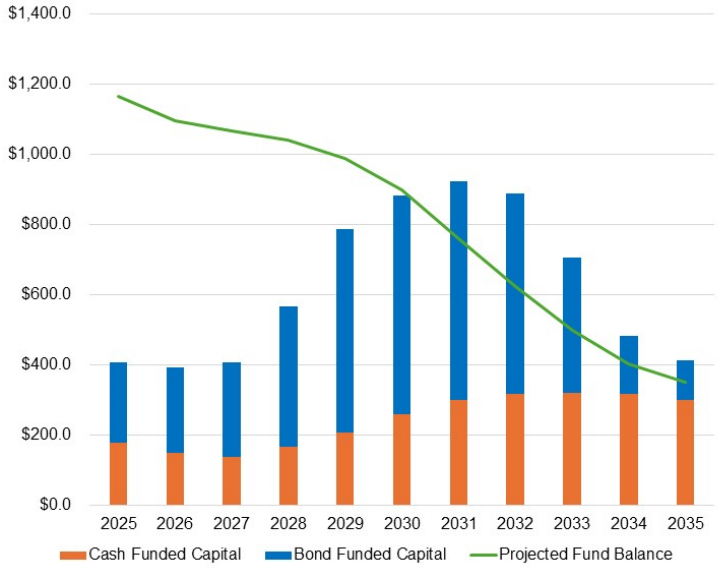
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FY 2028	$168.1	$398.4	**$566.5**
FY 2029	$208.8	$578.9	**$787.7**
FY 2030	$258.6	$623.8	**$882.4**
FY 2031	$301.1	$623.2	**$924.2**
FY 2032	$316.6	$570.7	**$887.3**
FY 2033	$320.6	$384.4	**$705.0**
FY 2034	$316.7	$167.2	**$483.9**
FY 2035	$300.3	$114.2	**$414.4**
Cumulative Total	$2,657.3	$4,200.6	**$6,857.9**

As shown in **Table 3-4** above, ENV anticipates cash funding a significant portion of its CIP through FY 2035, a total of $2.7 billion, or 39 percent of anticipated CIP expenditures. The portion funded through cash does not directly impact revenue requirements since it is paid through accumulated fund balances. The remaining portion of the CIP, anticipated to be funded through future borrowings, generates additional annual debt service obligations that increase future revenue requirements.

Figure 3-1 shows the projected fund balance over the rate setting period, relative to the annual capital expenditures. The annual bond funded capital is paid through borrowing proceeds, while the cash funded capital is covered through a combination of current year operating surplus and use of available existing fund balances, while maintaining cash reserves in accordance with bond coverage requirements.

Figure 3-1 Projected Fund Balance and Capital Spending by Funding Source, FY 2025 – FY 2035



Fiscal Year	Cash Funded Capital	Bond Funded Capital	Projected Fund Balance
2025	$179.4	$229.1	$1,164.7
2026	$149.8	$242.0	$1,094.9
2027	$137.5	$268.8	$1,065.7
2028	$168.1	$398.4	$1,039.6
2029	$208.8	$578.9	$988.4
2030	$258.6	$623.8	$898.5
2031	$301.1	$623.2	$760.9
2032	$316.6	$570.7	$622.2
2033	$320.6	$384.4	$499.7
2034	$316.7	$167.2	$403.4
2035	$300.3	$114.2	$352.4

Based on the anticipated use of cash for capital projects, ENV has provided anticipated debt service payments reflecting their assumptions regarding interest rates on 30-year debt and the anticipated bond structure to be used—interest only payments in the first five years with back-loaded principal repayments to minimize the rate burden in the CIP's earlier years.

3.4 Debt Service Requirements

Debt service requirements include the principal and interest payments on previously issued bonds and loans, as well as forecasted payments for future projected borrowings. All future debt service has been provided to CDM Smith by ENV.

Table 3-5 below summarizes the projected total debt service through the rate setting period, which doubles over that period. Total debt service increases from $217.6 million in FY 2025 to approximately $434.3 million in FY 2035.

Table 3-5 Total Debt Service, FY 2025 – FY 2035; in $M

Fiscal Year	Senior Lien Revenue Bonds	Junior Lien Revenue Bonds	SRF Loans	Total Debt Service*
FY 2025	$150.8	$27.3	$39.4	**$217.6**
FY 2026	$154.1	$7.9	$38.9	**$201.0**
FY 2027	$167.4	$8.1	$35.4	**$210.9**
FY 2028	$181.7	$8.1	$29.7	**$219.5**
FY 2029	$209.3	$8.1	$30.6	**$247.9**
FY 2030	$244.8	$8.0	$31.4	**$284.2**
FY 2031	$300.7	$8.1	$32.2	**$340.9**
FY 2032	$340.1	$8.1	$28.0	**$376.1**
FY 2033	$344.7	$33.5	$25.5	**$403.7**
FY 2034	$365.2	$33.4	$26.3	**$425.0**
FY 2035	$393.1	$14.4	$26.7	**$434.3**

*May not total exactly due to rounding

3.5 Revenue Requirement

The projected revenue requirement for the period FY 2025 – FY 2035 is summarized in **Table 3-6**. The revenue requirement includes contributions to reserves, which are modeled set-asides to ensure ENV complies with City financial policies regarding available cash and bond indenture requirements regarding debt service coverage. ENV policy is to maintain 25 percent of annual O&M as minimum fund balance, and 50 percent of existing debt service as a debt service reserve.

Revenue requirements are projected to increase from $437.3 million in FY 2025, to $746.4 million in FY 2035, an average annual increase of 5.5 percent.

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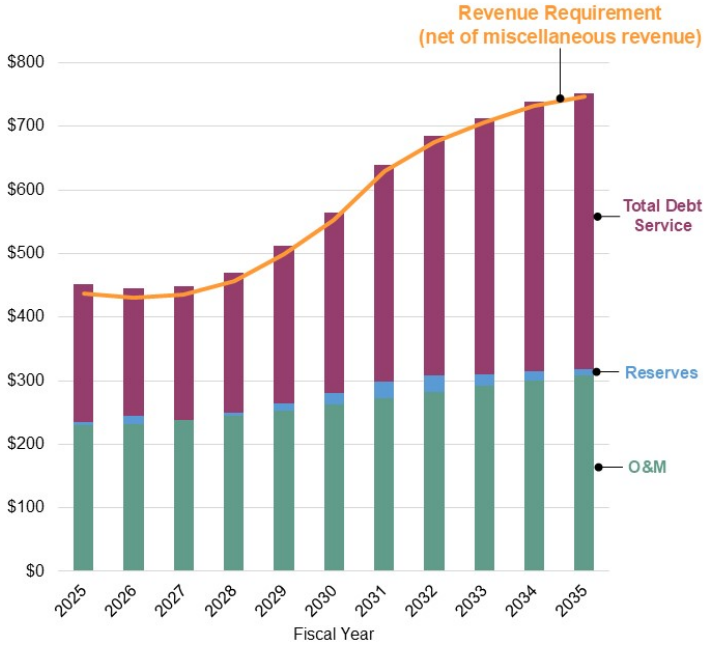
Table 3-6 Projected Revenue Requirement, FY 2025 – FY 2035 in $M

Fiscal Year	O&M	Debt Service	Reserve Fund Contribution	Less: Miscellaneous Revenue	Total*
FY 2025	$229.5	$217.6	$5.4	($15.1)	**$437.3**
FY 2026	$231.6	$201.0	$12.4	($14.3)	**$430.6**
FY 2027	$237.7	$210.9	$0.5	($13.9)	**$435.2**
FY 2028	$243.9	$219.5	$6.2	($13.6)	**$456.0**
FY 2029	$252.7	$247.9	$10.8	($13.0)	**$498.4**
FY 2030	$262.2	$284.2	$18.4	($12.0)	**$552.9**
FY 2031	$272.5	$340.9	$25.6	($10.4)	**$628.7**
FY 2032	$282.6	$376.1	$25.5	($8.8)	**$675.4**
FY 2033	$291.4	$403.7	$18.2	($7.4)	**$705.9**
FY 2034	$299.9	$425.0	$14.4	($6.3)	**$732.9**
FY 2035	$308.1	$434.3	$9.8	($5.8)	**$746.4**

* May not total exactly due to rounding

Figure 3-2 below graphically depicts the projected total expenses and revenue requirement for FY 2025 through FY 2035 (from Table 36), by expense categories - O&M, debt service, and contributions to reserves. The total revenue requirement significantly increases from FY 2025 to FY 2035 due primarily to the increases in total debt service. Debt service is projected to increase from approximately 50 percent of revenue requirements in 2025 to 58 percent in 2035 and accounts for 70 percent of the projected increase in revenue requirements.

Figure 3-2 Total Expenses and Revenue Requirements, FY 2025 – FY 2035



Fiscal Year	O&M	Reserves	Total Debt Service	Revenue Requirement
2025	$229.52	$5.38	$217.56	$437.32
2026	$231.59	$12.40	$200.96	$430.64
2027	$237.72	$0.52	$210.86	$435.21
2028	$243.93	$6.18	$219.54	$456.05
2029	$252.70	$10.82	$247.92	$498.45
2030	$262.25	$18.37	$284.24	$552.89
2031	$272.51	$25.63	$340.90	$628.65
2032	$282.59	$25.54	$376.13	$675.41
2033	$291.43	$18.22	$403.68	$705.88
2034	$299.87	$14.42	$424.96	$732.91
2035	$308.12	$9.76	$434.26	$746.36

4.0 Rate Setting Approach and Rate Structure Alternatives

As described in **Section 2,** ENV currently bills customers for services primarily with two fees:

- A Base Charge is a fixed monthly charge based on the Equivalent Single-Family dwelling units (ESDU) assigned to a customer.
- A Volume Charge based on the customer's metered water consumption, billed as $ per 1,000 gallons of metered consumption after a 20 percent reduction to account for irrigation and other water uses that do not discharge to the sewer system.

Under the current rate structure, 73 percent of annual revenue is generated from the Base Charge while 27 percent of annual revenue is generated from the Volume Charge. A key element of this study was to evaluate alternative rate structures and rate adjustments to identify potential improvements and to assess whether a revised approach would better meet key rate objectives.

Rate setting for all utilities requires developing an appropriate balance across rate objectives. The rate setting process involves balancing competing needs and objectives, an approach which was applied in the evaluation of adjustments to ENV's rate structure. The current ENV rate structure provides significant rate stability for ENV, is relatively easy to administer and easy for customers to understand. However, it does not promote water conservation and may not be the most equitable system, since customers using large amounts of water (and thus discharging significant quantities of wastewater), are not paying proportionately more than a customer in the same customer class using less water. The following rate alternatives evaluation provides insights into the impact of shifts in rate structures relative to those factors.

The primary rate objectives to be considered are as follows:

- **Revenue Stability**. Ensuring annual rate revenues are predictable and reliable. Since a significant portion of the utility's expenses are essentially fixed (80 to 90 percent), it is important that within a fiscal year and across fiscal years revenues are consistent. Rate structures that are based more on water use and less on fixed charges are generally less stable and reliable.
- **Equity.** Rate equity focuses on whether customers that impose similar demands on the utility are assessed similar amounts and those that impose higher demands are charged higher amounts.
- **Transparency and understandability**. Rate structures that are easy for customers to understand are generally preferable to those that are difficult for customers to understand. If the structure is more understandable it can reduce the number of customer inquiries and complaints, reducing customer service workload. It also makes clear that water conservation is valued by ENV.
- **Administrative Ease.** Generally, rate structures that are easy to manage and maintain are preferable to more complex structures. This eases the burden on administrative staff.

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In addition to these typical rate structure objectives, utilities frequently have policy objectives they are seeking to achieve through rate design. ENV is pursuing this approach through the rate adjustment exercise, focusing on key policy objectives such as affordability, equity and water conservation. Affordability focuses on evaluating how ENV can mitigate the financial burden sewer bills may create for customers with limited financial capabilities. Water conservation objectives acknowledge the importance of water as a resource, and ENV is seeking to understand what rate structures would better promote efficient water use.

As noted, rate structures must balance differing and frequently conflicting goals and objectives. ENV's rate structure design process has sought to achieve an appropriate balance among the objectives important to ENV and its customers. For example, a rate structure designed to provide "perfect equity" might have a different rate for each customer based on distance from the treatment facility, elevation change to the treatment facility, variability of discharge, strength of discharge, etc. While that rate structure would prioritize equity, it would be extremely difficult and costly to administer and not easily understood by customers. As part of rate structure evaluation, policy makers need to balance these competing objectives.

ENV requested that revenue allocations and alternative rate structures be identified and evaluated to meet key policy goals. The primary alternatives that were evaluated included the following:

- Shifting the share of revenues between the Base Charge and the Volume Charge. Heavy reliance on the Base Charge promotes revenue stability and administrative ease but may not be as equitable as other potential rate structures or promote a customer's ability to follow desired price signals, such as water conservation.
- Developing a tiered volumetric rate structure where the unit price charged per 1,000 gallons of metered water consumption increases incrementally with water use (unlike ENV's current uniform rate), similar to the rate structure that the Honolulu Board of Water Supply (BWS) currently has in place. This type of rate structure may be more equitable than one where a larger portion of the bill is based on a fixed charge since it better reflects the demands a customer places on the system relative to other customers. This rate structure allows the customer to have more control over their bills, however, it is more complex so it may be harder for customers to understand and may increase the utility's administrative burden and cost.

During the iterative process for identifying appropriate rate structures and rates for ENV, more than 30 rate structure alternatives were evaluated that involved:

- Shifting the revenue mix between the Base Charge and the Volume Charge
- Creating a tiered or block (non-uniform) structure for the Volume Charge and then modifying the tiers
- Modifying the start date for the revised rates and rate structure
- Establishing rates for the initial five years of the forecast period, or for the entire ten-year forecast period

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- Phasing in the proposed rates over two-to-five-year periods to minimize potential rate shock for large water users.

Alternatives focusing on the revenue allocation ranged from 100 percent Base Charge to 100 percent uniform Volume Charge, with multiple permutations in between. (A uniform rate structure charges the same amount per unit of water regardless of the total number of units that are consumed. For ENV, all users are currently charged $4.63 per 1,000 gallons of water whether they use 10 gallons per month or 100,000 gallons per month.) Evaluations of the tiered structures varied the consumption thresholds for the steps, and the magnitude of non-uniform charges in the tiers.

During final rate design, the following three alternatives were assessed:

- Alternative A: 73 percent Base Charge and 27 percent uniform Volume Charge (approximately ENV's current rate structure)
- Alternative B: 60 percent Base Charge and 40 percent uniform Volume Charge (phased in over 2 years)
- Alternative C: 50 percent Base Charge and 50 percent uniform Volume Charge (phased in over 4 years)

For Alternatives B and C, the final rate evaluation included phase-in periods. From earlier evaluations, it was clear that the shift from 73 percent Base Charge to some lower number would have a dramatic impact on the bills for certain customers—primarily heavy water users. The phase-in periods were included to mitigate those impacts by spreading the rate impact out over several years.

It is important to note that all rate structure alternatives are required to make adjustments that provide the same total amount of revenue generation to meet projected requirements in each year of the rate setting period. The following describes the evaluation and impact of the alternatives.

4.1 Tier-Based Volume Charge

A tier-based volume charge represents a rate structure in which the volume charge varies with the volume of water used (unlike current uniform volumetric rate). BWS currently has an inclining tiered volume charge, with the volume charge per 1,000 gallons increasing as monthly usage exceeds certain consumption thresholds. CDM Smith evaluated the potential impact of such a system for ENV. Generally, the tiered rate structures that were evaluated followed the current BWS structure in terms of the number of tiers and the tier water use ranges. The major differences were the steepness of the charges, that is, by how much the unit rate changes as a customer's consumption steps over a tier boundary.

One example of the evaluated tiered rate alternatives that was explored is outlined in **Table 4-1** and **Table 4-2** below. The example evaluates the impact on single-family customers, follows BWS FY 2024 tiers, and includes tiered rates for ENV that generate the same amount of revenue as projected for FY 2025 under ENV's existing rate structure. This approach represents an example structured consistent with ENV goals; however, it is not a unique solution and could be adjusted to create a number of viable options.

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Table 4-1 Example Tiered Alternative, Single Family, FY 2025

Tiers	Tiered Volume Charge ($ per 1,000 gallons / month)	Description	Percent of ENV Consumption in Tier
Tier 1: First 2,000 gallons	$3.24	70% of the Current Uniform Rate	20%
Tier 2: 2,001 - 6,000 gallons	$4.17	90% of the Current Uniform Rate	20%
Tier 3: 6,001 - 30,000 gallons	$4.63	Current Uniform Rate	48%
Tier 4: Over 30,000 gallons	$7.87	Always greater than Current Uniform Rate	12%

Table 4-2 Comparison of Uniform and Tiered Rates on Single Family Bills, FY 2025

Monthly Water Consumption (gallons)	Total Bill Under Uniform Volume Charge (Current Rate)	Total Bill Using Tiered Charge (Outlined in Table 4.1)	Difference	% Change
2,000	$84.96	$82.74	-$2.22	-2.6%
9,000	$110.89	$107.18	-$3.70	-3.3%
20,000	$151.63	$147.93	-$3.70	-2.4%
35,000	$207.19	$270.96	+$63.77	+30.8%

The analysis indicates that the bill for single-family customers with consumption at or below Tier 3 would be reduced by shifting from the uniform volume charge to the tiered volume charges in **Table 4-1**. Approximately 98 percent of customers have water use at or below Tier 3 upper threshold. However, customers in the highest tier would see a significant increase in their monthly bills with a shift to a tiered volume charge structure. For example, a customer consuming 35,000 gallons of water monthly would experience an increase of approximately 30 percent increase in their monthly bill.

An inclining tier structure is designed in part to promote equity and water conservation, since the higher tier unit rate is greater than the lower tiers' unit rate and provides incentive for customers to limit or reduce water consumption. Customers who are placing larger demands on the utility pay proportionately more for that higher use of the resource and larger flows through the wastewater system. This means high water use customers may see significant increases in their bills, which is how the price signal to conserve is sent. Impacted customers could be customers with significant irrigation systems and could also be multi-generational households that may have a limited ability to pay and/or ability to modify consumption patterns. Conversely, this type of rate structure may be more advantageous to small households such as retired persons on fixed incomes or households that actively monitor water consumption and implement practices to limit or reduce consumption.

A shift to a tiered volume charge would increase the complexity of the billing structure and potentially complicate a customer's ability to understand the sewer bill. A tiered structure would require billing software system changes to incorporate the additional volume charges beyond the current uniform charge, adding to the administrative costs and challenges of restructuring the rates.

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Ultimately, ENV concluded that while a shift to a tiered volume charge would allow customers the most control over their sewer bills and significantly incentivize water conservation, it would be a challenge to implement given the administrative complexities and the burden it could place on multigenerational homes that are higher water users. ENV believes that the rate objectives achieved with a tiered volume charge structure could still be partially advanced with a uniform volume charge structure, by reallocating the existing share of revenues between the Base Charge and uniform Volume Charge. This could be achieved without facing the administrative difficulties of modifying ENV's billing system nor increased complexity to communicate to the customer base.

4.2 Reallocation of Base Charge and Volume Charge Revenue

ENV also wanted to understand the implications of shifting the share of rate revenues generated from the Base Charge to the Volume Charge. The current allocation is approximately 73 percent Base, 27 percent Volume. This revenue allocation provides ENV a very stable revenue stream but inhibits a customer's ability to reduce their bill and mutes conservation incentives. The shift to a higher reliance on the Volume Charge will result in large water users experiencing increases greater than the average increase. To mitigate this impact and the potential rate shock, ENV has decided to evaluate the revenue reallocation alternatives with a phased-in approach.

ENV considered multiple variants of the allocation between Base Charge and Volume Charge, ranging from 100 percent Base Charge to 100 percent Volume Charge. The following graphic summarizes advantages and disadvantages of shifting the allocation of rate revenues, relative to rate objectives.

Figure 4-1 Comparison of Base and Volume Rate Structures by Rate Policy Objective

Rate Objectives	100% Volume Charge	Combination of Fixed and Volume	100% Fixed Charge
Transparent and understandable	More Complex than Fixed Charge	Most Complex	Easiest to Understand
Support affordability	Most Flexibility (allows customer to control bill)	Some Flexibility (allows for some customer control over bill)	No Flexibility (may impact low-income users)
Stable and predictable	Most Variable (large seasonal variation)	Less Variable (dependent on split between fixed and volume)	Most Stable and Predictable (only affected by changes in number of customer)
Fair and equitable	Uniform - allows customer to control bill Tiered – allows customer more control over bill than Uniform Charge	Allows customer to control portion of bill	All customers pay the same regardless of water use
Promote water conservation*	Uniform – Yes Tiered – Most	Somewhat	No
Provide sufficient revenue	Required	Required	Required
Comply with all relevant laws and regulations	Required	Required	Required
Support strong ENV credit rating	Required	Required	Required

* Rate Objective Suggested by Stakeholders

Based on feedback from the SW-WAG, ENV concluded that it would focus on two alternatives to the current revenue allocation of 73 percent Base Charge and 27 percent Volume Charge (Alternative A): 60 percent Base/40 percent Volume (Alternative B), and 50 percent Base/50 percent Volume (Alternative C). As mentioned, to mitigate the impact of potential rate shock to large water users, Alternative B includes a proposed level 2-year phase in, and Alternative C includes a proposed level 4-year phase in.

While each alternative reallocates the revenue by source, the evaluation was structured so each alternative would generate the same amount of total revenue. The projections shown in this section are based on the revenue requirement projections described in **Section 3**. Revenue requirements are projected to increase from $437.3 million in FY 2025, to $746.4 million in FY 2035, an average annual increase of 5.5 percent.

The evaluation of the alternatives presented in the following subsections presents the results for the median single-family customer that uses 6,000 gallons per month. Data on the impact at other consumption levels is presented in Appendix B.

4.2.1 Alternative A - Maintain Existing Allocation, 73/27, Base/Volume

Under Alternative A, the revenue allocation remains approximately the same as existing FY 2025 levels, with 73 percent of revenue generated from the Base Charge and 27 percent from the uniform Volume Charge. This current ratio provides the benefit of revenue stability since the majority of the total rate revenue is generated through a Base Charge and is not highly dependent on water usage. However, a larger share of a customer's bill being tied to a Base Charge means the customer has less control over the monthly bill since adjusting consumption patterns will have a relatively lower impact on the bill than the other alternatives. **Table 4-3** summarizes the projected impact for the median single-family customer monthly bill (6,000 gallons of water use per month).

Table 4-3 Alternative A (Current) - Single Family Bill; 6,000 Gallons/Month

	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034	FY 2035
Base	$77.55	$84.53	$92.14	$100.43	$109.47	$119.32	$130.06	$140.46	$150.30	$159.31	$167.28
Volume	$22.22	$24.22	$26.40	$28.78	$31.37	$34.19	$37.27	$40.25	$43.07	$45.66	$47.94
Total Monthly Bill	$99.77	$108.75	$118.54	$129.21	$140.84	$153.51	$167.33	$180.72	$193.37	$204.97	$215.22
% Change		9.0%	9.0%	9.0%	9.0%	9.0%	9.0%	8.0%	7.0%	6.0%	5.0%

The cumulative increase over the period is approximately 115 percent.

4.2.2 Alternative B - 60/40, Base/Volume; 2-year Phase-In

Under Alternative B, for single-family customers the Base Charge decreases while the Volume Charge increases for FY 2026 and FY 2027, due to the 2-year phase-in approach. This results in different percent increases for single-family customers in FY 2026 and FY 2027 than the proposed 10-year increase schedule. For example, for a single-family customer at 6,000 gallons of water use per month, the monthly bill for FY 2026 and FY 2027 increases 7.3 percent, which is slightly lower than the 10-year increase schedule. After the 2-year phase-in period and the reallocation is established, the changes in monthly bill amounts will increase by the same percentages for all customers according to the 10-year schedule. Alternative B includes a 2-year phase in to reduce rate shock for larger water users in the first several years of the revenue shift.

Alternative B offers customers greater control over their bill than Alternative A, since a larger portion of the revenue is generated from the Volume Charge and customers could experience a decrease in their

monthly bill with reduced usage. **Table 4-4** summarizes the impact on the median single-family customer monthly bill (6,000 gallons of water use per month), assuming a shift to 60 percent revenue from the Base Charge and 40 percent revenue from the Volume Charge, with a 2-year phase-in.

Table 4-4 Alternative B (60/40) - Single Family Bill; 6,000 Gallons/Month

	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	FY2033	FY2034	FY2035
Base	$77.55	$76.89	$75.49	$82.28	$89.69	$97.76	$106.56	$115.08	$123.14	$130.53	$137.05
Volume	$22.22	$30.21	$39.46	$43.01	$46.88	$51.10	$55.70	$60.15	$64.36	$68.23	$71.64
Total Monthly Bill	$99.77	$107.10	$114.95	$125.29	$136.57	$148.86	$162.26	$175.24	$187.50	$198.75	$208.69
% Change		7.3%	7.3%	9.0%	9.0%	9.0%	9.0%	8.0%	7.0%	6.0%	5.0%

The cumulative increase over the forecast period is approximately 110 percent.

4.2.3 Alternative C - 50/50, Base/Volume; 4-year Phase-In

Under Alternative C, for single-family customers the Base Charge decreases while the Volume Charge increases over the 4-year period through FY 2029. **Table 4-5** summarizes the impact on the median single-family customer monthly bill (6,000 gallons of water use per month), assuming a shift to 50 percent revenue from the Base Charge and 50 percent revenue from the Volume Charge, with a 4-year phase-in period. As shown in **Table 4-5**, the monthly bill will be slightly lower for the first four years than the 10-year schedule. The increases are 7.5 percent each year for FY 2026 through FY 2029, then after the 4-year phase-in period, the bill amounts will increase by the same percentages for all customers according to the 10-year schedule. Alternative C includes a 4-year phase in to reduce rate shock for larger water users in the first several years of the revenue shift.

Table 4-5 Alternative C (50/50) - Single Family Bill; 6,000 Gallons/Month

	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	FY2033	FY2034	FY2035
Base	$77.55	$77.83	$77.52	$76.53	$74.74	$81.47	$88.80	$95.90	$102.62	$108.77	$114.21
Volume	$22.22	$29.48	$37.86	$47.52	$58.60	$63.87	$69.62	$75.19	$80.46	$85.28	$89.55
Total Monthly Bill	$99.77	$107.31	$115.39	$124.05	$133.34	$145.34	$158.42	$171.09	$183.07	$194.06	$203.76
% Change		7.5%	7.5%	7.5%	7.5%	9.0%	9.0%	8.0%	7.0%	6.0%	5.0%

The Alternative C cumulative increase is estimated to be approximately 105 percent.

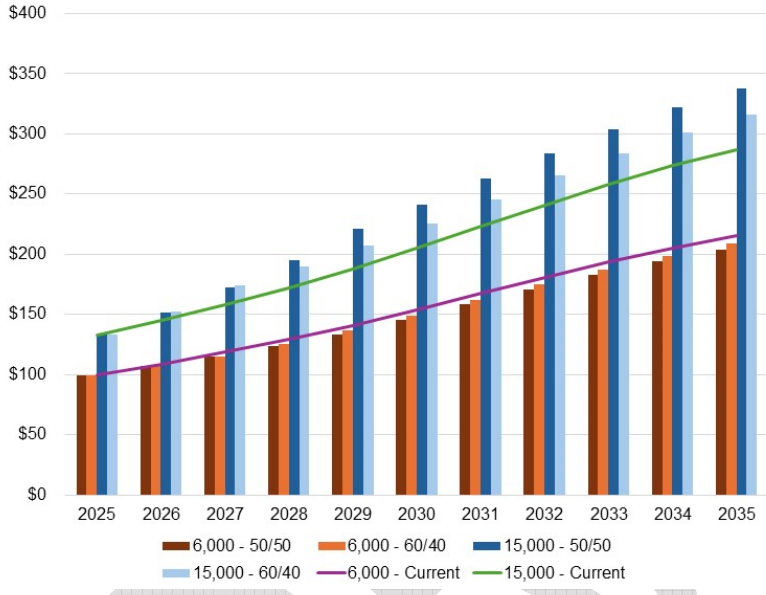
4.2.4 Proposed Rate Structure Shift

The evaluation focused on comparing the monthly bill for every customer class, at multiple water use levels, for each alternative. **Figure 4-2** summarizes the results for a single-family customer at consumption levels of 6,000 gallons and 15,000 gallons per month, respectively. The median consumption level is 6,000 gallons per month. Fifteen thousand gallons represent customers at approximately the 90th percentile, that is 90 percent of the customers use 15,000 gallons per month or less and ten percent use more than 15,000 gallons.

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Customers at the median consumption level of 6,000 gallons per month are estimated to have monthly bills between 4 percent (Alternative B--60/40) and 7 percent (Alternative C--50/50) lower compared to the current rate structure. For customers at 15,000 gallons per month, customers are estimated to have monthly bills between 7 percent (Alternative B) and 18 percent (Alternative C) higher compared to the current rate structure. Overall, single-family customers using more than 6,000 gallons per month will experience an increase in their monthly bills under Alternatives B and C, whereas customers with consumption below 6,000 will have lower bills. The magnitude of the difference will depend on how far monthly consumption deviates from 6,000 gallons. Appendix B summarizes the results for a wider consumption range.

Figure 4-2 Single-Family Customer Bill Comparison



Fiscal Year	6,000 - 50/50	6,000 - 60/40	6,000 - Current	15,000 - 50/50	15,000 - 60/40	15,000 - Current
2025	$99.77	$99.77	$99.77	$133.11	$133.11	$133.11
2026	$107.31	$107.10	$108.75	$151.53	$152.42	$145.09
2027	$115.39	$114.95	$118.54	$172.18	$174.13	$158.15
2028	$124.05	$125.29	$129.21	$195.32	$189.80	$172.38
2029	$133.34	$136.57	$140.84	$221.24	$206.89	$187.90
2030	$145.34	$148.86	$153.51	$241.15	$225.51	$204.81
2031	$158.42	$162.26	$167.33	$262.85	$245.80	$223.24
2032	$171.09	$175.24	$180.72	$283.88	$265.47	$241.10
2033	$183.07	$187.50	$193.37	$303.75	$284.05	$257.97
2034	$194.06	$198.75	$204.97	$321.98	$301.09	$273.45
2035	$203.76	$208.69	$215.22	$338.08	$316.15	$287.13

The analysis indicates that, across all alternatives, low water users will have lower monthly bill increases than high water users. The lower the monthly consumption level the greater the relative savings; conversely, the higher the monthly consumption the greater the relative bill increases.

The three alternatives were presented to the SW-WAG. The SW-WAG indicated a preference for Alternative C, as it promotes water conservation and provides customers with more control over the monthly bills relative to the other alternatives. Consistent with the preference stated by the SW-WAG, ENV proposed a revenue reallocation to 50 percent of revenue from the Base Charge and 50 percent of revenue from the Volume Charge, with a 4-year phase-in period.

5.0 Public Outreach

5.1 Overview

ENV has proactively undertaken a public outreach program to educate and inform its customers and stakeholders about the financial challenges the utility faces, the alternatives it is considering to best meet those challenges, and to obtain input as it crafts its solution and presents to policymakers. The outreach effort has included:

- Communications through its website, community meetings and media interviews and postings
- Presenting its approach, impact of alternatives and its recommendations to a previously established, then expanded Advisory Group, now known as the Storm Water-Wastewater Advisory Group (SW-WAG).

Those efforts are summarized below.

5.2 Public Communication

ENV developed a public communications program to educate customers and stakeholders regarding ENV's financial challenges and planning and to provide a structure for customers and stakeholders to provide their input. ENV understands the sensitivity around rate increases and that transparency is the key to building and maintaining public trust. As of this report, the overall feedback received via public outreach efforts are general concern about the rate increase, understanding the need for the rate increases, interest in the shift to a 50 percent Base Charge and 50 percent Volume Charge, and interest in a proposed customer assistance program called Customer Assistance for Residential Environmental Services (CARES). Public outreach and engagement activities related to the sewer rate increases as of this report include:

- Conducted briefings with each City Council member (September 26, 2024 - October 4, 2024)
- Added an announcement to all Neighborhood Board agendas (October 10, 2024)
- Requested a presentation at all Neighborhood Boards (October 2024 - January 2025)
- Presented at the following Neighborhood Boards:
  - Wahiawā / Whitmore Village #26 (Oct 21, 2024)
  - Ala Moana / Kakaʻako #11 (Oct 22, 2024)
  - Pearl City #21 (Oct 22, 2024)
  - Waipahu #22 (Oct 24, 2024)
  - Hawaiʻi Kai #1 (Oct 29, 2024)
  - McCully Mōʻiliʻili #8 (Nov 7, 2024)
  - ʻAiea #20 (Nov 12, 2024)
  - Kalihi Valley #16 (Nov 13, 2024)

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  - Diamond Head / Kapahulu / St. Louis Heights #5 (Nov 14, 2024)
  - Punchbowl / Nu'uanu #12 (Nov 19, 2024)
  - Makiki / Tantalus #10 (Nov 21, 2024)
  - Kāne'ohe #30 (Nov 21, 2024)
  - Kuliouou-Kalani Iki #2 (Dec 4)
  - Downtown-Chinatown #13 (Dec 5)
  - Aliamanu Salt Lake #18 (Jan 9)
  - Waimanalo #32 (Jan 13)
  - Waikiki #9 (Jan 14)
  - Mililani #35 (Jan 21)
  - Makakilo #34 (Jan 22)
  - Mililani #25 (Jan 22)
  - Liliha-Alewa #14 (Feb 10)
  - Palolo #6 (Feb 12)
  - Ewa #23 (Feb 13)
  - Kalihi-Palama #15 (Feb 19)
  - Kaimuki #4 (Feb 19)
- Additional Neighborhood Board meeting scheduled for:
  - Waianae Coast #24 (Mar 4)
  - Manoa #7 (Mar 5)
  - Kailua #31 (Mar 6)
  - Kahaluu #29 (Mar 12)
  - Nanakuli #336 (Mar 18)
  - North Shore #27 (Mar 25)
- Koolauloa #28 (Apr 10)Held press Conference announcement (October 23, 2024)
- Participated in segment of KHON show called Living 808 (October 24, 2024)
- Released One O'ahu podcast (October 24, 2024)
- Published Op-Ed in the Star-Advertiser (October 27, 2024)
- Introduced sewer fee bill at full City Council (November 7, 2024)
- Offered public bus tour of wastewater facilities (Saturday November 16th, 2024)
- Hosted Sewer Fee Town Halls:

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- Kapolei Hale (Monday, November 18, 2024), District 1
- Neal Blaisdell Center (Tuesday, December 3, 2024), District 7
- Kailua / Kāneʻohe (Tuesday, December 10, 2024), District 3
- Mililani (Tuesday, December 17th, 2024), District 8
- ʻĀina Haina (Friday, January 3rd, 2025), District 4
- Nānākuli (Monday, January 6th, 2025), District 1
- Manoa (Tuesday, February 18th, 2025), District 5
- Ewa Beach (Thursday, February 20th, 2025), District 9
- Nuuanu/Punchbowl/Makiki (March 11th, 2025), District 6
- Village Park/Royal Kunia, TBD, District 2

- Created webpage: www.honolulu.gov/env/sewer-fee-rates
- Posted to social media: Facebook (HNL.ENV1) and Instagram (hnl.env)

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- Engaged with various media agencies:

Table 5-1 Proposed Sewer Rates in the Hawai'i Media

Date	Time	Media Agency	Title
October 23, 2024	7:00 AM	Hawai'i News Now	Proposed sewer fee hikes could increase your bill significantly over next decade
October 23, 2024	3:00 PM	Hawai'i News Now	Proposed sewer fee hikes could increase your bill significantly over the next decade
October 23, 2024	5:08 PM	KHON	Honolulu sewer fees could double in 10-years
October 23, 2024	5:00 PM	KITV	Honolulu state official plan to adjust city's sewer fees
October 23, 2024	6:00 PM	KITV	Sewer fee increases potentially on tap starting next year on O'ahu
October 24, 2024	5:00 AM	Star-Advertiser	City proposing 124% residential sewer fee hikes over the next 10 years on O'ahu
October 24, 2024	7:27 AM	Hawai'i News Now	Proposed sewer fee hikes could increase your bill significantly over the next decade
October 27, 2024	5:00 AM	Star-Advertiser	Column: Sewer fee hike to fund vital projects
November 1, 2024	5:00 AM	Star-Advertiser	Letter: Proposed sewer fee is a fair, equitable change
November 1, 2024	4:17 PM	KHON	Honolulu Department of Environmental Services to Implement 10-Year Sewer Fee Increase
November 5, 2024	5:00 AM	Star-Advertiser	Honolulu Council to review sewer fee hike measure
November 12, 2024	5:00 AM	Star-Advertiser	Council weighs in on city's proposed sewer fee hike
November 18, 2024	5:00 AM	Star-Advertiser	Editorial: More outreach on sewer fee increase

5.3 SW-WAG Collaboration

ENV actively pursued public engagement throughout the rate setting process. From May 2024 through November 2024, ENV hosted monthly meetings with the Storm Water – Wastewater Advisory Group (SW-WAG) to facilitate discussion about the need for sewer rate increases and the potential flexibility in those adjustments. The SW-WAG was originally formed by the Department of Facilities Maintenance (DFM) to solicit feedback regarding a storm water utility fee, but the group's scope was expanded to include ENV sewer rates.

Members of the SW-WAG represented a variety of interests including senior citizens, engineering companies, building owners, developers, non-profits, Native Hawaiian culture, the environment, tourism, utilities, education, and council districts. The list of SW-WAG members can be found in **Appendix C**. The SW-WAG's objective as it relates to ENV sewer rate adjustments was to design and

implement changes to sewer rates that balance the financial needs of the utility and rate payer affordability. SW-WAG meetings with agendas relating to ENV sewer rate adjustment were held on May 13th, June 24th, July 22nd, August 19th, September 23rd, October 21st, and November 18th, 2024. A high-level overview of each meeting is provided below, and detailed summaries of each meeting can be found at: https://www.stormwaterutilityoahu.org/stakeholder-advisory-group/.

Figure 5-1 SW-WAG Meeting Roadmap



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Table 5-2 Summary of SW-WAG Meetings

Meeting No.	Date	Description
Meeting 1	May 13, 2024	As the first SW-WAG meeting with a focus on sewer rates, the purpose of the meeting was to define the SW-WAG's purpose, provide an overview of ENV, introduce the current ENV rate structure, and outline the rate setting process going forward. The SW-WAG's purpose was defined as engaging stakeholders in a collaborative discussion and seeking input about both the need and options for increases to ENV sewer rates. The overview of ENV included information about ENV's vision and mission, facilities and services, internal organization, residential and non-residential customer accounts, revenue and expenses, current challenges (including the 2010 consent decree), and their Capital Improvement Program (CIP). The SW-WAG was engaged in a rate setting process comprised of three main steps: determine revenue requirement, allocate costs to customer types, and consider community goals. That rate setting process was facilitated throughout the following SW-WAG meetings.
Meeting 2	June 24, 2024	The second SW-WAG meeting was used to explore rate structure objectives (values), discuss ENV revenue requirement, and begin a conversation about potential flexibility in the rate setting process. Per the City and County of Honolulu Resolution No. 98-197, CD1, ENV must ensure that "The wastewater system enterprise is managed to be self-sufficient, supported from user fees and not general property taxes and other City and County resources." Given this, a discussion and exercise were conducted to explore what objectives the SW-WAG members value most in the rate setting process. More information about these rate objectives and how they were considered throughout the rate setting process can be found in **Section 4** of this report. The SW-WAG was also provided with more details regarding the three main elements of ENV's revenue requirement: O&M, debt service, and the CIP. More information about ENV's revenue requirement can be found in **Section 3** of this report. A discussion was also facilitated regarding flexibility in the rate setting process and it was determined that there is most flexibility in the rate structure and in the affordability program(s).
Meeting 3	July 22, 2024	This meeting was used to facilitate a deep dive on rate structure alternatives with the SW-WAG members. A recap of ENV's rate structure at the time of the meeting (FY 2025 rates) and a bill example for the average single-family customer (9,000 gallons of water use per month) was provided. The SW-WAG was also presented with monthly bill comparisons between ENV and the Honolulu Board of Water Supply (BWS), the fifty largest United States cities, and the other Hawai'i counties. Information regarding ENV single family water use, the definition of rate structure, uniform volumetric rates versus tiered volumetric rates, and the potential for varying fixed and volumetric proportions of the rate structure were discussed. The results of the rate objective exercise from the last meeting were summarized and a comparison of those rate objectives across different rate structures was provided. The SW-WAG also explored how customer bills could vary by changing the rate structure using the FY2025 rates and discussed how the rate objectives were impacted by those choices. The meeting agenda also included a discussion on affordability programs, but this content was rescheduled for Meeting 4 (August 19th, 2024) due to time constraints. However, the following affordability programs were suggested by SW-WAG members for ENV consideration: senior rebates, a sliding scale of support based on customer need, income-based assistance, pursuing federal aid programs, and seeking financial support from the Department of Defense for fixed infrastructure costs.

Meeting No.	Date	Description
Meeting 4	August 19, 2024	The meeting began with a summary of feedback provided about the rate structure examples explored in the previous meeting. Overall, SW-WAG members indicated the following based on the initial discussion: ▪ ENV should not have entirely fixed rate ▪ The rate structure should grant customers more control over their bill by lowering the proportion of the bill based on the Base Charge ▪ A tiered volumetric rate may be favored over a uniform volumetric rate ▪ The rate structure should support water conservation ▪ Rate shock should be avoided ▪ ENV should keep their combined billing program with BWS to avoid increasing ENV administrative costs ▪ Public education materials should be provided This meeting also explored the following potential affordability programs: bill discounts, crisis vouchers, bill forgiveness and goodwill adjustments, payment plans, social assistance programs, tiered rate structure and lifelines rate, and water conservation device rebates. ENV's current affordability programs were summarized, examples of other wastewater utility affordability programs were provided, and then a discussion was held about if ENV should do more to support customer affordability. The meeting concluded with a comparison between residential bill examples under a tiered volumetric rate and a uniform volumetric rate using FY 2025 rates. The examples also explored how the bills would be impacted if the proportion of the bill based on the Base Charge was changed. The examples indicated that low water users would benefit if the proportion of the Base Charge was decreased since more of the bill would be based on water use. Conversely, the bill for high water users would increase. Additionally, the examples showed that a tiered volumetric rate may lead to rate shock for customers with higher water use.
Meeting 5	September 23, 2024	In response to a request made at Meeting 4, this meeting began with bill examples using FY2025 rates for the following non-residential customers: fast food restaurant, hotel, office building, and large shopping center. As seen in the residential bill examples showcased in Meeting 4, the monthly bills for non-residential customers with lower water use would decrease if the proportion of the bill based on the volumetric rate was increased. The annual revenue increase as determined by this rate study was also shared with the SW-WAG. Based on SW-WAG feedback, bill examples for single-family, multi-family, and non-residential customers were presented with the required revenue increases for three rate structure alternatives: ▪ Alternative A: 70 percent Base Charge and 30 percent uniform volumetric rate (approximately ENV's current rate structure) ▪ Alternative B: 60 percent Base Charge and 40 percent uniform volumetric rate (phased in over 2 years) ▪ Alternative C: 50 percent Base Charge and 50 percent uniform volumetric rate (phased in over 4 years) Based on the examples provided, the SW-WAG was asked to vote on which rate structure alternative they would prefer. After discussion, it was determined that a majority of the SW-WAG would prefer a 50 percent Base Charge and 50 percent uniform volumetric rate (Alternative C). ENV also shared their initial thoughts regarding an affordability program based on the feedback provided by the SW-WAG at previous meetings: income-based program for residential customers administered through a third-party non-profit on a first-come first serve basis until the maximum available funds per year are exhausted.

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Meeting No.	Date	Description
Meeting 6	October 21, 2024	This meeting was used to present the rate structure and customer assistance program developed by ENV based on SW-WAG input and facilitate additional discussion. The SW-WAG members were also updated on ENV public outreach activities regarding the proposed sewer rate increases and informed about the anticipated City Council approval schedule. Based on the preference for a 50 percent Base Charge and 50 percent volumetric rate structure, Meeting 6 was used to show bill examples for each customer class at different water uses for each year of the rate setting period: ▪ Single-family customer bill examples were presented for customers at 2,000 gallons per month (low water user), 6,000 gallons per month (median of single-family customer bills), 9,000 gallons per month (average single-family customer bill), and 35,000 gallons per month (high water user). ▪ Multi-family bill examples were presented for customers at 2,000 gallons per month, 6,000 gallons per month (average multi-family bill), and 35,000 gallons per month. ▪ Non-residential bill examples were presented for a large shopping center, office building, and hotel. The SW-WAG was also presented with details about ENV's CARES program. More information about CARES, which was developed based on SW-WAG feedback, can be found in **Section 6** of this report.
Meeting 7	November 18, 2024	Meeting 7 was held virtually to update SW-WAG on the rate increase approval process and public outreach initiatives. More information about ENV's public outreach activities can be found in **Section 5.2** of this report.

Overall, the SW-WAG members provided feedback that water conservation should be encouraged, customers should be given more control over their bill, rate shock should be avoided, and the proposed rates must at the very least ensure that minimum operating expenses can be met. The SW-WAG also provided feedback regarding customer assistance programs, which included the following key points: an income-based program would be preferred, a sliding scale would be difficult to implement, and ENV should consider partnering with another entity for customer eligibility verification. Based on SW-WAG input, ENV developed the CARES program, which is described in **Section 6** of this report. The input provided by the SW-WAG is the bedrock of the proposed rate adjustments and customer assistance program.

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6.0 Proposed Sewer Rate Adjustments

This section summarizes the proposed sewer rate adjustments for the 10-year rate setting period of FY 2026 through FY 2035. This includes both shifts in the revenue allocation between the Base Charge and the Volume Charge as well as adjustments in the rates to ensure sufficient revenues to meet ENV's increasing revenue requirements.

6.1 Proposed Sewer Rate Adjustments

The proposed sewer rate adjustments incorporate the following guidelines developed in consultation with ENV staff and feedback from stakeholders throughout the rate setting process:

- Set rates annually at a level to generate revenue sufficient to maintain all ENV coverage ratios and minimum days cash balances.
  - 1.6x senior lien debt service
  - 1.25x senior and junior lien debt service
  - 1.0x all debt service
  - 90 days working capital
- Limit annual average rate increases to less than 10 percent.
- Reallocate the revenue split for the Base and Volume Charges from 73 percent Base/27 percent Volume sales to 50/50, phased in over a 4-year period to align with the City's and ENV's rate objectives. More information about this shift in rate structure can be found in **Section 4** of this report.
- Increase rates for all customer classes by the same percentage to maintain the share of revenues from each customer class.
- Utilize existing cash balances to partially pay for future capital projects and mitigate future rate increases to avoid rate shock.

Based on the revenue requirements outlined in **Section 3**, ENV's proposed sewer rate adjustments are annual average rate increases of 9 percent for the period FY 2026 – FY 2031. In subsequent years, the increases are 8 percent for FY 2032, 7 percent for FY 2033, 6 percent for FY 2034, and 5 percent for FY 2035. The actual increase experienced by any specific customer will depend on their actual water consumption. As the monthly consumption increases, the amount of the increase will go up.

The proposed rate structure changes include shifting the rate revenue allocation to a 50 percent Base Charge and 50 percent Volume Charge, to be phased in over the first four years of the 10-year rate schedule beginning July 1, 2025. The shift to a 50/50 split between the Base Charge and Volume Charge means that the increase experienced by any customer will vary according to their consumption, giving customers more control of their bill and benefiting those whose consumption is lower. As noted, the overall rates will also increase by 6 to 9 percent annually to meet the increase in revenue requirements.

The November 2024 rate ordinance with the proposed rate schedule can be found in **Appendix A**.

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6.1.1 Base Charge

The monthly Base Charge is assessed to all customers on the following basis: per account for single-family customers, per dwelling for multi-family residential customers, and per ESDU for non-residential customers. The proposed Base Charges for the rate setting period are shown in **Table 6-1** for each customer class.

Table 6-1 Proposed Base Charges

FY	Residential - Single Family/Duplex (metered water)	Residential - Single Family/Duplex (not on City water)	Residential - Multiple Unit (metered water)	Residential - Multiple Unit (not on City water)	Non-Residential - Domestic Strength (metered water)	Non-Residential - Domestic Strength (metered wastewater)
	$ / Month	$ / Month	$ per dwelling / Month	$ per dwelling / Month	$ per ESDU / Month	$ per ESDU / Month
2026	$77.83	$111.28	$53.51	$86.96	$77.83	$77.83
2027	$77.52	$110.85	$53.30	$86.62	$77.52	$77.52
2028	$76.53	$109.44	$52.62	$85.51	$76.53	$76.53
2029	$74.74	$106.87	$51.39	$83.51	$74.74	$74.74
2030	$81.47	$116.49	$56.01	$91.03	$81.47	$81.47
2031	$88.80	$126.97	$61.05	$99.22	$88.80	$88.80
2032	$95.90	$137.13	$65.94	$107.16	$95.90	$95.90
2033	$102.62	$146.73	$70.55	$114.66	$102.62	$102.62
2034	$108.77	$155.53	$74.79	$121.54	$108.77	$108.77
2035	$114.21	$163.31	$78.53	$127.61	$114.21	$114.21

The Base Charges for ADUs are proposed to be the same values as those for Residential-Multiple Unit customers.

6.1.2 Volume Charge

The proposed Volume Charges are uniform, applicable to all customers, and are billed per 1,000 gallons of water used per month. To account for water not discharged into the sewer system (e.g., water used for irrigation, filling pools, etc.), the Volume Charge for all customers is applied to 80 percent of the customer's metered water use. The proposed Volume Charge for the rate setting period is shown in **Table 6-2**.

Table 6-2 Proposed Volume Charge

FY	Uniform Volume Charge ($ per 1,000 gallons of water use / month)
2026	$6.14
2027	$7.89
2028	$9.90
2029	$12.21
2030	$13.31
2031	$14.50
2032	$15.67
2033	$16.76
2034	$17.77
2035	$18.66

6.1.3 Industrial Surcharges

ENV's current rate ordinance authorizes the imposition of high strength surcharges for TSS and BOD. However, the existing ordinance defers the imposition of the charges until such time as the upgrades to Sand Island are completed. ENV has proposed in its November 2024 proposed rate ordinance (see **Appendix A**) that the high strength surcharges be eliminated. The proposed rate adjustments also introduce a wastewater disposal charge (per 1,000 gallons of wastewater disposed) for waste haulers transporting wastewater to a City and County of Honolulu facility. These wastewater disposal charges are proposed to be increased each year from $15.11 per 1,000 gallons of wastewater discharged in FY 2026 to $29.90 per 1,000 gallons of wastewater discharged starting July 1, 2033. Under this proposed ordinance, customers with high-strength waste will not be charged for the additional loadings that they impose on ENV's system.

6.2 Typical Bills

This section shows the change in sample bills for single-family residential, multi-unit residential, and non-residential customers for FY 2025 through FY 2035.

Table 6-3 presents the total monthly bills for the median single-family customers using 6,000 gallons per month, comparing the projected monthly bills under the existing revenue allocation (73 percent Base Charge, 27 percent Volume Charge) and the proposed rate structure (50 percent Base Charge, 50 percent Volume Charge). Half of single-family customers utilize 6,000 gallons per month or less, and half use more than 6,000.

A single-family customer using 6,000 gallons per month would experience a total increase in monthly bills of 116 percent from FY 2025 to FY 2035 under the existing revenue 73percent Base/27 percent Volume Charge. The same customer would experience a total increase in monthly bills of approximately 104 percent with the proposed 10-year rate schedule including the revenue allocation shift to 50 percent Base/50 percent Volume.

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Table 6-3 Monthly Bill, Single-Family Customer, 6,000 Gallons/Month Water Usage

Monthly Bill		
Fiscal Year	**Existing Rate Structure**	**Proposed Rate Structure**
2025 (Current)	$110.89	$99.77
2026	$120.87	$107.31
2027	$131.74	$115.39
2028	$143.60	$124.05
2029	$156.52	$133.34
2030	$170.61	$145.34
2031	$185.97	$158.42
2032	$200.84	$171.09
2033	$214.90	$183.07
2034	$227.80	$194.06
2035	$239.19	$203.76
Total Increase (%)	**115.7**	**104.2**

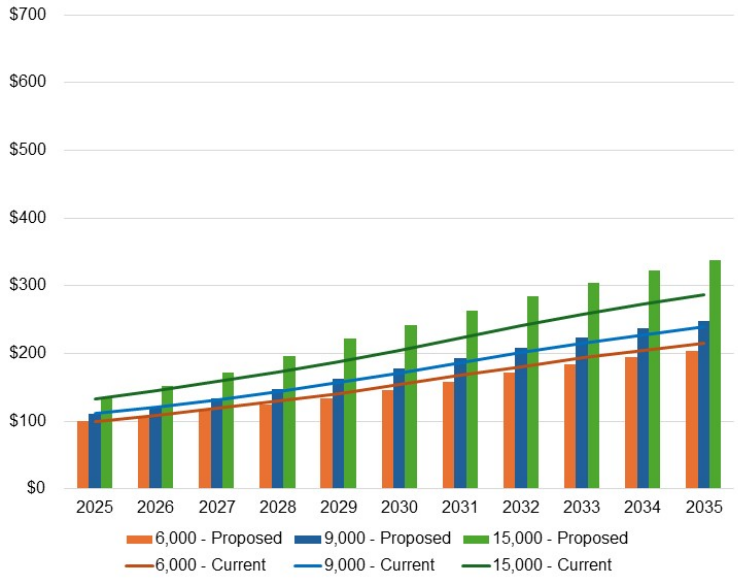
Note: Billed usage represents monthly billed water usage. Sewer bills reflect the 20 percent irrigation factor.

The median single-family customer bill is represented at 6,000 gallons of water use per month, and customers at this water use would experience a total increase of about 104 percent with the proposed 10-year rate schedule. Low water users at 2,000 gallons per month water use would experience a total increase approximately 70 percent with the proposed 10-year rate schedule. Conversely, a customer with relatively high-water use consuming 35,000 gallons per month water would experience a total increase of approximately 207 percent over the proposed 10-year rate schedule. The average single-family customer using 9,000 gallons of water per month would experience a total increase of approximately 124 percent over the proposed 10-year rate schedule. Approximately 70 percent of single-family customer bills are at or below the monthly average usage of 9,000 gallon per month.

Figure 6-1 shows monthly bills for single-family customers with monthly usage of 6,000 gallons, 9,000 gallons, and 15,000 gallons, comparing the projected monthly bill under the existing structure with the proposed 10-year rate schedule. **Figure 6-2** shows the monthly bill comparison for low water user of 2,000 gallons and high-water user of 35,000 gallons.

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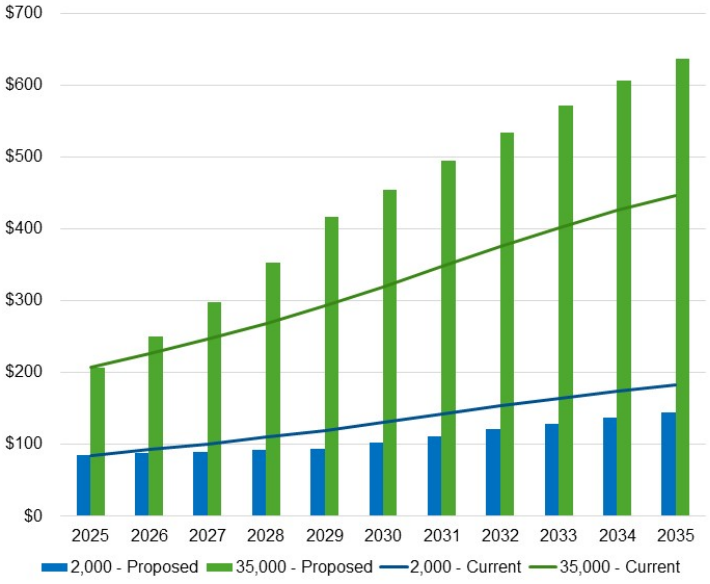
Figure 6-1 Monthly Bill, Single Family Customers; 6,000/9,000/15,000 Gallons per Month



Fiscal Year	6,000 - Proposed	9,000 - Proposed	15,000 - Proposed	6,000 - Current	9,000 - Current	15,000 - Current
2025	$99.77	$110.89	$133.11	$99.77	$110.89	$133.11
2026	$107.31	$122.05	$151.53	$108.75	$120.87	$145.09
2027	$115.39	$134.32	$172.18	$118.54	$131.74	$158.15
2028	$124.05	$147.81	$195.32	$129.21	$143.60	$172.38
2029	$133.34	$162.64	$221.24	$140.84	$156.52	$187.90
2030	$145.34	$177.28	$241.15	$153.51	$170.61	$204.81
2031	$158.42	$193.23	$262.85	$167.33	$185.97	$223.24
2032	$171.09	$208.69	$283.88	$180.72	$200.84	$241.10
2033	$183.07	$223.30	$303.75	$193.37	$214.90	$257.97
2034	$194.06	$236.70	$321.98	$204.97	$227.80	$273.45
2035	$203.76	$248.53	$338.08	$215.22	$239.19	$287.13

Note: Billed usage represents monthly billed water usage. Sewer bills reflect the 20 percent irrigation factor.

Figure 6-2 Monthly Bill, Single Family Customers; 2,000/35,000 Gallons per Month



Fiscal Year	2,000 – Proposed	2,000 – Current	35,000 – Proposed	35,000 – Current
2025	$84.96	$84.96	$207.19	$207.19
2026	$87.65	$92.60	$249.80	$225.84
2027	$90.14	$100.94	$298.39	$246.16
2028	$92.37	$110.02	$353.71	$268.32
2029	$94.27	$119.93	$416.57	$292.47
2030	$102.76	$130.72	$454.06	$318.79
2031	$112.01	$142.48	$494.93	$347.48
2032	$120.97	$153.88	$534.52	$375.28
2033	$129.43	$164.65	$571.94	$401.55
2034	$137.20	$174.53	$606.26	$425.64
2035	$144.06	$183.26	$636.57	$446.92

Note: Billed usage represents monthly billed water usage. Sewer bills reflect the 20 percent irrigation factor.

Table 6-4 shows the monthly sewer bill for sample multi-unit residential customers, with varying dwelling counts and consumption rates. Similar to the single-family customer bills, the customers with higher water use will see a higher percentage increase over time on the monthly bill than lower users. A small multi-unit residential customer (3 dwellings, 2,000 gal/month/dwelling) would expect an increase in the monthly bill of 79 percent over the forecast period, while a large multi-unit customer (277 dwellings, 14,000 gal/month/dwellings) would expect an increase of 214 percent.

Table 6-4 Monthly Bill Comparison, Multi-Unit Example for Multi-Family Customer

	Monthly Bill					
Fiscal Year	3 Dwellings; 2,000 Gal Per Dwelling	3 Dwellings; 5,000 Gal Per Dwelling	272 Dwellings; 7,000 Gal Per Dwelling	304 Dwellings; 7,000 Gal Per Dwelling	144 Dwellings; 9,000 Gal Per Dwelling	277 Dwellings; 14,000 Gal Per Dwelling
2025 (Current)	$182	$216	$21,555	$24,091	$12,478	$22,042
2026	$190	$234	$23,910	$26,723	$14,073	$26,760
2027	$198	$255	$26,513	$29,632	$15,854	$32,148
2028	$205	$277	$29,391	$32,849	$17,841	$38,289
2029	$213	$301	$32,573	$36,405	$20,057	$45,275
2030	$232	$328	$35,505	$39,682	$21,863	$49,350
2031	$253	$357	$38,700	$43,253	$23,830	$53,791
2032	$273	$386	$41,796	$46,713	$25,737	$58,094
2033	$292	$413	$44,722	$49,983	$27,538	$62,161
2034	$310	$438	$47,405	$52,982	$29,190	$65,891
2035	$325	$459	$49,775	$55,631	$30,650	$69,185
Total Increase (%)	78.5	113.2	130.9	130.9	145.6	213.9

Note: Billed usage represents monthly billed water usage. Sewer bills reflect the 20 percent irrigation factor.

Table 6-5 shows the monthly sewer bills for sample Non-Residential customers, representing various customer types with a range of ESDUs and consumption levels.

Table 6-5 Monthly Bill, Non-Residential Sample Customers

	Sample Customers - ESDU Count and Billed Usage				
Fiscal Year	Restaurant 3 ESDUs; 64,757 gal	Hotel 405 ESDUs; 11,636,683 gal	Office Building 154 ESDUs; 945,056 gal	Large Industrial User, Laundry 1,038 ESDUs; 11,775,667 gal	Large Shopping Center 1,930 ESDUs; 9,748,794 gal
2025	$473	$74,510	$15,477	$124,114	$185,781
2026	$552	$88,695	$16,673	$138,642	$198,103
2027	$641	$104,830	$17,959	$154,779	$211,138
2028	$742	$123,151	$19,342	$172,698	$224,914
2029	$857	$143,921	$20,828	$192,588	$239,461
2030	$934	$156,874	$22,702	$209,921	$261,012
2031	$1,018	$170,992	$24,476	$228,814	$284,503
2032	$1,099	$184,672	$26,725	$247,119	$307,263
2033	$1,176	$197,599	$28,596	$264,418	$328,772
2034	$1,247	$209,455	$30,312	$280,283	$348,498
2035	$1,309	$219,927	$31,827	$294,297	$365,923
Total Increase (%)	177.1	195.2	105.2	137.1	96.9

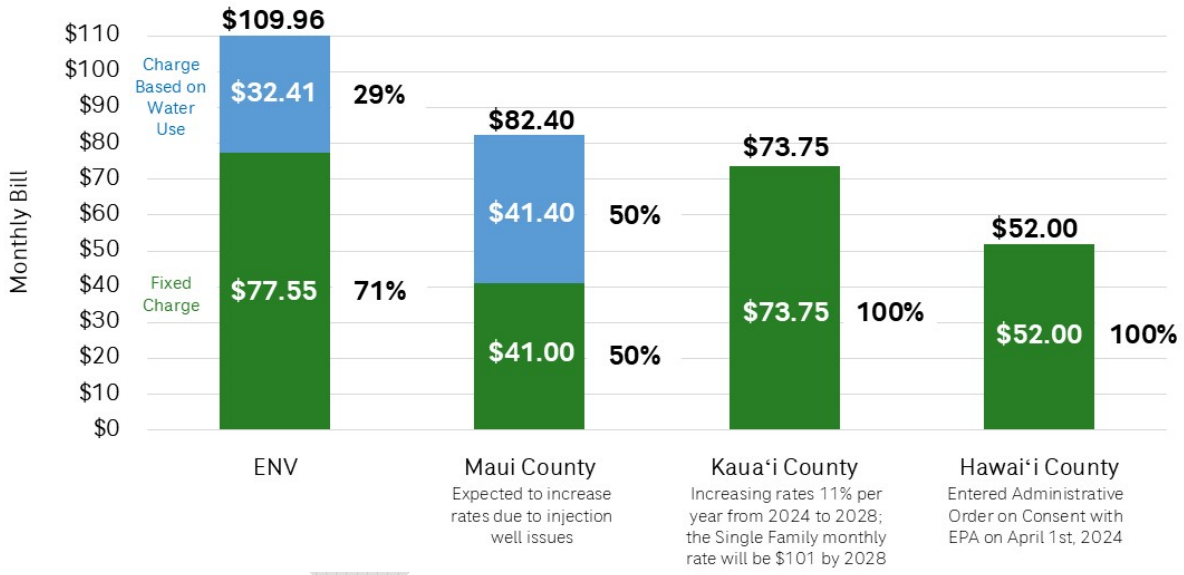
Note: Billed usage represents monthly billed water usage. Sewer bills reflect the 20 percent irrigation factor.

6.2.1 Comparison to Other Utilities

Rate structures vary widely across the different Hawai'i Counties. Maui County has a similar rate structure to ENV, comprised of a Base Charge and a Volume Charge. For single-family customers, Maui County's fixed rate is $41.00 per month and the volumetric rate is $4.60 per 1,000 gallons of water use, with billing capped at 9,000 gallons per month. Kaua'i County and Hawai'i County have entirely fixed rates. Kaua'i County's single-family customer fixed rate is $73.75 per month while Hawai'i County's single-family customer fixed rate is $52.00 per month.

Currently, the monthly bill for a single-family customer at 9,000 gallons per month is highest for ENV customers at $109.96, followed by Maui County customers at $82.40, then Kaua'i County customers at $73.75, and lastly Hawai'i County customers at $52.00 per month. However, it is important to note that Maui County is expected to increase sewer rates due to injection well issues. Similarly, Hawai'i County entered an Administrative Order on Consent with the EPA on April 1st, 2024, which could lead to rising costs of service. Additionally, Kaua'i County will be increasing rates 11 percent per year from 2024 through 2028. Due to this increase, the single-family customer bill for a Kaua'i County customer will be $101 per month by 2028. This county-to-county comparison is also presented in **Figure 6-3** below.

Figure 6-3 County Sewer Bill Comparison Using Rates as of July 1st, 2024, for a Single-Family Customer at 9,000 Gallons of Water Use per Month



According to the National Association of Clean Water Agencies (NACWA) 2023 Cost of Clean Water Index, the average increase in sewer charges from 2022 to 2023 was 3.2 percent. The NACWA 2023 Cost of Clean Water Index evaluated data from 164 utilities across the United States. According to NACWA, sewer rates vary widely based on a number of factors including utility demographics, geography, system age, and regulatory requirements.

The Massachusetts Water Resources Authority (MWRA) Advisory Board publishes an Annual Water and Sewer Rate Survey that summarizes and compares water and sewer rates and estimated bills for its

service area, as well as a selection of major US cities. The selection of major US cities includes 28 cities nation-wide, including Honolulu.

The MWRA Advisory Board survey was used as the starting point for the comparative analysis of sewer bills in this section. This comparison focuses on the major US cities in the MWRA survey, specifically the 15 cities with the highest sewer bills as reported by MWRA. Since the MWRA 2023 survey included sewer rates for 2023, the rates for each of the included communities have been updated to most recent sewer rates.

Table 6-6 presents the comparion of the sewer bills by community. The comparison also includes estimated sewer bill as a percent of MHI, which is a metric used by the EPA as part of its guidance on affordability. The sewer bills in the below table are based on monthly water use of 7,500 gallons (90,000 per year) consistent with the MWRA methodology.

Table 6-6 Comparing Annual Residential Sewer Bills for Major United States Cities for Single-Family Customers Using 7,500 Gallons of Water Per Month

City / County	State	Estimated Sewer Bill (90,000 gal/year)	MHI (2023 Dollars)	Sewer Bill as a Percent of MHI
San Francisco	CA	$2,199	$126,730	1.74%
Seattle	WA	$2,196	$120,608	1.82%
Portland	ME	$1,476	$83,399	1.77%
Washington	DC	$1,448	$108,210	1.34%
Honolulu	**HI**	**$1,264**	**$103,131**	**1.23%**
Houston	TX	$1,173	$62,637	1.87%
St Louis	MO	$1,103	$56,245	1.96%
New Orleans	LA	$1,078	$55,580	1.94%
Indianapolis	IN	$1,023	$66,629	1.53%
Austin	TX	$997	$91,501	1.09%
New York	NY	$929	$76,577	1.21%
Flint	MI	$862	$33,141	2.60%
Boston	MA	$852	$96,931	0.88%
Detroit	MI	$833	$38,080	2.19%
Providence	RI	$763	$65,206	1.17%

6.3 Customer Assistance Program - CARES

As part of the proposed rate adjustments, ENV is introducing a residential customer assistance program called CARES that it intends to fund at $10 million per year beginning in FY 2025. CARES will offer a $20 to $25 credit per month towards the Base Charge to households earning 80 percent and below of the area median income (AMI). Credits will be offered on a first-come, first-served basis until available funds in each year are committed. The program will be administered through a third party and will require an application for enrollment, as well as periodic re-verification.

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CARES was developed by ENV and CDM Smith based on programs in place at other utilities and in alignment with the feedback provided by the SW-WAG. ENV proposed various customer assistance programs to the SW-WAG for their consideration, including:

- Bill discounts: A reduction to the monthly bill for a specified amount or percentage for eligible customers.
- Crisis vouchers: Fixed dollar amount vouchers to use on outstanding or future bills.
- Bill forgiveness and goodwill adjustments: Write-offs for a portion of an outstanding bill.
- Payment plans: Installment payment options.
- Social assistance programs: Voluntary customer contributions for use towards the bills of customers in need of financial assistance.
- Tiered rate structure and lifeline rate: Inclining tier rates increase as more water is used, meaning lower impact for lowest volume users. Lifeline rate allows low-income customer to pay a subsidized fixed rate that covers basic needs.
- Water conservation device rebates: Rebates to customers who install water conservation devices.

ENV currently has affordability programs that include some of the above approaches. These current ENV affordability programs are summarized in **Table 6-7**.

Table 6-7 Current ENV Customer Affordability Programs

Approach	ENV Current
Bill Discount	None
Crisis Vouchers	None
Bill Forgiveness/Goodwill Adjustments	Bills are adjusted for underground leaks
Payment Plans	ENV offers zero interest payment plans, on a case-by-case basis
Social Assistance Programs	ENV provides referrals to community social-service support (e.g. Helping Hands, Catholic Charities)
Tiered Rate Structure and Lifeline Rate	None
Water Conservation Device Rebates	None

Examples of customer affordability programs being undertaken by other utilities and a comparison with ENV's current programs were presented to the SW-WAG. A facilitated discussion with the SW-WAG included whether ENV should do more for customer affordability and, if so, what that program should entail. Ultimately, the SW-WAG indicated its preference for ENV to expand its support for low-income households by offering bill discounts to qualifying customers. ENV is proposing the CARES program in an effort to address the concerns and priorities of the SW-WAG.

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6.4 Conclusion

ENV sewer rates have remained unchanged since FY 2017 (Effective date: July 1, 2016). However, additional revenue is now required primarily to fund the CIP program and increasing O&M costs. The anticipated CIP will cost $7.4 billion (inflated dollars, $6.9 billion when adjusted for actual anticipated spending) through the rate forecast period of FY 2025 to FY 2035 and a total of $10.1 billion for the period 2025 to 2040. The largest CIP project, the Sand Island Wastewater Treatment Plant upgrade, is required per the final phase of the 2010 consent decree and is estimated to cost $1.8 billion. The CIP includes many other projects to rehabilitee sewer lines, replace aging infrastructure, build new infrastructure needed to comply with regulatory requirements, and upgrade facilities in preparation for climate change and sea level rise. ENV also needs to fund O&M activities at its nine treatment plants, 72 wastewater pump stations, and 2,100 miles of sewers.

The proposed rate adjustments include a 9 percent average annual increase for FY 2026 through FY 2031, an 8 percent average increase in FY 2032, a 7 percent average increase in FY 2033, a 6 percent average increase in FY 2034, and a 5 percent average increase in FY 2035. The proposed rate adjustments will also shift the rate structure so that 50 percent of rate revenue is generated from the Base Charge and 50 percent of revenue is generated from the Volume Charge. This shift is proposed to be phased in over the first four years of the 10-year rate schedule.

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Appendix A
Rate Schedule

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Appendix A to be added

Appendix B
Bill Examples for Single-Family Customers with Various Water Use Under Each Alternative

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Appendix B - Bill Examples for Single-Family Customers with Various Water Use Under Each Alternative

Water Use Per Month	Rate Structure Alternative	Current Bill ($)	Future Bill at Proposed Rates										Total Increase
			FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034	FY 2035	
2,000 gallons	Alternative A – 70% Fix, 30% Vol.	84.96	92.60	100.94	110.02	119.93	130.72	142.48	153.88	164.65	174.53	183.26	115.7%
		$ Change	7.65	8.33	9.08	9.90	10.79	11.76	11.40	10.77	9.88	8.73	
		% Change	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%	8.0%	7.0%	6.0%	5.0%	
	Alternative B – 60% Fix, 40% Vol. *2 Year Phase In*	84.96	86.96	88.64	96.62	105.31	114.79	125.12	135.13	144.59	153.27	160.93	89.4%
		$ Change	2.01	1.68	7.98	8.70	9.48	10.33	10.01	9.46	8.68	7.66	
		% Change	2.4%	1.9%	9.0%	9.0%	9.0%	9.0%	8.0%	7.0%	6.0%	5.0%	
	Alternative C – 50% Fix, 50% Vol. *4 Year Phase In*	84.96	87.65	90.14	92.37	94.27	102.76	112.01	120.97	129.43	137.20	144.06	69.6%
		$ Change	2.69	2.49	2.23	1.90	8.48	9.25	8.96	8.47	7.77	6.86	
		% Change	3.2%	2.8%	2.5%	2.1%	9.0%	9.0%	8.0%	7.0%	6.0%	5.0%	
6,000 gallons	Alternative A – 70% Fix, 30% Vol.	99.77	108.75	118.54	129.21	140.84	153.51	167.33	180.72	193.37	204.97	215.22	115.7%
		$ Change	8.98	9.79	10.67	11.63	12.68	13.82	13.39	12.65	11.60	10.25	
		% Change	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%	8.0%	7.0%	6.0%	5.0%	
	Alternative B – 60% Fix, 40% Vol. *2 Year Phase In*	99.77	107.10	114.95	125.29	136.57	148.86	162.26	175.24	187.50	198.75	208.69	109.2%
		$ Change	7.33	7.84	10.35	11.28	12.29	13.40	12.98	12.27	11.25	9.94	
		% Change	7.3%	7.3%	9.0%	9.0%	9.0%	9.0%	8.0%	7.0%	6.0%	5.0%	
	Alternative C – 50% Fix, 50% Vol. *4 Year Phase In*	99.77	107.31	115.39	124.05	133.34	145.34	158.42	171.09	183.07	194.06	203.76	104.2%
		$ Change	7.53	8.08	8.66	9.29	12.00	13.08	12.67	11.98	10.98	9.70	
		% Change	7.5%	7.5%	7.5%	7.5%	9.0%	9.0%	8.0%	7.0%	6.0%	5.0%	
9,000 gallons	Alternative A – 70% Fix, 30% Vol.	110.89	120.87	131.74	143.60	156.52	170.61	185.97	200.84	214.90	227.80	239.19	115.7%
		$ Change	9.98	10.88	11.86	12.92	14.09	15.36	14.88	14.06	12.89	11.39	
		% Change	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%	8.0%	7.0%	6.0%	5.0%	
	Alternative B – 60% Fix, 40% Vol. 2 Year Phase In	110.89	122.21	134.68	146.80	160.01	174.41	190.10	205.31	219.69	232.87	244.51	120.5%
		$ Change	11.32	12.46	12.12	13.21	14.40	15.70	15.21	14.37	13.18	11.64	
		% Change	10.2%	10.2%	9.0%	9.0%	9.0%	9.0%	8.0%	7.0%	6.0%	5.0%	
		110.89	122.05	134.32	147.81	162.64	177.28	193.23	208.69	223.30	236.70	248.53	124.1%

Water Use Per Month	Rate Structure Alternative	Current Bill ($)	Future Bill at Proposed Rates										Total Increase
			FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034	FY 2035	
	Alternative C – 50% Fix, 50% Vol. 4 Year Phase In	**$ Change**	11.16	12.27	13.49	14.83	14.64	15.95	15.46	14.61	13.40	11.83	
		% Change	10.1%	10.1%	10.0%	10.0%	9.0%	9.0%	8.0%	7.0%	6.0%	5.0%	
15,000 gallons	**Alternative A – 70% Fix, 30% Vol.**	133.11	145.09	158.15	172.38	187.90	204.81	223.24	241.10	257.97	273.45	287.13	115.7%
		$ Change	11.98	13.06	14.23	15.51	16.91	18.43	17.86	16.88	15.48	13.67	
		% Change	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%	8.0%	7.0%	6.0%	5.0%	
	Alternative B – 60% Fix, 40% Vol. *2 Year Phase In*	133.11	152.42	174.13	189.80	206.89	225.51	245.80	265.47	284.05	301.09	316.15	137.5%
		$ Change	19.31	21.71	15.67	17.08	18.62	20.30	19.66	18.58	17.04	15.05	
		% Change	14.5%	14.2%	9.0%	9.0%	9.0%	9.0%	8.0%	7.0%	6.0%	5.0%	
	Alternative C – 50% Fix, 50% Vol. *4 Year Phase In*	133.11	151.53	172.18	195.32	221.24	241.15	262.85	283.88	303.75	321.98	338.08	154.0%
		$ Change	18.42	20.65	23.14	25.92	19.91	21.70	21.03	19.87	18.23	16.10	
		% Change	13.8%	13.6%	13.4%	13.3%	9.0%	9.0%	8.0%	7.0%	6.0%	5.0%	
35,000 gallons	**Alternative A – 70% Fix, 30% Vol.**	207.19	225.84	246.16	268.32	292.47	318.79	347.48	375.28	401.55	425.64	446.92	115.7%
		$ Change	18.65	20.33	22.15	24.15	26.32	28.69	27.80	26.27	24.09	21.28	
		% Change	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%	8.0%	7.0%	6.0%	5.0%	
	Alternative B – 60% Fix, 40% Vol. *2 Year Phase In*	207.19	253.13	305.66	333.17	363.15	395.84	431.46	465.98	498.60	528.51	554.94	167.8%
		$ Change	45.94	52.53	27.51	29.99	32.68	35.63	34.52	32.62	29.92	26.43	
		% Change	22.2%	20.8%	9.0%	9.0%	9.0%	9.0%	8.0%	7.0%	6.0%	5.0%	
	Alternative C – 50% Fix, 50% Vol. *4 Year Phase In*	207.19	249.80	298.39	353.71	416.57	454.06	494.93	534.52	571.94	606.26	636.57	207.2%
		$ Change	42.61	48.60	55.32	62.86	37.49	40.87	39.59	37.42	34.32	30.31	
		% Change	20.6%	19.5%	18.5%	17.8%	9.0%	9.0%	8.0%	7.0%	6.0%	5.0%	

Appendix C
Storm Water - Wastewater Advisory Group (SW-WAG) Roster

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CITY AND COUNTY OF HONOLULU
Storm Water - Wastewater Advisory Group (SW-WAG) Roster

For information about the *Storm Water - Wastewater Advisory Group (SW-WAG)* process, please contact Randall Wakumoto, Storm Water Quality Division, City and County of Honolulu Department of Facility Maintenance at rwakumoto@honolulu.gov.

SW-WAG meeting agendas, summaries, and presentation materials are posted on www.StormWaterUtilityOahu.org, under "Stakeholder Advisory Group," and can also be found on ENV's website, at https://www.honolulu.gov/cms-env-menu/site-env-site-articles-2/57628-wwm_sewer_advisory_group.html. All meetings are open to the public.

Member Organization	Representative
American Association of Retired Persons	Kealiilalanikulani (Kealii) Lopez
American Council of Engineering Companies - Hawai'i	June Nakamura
Appleseed Policy Center	Arjuna Heim
Building Owners & Managers Association (BOMA)	Melissa Pavlicek
Castle & Cooke – Developer Representative	Kapiolani Street
Chamber of Commerce Hawai'i – Hawai'i Green Infrastructure Authority	Gwen Yamamoto Lau
City Council District 1 (Neighborhood Board 24, Waianae)	Phillip Ganban
City Council District 2 (Neighborhood Board 27, North Shore)	Kathleen Pahinui
City Council District 2 (Neighborhood Board 29, Kahalu'u)	Daniel Bender

Member Organization	Representative
City Council District 3 (Neighborhood Board 31, Kailua)	Levani Lipton
City Council District 6 (Neighborhood Board 16, Kalihi Valley)	Simeon Rojas
City Council District 7 (Neighborhood Board 15, Kalihi-Palama)	Susan Domingo
City Council District 7 (Neighborhood Board 18, Aliamanu / Salt Lake)	Chandra Kanemaru
Fresh Water Initiative	Mark Fox
Hawai‘i Community Foundation	Dana Okano
Hawai‘i Green Growth	Shelley Gustafson
Hawai‘i Reserves, Inc.	Jeff Tyau
Hawai‘i Sea Grant College Program	Melanie Lander
Hawaiiana Management	Jon McKenna
Honolulu Board of Water Supply	Barry Usagawa
Kamehameha Schools	Calvin P. Mann
Kua‘Āina Ulu ‘Auamo (KUA)	Malia Heimuli (Mr. Kevin K.J. Chang)
Kyo-Ya Hotels and Resorts (Sheraton, Hilton, or Marriott)	Harzali Hashim
O‘ahu Resource Conservation and Development Council	Sophie Moser
Roman Catholic Church Diocese of Honolulu	Frank Doyle

Member Organization	Representative
State of Hawai'i, Department of Hawaiian Home Lands (DHHL)	Cherie-Noelle Kaanana
Sustainable Coastlines	Rafael Bergstrom
The Nature Conservancy of Hawai'i	Kim Falinski
Ulupono initiative	Jeremy Kimura
University of Hawai'i – Facilities & Campus Planning	Sheri Ching
WAI	Stuart Coleman
Wai'anae Mountains Watershed Partnership	Yumi Miyata
Waikiki Improvement Association	Rick Egged
Waipahu High School	Dalen Calistro (Student)
Waipahu High School	Sherry Tenn (Advisor)

Appendix D
Glossary

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Appendix D to be added

ENV Plans Adjustments to its Sewer Fees Beginning July 1st, 2025

- ✓ Sewer fees will increase annually over a 10-year period
- ✓ Fee structure will change to 50:50, fixed:volumetric, for greater customer control of bill
- ✓ $10 million per year dedicated to a new low-income customer assistance program



What does ENV do?

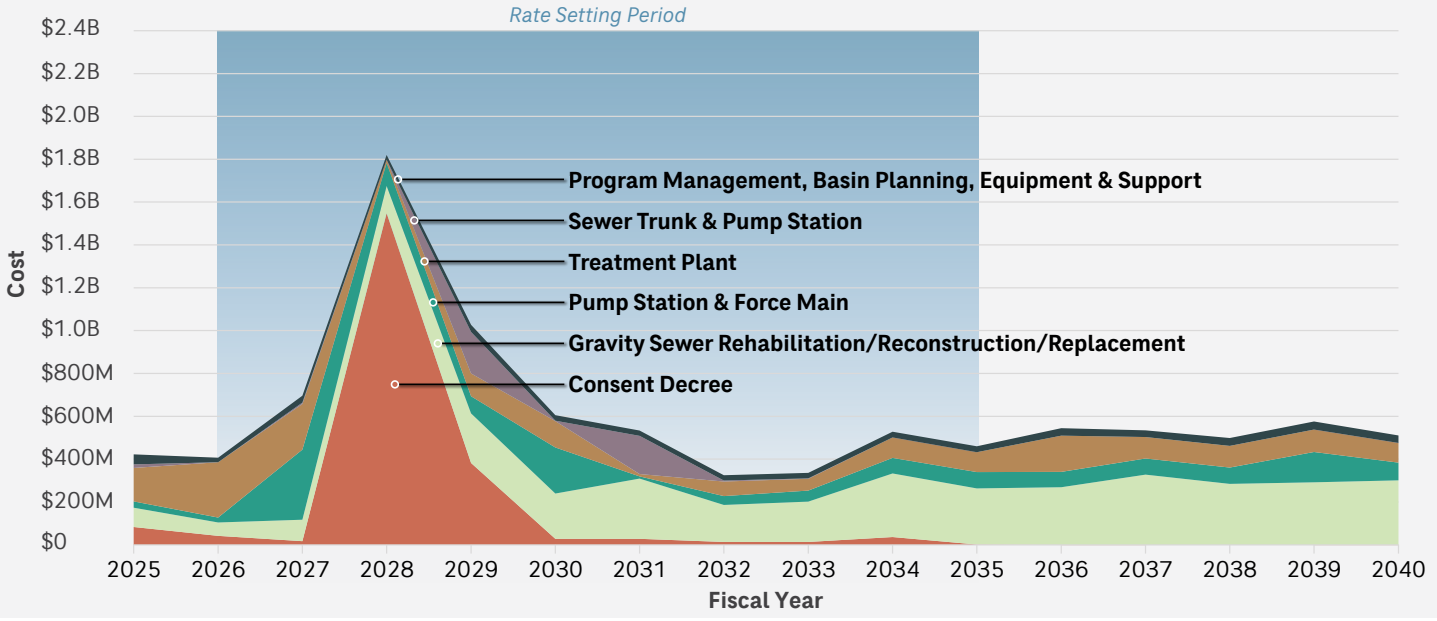
ENV takes care of Oahu's wastes to protect and enhance the environment, secure public health and enable prosperity for all people.

ENV collects, treats, disposes and recovers the resources in 100 million gallons of wastewater generated by residents and visitors on O'ahu every day. We operate and maintain 2,100 miles of sewer pipes, 72 wastewater pump stations, and 9 wastewater treatment plants located all over the island. We do this 24 hours per day, 365 days per year, in accordance with numerous State and Federal regulations. The wastewater program is required to be self-sufficient using only sewer fees to pay for all infrastructure operations and capital improvements. As such, ENV has to periodically adjust fees to meet all program expenses.

Why are sewer fees going up?

ENV's efficient spending has allowed us to keep sewer fees unchanged since 2016. However, additional revenue is now required for wastewater operations and maintenance (O&M) and the Capital Improvement Program (CIP). ENV's CIP will cost $10.1 billion between 2025 and 2040. The largest CIP project is the final phase of the 2010 consent decree, the Sand Island Wastewater Treatment Plant upgrade, to be completed by 2035 at a cost of $1.8 billion. The CIP includes many other projects to repair and upgrade facilities to meet regulatory requirements and to continue preparing our critical infrastructure for climate change/sea level rise. Sewer fees must increase to fund these critical programs.

2025–2040 CIP Appropriations by Project Type (Total: $10.1 billion)



How will additional money be used?

- ✓ Continue providing safe and reliable sewer services
- ✓ Finish the 2010 consent decree Capital Improvement Projects
- ✓ Pay for rising Operation and Maintenance costs
- ✓ Proactively replace aging infrastructure before it fails
- ✓ Provide additional infrastructure needed to comply with regulatory requirements
- ✓ Prepare infrastructure for the impacts of climate change including sea level rise
- ✓ Upgrade and modernize technology for improved performance and efficiency
- ✓ Expand resource recovery and recycling
- ✓ Implement energy production from wastewater

How much will my bill go up?

Total sewer fee revenues need to increase 9% per year for six years beginning July 1st, 2025, and will then increase by 8%, 7%, 6%, and 5% each year from July 1st, 2031. This is a total increase of 115% over the next 10-years.

The sewer bill consists of a fixed fee and a volumetric fee (based on water use). Each customer's bill varies depending on their water use and will continue to include a 20% irrigation credit. The average single-family home on O'ahu uses 9,000 gallons of water per month. Approximately 70% of all single-family bills are for 9,000 gallons of water or less per month.

Average Single-Family Residential Sewer Bill over the 10-year duration of fee increases

Year	Fixed	Volumetric	Total Bill
Current	$ 77.55	$ 33.34	**$ 110.89**
July 1, 2025	$ 77.83	$ 44.22	**$ 122.05**
July 1, 2026	$ 77.52	$ 56.79	**$ 134.32**
July 1, 2027	$ 76.53	$ 71.27	**$ 147.81**
July 1, 2028	$ 74.74	$ 87.90	**$ 162.64**
July 1, 2029	$ 81.47	$ 95.81	**$ 177.28**
July 1, 2030	$ 88.80	$ 104.43	**$ 193.23**
July 1, 2031	$ 95.90	$ 112.79	**$ 208.69**
July 1, 2032	$ 102.62	$ 120.68	**$ 223.30**
July 1, 2033	$ 108.77	$ 127.92	**$ 236.70**
July 1, 2034	$ 114.21	$ 134.32	**$ 248.53**

(Fixed Fee + Volumetric Fee = Sewer Fee)

What is changing in the fee structure?

Currently, 70% of ENV revenues are from the fixed fee and 30% are from the volumetric fee. Beginning on July 1st, 2025, fixed fee revenues will decrease to 50% and be balanced with 50% volumetric revenue. This change will occur in equal increments over four years and means that a greater portion of the bill will be based on water use. This reduction in fixed fee provides customers greater control because by conserving water you will be able to significantly reduce your bill.

What assistance is there if I need help paying my sewer bill?

ENV is committing $10 million per year towards its new program to help with affordability and equity called the Customer Assistance for Residential Environmental Services (CARES). Sewer customers who qualify based on household income of less than 80% area median income (AMI) will be eligible for a $20 to $25 credit on their monthly fixed fee. Customers will have to apply for the program to prove eligibility and then be re-verified every six months.

For more information

Roger Babcock, Jr. PhD, PE
Director (Po'o)

Michael O'Keefe
Deputy Director (Hope Po'o)

1000 Ulu'ōhi'a Street, Suite 308
Kapolei, HI 96707

(808) 768-3486

www8.honolulu.gov/env/sewer-fee-rates

SCAN ME!



Proposed Sewer Rate Adjustments

Roger Babcock Jr, Director, Department of Environmental Services

ENV Overview



ENV Overview



Current Challenges

New regulations

(e.g., PFAS, microplastics, other emerging contaminants)

Consent decree implementation

Climate change & sea level rise

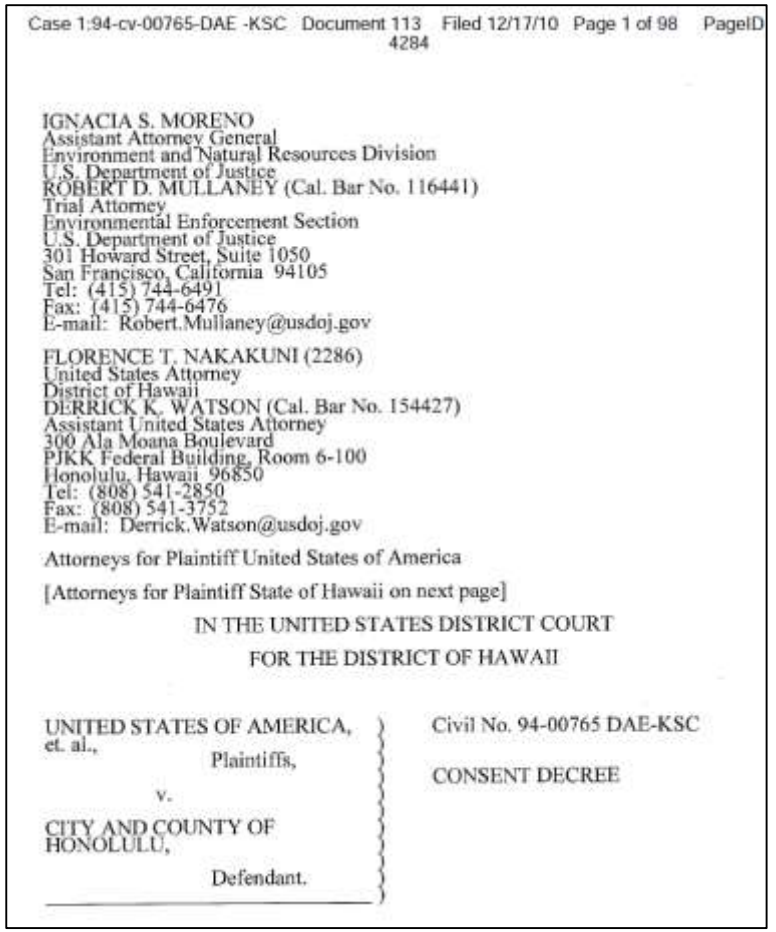
Aging infrastructure

Workforce shortage

Cesspool conversions

Consent Decree

- Formal agreement with specific requirements that ENV must comply with
- Entered on December 17, 2010
- Entered consent decree with EPA, Department of Health (DOH), The Sierra Club, Hawai'i's Thousand Friends, and Our Children's Earth Foundation



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IN THE UNITED STATES DISTRICT COURT

FOR THE DISTRICT OF HAWAII

UNITED STATES OF AMERICA, et. al.,
Plaintiffs,
v.
CITY AND COUNTY OF HONOLULU,
Defendant.

Civil No. 94-00765 DAE-KSC

CONSENT DECREE

Phase	Consent Decree	Status
1	Collection System projects, to be completed by 2020	Completed on-time & on-budget
2	Upgrade the Honouliuli WWTP to secondary treatment by 2024	Completed on-time & on-budget
3	Upgrade the Sand Island WWTP to secondary treatment by 2035	In-Progress

Consent Decree Phase III – Sand Island WWTP

Includes:

- Secondary treatment upgrades:
  - Phase I: 20 million gallons per day (mgd)
  - Phase II: additional 70 mgd
- Organic waste sustainability plan to reduce greenhouse gas emissions

Phase I upgrades 50% complete
Completion deadline: December 31st, 2035
Approximate Cost: $2.5 billion



Sand Island WWTP

ENV Current Rates - Residential

	Single-Family and Duplex Dwellings	Rate Per Dwelling Unit Per Month
Served by City Water System	Base Charge (Fixed)	$77.55
	Volume Charge per 1,000 gallons of metered water consumed, the water consumed reduced by the water irrigation factor of 20%*	$4.63
NOT Served by City Water System	Charge (Fixed)	$110.89

	Multiple-Unit Dwellings	Rate Per Dwelling Unit Per Month
Served by City Water System	Base Charge (Fixed)	$53.32
	Volume charge per 1,000 gallons of metered water consumed, the water consumed reduced by the water irrigation factor of 20%*	$4.63
NOT Served by City Water System	Charge (Fixed)	$86.65

** Provided that residential users who install and maintain a water meter for submetering non sewer water shall not have the water consumed reduced by the water irrigation factor.*

ENV Current Rates – Non-Residential

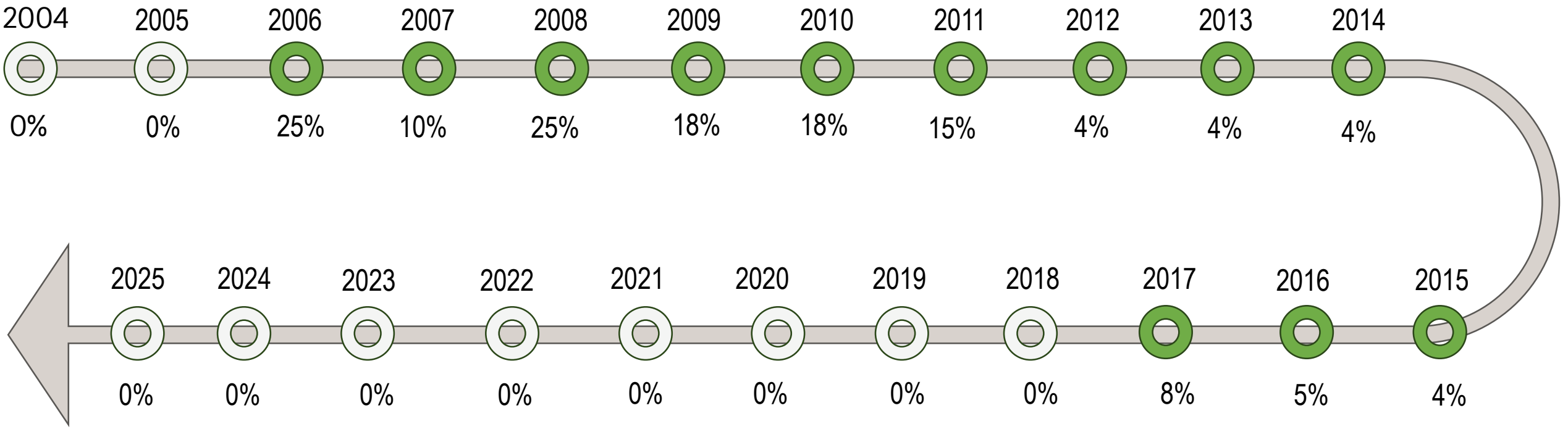
	Domestic Strength Wastewater	Monthly Rate
Metered Water Usage	Base charge per ESDU[1]	$77.55
	Volume charge per 1,000 gallons of metered water consumed, the water consumed reduced by the water irrigation factor of 20%	$4.63
Metered Wastewater Discharge	Base charge per ESDU (Fixed Charge)	$77.55
	Volume charge per 1,000 gallons	$4.63

	Extra Strength Wastewater	Monthly Rate
Metered Water Usage	Charge per 1,000 gallons of metered water consumed, the water consumed reduced by the water irrigation factor of 20%, use the following formula: 0.857 + 0.143(SSm/200) multiplied by applicable rate[2]	$4.63
Metered Wastewater Discharge	Charge per 1,000 gallons of wastewater discharge, use the following formula: 0.857 + 0.143(SSm/200) multiplied by applicable rate*	$4.63

1 *where (SSm) is the measured suspended solids loading when greater than 200 milligrams per liter.*

2 *Equivalent Single-Family Dwelling Unit*

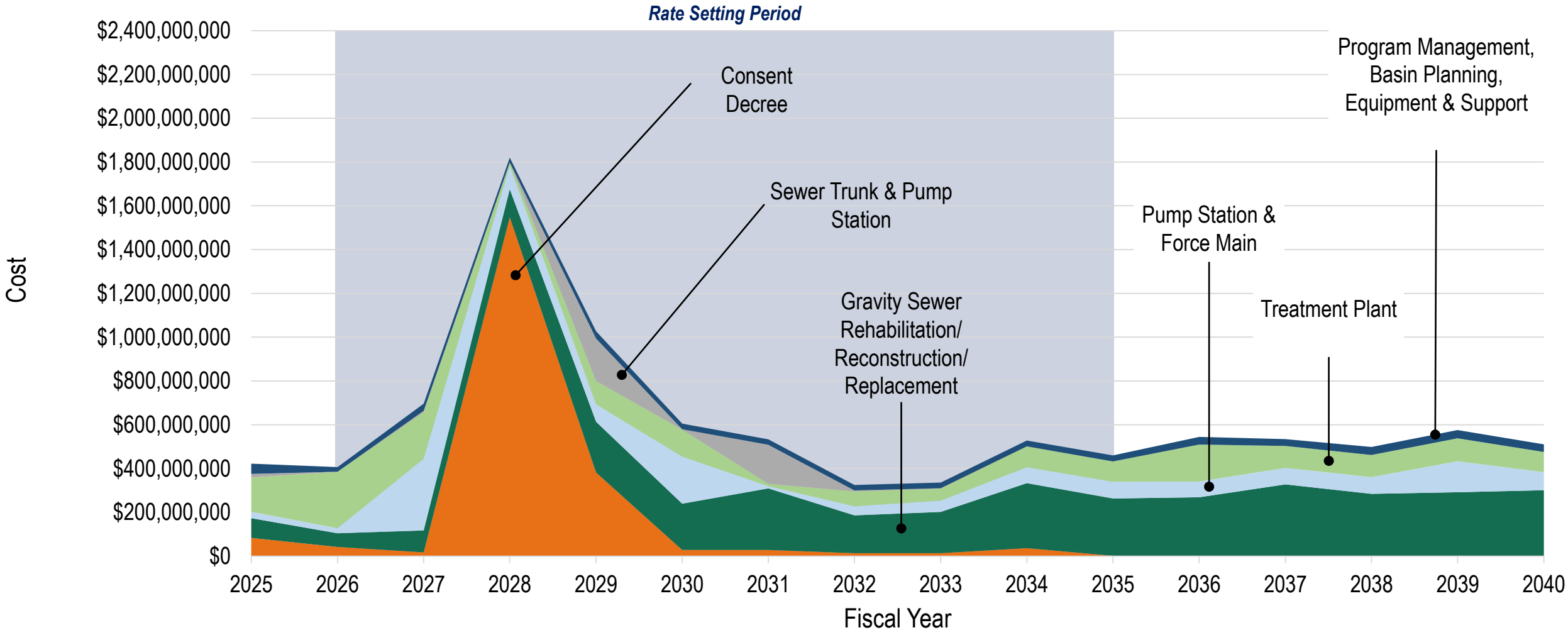
History of ENV Rate Increases by Fiscal Year



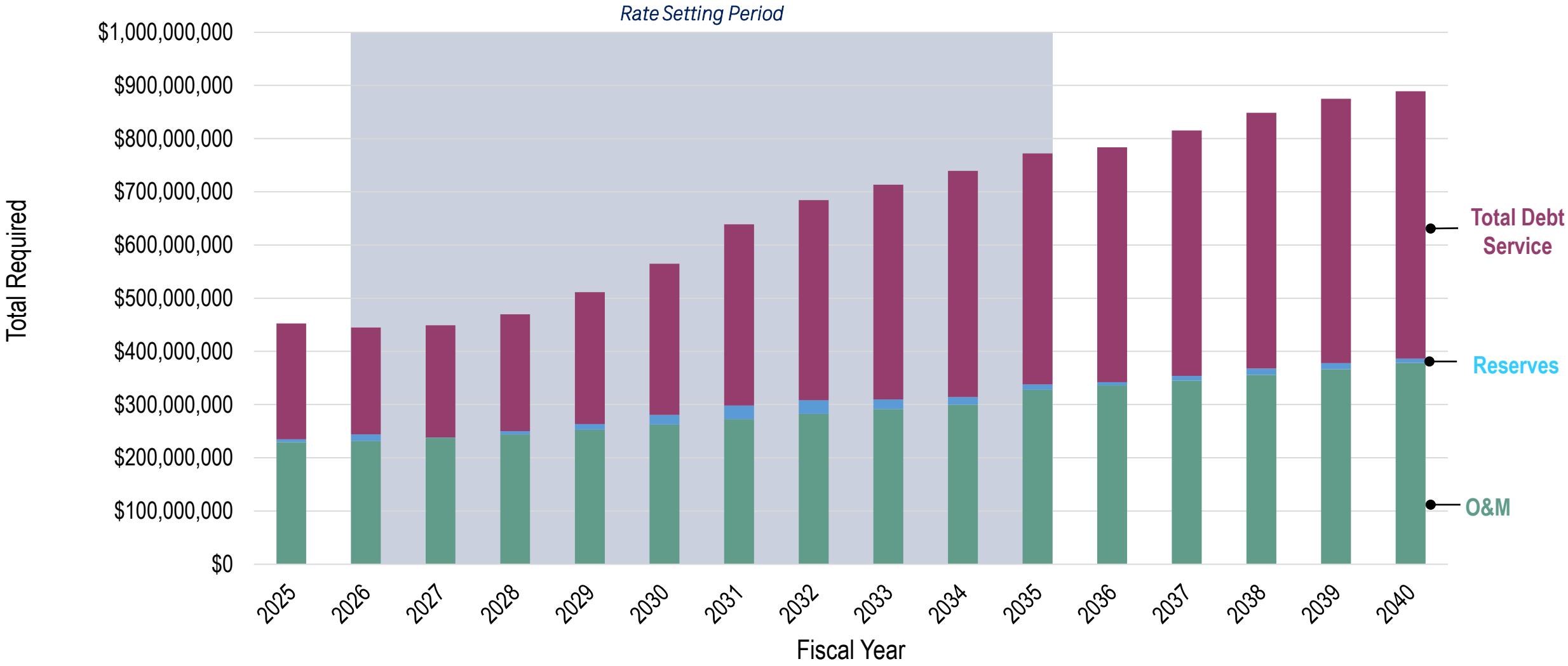
Average Annual Percent **Increase** from 2004 – 2025: 6%

2025-2040 CIP Appropriations by Project Type

Cost: $10.1 billion



2025-2040 Revenue Requirement from Rates (net of miscellaneous revenues)



Proposed Rates Adjustments and Affordability Program



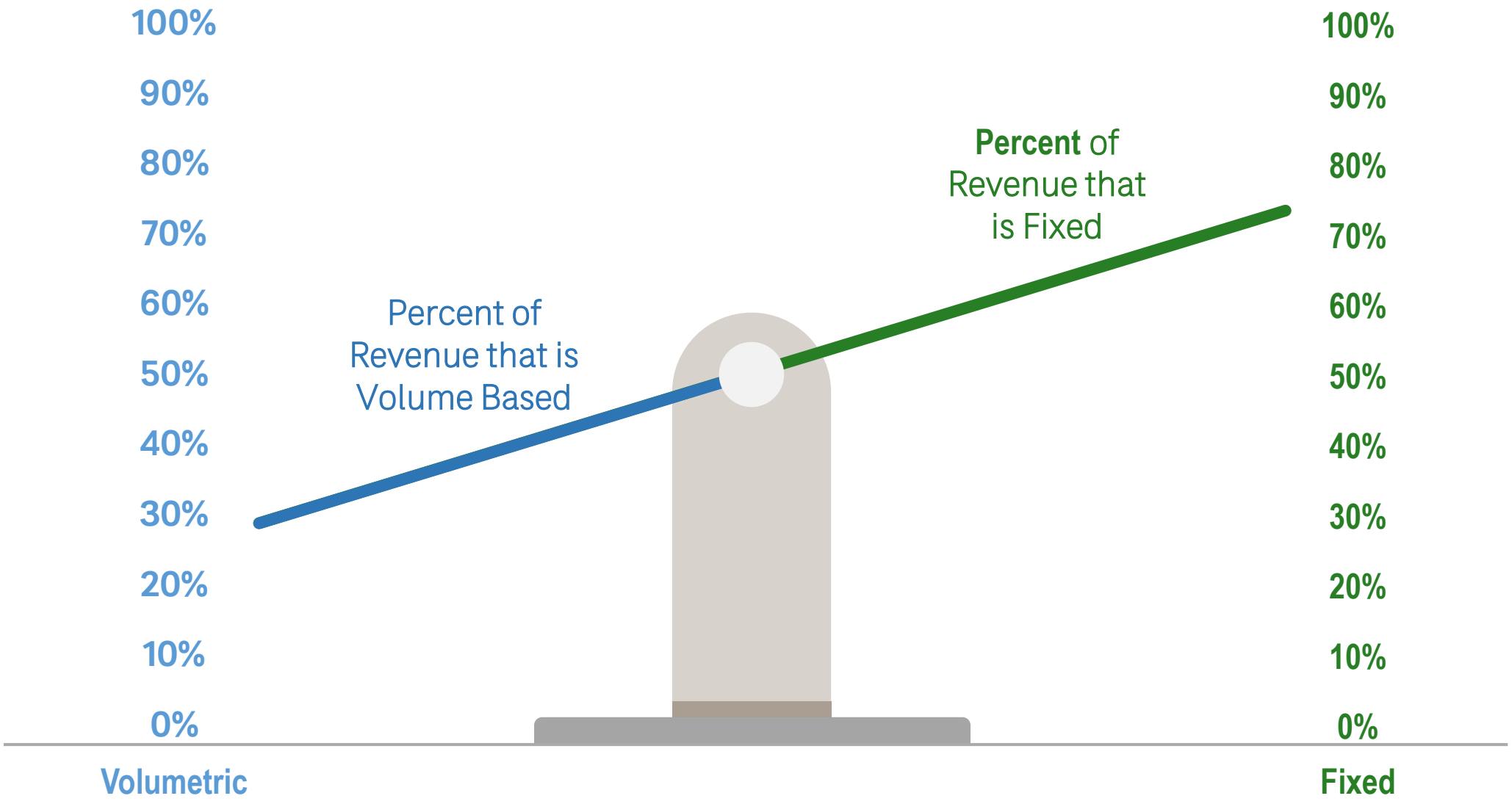
Proposed Rate Adjustments

- 10-year rate package

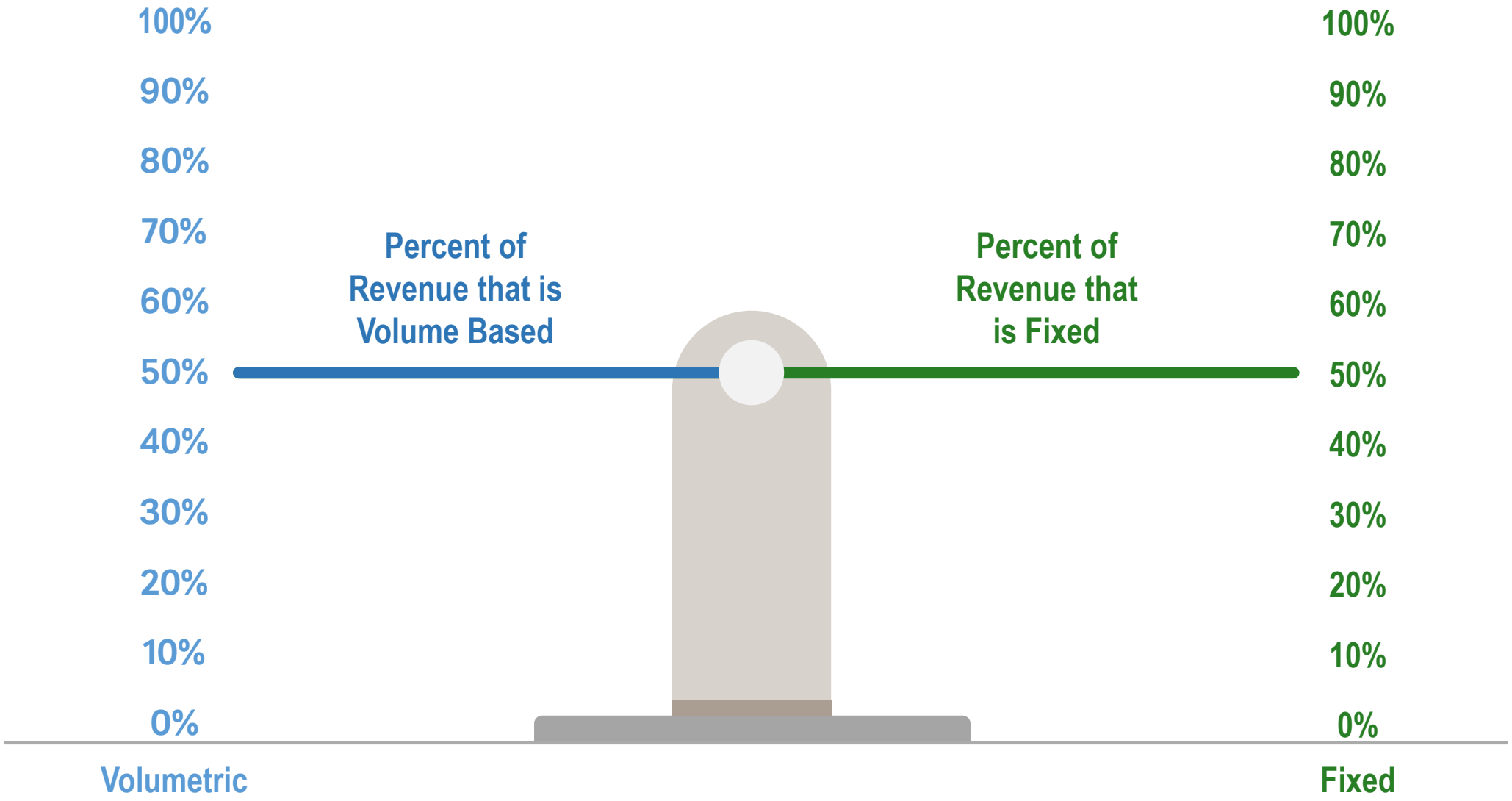
	July 1, 2025	July 1, 2026	July 1, 2027	July 1, 2028	July 1, 2029	July 1, 2030	July 1, 2031	July 1, 2032	July 1, 2033	July 1, 2034
Annual Revenue Increase	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%	8.0%	7.0%	6.0%	5.0%

- Moving to a 50% fixed, 50% uniform volumetric rate structure
  - Phased in over four years
- Customer assistance program funded at $10 million per year

Adjusting Rate Structure to Improve Equity and Encourage Conservation



Adjusting Rate Structure to Improve Equity and Encourage Conservation



Customer Assistance for Residential Environmental Services (CARES)

- Funded at $10 million dollars per year
- Income-based qualification potentially administered through 3rd party non-profit
  - Eligibility = household income less than 80% of area median income (AMI)
- Eligible customers may qualify for a $20 to $25 credit on their monthly fixed charge
- Application required to enroll in program
  - Customers must be re-verified every six months
- First come – first served up to maximum of available funds per year

Monthly Rates in $

50% Fixed, 50% Uniform Volumetric – Phased in Over 4 Years

Rate Structure	Monthly Rate	Current (2024)	July 1, 2025	July 1, 2026	July 1, 2027	July 1, 2028	July 1, 2029	July 1, 2030	July 1, 2031	July 1, 2032	July 1, 2033	July 1, 2034
Single-Family	Fixed	77.55	77.83	77.52	76.53	74.74	81.47	88.80	95.90	102.62	108.77	114.21
	Uniform Volumetric (per 1,000 gal)	4.63	6.14	7.89	9.90	12.21	13.31	14.50	15.67	16.76	17.77	18.66
Multi-Family	Fixed (per dwelling unit)	53.32	53.51	53.30	52.62	51.39	56.01	61.05	65.94	70.55	74.79	78.53
	Uniform Volumetric (per 1,000 gal)	4.63	6.14	7.89	9.90	12.21	13.31	14.50	15.67	16.76	17.77	18.66
Non-Residential	Fixed (per ESDU*)	77.55	77.83	77.52	76.53	74.74	81.47	88.80	95.90	102.62	108.77	114.21
	Uniform Volumetric (per 1,000 gal)	4.63	6.14	7.89	9.90	12.21	13.31	14.50	15.67	16.76	17.77	18.66

*ESDU: Equivalent Single-Family Dwelling Unit

Comparing Sewer Bills –
Single-Family Residential

July 1st of	Fixed Rate	Volumetric Rate	2,000	4,000	6,000	18,000	20,000	25,000	30,000
2024	77.55	4.63	84.96	92.37	99.77	144.22	151.63	170.15	188.67
2025	77.83	6.14	87.65	97.48	107.30	166.25	176.07	200.63	225.19
2026	77.52	7.89	90.14	102.77	115.39	191.14	203.76	235.32	266.88
2027	76.53	9.90	92.37	108.21	124.05	219.09	234.93	274.53	314.13
2028	74.74	12.21	94.28	113.81	133.35	250.56	270.10	318.94	367.78
2029	81.47	13.31	102.77	124.06	145.36	273.13	294.43	347.67	400.91
2030	88.80	14.50	112.00	135.20	158.40	297.60	320.80	378.80	436.80
2031	95.90	15.67	120.97	146.04	171.12	321.55	346.62	409.30	471.98
2032	102.62	16.76	129.44	156.25	183.07	343.96	370.78	437.82	504.86
2033	108.77	17.77	137.20	165.63	194.07	364.66	393.09	464.17	535.25
2034	114.21	18.66	144.07	173.92	203.78	382.91	412.77	487.41	562.05
Compounded Increase (% over 10 years)			70	88	104	166	172	186	198

July 1st of	2,000
2024	84.96
2025	87.65
2026	90.14
2027	92.37
2028	94.28
2029	102.77
2030	112.00
2031	120.97
2032	129.44
2033	137.20
2034	144.07
Compounded Increase (% over 10 years)	70

Comparing Sewer Bills – Single-Family Residential

July 1st of	Fixed Rate	Volumetric Rate	Water Use (gallons per							
			2,000	4,000	6,000	8,000	9,000	12,000	14,000	
2024	77.55	4.63	84.96	92.37	99.77	107.18	110.89	122.00	129.41	
2025	77.83	6.14	87.65	97.48	107.30	117.13	122.04	136.77	146.60	
2026	77.52	7.89	90.14	102.77	115.39	128.02	134.33	153.26	165.89	
2027	76.53	9.90	92.37	108.21	124.05	139.89	147.81	171.57	187.41	
2028	74.74	12.21	94.28	113.81	133.35	152.88	162.65	191.96	211.49	
2029	81.47	13.31	102.77	124.06	145.36	166.65	177.30	209.25	230.54	
2030	88.80	14.50	112.00	135.20	158.40	181.60	193.20	228.00	251.20	
2031	95.90	15.67	120.97	146.04	171.12	196.19	208.72	246.33	271.40	
2032	102.62	16.76	129.44	156.25	183.07	209.88	223.29	263.52	290.33	
2033	108.77	17.77	137.20	165.63	194.07	222.50	236.71	279.36	307.79	
2034	114.21	18.66	144.07	173.92	203.78	233.63	248.56	293.35	323.20	
Compounded Increase (% over 10 years)			70	88	104	118	124	140	150	

July 1st of	9,000
2024	110.89
2025	122.04
2026	134.33
2027	147.81
2028	162.65
2029	177.30
2030	193.20
2031	208.72
2032	223.29
2033	236.71
2034	248.56
Compounded Increase (% over 10 years)	124

Comparing Sewer Bills –
Single-Family Residential

July 1st of	Fixed Rate	Volumetric Rate	Wate								
			2,000	4,000	6,000	8,000	9,000			25,000	30,000
2024	77.55	4.63	84.96	92.37	99.77	107.18	110.89		3	170.15	188.67
2025	77.83	6.14	87.65	97.48	107.30	117.13	122.04		7	200.63	225.19
2026	77.52	7.89	90.14	102.77	115.39	128.02	134.33		6	235.32	266.88
2027	76.53	9.90	92.37	108.21	124.05	139.89	147.81		3	274.53	314.13
2028	74.74	12.21	94.28	113.81	133.35	152.88	162.65		0	318.94	367.78
2029	81.47	13.31	102.77	124.06	145.36	166.65	177.30		3	347.67	400.91
2030	88.80	14.50	112.00	135.20	158.40	181.60	193.20		0	378.80	436.80
2031	95.90	15.67	120.97	146.04	171.12	196.19	208.72		2	409.30	471.98
2032	102.62	16.76	129.44	156.25	183.07	209.88	223.29		8	437.82	504.86
2033	108.77	17.77	137.20	165.63	194.07	222.50	236.71		9	464.17	535.25
2034	114.21	18.66	144.07	173.92	203.78	233.63	248.56		7	487.41	562.05
Compounded Increase (% over 10 years)			70	88	104	118	124			186	198

July 1st of	30,000
2024	188.67
2025	225.19
2026	266.88
2027	314.13
2028	367.78
2029	400.91
2030	436.80
2031	471.98
2032	504.86
2033	535.25
2034	562.05
Compounded Increase (% over 10 years)	198

Comparing Sewer Bills – Non-Residential

Customer	Current Bill	Future Bill at Proposed Rates										Compounded Increase
		July 1, 2025	July 1, 2026	July 1, 2027	July 1, 2028	July 1, 2029	July 1, 2030	July 1, 2031	July 1, 2032	July 1, 2033	July 1, 2034	
Large Shopping Center	185,781	198,102	211,137	224,914	239,460	261,011	284,502	307,262	328,771	348,497	365,922	
9,748,704 gallons per month	**$ Change**	12,322	13,035	13,776	14,546	21,551	23,491	22,760	21,508	19,726	17,425	96.9%
1,930 ESDUs	**% Change**	6.6%	6.6%	6.5%	6.5%	9.0%	9.0%	8.0%	7.0%	6.0%	5.0%	
Office Building	15,443	16,629	17,902	19,270	20,740	22,607	24,641	26,612	28,475	30,184	31,693	
945,056 gallons per month	**$ Change**	1,185	1,274	1,368	1,469	1,867	2,035	1,971	1,863	1,709	1,509	105.2%
154 ESDUs	**% Change**	7.7%	7.7%	7.6%	7.6%	9.0%	9.0%	8.0%	7.0%	6.0%	5.0%	
Hotel	74,510	88,695	104,830	123,151	143,921	156,874	170,992	184,672	197,599	209,455	219,927	
11,636,683 gallons per month	**$ Change**	14,185	16,135	18,321	20,770	12,953	14,119	13,679	12,927	11,856	10,473	195.2%
405 ESDUs	**% Change**	19.0%	18.2%	17.5%	16.9%	9.0%	9.0%	8.0%	7.0%	6.0%	5.0%	

Public Outreach



Storm Water-Wastewater Advisory Group (SWWAG) Roadmap



- ✓ Introductions
- ✓ ENV Overview and Current Rates

MEETING 1 MAY 13 2024



- ✓ Rate Structure Attributes
- ✓ ENV Revenue Requirement
- ✓ Rate Setting Flexibility

MEETING 2 JUN 24 2024



- ✓ Rate Structure

MEETING 3 JUL 22 2024



- ✓ Potential to Include Stormwater Charge
- ✓ Affordability Programs
- ✓ Rate Structure cont.

MEETING 4 AUG 19 2024



- ✓ Rate Modeling Results and Sample Bill Examples
- ✓ Draft Rate Proposal (With Affordability Assistance)
- ✓ Add'l Questions / Refinements for Evaluation

MEETING 5 SEP 23 2024



- ✓ Proposed Rate Increase & Customer Affordability Program

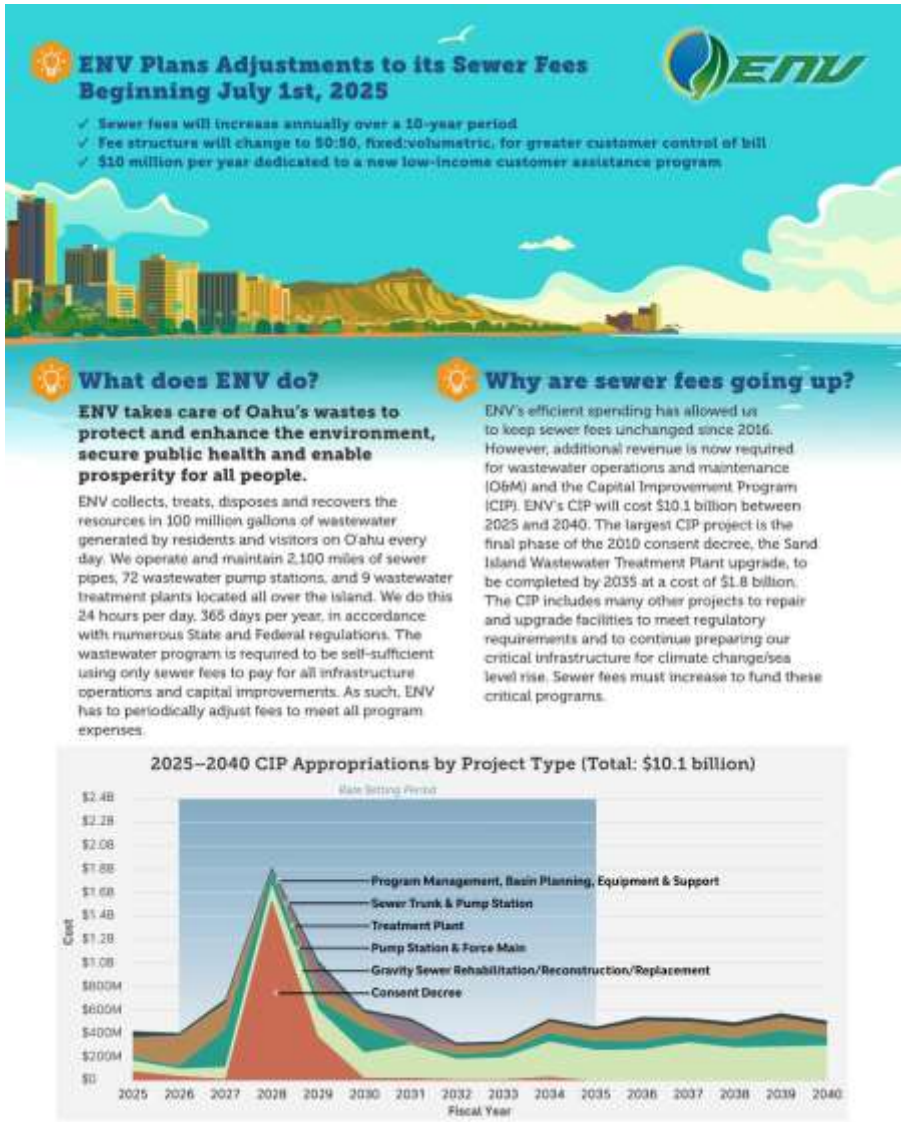
MEETING 6 OCT 21 2024

Storm Water & Wastewater Advisory Group Feedback

- ENV should not have an entirely fixed charge
- Give customers more control over bill
- Support water conservation
- Avoid rate shock
- Ensure minimum operating expenses can be met
- Provide public education materials on rate structure

Public Outreach Activities

- Briefings with each City Council member (Sep26-Oct 4)
- Announcement to all Neighborhood Board (NB) agendas (Oct 10)
- ENV presentation at all NBs (Oct thru Mar)
- Press Conference announcement (Oct 23)
- Living 808 show KHON (Oct 24)
- One O‘ahu podcast (Oct 24)
- Op-Ed in Star-Advertiser (Oct 27)
- Introduced sewer fee bill at full council on (Nov 7)
- SBRRB, submitted Impact Statement (Nov 8), Review denied (Nov 13)
- Public tour (bus) of wastewater facilities (Sat, Nov 16)
- PIT Committee, sewer fee presentation/discussion (Nov 21)
- Webpage created: www.honolulu.gov/env/sewer-fee-rates
- Social media: facebook (HNL.ENV1), Instagram (hnl.env)



Neighborhood Board Meeting Presentations (all 33 NBs)

- Wahiawā/Whitmore Village #26 (Oct 21)
- Ala Moana/Kaka‘ako #11 (Oct 22)
- Pearl City #21 (Oct 22)
- Waipahu #22 (Oct 24)
- Hawaii Kai #1 (Oct 29)
- McCully/Mō‘ili‘ili #8 (Nov 7)
- ‘Aiea #20 (Nov 12)
- Kalihi Valley #16 (Nov 13)
- Diamond Head/Kapahulu/St. Louis Heights #5 (Nov 14)
- Punchbowl/Nuuanu #12 (Nov 19)
- Makiki/Tantalus #10 (Nov 21)
- Kaneohe #30 (Nov 21)
- Kuliouou-Kalani Iki #2 (Dec 4)
- Downtown-Chinatown #13 (Dec 5)
- Aliamanu Salt Lake #18 (Jan 9)
- Waimanalo #32 (Jan 13)
- Waikiki #9 (Jan 14)
- Mililani #35 (Jan 21)
- Makakilo #34 (Jan 22)
- Mililani #25 (Jan 22)
- Liliha-Alewa #14 (Feb 10)
- Palolo #6 (Feb 12)
- Ewa #23 (Feb 13)
- Kalihi-Palama #15 (Feb 19 & Mar 19)
- Kaimuki #4 (Feb 19 & Mar 13)
- Waialae-Kahala #3 (Feb 20)
- Additional NB meetings scheduled
  - Waianae Coast #24 (Mar 4)
  - Manoa #7 (Mar 5)
  - Kailua #31 (Mar 6)
  - Kahaluu #29 (Mar 12)
  - Nanakuli-Maili #36 (Mar 18)
  - North Shore #27 (Mar 25)
  - Koolauloa #28 (Apr 10)

Sewer Fee Increase Town Hall Meetings (all 9 Council Districts)

Kapolei Hale, Monday, November 18, 2024, 5:30-7:00pm (District 1)

Neal Blaisdell Center, Tuesday, December 3rd, 2024, 10 am – 12 pm (District 6)

Kailua / Kāneʻohe, Tuesday, December 10th, 2024, 5:30-7:00pm (District 3)

Mililani, Tuesday, December 17th, 2024, 5:30-7:00pm (District 8)

ʻĀina Haina, Friday, January 3rd, 2025, 5:30-7:00pm (District 4)

Nānākuli, Monday, January 6th, 2025, 5:30-7:00pm (District 1)

Manoa, Tuesday, February 18th, 2025, 5:30-7:00pm (District 5)

Ewa Beach, Thursday, February 20th, 2025, 5:30-7:00pm (District 9)

Nuuanu/Punchbowl, Tuesday, March 11th, 2025, 5:30-7:00pm (District 6)

Salt Lake, Thursday, March 13th, 2025, 5:30-7:00pm (District 7)

Wahiawa, Thursday, March 20th, 2025, 5:30-7:00pm (District 2)

2024-2025 Proposed Sewer Fees in the Hawaii Media

Date	Media Agency	Title
Oct. 23, 2024	Hawai'i News Now	Proposed sewer fee hikes could increase your bill significantly over next decade
Oct. 23, 2024	Hawai'i News Now	Proposed sewer fee hikes could increase your bill significantly over the next decade
Oct. 23, 2024	KHON	Honolulu sewer fees could double in 10-years
Oct. 23, 2024	KITV	Honolulu state official plan to adjust city's sewer fees
Oct. 23, 2024	KITV	Sewer fee increases potentially on tap starting next year on O'ahu
Oct. 24, 2024	Star-Adveritser	City proposing 124% residential sewer fee hikes over the next 10 years on O'ahu
Oct. 24, 2024	Hawai'i News Now	Proposed sewer fee hikes could increase your bill significantly over the next decade
Oct. 27, 2024	Star-Adveritser	Column: Sewer fee hike to fund vital projects
Nov. 1, 2024	Star-Adveritser	Letter: Proposed sewer fee is a fair, equitable change
Nov. 1, 2024	KHON	Honolulu Department of Environmental Services to Implement 10-Year Sewer Fee Increase
Nov. 5, 2024	Star-Adveritser	Honolulu Council to review sewer fee hike measure
Nov. 12, 2024	Star-Adveritser	Council weighs in on city's proposed sewer fee hike
Nov. 18, 2024	Star-Adveritser	Editorial: More outreach on sewer fee increase
Dec. 8, 2024	Hawai'i News Now	https://www.hawaiinewsnow.com/2024/12/09/city-prepares-announce-new-landfill-site-heres-whats-being-considered/
Dec. 10, 2024	KITV	https://www.kitv.com/news/city-announces-controversial-proposed-oahu-landfill-site-in-wahiawa/article_c96e8ffa-b771-11ef-a40c-17b3bc8f3ec6.html
Dec. 16, 2024	Star-Adveritser (LTE)	https://www.staradvertiser.com/2024/12/16/editorial/letters/letter-alternatives-to-landfill-include-more-recycling/
Jan. 7, 2025	Hawai'i News Now	https://www.hawaiinewsnow.com/2025/01/08/everyone-is-kind-stuck-lawmakers-hear-debate-over-wahiawa-landfill-site/
Jan. 8, 2025	Civil Beat	https://www.civilbeat.org/2025/01/some-legislators-unhappy-with-proposed-site-for-new-o%CA%BBahu-landfill/
Jan. 10, 2025	Hawai'i News Now	https://www.youtube.com/watch?v=cpCA8A2H18o
Jan. 10, 2025	Star-Advertiser	https://www.staradvertiser.com/2025/01/10/hawaii-news/debate-over-landfill-site-is-aired-before-lawmakers/
Jan. 10, 2025	Civil Beat	https://www.civilbeat.org/2024/12/city-announces-new-landfill-location-above-islands-water-supply/
Jan. 14, 2025	Hawai'i Public Radio	https://www.hawaiipublicradio.org/local-news/2025-01-14/some-honolulu-councilmembers-wahiawa-landfill-site
Jan. 14, 2025	Hawai'i News Now	https://www.hawaiinewsnow.com/2025/01/15/city-executive-water-supply-chief-battle-over-landfill-site/
Jan. 15, 2025	Hawai'i News Now	https://www.hawaiinewsnow.com/2025/01/16/citys-proposed-landfill-site-draws-strong-opposition-wahiawa-town-hall-meeting/
Jan. 15, 2025	KITV	https://www.youtube.com/watch?v=wz-7v244Ys0
Jan. 15, 2025	KITV	https://www.youtube.com/watch?v=dKuZnf8FC1Y
Jan. 15, 2025	Star-Advertiser	https://www.staradvertiser.com/2025/01/15/hawaii-news/resolution-opposing-landfill-sites-above-oahus-aquifer-advances/

Mahalo



2010 CD Cost Summary 1 - Overall Contracts

Overall Compliance

	Contract No.	Consultant	Start	End	Amount Expended			
Wastewater Program Management	F64167	CH2M Hill	2/12/07	3/1/11	$ 10,177,811.59			
						Fund		
				Original Contract	$ 2,500,000.00	SR	SR Total =	$ 9,450,000.00
				Amendment 1	$ 4,500,000.00	SR	SR Expended =	$ 9,450,000.00
				Amendment 2	$ 2,450,000.00	SR		
				Amendment 3 (Time Extension Only)				
				Amendment 4	$ 2,500,000.00	SW	SW Total =	$ 2,500,000.00
					$ 11,950,000.00		SW Expended =	$ 727,811.59
Wastewater Program Management	SC-ENV-1000094	HDR	5/14/10	12/13/14	$ 23,343,110.46	= SW Expended		
						Fund		
				Original Contract	$ 9,000,000.00	SW		
				Amendment 1	$ 6,000,000.00	SW		
				Amendment 2	$ 4,001,000.00	SW		
				Amendment 3	$ 4,450,000.00	SW		
					$ 23,451,000.00			

C2010 CD Cost Summary 2 - Programs

$ 169,473,163.20

		SR Funded Total	$ 44,737,430.52
2010 Consent Decree	Planning & Design	SW Funded Total	$ 124,735,732.68

CD Para 1	Item	Fund Source	CIP Project No	Program or Contract No.	Consultant	Start	End	Amount Expended	Fund	Total Contract	SR Funded	SW Funded
18g	Wet Weather I/I Update	Sewer I/I Assessment & Rehabilitation Program	2008088	Sewer I/I Assessmemt and Rehabilitation Program Update	AECOM	5/18/09	12/31/15	$ 6,123,811.13	SR	$ 6,500,000.00	$ 6,123,811.13	$ -
19a	Gravity Main Condition Assessment	Sewer Condition Assessment Program	2007068	CSM Program		1/1/05	12/31/10	$ 14,429,720.20	SR		$ 14,429,720.20	$ -
19a	Gravity Main Condition Assessment	Sewer Condition Assessment Program	2007068	CSM Program		1/1/11	12/31/20	$ 15,381,048.62	SW		$ -	$ 15,381,048.62
20	Gravity Main Rehabilitation & Replacement Program	Sewer Mainline and Lateral Projects	2000071	CSM Program		1/1/05	12/31/11	$ 24,183,899.19	SR		$ 24,183,899.19	$ -
20	Gravity Main Rehabilitation & Replacement Program	Sewer Mainline and Lateral Projects	2000071	CSM Program		1/1/12	12/30/20	$ 109,354,684.06	SW		$ -	$ 109,354,684.06

2010 Consent Decree

CD Para 1	Item	Fund Source
22	Gravity Main Cleaning and Maintenance Program	CSM Op Funds
23	Commercial FOG Control Program	EQ Op Funds
25	Sewer Lateral Program	CSM Op Funds
26	Staffing Commitments	CSM Op Funds
27	Equipment Commitments	WTD, CSM, CIP Funds
28	Odor Issues	CSM trouble call line
29	Spill Response, Monitoring, and Reporting	EQ Op Funds

*** See "Op Budget" tab for estimation percentages breakdown by Division

2010 CD Cost Summary 3 - Sewer Pipes

			$ 289,864,647.35												$ 29,810,768.82		
Phase	FY	Expenditures	Project		Phase	FY	Expenditures	Project		Phase	FY	Expenditures	Project				
C	2005	$ 1,230,863.44	Small Sewer Mainline and Lateral Projects	SR	C	2007	$ 994,287.84	SMH and Pipe Rehab at Various Locations	SR	P	2006		Sewer Condition Assessment Program	SR			
C	2006	$ 2,032,365.42	Small Sewer Mainline and Lateral Projects	SR	C	2009	$ 293,739.60	SMH and Pipe Rehab at Various Locations	SR	P	2007	$ 6,317,941.77	Sewer Condition Assessment Program	SR			
C	2007	$ 4,939,003.53	Small Sewer Mainline and Lateral Projects	SR	C	2012	$ 1,178,700.20	SMH and Pipe Rehab at Various Locations	SW	P	2008	$ 4,046,692.47	Sewer Condition Assessment Program	SR			
C	2008	$ 2,992,063.76	Small Sewer Mainline and Lateral Projects	SR						P	2009	$ 4,065,085.96	Sewer Condition Assessment Program	SR			
C	2009	$ 2,237,429.39	Small Sewer Mainline and Lateral Projects	SR						P	2010		Sewer Condition Assessment Program	SR			
C	2010	$ 6,263,333.88	Small Sewer Mainline and Lateral Projects	SR						P	2011		Sewer Condition Assessment Program	SW			
C	2011	$ 4,488,839.77	Sewer Mainline and Lateral Projects	SR						P	2012	$ 2,699,798.49	Sewer Condition Assessment Program	SW			
C	2012	$ 8,521,567.66	Sewer Mainline and Lateral Projects	SW						P	2013		Sewer Condition Assessment Program	SW			
C	2013	$ 11,728,420.36	Sewer Mainline and Lateral Projects	SW						P	2014	$ 3,000,000.00	Sewer Condition Assessment Program	SW			
C	2014	$ 11,187,643.38	Sewer Mainline and Lateral Projects	SW						P	2015		Sewer Condition Assessment Program	SW			
C	2015	$ 10,741,264.89	Sewer Mainline and Lateral Projects	SW						P	2016	$ 1,700,000.00	Sewer Condition Assessment Program	SW			
C	2016	$ 16,940,123.78	Sewer Mainline and Lateral Projects	SW						P	2017	$ 1,629,000.00	Sewer Condition Assessment Program	SW			
C	2017	$ 15,658,550.49	Sewer Mainline and Lateral Projects	SW						P	2018	$ 1,352,250.13	Sewer Condition Assessment Program	SW			
C	2018	$ 14,200,716.81	Sewer Mainline and Lateral Projects	SW						P	2019	$ 2,500,000.00	Sewer Condition Assessment Program	SW			
C	2019	$ 10,282,565.32	Sewer Mainline and Lateral Projects	SW						P	2020	$ 2,500,000.00	Sewer Condition Assessment Program	SW			
C	2020	$ 10,093,831.37	Sewer Mainline and Lateral Projects	SW						I	2021	$ 3,000,000.00	Sewer Condition Assessment Program	SW			
C	2021	$ 10,296,785.53	Sewer Mainline and Lateral Projects	SW						I	2022	$ 3,000,000.00	Sewer Condition Assessment Program	SW			
C	2022	$ 6,958,393.97	Sewer Mainline and Lateral Projects	SW						I	2023	$ 2,516,139.79	Sewer Condition Assessment Program	SW			
C	2023	$ 5,090,280.23	Sewer Mainline and Lateral Projects	SW						P	2024		Sewer Condition Assessment Program	SW			
C	2024	$ 442,021.12	Sewer Mainline and Lateral Projects	SW													
												$ 14,429,720.20	SR Total = 2005 to 2010				
		$ 24,183,899.19	SR Total = 2005 to 2011									$ 15,381,048.62	SW Total = 2011 to 2020				
		$ 109,354,684.06	SW Total = 2012 to 2020														

2010 CD Cost Summary - 4 Op Budget

		FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2021	FY2022	FY2023	FY2024	FY2025	
TOTALS	**Administration**	$10,482,039	$12,792,200	$7,697,898	$6,968,340	$8,693,420	$10,486,663	$10,391,988	$11,985,909	$11,333,149	$11,392,861	$11,431,888	$11,716,717	$10,704,264	$13,033,179	$11,716,717	$13,652,582	$15,956,023	
	Environmental Quality	$14,624,125	$13,685,590	$13,070,476	$12,500,955	$11,924,710	$12,677,773	$7,795,510	$9,746,140	$9,901,243	$9,603,065	$10,074,206	$7,730,486	$6,904,255	$9,138,532	$7,730,846	$8,295,646	$8,386,189	
	CSM	$13,163,987	$12,840,158	$21,449,766	$20,311,337	$22,369,986	$24,590,799	$23,538,657	$26,606,698	$25,668,792	$26,544,832	$25,668,036	$28,476,536	$27,278,892	$28,220,168	$28,476,536	$31,306,607	$36,350,769	
	T&D	$71,247,404	$73,349,576	$64,532,129	$67,352,463	$71,290,946	$79,408,034	$80,514,166	$80,525,520	$73,921,132	$75,834,113	$78,676,052	$74,964,698	$84,421,346	$85,593,248	$74,964,698	$88,101,763	$102,534,009	
	WEC												$1,765,309	$2,034,185	$2,105,096	$1,765,309	$1,847,399	$1,434,524	
	Annual Total	$109,517,555	$112,667,524	$106,750,269	$107,133,095	$114,279,062	$127,163,269	$122,240,321	$128,864,267	$120,824,316	$123,374,871	$125,850,182	$124,653,746	$131,342,942	$138,090,223	$124,654,106	$143,203,997	$164,661,514	
% Consent Decree Work	**Administration**	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	5%	5%	5%	5%	5%	5%	
	Environmental Quality	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	10%	10%	10%	10%	10%	10%	
	CSM	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	0%	0%	0%	0%	0%	0%	
	T&D	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	10%	10%	10%	10%	10%	10%	
	WEC	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	5%	5%	5%	5%	5%	5%	
Consent Decree Portion																			**Total**
	Administration	$1,048,204	$1,279,220	$769,790	$696,834	$869,342	$1,048,666	$1,039,199	$1,198,591	$1,133,315	$1,139,286	$1,143,189	$585,836	$535,213	$651,659	$585,836	$682,629	$797,801	$15,204,610
	Environmental Quality	$3,656,031	$3,421,398	$3,267,619	$3,125,239	$2,981,178	$3,169,443	$1,948,878	$2,436,535	$2,475,311	$2,400,766	$2,518,552	$773,049	$690,426	$913,853	$773,085	$829,565	$838,619	$36,219,544
	CSM	$9,872,990	$9,630,119	$16,087,325	$15,233,503	$16,777,490	$18,443,099	$17,653,993	$19,955,024	$19,251,594	$19,908,624	$19,251,027	$0	$0	$0	$0	$0	$0	$182,064,786
	T&D	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$7,496,470	$8,442,135	$8,559,325	$7,496,470	$8,810,176	$10,253,401	$51,057,976
	WEC												$88,265	$101,709	$105,255	$88,265	$92,370	$71,726	$547,591
	Annual Total	$14,577,225	$14,330,736	$20,124,733	$19,055,576	$20,628,009	$22,661,209	$20,642,069	$23,590,149	$22,860,220	$23,448,676	$22,912,767	$8,943,620	$9,769,483	$10,230,092	$8,943,656	$10,414,740	$11,961,547	**$285,094,507**

CONSENT DECREE TOTAL **$285,094,507**

RED = Taken directly from WEC Status_(Jan2025).xls

BLACK = From contract documents and/or invoices

$ 108,990,204.41

Asset Type	Asset	CD Para 1	CD Para 2	CD Para 3	Project Name	Planning & Design P&D Contract No.	P&D Consultant	P&D Start	P&D End	P&D Amount Expend	P&D Fund	P&D Total Contract	Construction C Contract No.	Contractor	C Start	Sub Comp
CS	1999 Final Sewer I/I Plan Projects	18e			Airport Sewer Structural Rehabilitation/Reconstruction, Phase 1, 42-inc	F62727	Gray, Hong, Nojima, & Associate	12/29/06	4/30/09	$ 972,926.56	SR		CT-DDC-1000497	Insituform Technologies, Inc.		
CS	1999 Final Sewer I/I Plan Projects	18e			Airport Sewer Structural Rehabilitation/Reconstruction, Phase 2, 36-inc	F62727	Gray, Hong, Nojima, & Associate	6/30/11	12/30/11				CT-DDC-1300177	Michels Corporation		
CS	1999 Final Sewer I/I Plan Projects	20c			Ala Moana Boulevard Sewer Reconstruction Emergency Project (SI-CS-5	F26324	AECOM Technical Services, Inc.	11/10/03	10/15/08	$ 630,616.29	SR		PO-DDC-0900998	Frank Coluccio Construction Company, Hawaii		
CS	1999 Final Sewer I/I Plan Projects	18c			Ala Moana Boulevard/Auahi Street Sewer Rehabilitation, Phase 1 (SI-C	F33965	Engineering Concepts, Inc.	2/9/05	4/30/11	$ 250,000.00	SR		CT-DDC-1100447	Frank Coluccio Construction Company, Hawaii		
CS	1999 Final Sewer I/I Plan Projects	18c			Ala Moana Boulevard/Auahi Street Sewer Rehabilitation, Phase 2 (SI-C	F33965	Engineering Concepts, Inc.	2/9/05	4/30/11				CT-DDC-1300072	Frank Coluccio Construction Company, Hawaii		
CS	1999 Final Sewer I/I Plan Projects	18f	20c		Alii Shores Sewer Rehabilitation (KK-CS-10)	F26354	Kim & Shiroma Engineers, Inc.	12/1/03	6/9/06	$ 169,802.67	SR		CT-ENV-0700306	Michels Corporation	7/14/08	1/9/09
CS	1999 Final Sewer I/I Plan Projects	20c			Amelia Street Sewer Relief (SI-CS-40)	F90532	Kwock Associates, Inc.	1/14/02	10/5/09	$ 166,662.38	SR		CT-ENV-0700338	D & C Construction, Inc.	7/13/09	12/16/10
CS	1999 Final Sewer I/I Plan Projects	18f			Awa Street WWPS FM and Sewer System Improvements - Waiakamilo I	SC-DDC-1200044	Okahara & Associates, Inc.	1/24/12	8/1/17	$ 6,779,927.75	SR		CT-ENV-1800266	FV Coluccio Construction Company Inc.		
CS	1999 Final Sewer I/I Plan Projects	18f			Chinatown Sewer Rehabilitation (SI-CS-22 portion)	SC-DDC-0900114	HDR Engineering, Inc.	7/6/09	6/1/16	$ 904,901.01	SR		None			
CS	1999 Final Sewer I/I Plan Projects	18f			College Walk Sewer Reconstruction/Rehabilitation (SI-CS-10)	SC-DDC-0900114	HDR Engineering, Inc.	7/6/09	12/31/18				None			
CS	1999 Final Sewer I/I Plan Projects	18c			East End Relief Sewer - Ala Moana Crossing (Sec. A & C)	F22506	Shimabukuro, Endo, & Yoshizaki, Inc. dba SE		1/12/00	$ 1,062,869.54	SR		F93717	Civil Mechanical Contractor		
CS	1999 Final Sewer I/I Plan Projects	18c			Enchanted Lake WWPS Upgrade (KK-PS-01)	F87092	Okahara & Associates, Inc.	9/19/01	11/10/05	$ 644,651.00	SR		CT-DDC-0900445	Jas W. Glover, Ltd.		
CS	1999 Final Sewer I/I Plan Projects	20c			Fort Weaver Road Manhole and Pipe Rehabilitation (HN-CS-03)	F27454	The Limtiaco Consulting Group,	1/12/04	8/26/04	$ 307,756.40	SR		F05576	Michels Corporation	6/5/06	12/19/07
CS	1999 Final Sewer I/I Plan Projects	18e	20c		Foster Village Sewer Rehabilitation/Reconstruction (HN-CS-10C) Phase	F57036	Fukunaga & Associates, Inc.	12/28/05	1/31/09	$ 405,082.50	SR		CT-DDC-1000510	MIRA Image Construction	11/17/10	7/22/11
CS	1999 Final Sewer I/I Plan Projects	20c			Halona Street Relief Sewer, Kalihi (SI-CS-41)	F87122	Okahara & Associates, Inc.	10/1/01	12/31/05	$ 309,000.00	SR		F06807	Ideal Construction, Inc.	11/1/07	4/21/09
CS	1999 Final Sewer I/I Plan Projects	18f			Hele Street Sewer Relief/ Rehabilitation; Kailua (KK-CS-15)	SC-DDC-1100047	Wilson Okamoto Corporation	6/1/11	1/1/23	$ 423,697.93	SR					
CS	1999 Final Sewer I/I Plan Projects	18g elim			Honolulu Area WWPS Facilities Improvements	SC-DDC-1400094	Community Planning & Enginee	7/31/14	6/1/17	$ 2,425,230.39	SW		CT-ENV-2000323	APB Construction Corp.	10/7/20	
CS	1999 Final Sewer I/I Plan Projects	20c			Houghtailing Street Area Sewer (SI-CS-06, SCIP 25, SMPR 25)	F32965	The Limtiaco Consulting Group,	10/20/04	12/15/07	$ 1,244,107.80	SR		CT-ENV-0700319	Ideal Construction, Inc.	1/12/09	8/16/12
CS	1999 Final Sewer I/I Plan Projects	20c			Ilimalia Loop Mokapu Blvd Reconstructed Sewer (KK-CS-02)	F70069	Engineering Concepts, Inc.	8/2/99	3/19/01	$ 381,223.00	SR		F06757	Michels Corporation	8/6/07	8/7/08
CS	1999 Final Sewer I/I Plan Projects	18e			Iwilei/Kalihi Kai Sewer Rehabilitation/Reconstruction (SI-CS-08, 43p, 52	SC-ENV-0700116	Shimabukuro, Endo, & Yoshizaki	2/15/08	12/30/17	$ 624,789.00	SR					
CS	1999 Final Sewer I/I Plan Projects	18f	18g		Kahanahou WWPS Upgrade and Sewer Improvements - Force Main anc	SC-DDC-1000084	Okahara & Associates, Inc.	5/21/10	5/22/16	$ 354,518.29	SR		CT-DDC-1700340	Kiewit Infrastructure West Compa	10/2/17	9/3/19
CS	1999 Final Sewer I/I Plan Projects	18f	18g		Kahanahou WWPS Upgrade and Sewer Improvements - Pump Station U	SC-DDC-1000084	Okahara & Associates, Inc.	5/21/10	5/22/16				CT-DDC-1700312	Oceanic Companies, Inc.	9/20/17	6/26/20
CS	1999 Final Sewer I/I Plan Projects	18d			Kahanu St (SI-CS-38), School St (SI-CS-09) & Umi St (SI-CS-37) Relief Sev	F51335	Shimabukuro, Endo, & Yoshizaki	1/18/05	8/31/08	$ 774,745.75	SR		CT-DDC-0900401	MIRA Image Construction	12/14/09	8/2/11
CS	1999 Final Sewer I/I Plan Projects	18e	20c		Kailua/Kaneohe Sewer Manhole And Pipe Structural Rehabilitation (KK-	F54436	Austin Tsutsumi & Associates, Ir	8/10/05	1/10/08	$ 539,061.48	SR		CT-DDC-0900402	Frank Coluccio Construction Com	5/3/10	2/22/11
CS	1999 Final Sewer I/I Plan Projects	18e	20c		Kailua/Kaneohe Sewer Rehabilitation Phase 1 (KK-CS-09 portion)	F27814	Brown & Caldwell	1/23/04	10/4/06	$ 1,436,074.21	SR		CT-ENV-0700332	Frank Coluccio Construction Com	11/3/08	10/22/10
CS	1999 Final Sewer I/I Plan Projects	20c			Kailuana Place Sewer Rehabilitation (SMPR 64)	F72290	Kennedy/Jenks Consultants, Inc.	8/5/99	12/24/03	$ 492,079.00	SR		F06767	Civil Mechanical Contractor	7/2/07	3/27/08
CS	1999 Final Sewer I/I Plan Projects	18f			Kalaheo Avenue Relief Sewer (KK-CS-01)	SC-DDC-1000150	ParEn, Inc. dba Park Engineering	8/6/10	2/19/13	$ 16,561.00	SR					
CS	1999 Final Sewer I/I Plan Projects	20c			Kalaheo Avenue/Mokapu Road/Aikahi Loop Sewer Rehab (KK-ZZ-02 PO	F29434	ParEn, Inc. dba Park Engineering						CT-DDC-0700314	Insituform Technologies, Inc.	6/30/08	2/22/10
CS	1999 Final Sewer I/I Plan Projects	20c			Kalakaua Avenue Sewer Rehabilitation (SMPR 27 portion)	F67589	Earth Tech, Inc.	1/13/99	6/3/05	$ 471,003.00	SR		CT-ENV-0700321	Ideal Construction, Inc.	7/15/10	4/19/12
CS	1999 Final Sewer I/I Plan Projects	18d			Kalanianaole Highway Sewer Relief & Rehabilitation (SI-CS-18, SI-CS-62	F33745	Hawaii Pacific Engineers, Inc.	1/13/05	2/28/13	$ 1,454,026.85	SR		CT-DDC-0900403	Insituform Technologies, Inc.	10/15/09	9/16/11
CS	1999 Final Sewer I/I Plan Projects	18e			Kalihi Valley Reconstructed Sewer (SI-CS-05 portion, SCIP 14 portion)	F72970	ParEn, Inc. dba Park Engineering	10/26/99	6/30/05	$ 2,544,726.00	SR		CT-ENV-0700231	Ideal Construction, Inc.	11/5/08	7/7/10
CS	1999 Final Sewer I/I Plan Projects	20c			Kalihi/Nuuanu Area Sewer Rehabilitation - Medium and Low Priority Se	F51875	Hawaii Pacific Engineers, Inc.	3/1/05	4/23/18	$ 3,889,272.36	SR					
CS	1999 Final Sewer I/I Plan Projects	20c			Kalihi/Nuuanu Area Sewer Rehabilitation Phase 1A (Area 2A - Middle K	F51875	Hawaii Pacific Engineers, Inc.	3/1/05	12/15/07				CT-ENV-0700318	RMY Construction, Inc.	1/19/09	4/1/11
CS	1999 Final Sewer I/I Plan Projects	20c			Kalihi/Nuuanu Area Sewer Rehabilitation Phase 1B (Area 2B - Middle K	F51875	Hawaii Pacific Engineers, Inc.	3/1/05	12/15/07				CT-ENV-0800484	Frank Coluccio Construction Com	3/2/09	4/1/11
CS	1999 Final Sewer I/I Plan Projects	20c			Kalihi/Nuuanu Area Sewer Rehabilitation Phase 1C (Area 3 - Upper Kali	F51875	Hawaii Pacific Engineers, Inc.	3/1/05	12/15/07				CT-ENV-0700340	RMY Construction, Inc.	11/3/08	4/1/11
CS	1999 Final Sewer I/I Plan Projects	20c			Kalihi/Nuuanu Area Sewer Rehabilitation Phase 1D (Area 4, 7, & 8 - Lar	F51875	Hawaii Pacific Engineers, Inc.	3/1/05	12/15/07				CT-ENV-0700326	Integrated Construction, Inc.	12/15/08	11/17/10
CS	1999 Final Sewer I/I Plan Projects	18f	20c		Kalihi/Nuuanu Area Sewer Rehabilitation Phase 1E (Area 5A - Lower Nu	F51875	Hawaii Pacific Engineers, Inc.	3/1/05	12/15/07				CT-ENV-0800389	Ideal Construction, Inc.	8/4/08	9/10/09
CS	1999 Final Sewer I/I Plan Projects	20c			Kalihi/Nuuanu Area Sewer Rehabilitation Phase 1F (Area 5B - Lower Nu	F51875	Hawaii Pacific Engineers, Inc.	3/1/05	12/15/07				CT-ENV-0700335	MIRA Image Construction	5/19/08	1/30/09
CS	1999 Final Sewer I/I Plan Projects	20c			Kalihi/Nuuanu Area Sewer Rehabilitation Phase 1G (Area 5C - Lower Nu	F51875	Hawaii Pacific Engineers, Inc.	3/1/05	12/15/07				CT-ENV-0700334	Ron's Construction Corporation	6/6/08	1/31/10
CS	1999 Final Sewer I/I Plan Projects	20c			Kalihi/Nuuanu Area Sewer Rehabilitation Phase 1H (Area 6 - Punchbow	F51875	Hawaii Pacific Engineers, Inc.	3/1/05	12/15/07				CT-ENV-0700331	MIRA Image Construction	6/2/08	1/30/09
CS	1999 Final Sewer I/I Plan Projects	20c			Kalihi/Nuuanu Area Sewer Rehabilitation Phase 1I (Area 9 - Upper Nuu	F51875	Hawaii Pacific Engineers, Inc.	3/1/05	12/15/07				CT-ENV-0700333	Ron's Construction Corporation	6/16/08	2/13/09
CS	1999 Final Sewer I/I Plan Projects	18e			Kalihi/Nuuanu Area Sewer Rehabilitation Phase 1K (SI-CS-51B portion)	F51875	Hawaii Pacific Engineers, Inc.	4/3/13	10/14/13				CT-DDC-1500169	Ideal Construction, Inc.	5/15/15	10/27/15
CS	1999 Final Sewer I/I Plan Projects	18e	20c		Kaneohe Bay Drive Sewer Line and Manhole Emergency Rehabilitation (KK-CS-09 portion, SMPR 63)								AJ2798	Jas W. Glover, Ltd.	6/18/02	1/15/03
CS	1999 Final Sewer I/I Plan Projects	18e	20c		Kaneohe Bay Drive Trunk Sewer Reconstruction (KK-CS-09 portion)	F86702	Fukunaga & Associates, Inc.	9/6/01	3/26/07	$ 1,085,661.00	SR		CT-ENV-0700325	Frank Coluccio Construction Com	1/7/09	8/26/10
CS	1999 Final Sewer I/I Plan Projects	18f			Kaneohe Sewer Relief/Rehabilitation, C2 Projects (KK-CS-13, 20, 21, 22,	SC-DDC-0900120	Shimabukuro, Endo, & Yoshizaki	6/29/09	7/25/14	$ 204,000.00	SR					
CS	1999 Final Sewer I/I Plan Projects	18f			Kaneohe WWPTF Misc - Interim Storage (Task 3B)	F27864	Engineering Concepts, Inc.									
CS	1999 Final Sewer I/I Plan Projects	20c			Kapiolani Area Revised Sewer System (SCIP 16 portion, SCIP 26 portion,	F82291	Fukunaga & Associates, Inc.	1/16/01	5/15/05	$ 519,400.00	SR		CT-ENV-0700339	Frank Coluccio Construction Com	9/2/08	10/29/09
CS	1999 Final Sewer I/I Plan Projects	18f			King Street Reconstruction (River Street to Bethel Street)	F97913	Austin Tsutsumi & Associates, Inc.						CT-DDC-1100378	RMY Construction, Inc.	1/30/12	11/12/13
CS	1999 Final Sewer I/I Plan Projects	18c			Kuliouou Sewer Rehabilitation & WWPS Modification – WWPS Modific	F48667	SSFM International, Inc.	8/19/96	3/14/01	$ 410,301.98	SR		CT-ENV-0700327	Kiewit Infrastructure West Compa	5/19/08	4/7/10
CS	1999 Final Sewer I/I Plan Projects	20c			Kuliouou Sewer Rehabilitation and WWPS Modifications - Sewer Rehab	F48667	SSFM International, Inc.	8/19/96	3/14/01				F06837	Frank Coluccio Construction Com	10/1/07	4/22/09
CS	1999 Final Sewer I/I Plan Projects	18e			Leeward Area Sewer & Manhole Rehabilitation (HN-CS-05B Waipahu, H	F63437	Oceanit Laboratories, Inc.	12/28/06	7/22/08	$ 201,029.28	SR		CT-DDC-1100237	Ideal Construction, Inc.	2/21/12	12/27/12
CS	1999 Final Sewer I/I Plan Projects	18f after 2020			Manoa Sewer System Relief/Rehabilitation (SI-CS-15)	SC-DDC-0900124	Akinaka & Associates, Ltd.	6/30/09	12/31/18	$ 59,746.00	SR					
CS	1999 Final Sewer I/I Plan Projects	18g after 2020			Maunawili Estates Wastewater Pump Station Force Main Stream Cross	SC-DDC-1400089	Fukunaga & Associates, Inc.	9/2/14	3/1/27	$ 1,127,848.12	SW	$ 2,202,000.00	PO-ENV-2200129	MIRA Image Construction	3/14/22	3/1/23
CS	1999 Final Sewer I/I Plan Projects	18d			Mililani WWPTF Headworks Upgrade (HN-TP-02)	F68889	HDR Engineering, Inc.	3/10/99	9/30/05	$ 659,010.00	SR		CT-DDC-0900439	Civil Mechanical Contractor	4/12/10	11/24/14
CS	1999 Final Sewer I/I Plan Projects	18e			Moiliili/Kapahulu Sewer Structural Rehabilitation/Reconstruction (SI-CS	F63677	Akinaka & Associates, Ltd.	1/10/07	1/13/11	$ 962,354.18	SR		CT-DDC-1100439	Frank Coluccio Construction Com	12/5/11	4/11/14
CS	1999 Final Sewer I/I Plan Projects	18e			Old Sewer Tunnel Rehabilitation (SI-CS-60)	SC-DDC-09A0100	Engineering Solutions, Inc.	6/1/09	3/19/12	$ 607,000.00	SR		CT-DDC-1500283	Mocon Corporation	6/19/15	8/25/16
CS	1999 Final Sewer I/I Plan Projects	18f elim			Pacific Palisades WWPS, Force Main and Alternative Diversion Sewer Li	SC-DDC-1100098	Gray, Hong, Nojima, & Associate	7/29/11	12/31/20	$ 676,544.15	SR					
CS	1999 Final Sewer I/I Plan Projects	18f			Palolo Sewer Rehabilitation (SI-CS-17, SI-CS-26, SI-CS-27)	SC-DDC-0900130	The Limtiaco Consulting Group,	6/30/09	8/15/15	$ 295,130.35	SR		CT-ENV-1800240	Road and Highway Builders, LLC	7/16/18	9/24/20
CS	1999 Final Sewer I/I Plan Projects	18f			Palolo Sewer Rehabilitation (SI-CS-17, SI-CS-26, SI-CS-27)	SC-DDC-0900130	The Limtiaco Consulting Group, Inc.						CT-ENV-1800240	Road and Highway Builders, LLC	7/16/18	9/24/20
CS	1999 Final Sewer I/I Plan Projects	No CD	11bi		Pearl City WWPS, Force Main, and Sewer System Alternatives	SC-DDC-1400127	Brown & Caldwell	8/25/14	2/24/19	$ 2,015,715.69	SW		CT-ENV-1900243	Oceanic Companies, Inc.	8/5/19	
CS	1999 Final Sewer I/I Plan Projects	20c			Peterson Lane (SMPR 92, SMPR 73 p) and Pua Lane (SMPR 93) Sewer R	F84571	Akinaka & Associates, Ltd.	10/1/03	12/31/04	$ 488,375.00	SR		F06737	RMY Construction, Inc.	2/1/08	9/15/09
CS	1999 Final Sewer I/I Plan Projects	18g			Punahou St Sewer Reconstruction - Sewer I/I Ala Moana Basin	SC-DDC-1400098	ParEn, Inc. dba Park Engineering	5/2/16	12/26/16		SW		CT-ENV-1800236	Ron's Construction Corporation	7/2/18	2/13/20
CS	1999 Final Sewer I/I Plan Projects	18e			Renton Road Sewer and Manhole Rehabilitation (HN-CS-04)	F97883	Hawaii Pacific Engineers, Inc.	2/1/03	5/31/07	$ 719,281.86	SR		CT-ENV-0700230	Michels Corporation	4/14/08	8/26/09
CS	1999 Final Sewer I/I Plan Projects	18e			Renton Road Sewer and Manhole Rehabilitation Phase 2	F97883	Hawaii Pacific Engineers, Inc.	2/1/03	5/19/14				CT-DDC-1500296	Insituform Technologies, Inc.	6/19/15	3/9/16
CS	1999 Final Sewer I/I Plan Projects	20c			Saint Louis Heights Sewer Rehabilitation (SCIP 04, SMPR 39, SI-CS-31)	F90812	Wilson Okamoto Corporation	2/1/02	4/1/05	$ 1,162,524.35	SR		F06747	Insituform Technologies, Inc.	5/21/07	3/8/13
CS	1999 Final Sewer I/I Plan Projects	20c			Sand Island Basin Miscellaneous Sewer Rehabilitation (SI-CS-63A, SI-CS-	F86692	Austin Tsutsumi & Associates, Ir	9/5/01	10/17/03	$ 497,225.84	SR		F05716	Frank Coluccio Construction Com	6/19/06	12/31/08
CS	1999 Final Sewer I/I Plan Projects	18g			Sewer I/I Relief and Rehabilitation Projects - Ala Moana Tributary Basir	SC-DDC-1400098	ParEn, Inc. dba Park Engineering	6/30/14	6/27/22							6/7/29
CS	1999 Final Sewer I/I Plan Projects	18g			Sewer I/I Relief And Rehabilitation Projects - Hart St. Tributary Basin	SC-ENV-1400100	GMP International LLC	8/11/14	10/2/16		SW					
CS	1999 Final Sewer I/I Plan Projects	20c			Sewer Manhole And Pipe Rehabilitation At Various Locations - Phase 1	F92292	Engineering Concepts, Inc.	4/1/02	3/1/07	$ 1,010,524.63	SR		CT-ENV-0700322	Civil Mechanical Contractor	7/28/08	4/29/09
CS	1999 Final Sewer I/I Plan Projects	18c			Sewer Manhole And Pipe Rehabilitation At Various Locations - Phase 2	F92292	Engineering Concepts, Inc.	4/1/02	3/1/07				CT-DDC-1000422	MIRA Image Construction	9/7/10	2/9/12
CS	1999 Final Sewer I/I Plan Projects	18e			Sewer Manhole And Pipe Rehabilitation At Various Locations - Phase 3	F92292	Engineering Concepts, Inc.	3/1/08	1/30/10				CT-DDC-1300356	Ideal Construction, Inc.	10/1/14	5/22/15
CS	1999 Final Sewer I/I Plan Projects	20c			Sewer Manhole And Pipe Rehabilitation At Various Locations - Phase 4	F92292	Engineering Concepts, Inc.	3/1/08	1/30/10							
CS	1999 Final Sewer I/I Plan Projects	18g			Uluniu Avenue Sewer Reconstruction - Sewer I/I Ala Moana Basin	SC-DDC-1400098	ParEn, Inc. dba Park Engineering	5/2/16	12/26/16	$ 5,856,019.10	SW		CT-ENV-1800305	Frank Coluccio Construction Com	7/31/18	12/10/19
CS	1999 Final Sewer I/I Plan Projects	18f elim			Uwalu WWPS Upgrade (WH-PS-02)	SC-DDC-0900092	Kim & Shiroma Engineers, Inc.	5/18/09	9/2/10	$ 121,000.00	SR		CT-DDC-1600313	Travelers Casualty and Surety Cor	9/9/16	11/5/20
CS	1999 Final Sewer I/I Plan Projects	18c			Wahiawa WWTP Influent Pump Station and Equalization Facility (WH-T	F87772	The Limtiaco Consulting Group,	11/2/01	7/30/08	$ 1,475,000.00	SR		CT-DDC-0900197	Oceanic Companies, Inc.	7/6/09	1/2/13
CS	1999 Final Sewer I/I Plan Projects	18g elim			Wahiawa, Whitmore Village and Makakilo Area WWPS and Facilities In	SC-DDC-1000172	Brown & Caldwell	6/1/14	7/1/19							
CS	1999 Final Sewer I/I Plan Projects	18e			Waiau Area Sewer Rehabilitation/Reconstruction (HN-CS-10A)	SC-ENV-0700118	AECOM Technical Services, Inc.	2/13/10	8/31/10	$ 1,253,409.37	SR		CT-DDC-1200398	Parsons RCI, Inc.	1/15/13	9/27/13
CS	1999 Final Sewer I/I Plan Projects	18f after 2020			Waikalua WWPS Upgrade (KK-PS-02)	SC-DDC-0900138	Okahara & Associates, Inc.	7/29/09	3/1/11	$ 163,022.19	SR		CT-DDC-1700279	Oceanic Companies, Inc.	12/5/17	11/2/20
CS	1999 Final Sewer I/I Plan Projects	18f			Waikapoki WWPS Upgrade (KK-PS-12)	F63547	HDR Engineering, Inc.	12/29/06	12/12/14	$ 1,632,197.80	SR		CT-DDC-1700300	Kiewit Infrastructure West Compa	9/25/17	12/19/19
CS	1999 Final Sewer I/I Plan Projects	18c			Waikiki Sewer Rehabilitation/Reconstruction (SI-CS-59)	F33685	Engineering Concepts, Inc.	2/28/05	8/13/10	$ 362,754.00	SR		CT-DDC-1100432	Insituform Technologies, Inc.	10/27/11	6/19/13
CS	1999 Final Sewer I/I Plan Projects	20c			Waimalu Sewer Rehabilitation/Reconstruction - Phase I, 7D01C (HN-CS	F87102	Hawaii Pacific Engineers, Inc.	9/26/01	6/30/07	$ 1,942,926.85	SR		CT-ENV-0700343	Frank Coluccio Construction Com	6/30/08	6/30/11
CS	1999 Final Sewer I/I Plan Projects	18c			Waimalu Sewer Rehabilitation/Reconstruction - Phase II, 7D01C (HN-CS	F87102	Hawaii Pacific Engineers, Inc.	9/26/01	6/30/07	$ 1,879,930.00	SR		CT-DDC-1000418	RMY Construction, Inc.	11/1/10	9/9/11
CS	1999 Final Sewer I/I Plan Projects	18f elim			Waimalu WWPS Modification/Upgrade	SC-DDC-1400095	Kennedy/Jenks Consultants, Inc.	8/1/14	3/31/18	$ 1,530,950.00	SW		CT-ENV-2000303	APB Construction Corporation	12/14/20	
CS	1999 Final Sewer I/I Plan Projects	20c			Waimanalo Sewer Rehabilitation (WM-CS-01, WM-CS-02 portion)	F98853	Engineering Solutions, Inc.	7/7/03	4/30/06	$ 577,587.00	SR		CT-ENV-0700307	Ideal Construction, Inc.	1/12/09	12/16/09
CS	1999 Final Sewer I/I Plan Projects	18f			Waipahu Sewer Replacement/Relief (HN-CS-14, SMPR 87 portion)	F27804	ParEn, Inc. dba Park Engineering	1/26/04	11/30/12	$ 195,370.30	SR					
CS	1999 Final Sewer I/I Plan Projects	20c			Waipahu Street/Plantation Village Sewer Reconstruction (SCIP 24, SMP	F86682	Hida, Okamoto, & Associates, In	12/5/01	6/29/03	$ 229,149.61	SR		F04945	Jas W. Glover, Ltd.	1/30/06	10/12/11
CS	1999 Final Sewer I/I Plan Projects	18f elim			Waipio WWPS Upgrade (HN-PS-01)	SC-ENV-0700119	Brown & Caldwell	12/31/07	10/1/14	$ 1,252,291.74	SR		CT-DDC-1700313	Oceanic Companies, Inc.	12/27/17	6/16/21
CS	1999 Final Sewer I/I Plan Projects	20c			Wanaao Road/Keolu Drive Reconstructed Sewer (KK-CS-07, KK-ZZ-03)	F92432	Sato & Associates, Inc.	1/17/00	11/12/06	$ 1,198,143.85	SR		F06727	Frank Coluccio Construction Com	7/30/07	7/26/10
CS	1999 Final Sewer I/I Plan Projects	20c			Wilhelmina Rise Sewer Rehabilitation (SCIP 01)	F70809	URS Corporation	6/29/99	1/18/05	$ 1,654,301.82	SR		CT-ENV-0700337	Parsons RCI, Inc.	6/1/08	1/11/12
FM	Ahuimanu FM	12b			Ahuimanu Force Main Pipe Corrosion Repair Along Waikalua Road	SC-DDC-0900140	R.M. Towill Corporation	7/20/09	9/30/15	$ 692,752.00	SR		CT-DDC-1500284	Michels Corporation	7/6/15	12/23/15
FM	Ahuimanu FM	12b			Ahuimanu WWPTF Force Main - Haiku Road Bypass Sewer	SC-DDC-0900140							CT-DDC-1700258	Frank Coluccio Construction Com	7/10/17	12/20/18
FM	Ala Moana FM #2	12a	15c		Ala Moana WWPS Force Main No. 2 Modification - Condition Assessme	F77710	R.M. Towill Corporation	3/20/07		$ 3,821,361.00	SR					
FM	Ala Moana FM #2	12a			Ala Moana WWPS Force Main No. 2 Rehabilitation – Emergency Repair	F77710	R.M. Towill Corporation	3/20/07					PO-DDC-0900997	Frank Coluccio Construction Company, Hawaii		8/9/09
FM	Ala Moana FM #2	12a			Ala Moana WWPS Force Main No. 2 Rehabilitation - Permanent Repair	F77710	R.M. Towill Corporation	3/23/09					CT-DDC-1100371	Frank Coluccio Construction Company, Hawaii		10/24/11
FM	Ala Moana FM #3	15a	18f		Ala Moana WWPS Force Main No. 3 and No. 4 (SI-PS-06 portion)	F63567	Fukunaga & Associates, Inc.	12/27/06		$ 5,864,407.76	SR		CT-DDC-1200077	Frank Coluccio Construction Company, Hawaii		11/28/11
FM	Aliamanu #1 & #2 FM	12b			Aliamanu WWPS No. 1 & 2 Force Main Improvements	SC-DDC-0900107	Belt Collins & Associates (Hawaii), Ltd.			$ 3,112,981.00	SR		CT-DDC-1500445	MIRA Image Construction	7/15/15	7/26/16
FM	Beachwalk FM Condition Assessment #2	12a			Beachwalk WWPS Force Main System	SC-DDC-1700029	Fukunaga	11/22/16	12/31/25	$ 1,433,694.53	SW	$ 1,951,000.00	CT-ENV-2300211	FV Coluccio	8/28/23	8/22/24
FM	Beachwalk FM New	14a			Beachwalk WWPS to Ala Moana Park Sewer Phase I - Force Main Syste	F44816	R.M. Towill Corporation	1/16/96	10/9/08	$ 1,268,091.00	SR		CT-DDC-0900444	Frank Coluccio Construction Com	11/30/09	4/17/14
FM	Awa Street FM	11bii	12b		Eliminated by Waiakamilo Rd Trunk Sewer Project, 18f											
FM	Ewa Beach FM	11biii	12b		Ewa Beach WWPS Force Main Improvements Ph 1	SC-DDC-1300004	Fukunaga & Associates, Inc.	8/16/12	12/31/14	$ 5,205,000.00	SW		CT-ENV-1800299	Frank Coluccio Construction Com	11/1/18	8/11/20
FM	Ala Moana FM #2	12a			Force Main Assessment and Upgrade Project	F63627	HDR			$ 5,989,268.40	SR	$ 6,515,000.00				
FM	FM Cathodic Protection	13c			Force Main Misc - Rehabilitation of Cathodic Protection Systems for Va	None							CT-ENV-0900134	Frank Coluccio Construction Com	5/22/09	8/14/15
FM	Fort DeRussy FM	11bii	24c		Fort DeRussy WWPS Modification and Force Main Extension (SI-PS-09 p	F57208	R.M. Towill Corporation	8/25/97	12/30/01		SR		F05636	Okada Trucking Company, Ltd.	7/1/09	1/4/10
FM	Halawa FM	11biii	12b		Halawa WWPS Force Main System Improvements_11-0232	SC-DDC-1300005	Community Planning & Enginee	8/20/12	12/30/14	$ 2,328,178.14	SW	$ 2,555,000.00	CT-DDC-1700319	Kiewit Infrastructure West Compa	9/11/17	9/20/18
FM	Hart St FM	12a			Hart Street Force Main No. 1 (Emergency) Repair	SC-ENV-1800023	Fukunaga & Associates, Inc.	2/1/18	2/1/19	$ 1,302,000.00	SW		PO-ENV-2000231	Jas W. Glover, Ltd.	5/11/20	10/20/20
FM	Hart St FM	12a			Hart Street WWPS Force Main Improvements Phase 3	SC-ENV-1800023	Fukunaga & Associates, Inc.	7/1/24	6/30/30							
FM	Hart St FM - OLD	11b	12a	16	Hart Street WWPS Old Force Main Improvements Phase 1	SC-DDC-1100033	Brown & Caldwell			$ 500,000.00	SR		CT-DDC-1300005	Oceanic Companies, Inc.	12/1/12	12/27/13
FM	Hart St FM - OLD	11b	12a	16	Hart Street WWPS Old Force Main Improvements Phase 2	SC-DDC-1100033	Brown & Caldwell						CT-DDC-1300227	Oceanic Companies, Inc.	7/10/13	8/8/14
FM	Kahala FM Condition Assessment #2	12a			Kahala WWPS and Force Main System Improvements	SC-DDC-1400099	AECOM Technical Services, Inc.	8/18/14	6/30/21	$ 3,701,000.00	SR		CT-ENV-2400187	American Pipe & Boiler Company	10/7/20	
FM	Kailua Rd FM	12b			Kailua Road WWPS Force Main Improvements	SC-DDC-1300005	Community Planning & Enginee	8/20/12	12/20/13				CT-DDC-1700240	Kiewit Infrastructure West Compa	7/24/17	6/20/18
FM	Kamehameha Hwy FM	11biii			Kamehameha Hwy WWPS Force Main Improvements	SC-DDC-1300108	CH2M Hill	6/17/13	1/29/15	$ 3,306,000.00	SW		CT-ENV-1800329	Healy Tibbitts Builders, Inc.	10/1/18	2/10/21
FM	Kamehameha Hwy FM	11biii			Kamehameha Hwy WWPS Force Main Improvements	SC-DDC-1300108	CH2M Hill						CT-ENV-1800329	Healy Tibbitts Builders, Inc.		
FM	Kaneohe Bay #2 FM, New FM	13d			Kaneohe Bay #2 WWPS and Force Main Improvements	SC-DDC-1000118	Element Environmental LLC	7/21/10	9/15/13	$ 749,119.00	SR		CT-DDC-1500419	Frank Coluccio Construction Company, Hawaii		
FM	Kaneohe Bay #3 FM	12b			Kaneohe Bay #3 WWPS Force Main Improvements	SC-DDC-1300005	Community Planning & Enginee	8/20/12	10/27/14							
FM	KK FM No. 1	17			Kaneohe/Kailua Force Main No. 1 Rehabilitation	SC-DDC-1100110	Belt Collins & Associates (Hawai	7/25/11	12/22/14	$ 1,395,850.00	SR					
FM	KK FM No. 2	11b	13d	17	Kaneohe/Kailua Force Main No. 2	F62957	Austin Tsutsumi & Associates, Ir	12/1/06	2/4/11	$ 3,405,870.70	SR					
FM	Kunia FM	11bii			Kunia WWPS Force Main Improvements	SC-DDC-1300004	Fukunaga & Associates, Inc.									
FM	Kunia FM	12b			Kunia WWPS Force Main Partial Replacement	SC-DDC-1300004	Fukunaga & Associates, Inc.						CT-DDC-1600093	Drayco Construction, Inc.	12/31/15	7/27/16
FM	Lualualei FM Condition Assessment	12b			Lualualei WWPS Force Main System Condition Assessment	SC-ENV-0900037	Wilson Okamoto Corporation						None			
FM	Lualualei FM	11biv			Lualualei WWPS Force Main System Improvements	SC-ENV-0900037	Wilson Okamoto Corporation	1/9/09	6/30/12	$ 1,213,592.66	SR	$ 1,667,388.39	CT-DDC-1000507	Liberty Mutual Insurance Compar	10/11/10	11/18/13
FM	Kaneohe Bay #1 FM	11bii			Replaced by KK Tunnel and TIPS											
FM	Waimalu FM Condition Assessment #1	11biii			See "Force Main Assessment and Upgrade Project"	F63627	HDR									
FM	Hart St FM	12a			See "Force Main Assessment and Upgrade Project"	F63627	HDR									
FM	Kahala FM Condition Assessment #1	12a			See "Force Main Assessment and Upgrade Project"	F63627	HDR									
FM	KK FM Condition Assessment	12a			See "Force Main Assessment and Upgrade Project"	F63627	HDR									
FM	Waimalu FM	11b, c			Waimalu WWPS Force Main and Waiau Sewer Rehabilitation/Reconstr	SC-ENV-0700097	AECOM Technical Services, Inc.	8/1/11	11/26/12	$ 18,704,900.00	SR					
FM	Waimalu FM	11b, c			Waimalu WWPS Force Main and Waiau Sewer Rehabilitation/Reconstr	SC-ENV-0700118	AECOM Technical Services, Inc.	8/1/11	6/19/20				CT-DDC-1400366	Frank Coluccio Construction Company, Hawaii		
FM	Waimalu FM Condition Assessment #2	12a			Waimalu WWPS Force Main System	SC-ENV-1800026	Community Planning & Enginee	3/8/18	9/30/18	$ 1,011,790.31	SW					
Tunnel	KK Tunnel & IPS	17			Kailua WWTP Demolition Work - Preparation for Tunnel	SC-ENV-0700095	Wilson Okamoto Corporation						CT-DDC-1300016	MEI Corporation	1/17/13	12/17/13
Tunnel	KK Tunnel & IPS	17			Kailua WWTP Tunnel Influent Pump Station and Headworks Facility	SC-ENV-0700095	Wilson Okamoto Corporation	10/3/11	8/6/12	$ 29,731,296.11	SR		CT-DDC-1600082	Hensel Phelps Construction Comp	10/2/15	6/12/18
Tunnel	KK Tunnel & IPS	17			Kaneohe/Kailua Sewer Tunnel	SC-ENV-0700095	Wilson Okamoto Corporation			$ 18,430,522.19	SR		CT-DDC-1400038	Southland Mole JV	1/6/14	6/29/18
WWPS	Ala Moana WWPS Upgrade	12a			Ala Moana WWPS Upgrade	SC-DDC-1400112	Brown & Caldwell	8/18/14	11/25/17	$ 1,602,000.00	SW		CT-ENV-1900144	Hawaiian Dredging Construction	3/25/19	5/27/21
WWPS	Aliamanu #1 & #2 WWPS	18f			Aliamanu WWPS No. 1 & 2 Upgrade (SI-PS-16, SI-PS-17) and Airport Re	F51265	Belt Collins & Associates (Hawaii), Ltd.			$ 779,363.67	SR					
WWPS	Aliamanu #1 & #2 WWPS	18d			Aliamanu WWPS No. 1 & 2 Upgrade, Phase 1	F51265	Belt Collins & Associates (Hawaii), Ltd.						CT-DDC-0900443	MJ Construction, Inc.	11/30/09	3/30/12
WWPS	Beachwalk WWPS Upgrade	24a	24b		Beachwalk WWPS Improvements (SI-PS-10)	F67809	R.M. Towill Corporation	6/16/09	1/31/20	$ 6,448,533.00	SR		CT-DDC-1000508	Oceanic Companies, Inc.	10/11/10	12/26/12
WWPS	Fort DeRussy WWPS Upgrade	24c			Fort DeRussy WWPS Interim Modification	F57208	R.M. Towill Corporation	8/25/97	12/30/01				CT-ENV-0700290	LTM Corporation Dba Civil-Mecha	8/20/07	9/7/07
WWPS	Beachwalk WWPS Condition Assessment #1	12a			See "Force Main Assessment and Upgrade Project"	F63627	HDR									
WWPTF	Ahuimanu WWPTF Storage	18g	11.c.ii	24e	Determined to be AFTER 2020 under 18g											
WWTP	Honouliuli WWTP to Secondary	30			Honouliuli WWTP Secondary Treatment Phase 1B - Secondary Compliar	SC-DDC-1400131	R.M. Towill Corporation			$ 70,084,491.52	SW	$ 105,310,000.00	CT-ENV-1900114	Nan, Inc.		
WWTP	Honouliuli WWTP to Secondary	30			Honouliuli WWTP Upgrade Phase 1 (HN-TP-01)	F98993	Engineering Concepts, Inc.	7/21/03	4/15/07	$ 1,004,237.00	SR		CT-ENV-0700232	Parsons RCI, Inc.	4/16/08	7/31/10
WWTP	Sand Island WWTP - Phase I Secondary	31b			Sand Island WWTP Secondary Treatment Phase 1	SC-DDC-1600089	AECOM Technical Services, Inc.			$ 30,713,509.84	SW	$ 51,002,000.00	CT-ENV-2200107	Hensel Phelps Construction Company		
WWTP	Sand Island WWTP - Phase II Secondary	31c			Sand Island WWTP Secondary Treatment Phase 2	SC-ENV-2200042	RMTC - Stantec Joint Venture			$ 4,870,340.22	SW	$ 33,000,000.00				

SR TOTAL	$	1,933,510,281.76
SW TOTAL	$	192,968,718.09

C Amount Earned	C Fund	C Total Contract	Inspection I Contract No.	Inspector	I Start	I End	I Amount Earned	I Fund	I Total Contract	P&D Fund SR Funded	P&D Fund SW Funded	C Fund SR Funded	C Fund SW Funded	I Fund SR Funded	I Fund SW Funded	TOTAL SR Funded	TOTAL SW Funded
$ 767,948,639.18							$ 49,950,128.34										
$ 1,746,814.70	SR	$ 1,746,814.70	SC-DDC-1000111	Herbert Chock & Associates, Inc. dba HCA Consulting			$ 609,993.67	SR		$ 972,926.56	$ -	$ 1,746,814.70	$ -	$ 609,993.67	$ -	$ 3,329,734.93	$ -
$ 4,538,603.28	SR	$ 4,538,603.28	SC-DDC-1000111	Herbert Chock & Associates, Inc. dba HCA Consulting Group International						$ -	$ -	$ 4,538,603.28	$ -	$ -	$ -	$ 4,538,603.28	$ -
$ 10,016,039.03	SR		SC-DDC-0900086	Engineers Surveyors Hawaii, Inc.			$ 524,757.09	SR		$ 630,616.29	$ -	$ 10,016,039.03	$ -	$ 524,757.09	$ -	$ 11,171,412.41	$ -
$ 203,465.00	SR		SC-DDC-1100075	R.M. Towill Corporation			$ 693,344.07	SR		$ 250,000.00	$ -	$ 203,465.00	$ -	$ 693,344.07	$ -	$ 1,146,809.07	$ -
$ 11,064,662.45	SR		None							$ -	$ -	$ 11,064,662.45	$ -	$ -	$ -	$ 11,064,662.45	$ -
$ 2,599,877.00	SR		None							$ 169,802.67	$ -	$ 2,599,877.00	$ -	$ -	$ -	$ 2,769,679.67	$ -
$ 2,489,281.20	SR		None							$ 166,662.38	$ -	$ 2,489,281.20	$ -	$ -	$ -	$ 2,655,943.58	$ -
$ 82,445,228.64	SR	$ 87,282,916.81	SC-DDC-1800006	Yogi Kwong Engineers LLC			$ 5,062,403.58	SR		$ 6,779,927.75	$ -	$ 82,445,228.64	$ -	$ 5,062,403.58	$ -	$ 94,287,559.97	$ -
			None							$ 904,901.01	$ -	$ -	$ -	$ -	$ -	$ 904,901.01	$ -
			None							$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
$ 1,435,793.13	SR		None							$ 1,062,869.54	$ -	$ 1,435,793.13	$ -	$ -	$ -	$ 2,498,662.67	$ -
$ 2,931,958.06	SR		None							$ 644,651.00	$ -	$ 2,931,958.06	$ -	$ -	$ -	$ 3,576,609.06	$ -
$ 2,186,971.66	SR		F57136	GMP Associates, Inc.			$ 325,000.00	SR		$ 307,756.40	$ -	$ 2,186,971.66	$ -	$ 325,000.00	$ -	$ 2,819,728.06	$ -
$ 622,323.76	SR		None							$ 405,082.50	$ -	$ 622,323.76	$ -	$ -	$ -	$ 1,027,406.26	$ -
$ 4,471,373.67	SR		SC-ENV-0700022	SSFM International, Inc.		1/25/11	$ 655,432.87	SR		$ 309,000.00	$ -	$ 4,471,373.67	$ -	$ 655,432.87	$ -	$ 5,435,806.54	$ -
										$ 423,697.93	$ -	$ -	$ -	$ -	$ -	$ 423,697.93	$ -
$ 4,870,330.10	SW		None							$ -	$ 2,425,230.39	$ -	$ 4,870,330.10	$ -	$ -	$ -	$ 7,295,560.49
$ 11,636,448.04	SR		SC-ENV-0700042	SSFM International, Inc.		9/30/14	$ 1,039,181.50	SR		$ 1,244,107.80	$ -	$ 11,636,448.04	$ -	$ 1,039,181.50	$ -	$ 13,919,737.34	$ -
$ 1,418,778.80	SR		None							$ 381,223.00	$ -	$ 1,418,778.80	$ -	$ -	$ -	$ 1,800,001.80	$ -
										$ 624,789.00	$ -	$ -	$ -	$ -	$ -	$ 624,789.00	$ -
$ 17,381,312.70	SR		None							$ 354,518.29	$ -	$ 17,381,312.70	$ -	$ -	$ -	$ 17,735,830.99	$ -
$ 4,424,561.58	SR		None							$ -	$ -	$ 4,424,561.58	$ -	$ -	$ -	$ 4,424,561.58	$ -
$ 7,304,746.28	SR		SC-DDC-0900087	SSFM International, Inc.		6/30/12	$ 1,069,592.48	SR		$ 774,745.75	$ -	$ 7,304,746.28	$ -	$ 1,069,592.48	$ -	$ 9,149,084.51	$ -
$ 3,381,363.88	SR		SC-DDC-1000046	Yogi Kwong Engineers LLC		4/30/12	$ 586,329.10	SR		$ 539,061.48	$ -	$ 3,381,363.88	$ -	$ 586,329.10	$ -	$ 4,506,754.46	$ -
$ 6,241,345.47	SR		SC-ENV-0700090	Engineers Surveyors Hawaii, Inc.		8/1/11	$ 1,047,162.38	SR		$ 1,436,074.21	$ -	$ 6,241,345.47	$ -	$ 1,047,162.38	$ -	$ 8,724,582.06	$ -
$ 801,285.24	SR		None							$ 492,079.00	$ -	$ 801,285.24	$ -	$ -	$ -	$ 1,293,364.24	$ -
										$ 16,561.00	$ -	$ -	$ -	$ -	$ -	$ 16,561.00	$ -
$ 7,003,598.84	SR		SC-ENV-0700087	Engineers Surveyors Hawaii, Inc.		8/15/12	$ 621,062.27	SR		$ -	$ -	$ 7,003,598.84	$ -	$ 621,062.27	$ -	$ 7,624,661.11	$ -
$ 3,409,062.57	SR		None							$ 471,003.00	$ -	$ 3,409,062.57	$ -	$ -	$ -	$ 3,880,065.57	$ -
$ 9,094,847.89	SR		SC-DDC-0900088	Engineers Surveyors Hawaii, Inc.		5/29/12	$ 1,346,534.86	SR		$ 1,454,026.85	$ -	$ 9,094,847.89	$ -	$ 1,346,534.86	$ -	$ 11,895,409.60	$ -
$ 3,536,805.87	SR		SC-ENV-0700059	Yogi Kwong Engineers LLC		1/10/14	$ 884,269.40	SR		$ 2,544,726.00	$ -	$ 3,536,805.87	$ -	$ 884,269.40	$ -	$ 6,965,801.27	$ -
										$ 3,889,272.36	$ -	$ -	$ -	$ -	$ -	$ 3,889,272.36	$ -
$ 10,406,855.24	SR		SC-DDC-0700035	Bowers + Kubota Consulting			$ 3,231,924.05	SR		$ -	$ -	$ 10,406,855.24	$ -	$ 3,231,924.05	$ -	$ 13,638,779.29	$ -
$ 10,580,913.23	SR		SC-DDC-0700035	Bowers + Kubota Consulting						$ -	$ -	$ 10,580,913.23	$ -	$ -	$ -	$ 10,580,913.23	$ -
$ 8,833,257.50	SR		SC-DDC-0700035	Bowers + Kubota Consulting						$ -	$ -	$ 8,833,257.50	$ -	$ -	$ -	$ 8,833,257.50	$ -
$ 2,230,469.73	SR		SC-DDC-0700035	Bowers + Kubota Consulting						$ -	$ -	$ 2,230,469.73	$ -	$ -	$ -	$ 2,230,469.73	$ -
$ 3,489,907.60	SR		SC-DDC-0700035	Bowers + Kubota Consulting						$ -	$ -	$ 3,489,907.60	$ -	$ -	$ -	$ 3,489,907.60	$ -
$ 2,901,268.60	SR		SC-DDC-0700035	Bowers + Kubota Consulting						$ -	$ -	$ 2,901,268.60	$ -	$ -	$ -	$ 2,901,268.60	$ -
$ 5,926,408.49	SR		SC-DDC-0700035	Bowers + Kubota Consulting						$ -	$ -	$ 5,926,408.49	$ -	$ -	$ -	$ 5,926,408.49	$ -
$ 3,654,084.50	SR		SC-DDC-0700035	Bowers + Kubota Consulting						$ -	$ -	$ 3,654,084.50	$ -	$ -	$ -	$ 3,654,084.50	$ -
$ 2,913,950.98	SR		SC-DDC-0700035	Bowers + Kubota Consulting						$ -	$ -	$ 2,913,950.98	$ -	$ -	$ -	$ 2,913,950.98	$ -
$ 459,818.02	SW		None							$ -	$ -	$ -	$ 459,818.02	$ -	$ -	$ -	$ 459,818.02
$ 404,518.60	SR		None							$ -	$ -	$ 404,518.60	$ -	$ -	$ -	$ 404,518.60	$ -
$ 7,977,191.05	SR		None							$ 1,085,661.00	$ -	$ 7,977,191.05	$ -	$ -	$ -	$ 9,062,852.05	$ -
										$ 204,000.00	$ -	$ -	$ -	$ -	$ -	$ 204,000.00	$ -
										$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
$ 11,789,241.00	SR		None							$ 519,400.00	$ -	$ 11,789,241.00	$ -	$ -	$ -	$ 12,308,641.00	$ -
$ 4,579,558.33	SR		None							$ -	$ -	$ 4,579,558.33	$ -	$ -	$ -	$ 4,579,558.33	$ -
$ 3,507,910.18	SR		None							$ 410,301.98	$ -	$ 3,507,910.18	$ -	$ -	$ -	$ 3,918,212.16	$ -
$ 9,667,677.28	SR		None							$ -	$ -	$ 9,667,677.28	$ -	$ -	$ -	$ 9,667,677.28	$ -
$ 324,012.00	SR		None							$ 201,029.28	$ -	$ 324,012.00	$ -	$ -	$ -	$ 525,041.28	$ -
										$ 59,746.00	$ -	$ -	$ -	$ -	$ -	$ 59,746.00	$ -
			None							$ -	$ 1,127,848.12	$ -	$ -	$ -	$ -	$ -	$ 1,127,848.12
$ 2,204,408.75	SR		None							$ 659,010.00	$ -	$ 2,204,408.75	$ -	$ -	$ -	$ 2,863,418.75	$ -
$ 9,427,117.68	SR		SC-DDC-1100076	Engineers Surveyors Hawaii, Inc.		12/12/14	$ 1,932,585.12	SR		$ 962,354.18	$ -	$ 9,427,117.68	$ -	$ 1,932,585.12	$ -	$ 12,322,056.98	$ -
$ 1,799,214.22	SR		None							$ 607,000.00	$ -	$ 1,799,214.22	$ -	$ -	$ -	$ 2,406,214.22	$ -
										$ 676,544.15	$ -	$ -	$ -	$ -	$ -	$ 676,544.15	$ -
$ 13,211,773.80	SW		None							$ 295,130.35	$ -	$ -	$ 13,211,773.80	$ -	$ -	$ 295,130.35	$ 13,211,773.80
$ 538,158.33	SR		None							$ -	$ -	$ 538,158.33	$ -	$ -	$ -	$ 538,158.33	$ -
$ 14,222,421.64	SR		SC-ENV-1900049	Carollo Engineers, Inc.			$ 2,248,185.88	SR		$ -	$ 2,015,715.69	$ 14,222,421.64	$ -	$ 2,248,185.88	$ -	$ 16,470,607.52	$ 2,015,715.69
$ 6,212,904.89	SR		None							$ 488,375.00	$ -	$ 6,212,904.89	$ -	$ -	$ -	$ 6,701,279.89	$ -
$ 4,986,152.33	SR		None							$ -	$ -	$ 4,986,152.33	$ -	$ -	$ -	$ 4,986,152.33	$ -
$ 6,416,882.04	SR		SC-ENV-0700100	URS Corporation			$ 772,045.56	SR		$ 719,281.86	$ -	$ 6,416,882.04	$ -	$ 772,045.56	$ -	$ 7,908,209.46	$ -
$ 2,244,163.40	SR		None							$ -	$ -	$ 2,244,163.40	$ -	$ -	$ -	$ 2,244,163.40	$ -
$ 11,424,630.00	SR		F63287	Yogi Kwong Engineers LLC		2/28/14	$ 2,499,990.05	SR		$ 1,162,524.35	$ -	$ 11,424,630.00	$ -	$ 2,499,990.05	$ -	$ 15,087,144.40	$ -
$ 3,129,642.15	SR		None							$ 497,225.84	$ -	$ 3,129,642.15	$ -	$ -	$ -	$ 3,626,867.99	$ -
										$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
										$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
$ 994,287.84	SR		SC-ENV-0700049	Herbert Chock & Associates, Inc. dba HCA		9/28/12	$ 618,445.19	SR		$ 1,010,524.63	$ -	$ 994,287.84	$ -	$ 618,445.19	$ -	$ 2,623,257.66	$ -
$ 293,739.60	SR		None							$ -	$ -	$ 293,739.60	$ -	$ -	$ -	$ 293,739.60	$ -
$ 1,178,700.20	SW		None							$ -	$ -	$ -	$ 1,178,700.20	$ -	$ -	$ -	$ 1,178,700.20
										$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
$ 7,532,563.79	SR		None							$ -	$ 5,856,019.10	$ 7,532,563.79	$ -	$ -	$ -	$ 7,532,563.79	$ 5,856,019.10
$ 2,176,664.15	SR		None							$ 121,000.00	$ -	$ 2,176,664.15	$ -	$ -	$ -	$ 2,297,664.15	$ -
$ 10,365,055.05	SR		SC-ENV-0700069	URS Corporation		3/17/15	$ 1,700,245.34	SR		$ 1,475,000.00	$ -	$ 10,365,055.05	$ -	$ 1,700,245.34	$ -	$ 13,540,300.39	$ -
										$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
$ 746,209.68	SR		SC-DDC-1200050	Bowers + Kubota Consulting			$ 984,881.98	SR		$ 1,253,409.37	$ -	$ 746,209.68	$ -	$ 984,881.98	$ -	$ 2,984,501.03	$ -
$ 3,034,864.23	SR		None							$ 163,022.19	$ -	$ 3,034,864.23	$ -	$ -	$ -	$ 3,197,886.42	$ -
$ 5,278,551.80	SR		SC-DDC-1700042	The Limtiaco Consulting Group, Inc.		2/23/21	$ 984,539.69	SR		$ 1,632,197.80	$ -	$ 5,278,551.80	$ -	$ 984,539.69	$ -	$ 7,895,289.29	$ -
$ 5,516,193.87	SR		SC-DDC-1100097	SSFM International, Inc.		5/17/17	$ 1,579,357.06	SR		$ 362,754.00	$ -	$ 5,516,193.87	$ -	$ 1,579,357.06	$ -	$ 7,458,304.93	$ -
$ 43,065,485.40	SR		F63557	Community Planning & Engineering, Inc.		6/30/12	$ 2,163,000.00	SR		$ 1,942,926.85	$ -	$ 43,065,485.40	$ -	$ 2,163,000.00	$ -	$ 47,171,412.25	$ -
$ 1,000,906.64	SR		None							$ 1,879,930.00	$ -	$ 1,000,906.64	$ -	$ -	$ -	$ 2,880,836.64	$ -
$ 11,398,606.95	SR		None							$ -	$ 1,530,950.00	$ 11,398,606.95	$ -	$ -	$ -	$ 11,398,606.95	$ 1,530,950.00
$ 2,469,786.70	SR		None							$ 577,587.00	$ -	$ 2,469,786.70	$ -	$ -	$ -	$ 3,047,373.70	$ -
										$ 195,370.30	$ -	$ -	$ -	$ -	$ -	$ 195,370.30	$ -
$ 2,240,000.00	SR		None							$ 229,149.61	$ -	$ 2,240,000.00	$ -	$ -	$ -	$ 2,469,149.61	$ -
$ 2,199,871.26	SR		SC-DDC-1700033	Construction Management & Engineering		4/12/21	$ 499,868.72	SR		$ 1,252,291.74	$ -	$ 2,199,871.26	$ -	$ 499,868.72	$ -	$ 3,952,031.72	$ -
$ 46,362,124.11	SR		F63587	Bowers + Kubota Consulting		5/15/12	$ 2,619,694.55	SR		$ 1,198,143.85	$ -	$ 46,362,124.11	$ -	$ 2,619,694.55	$ -	$ 50,179,962.51	$ -
$ 18,161,422.15	SR		SC-DDC-0900113	Yogi Kwong Engineers LLC		9/29/12	$ 948,633.88	SR		$ 1,654,301.82	$ -	$ 18,161,422.15	$ -	$ 948,633.88	$ -	$ 20,764,357.85	$ -
$ 315,083.50	SR	$ 315,083.50	None							$ 692,752.00	$ -	$ 315,083.50	$ -	$ -	$ -	$ 1,007,835.50	$ -
$ 7,952,363.18	SR	$ 7,952,363.18	None							$ -	$ -	$ 7,952,363.18	$ -	$ -	$ -	$ 7,952,363.18	$ -
										$ 3,821,361.00	$ -	$ -	$ -	$ -	$ -	$ 3,821,361.00	$ -
$ 143,855.00	SR		None							$ -	$ -	$ 143,855.00	$ -	$ -	$ -	$ 143,855.00	$ -
$ 229,300.77	SR		None							$ -	$ -	$ 229,300.77	$ -	$ -	$ -	$ 229,300.77	$ -
$ 120,565,890.62	SR		SC-DDC-1200009	Yogi Kwong Engineers LLC			$ 6,178,291.26	SR		$ 5,864,407.76	$ -	$ 120,565,890.62	$ -	$ 6,178,291.26	$ -	$ 132,608,589.64	$ -
$ 1,867,227.80	SR		None							$ 3,112,981.00	$ -	$ 1,867,227.80	$ -	$ -	$ -	$ 4,980,208.80	$ -
$ 6,179,833.29	SR	$ 634,000.00	None							$ -	$ 1,433,694.53	$ 6,179,833.29	$ -	$ -	$ -	$ 6,179,833.29	$ 1,433,694.53
$ 46,622,787.04	SR		SC-DDC-0900108	AECOM Technical Services, Inc.			$ 3,766,864.57	SR		$ 1,268,091.00	$ -	$ 46,622,787.04	$ -	$ 3,766,864.57	$ -	$ 51,657,742.61	$ -
										$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
$ 4,622,023.90	SW		None							$ -	$ 5,205,000.00	$ -	$ 4,622,023.90	$ -	$ -	$ -	$ 9,827,023.90
										$ 5,989,268.40	$ -	$ -	$ -	$ -	$ -	$ 5,989,268.40	$ -
$ 6,325,683.68	SR		None							$ -	$ -	$ 6,325,683.68	$ -	$ -	$ -	$ 6,325,683.68	$ -
$ 292,885.31	SR		F60597	Herbert Chock & Associates, Inc. dba HCA Consulting			$ 591,164.57	SR		$ -	$ -	$ 292,885.31	$ -	$ 591,164.57	$ -	$ 884,049.88	$ -
$ 2,868,317.77	SR		None							$ -	$ 2,328,178.14	$ 2,868,317.77	$ -	$ -	$ -	$ 2,868,317.77	$ 2,328,178.14
$ 217,000.00			None							$ -	$ 1,302,000.00	$ -	$ -	$ -	$ -	$ -	$ 1,302,000.00
										$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
$ 1,840,872.63	SW		None							$ 500,000.00	$ -	$ -	$ 1,840,872.63	$ -	$ -	$ 500,000.00	$ 1,840,872.63
$ 1,105,438.56	SW		None							$ -	$ -	$ -	$ 1,105,438.56	$ -	$ -	$ -	$ 1,105,438.56
$ 4,870,330.10	SW	$ 10,720,019.34	None							$ 3,701,000.00	$ -	$ -	$ 4,870,330.10	$ -	$ -	$ 3,701,000.00	$ 4,870,330.10
$ 249,500.00	SR		None							$ -	$ -	$ 249,500.00	$ -	$ -	$ -	$ 249,500.00	$ -
$ 12,481,205.52	SR		SC-ENV-1800036	Yogi Kwong Engineers LLC			$ 1,500,000.00	SW		$ -	$ 3,306,000.00	$ 12,481,205.52	$ -	$ -	$ 1,500,000.00	$ 12,481,205.52	$ 4,806,000.00
$ 6,648,055.10	SW		None							$ -	$ -	$ -	$ 6,648,055.10	$ -	$ -	$ -	$ 6,648,055.10
$ 2,884,646.01	SR		SC-DDC-1500061	SSFM International, Inc.			$ 665,347.60	SR		$ 749,119.00	$ -	$ 2,884,646.01	$ -	$ 665,347.60	$ -	$ 4,299,112.61	$ -
										$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
										$ 1,395,850.00	$ -	$ -	$ -	$ -	$ -	$ 1,395,850.00	$ -
										$ 3,405,870.70	$ -	$ -	$ -	$ -	$ -	$ 3,405,870.70	$ -
										$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
$ 418,319.00	SR		None							$ -	$ -	$ 418,319.00	$ -	$ -	$ -	$ 418,319.00	$ -
			None							$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
$ 2,511,596.58	SR	$ 2,511,596.58	None							$ 1,213,592.66	$ -	$ 2,511,596.58	$ -	$ -	$ -	$ 3,725,189.24	$ -
										$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
										$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
										$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
										$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
										$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
										$ 18,704,900.00	$ -	$ -	$ -	$ -	$ -	$ 18,704,900.00	$ -
$ 18,773,868.50	SR		SC-DDC-1300082	Bowers + Kubota Consulting			$ 865,859.86	SR		$ -	$ -	$ 18,773,868.50	$ -	$ 865,859.86	$ -	$ 19,639,728.36	$ -
										$ -	$ 1,011,790.31	$ -	$ -	$ -	$ -	$ -	$ 1,011,790.31
$ 1,537,247.35	SW		None							$ -	$ -	$ -	$ 1,537,247.35	$ -	$ -	$ -	$ 1,537,247.35
$ 153,203,616.37	SR		SC-DDC-1300053	Bowers + Kubota Consulting	12/31/20	9/30/20	$ 20,820,258.28	SR		$ 29,731,296.11	$ -	$ 153,203,616.37	$ -	$ 20,820,258.28	$ -	$ 203,755,170.76	$ -
$ 194,500,000.00	SR		SC-DDC-1300053	Bowers + Kubota Consulting	12/31/20	9/30/20				$ 18,430,522.19	$ -	$ 194,500,000.00	$ -	$ -	$ -	$ 212,930,522.19	$ -
$ 14,518,377.17	SW		SC-ENV-1900031	Bowers + Kubota Consulting			$ 1,792,983.30	SW		$ -	$ 1,602,000.00	$ -	$ 14,518,377.17	$ -	$ 1,792,983.30	$ -	$ 17,913,360.47
										$ 779,363.67	$ -	$ -	$ -	$ -	$ -	$ 779,363.67	$ -
$ 332,235.24	SR		None							$ -	$ -	$ 332,235.24	$ -	$ -	$ -	$ 332,235.24	$ -
$ 4,739,485.12	SR		SC-DDC-1000156	SSFM International, Inc.			$ 1,003,335.08	SR		$ 6,448,533.00	$ -	$ 4,739,485.12	$ -	$ 1,003,335.08	$ -	$ 12,191,353.20	$ -
$ 472,632.00	SR		F60597	Herbert Chock & Associates, Inc. dba HCA Consulting Group International						$ -	$ -	$ 472,632.00	$ -	$ -	$ -	$ 472,632.00	$ -
										$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
										$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
$ 279,910,856.77	SR	$ 274,873,092.80	SC-ENV-1900025	Bowers + Kubota Consulting			$ 6,385,159.74	SR		$ -	$ 70,084,491.52	$ 279,910,856.77	$ -	$ 6,385,159.74	$ -	$ 286,296,016.51	$ 70,084,491.52
$ 8,765,744.05	SR		SC-ENV-0700064	KFC Engineering Management, Inc. dba Bowers & Ku			$ 6,014,196.45	SR		$ 1,004,237.00	$ -	$ 8,765,744.05	$ -	$ 6,014,196.45	$ -	$ 15,784,177.50	$ -
$ 291,881,836.66	SR	$ 427,054,558.70	SC-ENV-2100014	Yogi Kwong Engineers LLC			$ 10,908,352.12	SR		$ -	$ 30,713,509.84	$ 291,881,836.66	$ -	$ 10,908,352.12	$ -	$ 302,790,188.78	$ 30,713,509.84
										$ -	$ 4,870,340.22	$ -	$ -	$ -	$ -	$ -	$ 4,870,340.22