



SANTA ANA WATERSHED  
PROJECT AUTHORITY

# FYE 2026 and 2027 Brine Line Draft Budget



# Brine Line Operations & Capital Budget



# What is the Brine Line?

- The Inland Empire Brine Line (IEBL) is a 73 mile-long regional brine line designed to convey 30 million gallons per day of non-reclaimable waste water from the upper Santa Ana River Basin to the Pacific Ocean for disposal after treatment
- It was built as the fundamental method of salt export for the region
- Pipeline ranges in age from 23 to 51 years
  - Reach 4 was constructed in the mid-70's (around 1974)
  - Reaches 4A and 4B were constructed in the early 1980's (1982)
  - Reaches 4D and 4E were constructed in the early 1990's (1994)
  - Reach 5 was constructed in the early 2000's (2002). Rehab in 2017
- Pipe diameters range from 16 inch to 48 inch

# Inland Empire Brine Line

— Brine Line Laterals

## Brine Line REACH

— IV

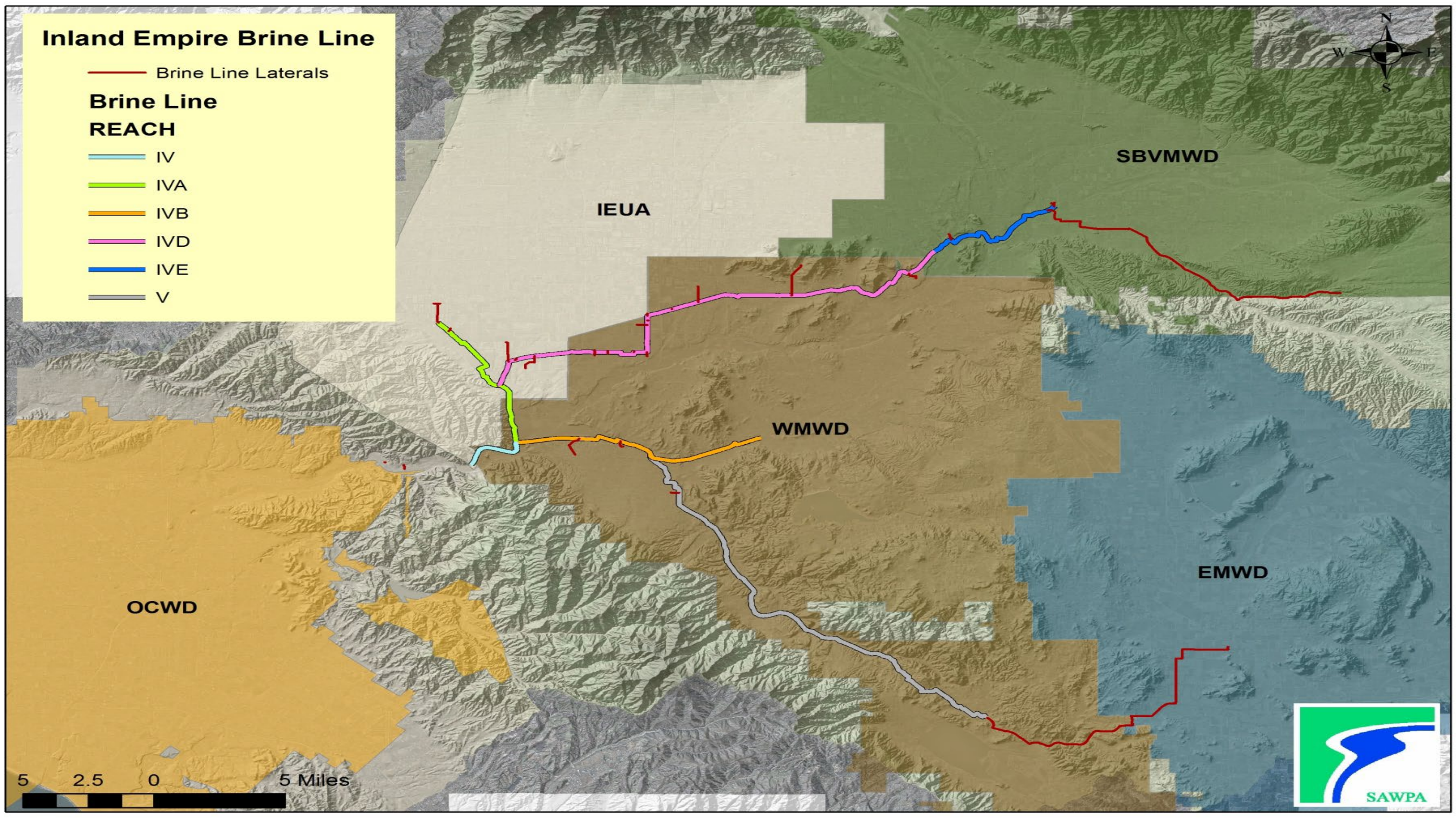
— IVA

— IVB

— IVD

— IVE

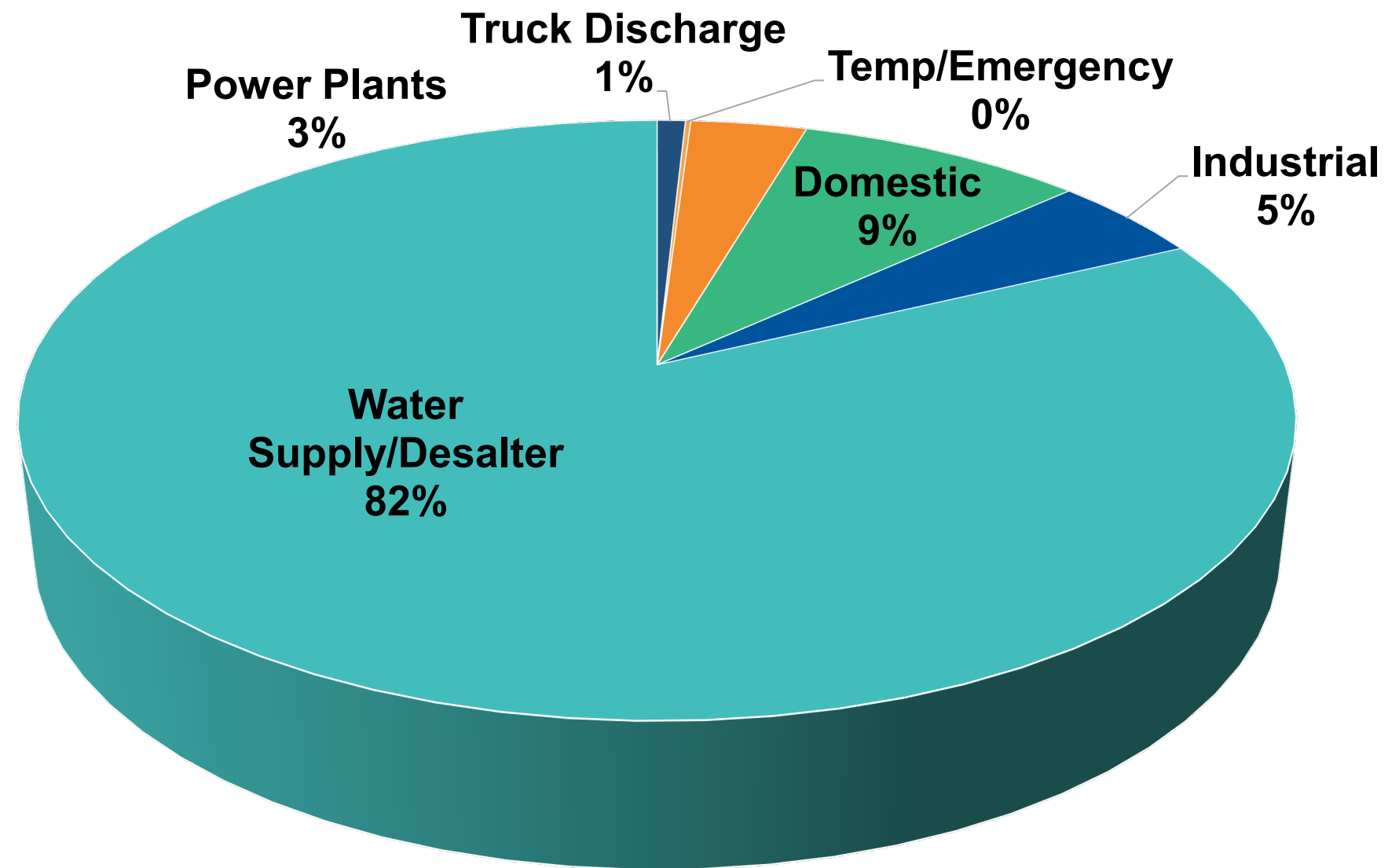
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5 2.5 0 5 Miles



# Who Uses the Brine Line?



# Historical Revenues & Expenses

|        | FYE   | Revenues     | Expenses       | Fund Balance Contributions to/ (use of) |
|--------|-------|--------------|----------------|---|
| Actual | 2022  | \$12,540,991 | (\$10,440,350) | \$2,100,641                             |
|        | 2023  | 13,875,754   | (10,184,342)   | 3,691,412                               |
|        | 2024* | 17,646,184   | (12,116,379)   | 5,529,805                               |
| Budget | 2025  | 13,078,112   | (13,078,112)   | 0                                       |
|        | 2026  | 14,538,465   | (14,538,465)   | 0                                       |
|        | 2027  | 15,104,122   | (15,104,122)   | 0                                       |

\*Includes one-time Capital Contribution for Agua Mansa Loan and cost share of \$2.2 million

# Historical Revenues & Expenses

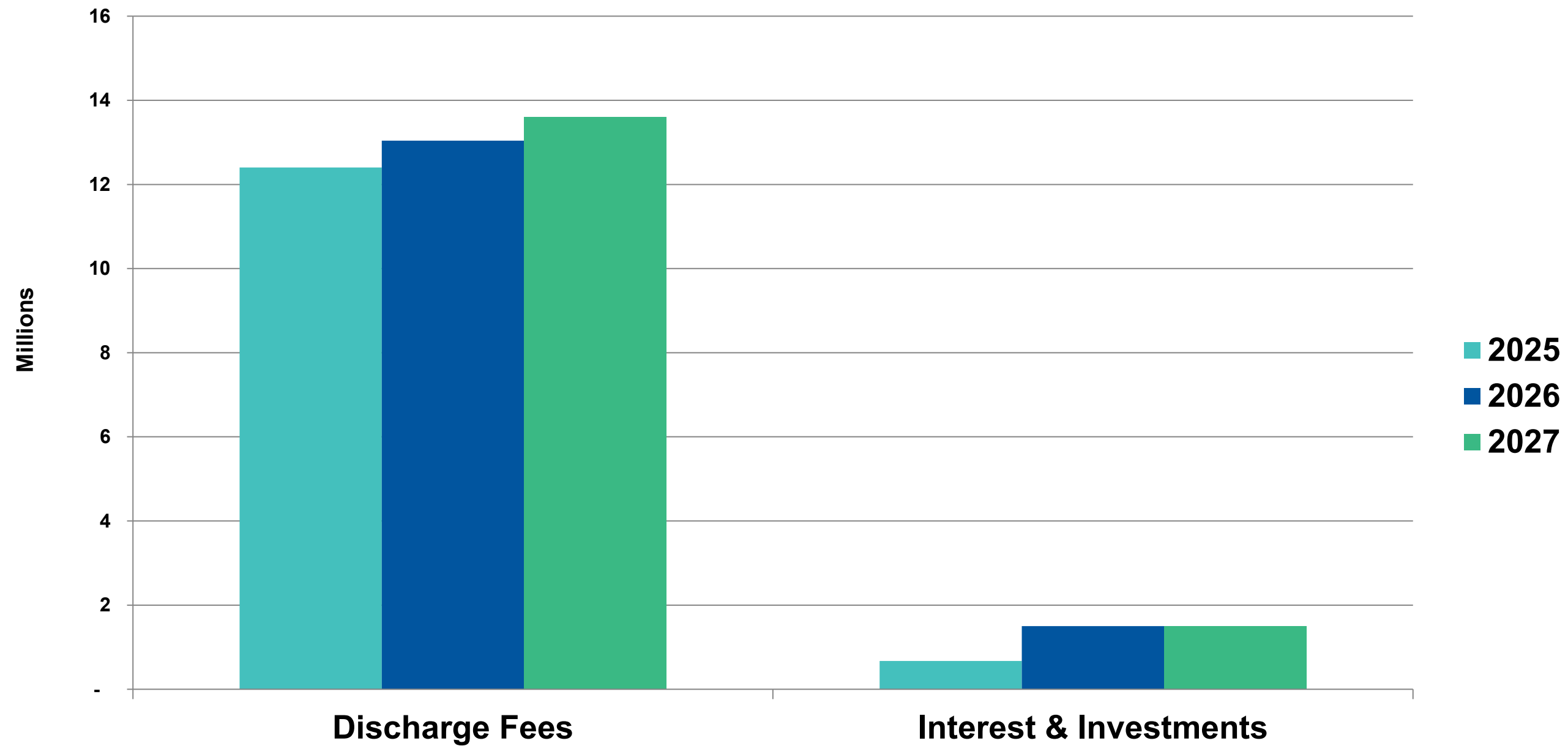


# Historical Flows

|        | <b>FYE</b> | <b>Total Flows (MGD)</b> |
|--------|------------|--------------------------|
| Actual | 2022       | 4,035                    |
|        | 2023       | 4,527                    |
|        | 2024       | 4,579                    |
| Budget | 2025       | 4,161                    |
|        | 2026       | 4,380                    |
|        | 2027       | 4,490                    |



# Brine Line Enterprise Revenues

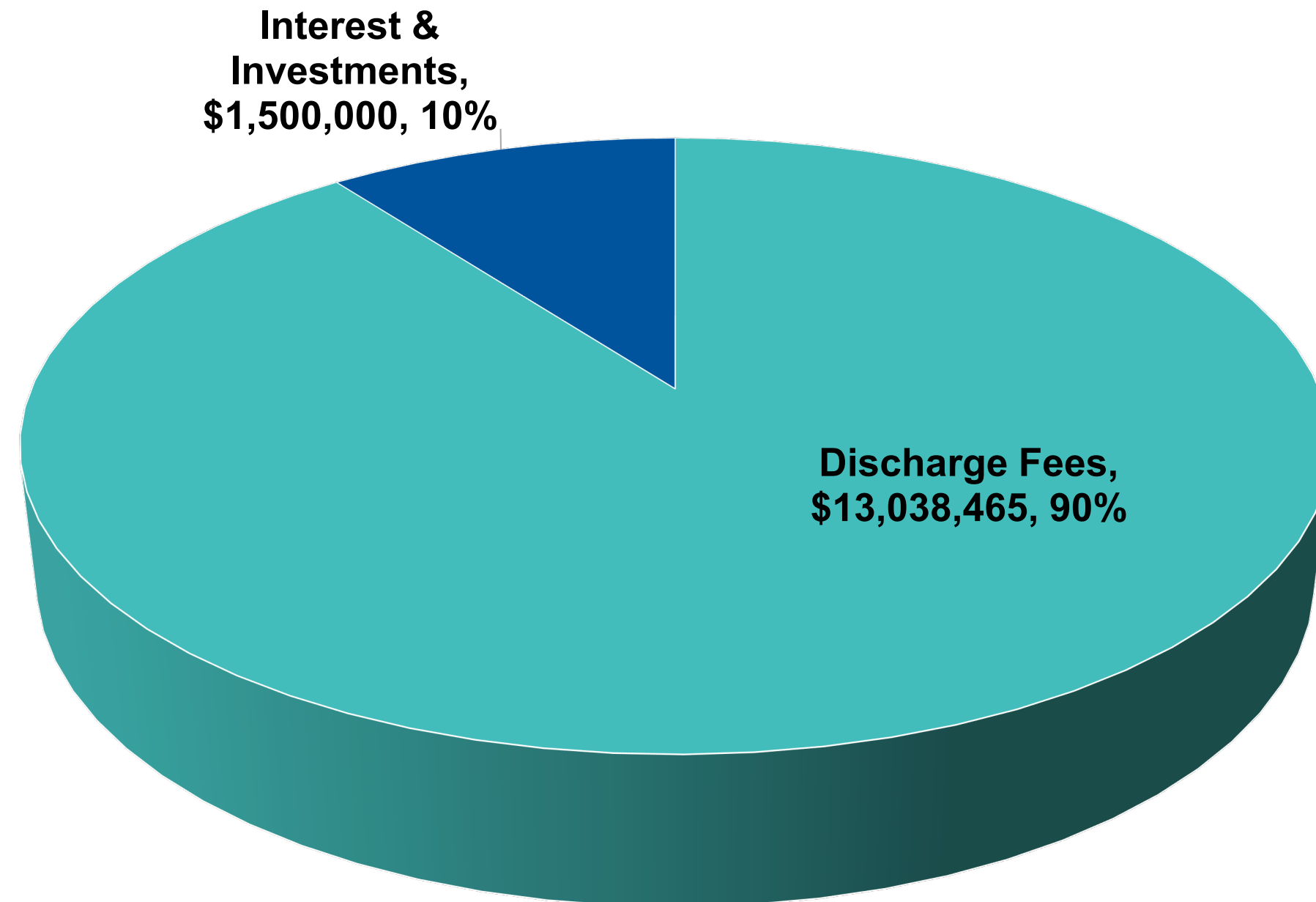


# Brine Line Enterprise Revenues

| Revenue                        | FYE 2025            | FYE 2026            | FYE 2027            |
|--------------------------------|---------------------|---------------------|---------------------|
| Discharge Fees                 | \$12,405,112        | \$13,038,465        | \$13,604,122        |
| Interest & Investments         | 673,000             | 1,500,000           | 1,500,000           |
| <b>Total</b>                   | <b>\$13,078,112</b> | <b>\$14,538,465</b> | <b>\$15,104,122</b> |
| Flow (MGs) per year            | 4,161               | 4,380               | 4,490               |
| BOD (1,000 lbs.)               | 1,050               | 1,050               | 1,100               |
| TSS per (1,000 lbs.)           | 2,600               | 3,000               | 3,100               |
| Truck Discharge (MGs) per year | 30.6                | 32.0                | 35.2                |

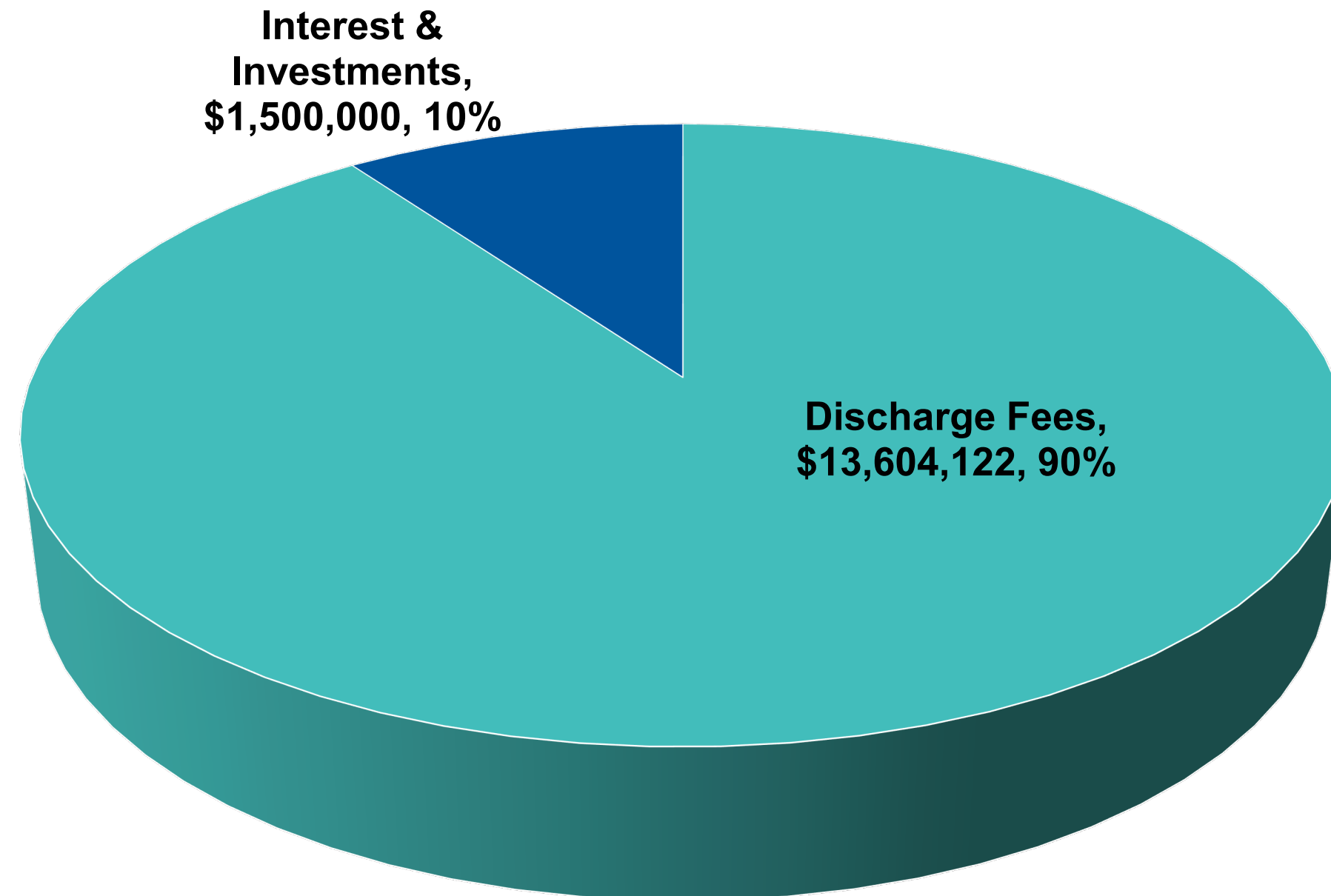
# FYE 2026

## Brine Line Revenues - \$14.5 Million

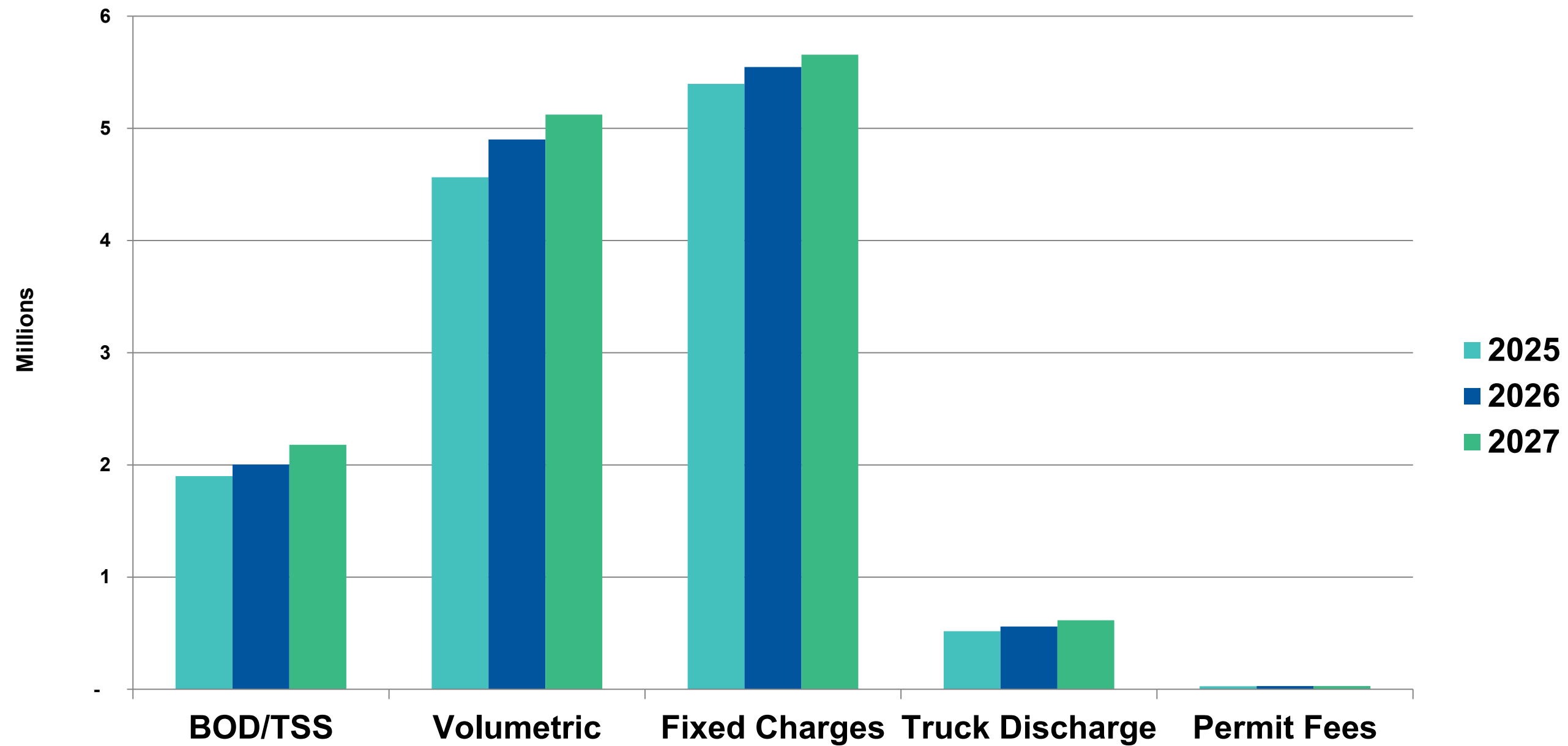


# FYE 2027

## Brine Line Revenues - \$15.1 Million



# Discharge Fees

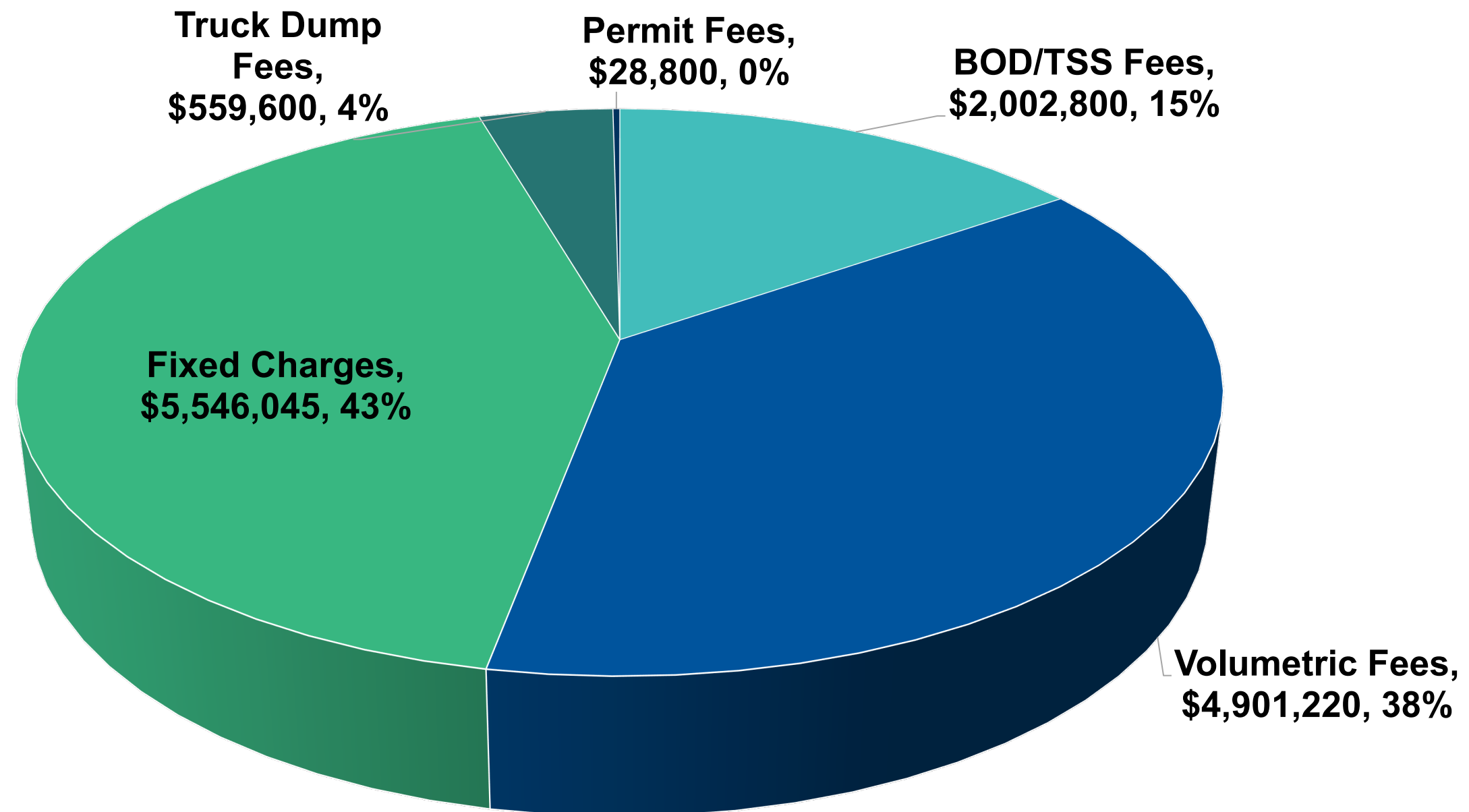


# Discharge Fees

| Revenue         | FYE 2025            | FYE 2026            | % Diff      | FYE 2027            | % Diff      |
|-----------------|---------------------|---------------------|-------------|---------------------|-------------|
| BOD/TSS Fees    | \$1,900,850         | \$2,002,800         | 5.4%        | \$2,179,500         | 8.8%        |
| Volumetric Fees | 4,564,617           | 4,901,220           | 7.4%        | 5,123,090           | 4.5%        |
| Fixed Charges   | 5,396,025           | 5,546,045           | 2.8%        | 5,657,172           | 2.0%        |
| Truck Dump Fees | 517,020             | 559,600             | 8.2%        | 615,560             | 10.0%       |
| Permit Fees     | 26,600              | 28,800              | 8.3%        | 28,800              | 0.0%        |
| <b>Total</b>    | <b>\$12,405,112</b> | <b>\$13,038,465</b> | <b>5.1%</b> | <b>\$13,604,122</b> | <b>4.3%</b> |

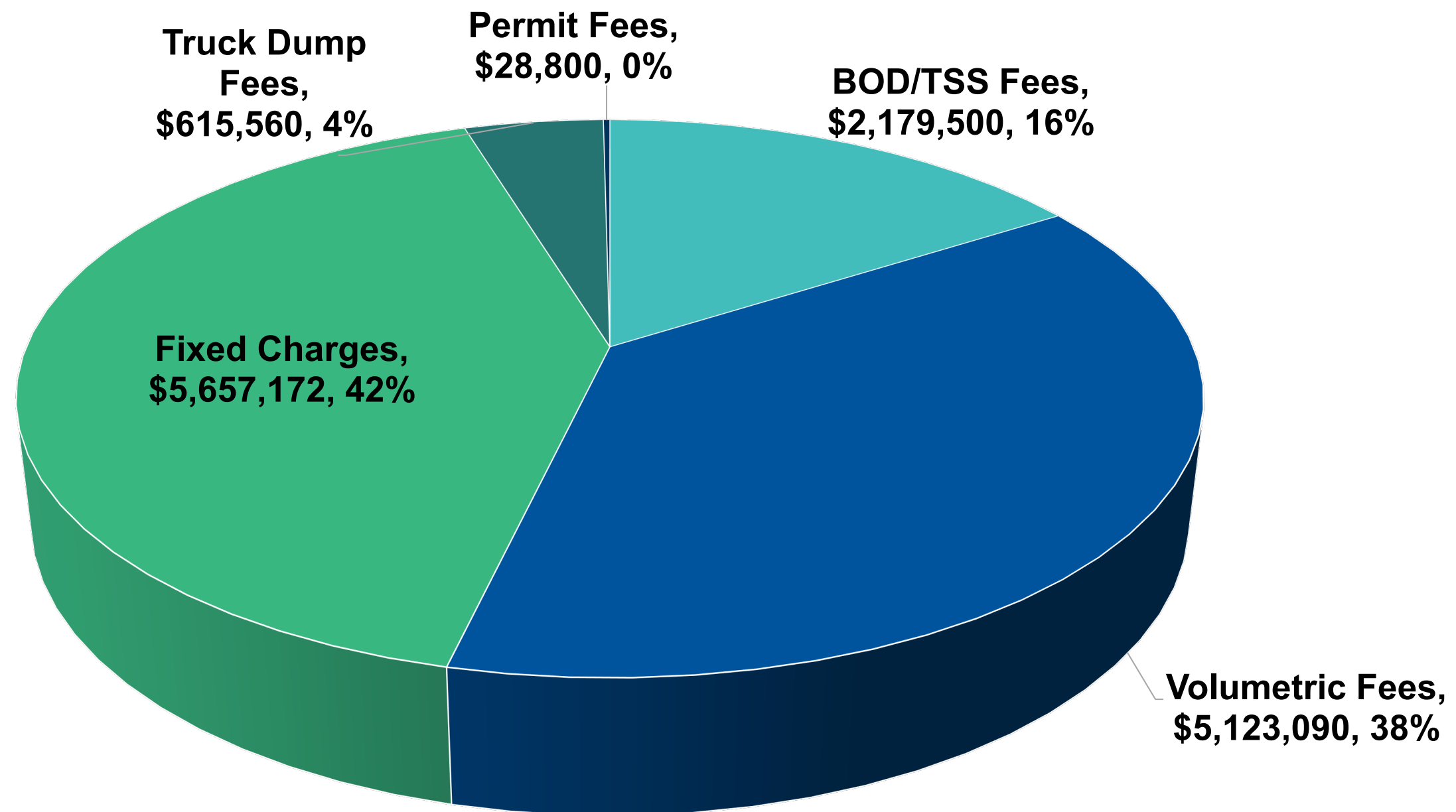
# FYE 2026

## Discharge Fees - \$13.0 Million



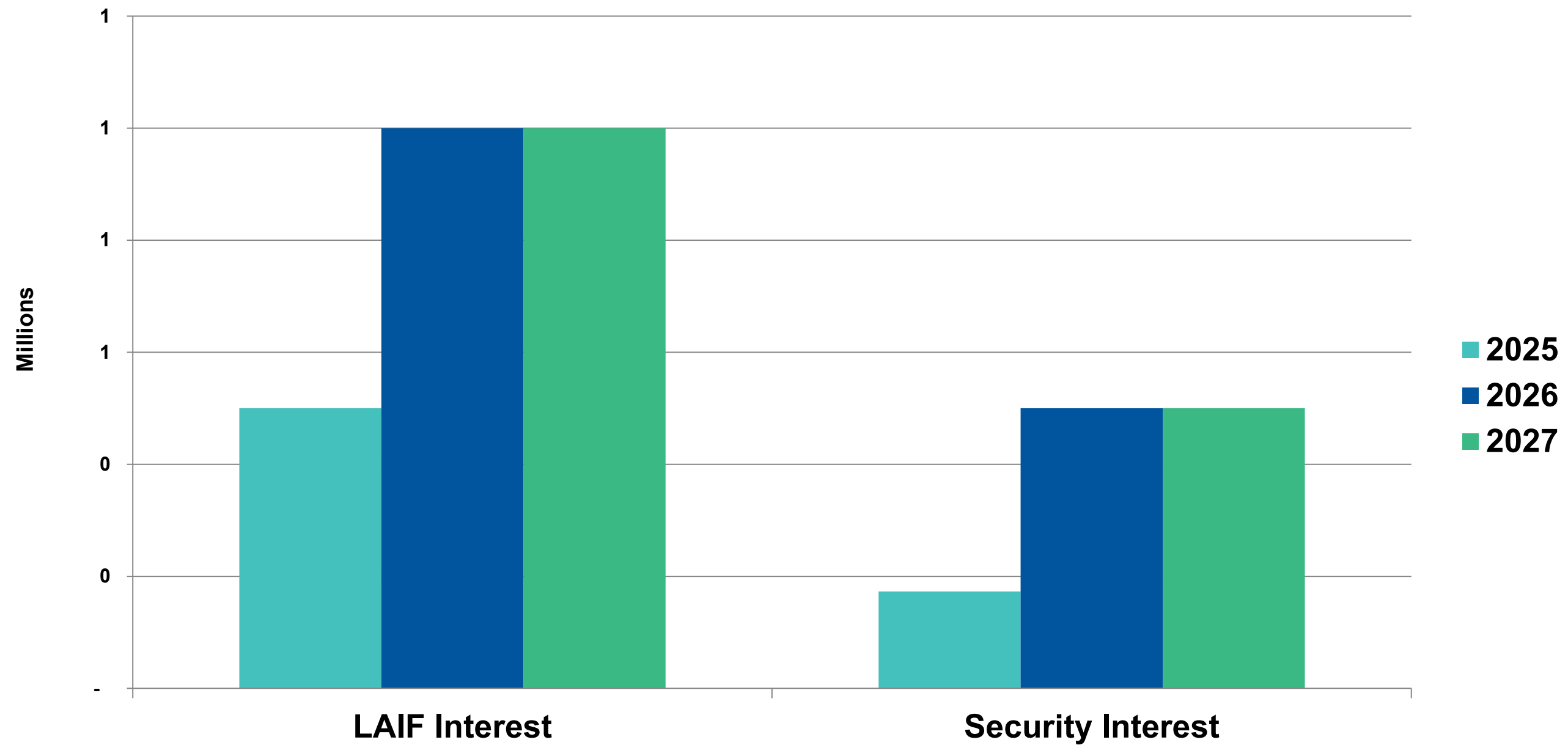
# FYE 2027

## Discharge Fees - \$13.6 Million



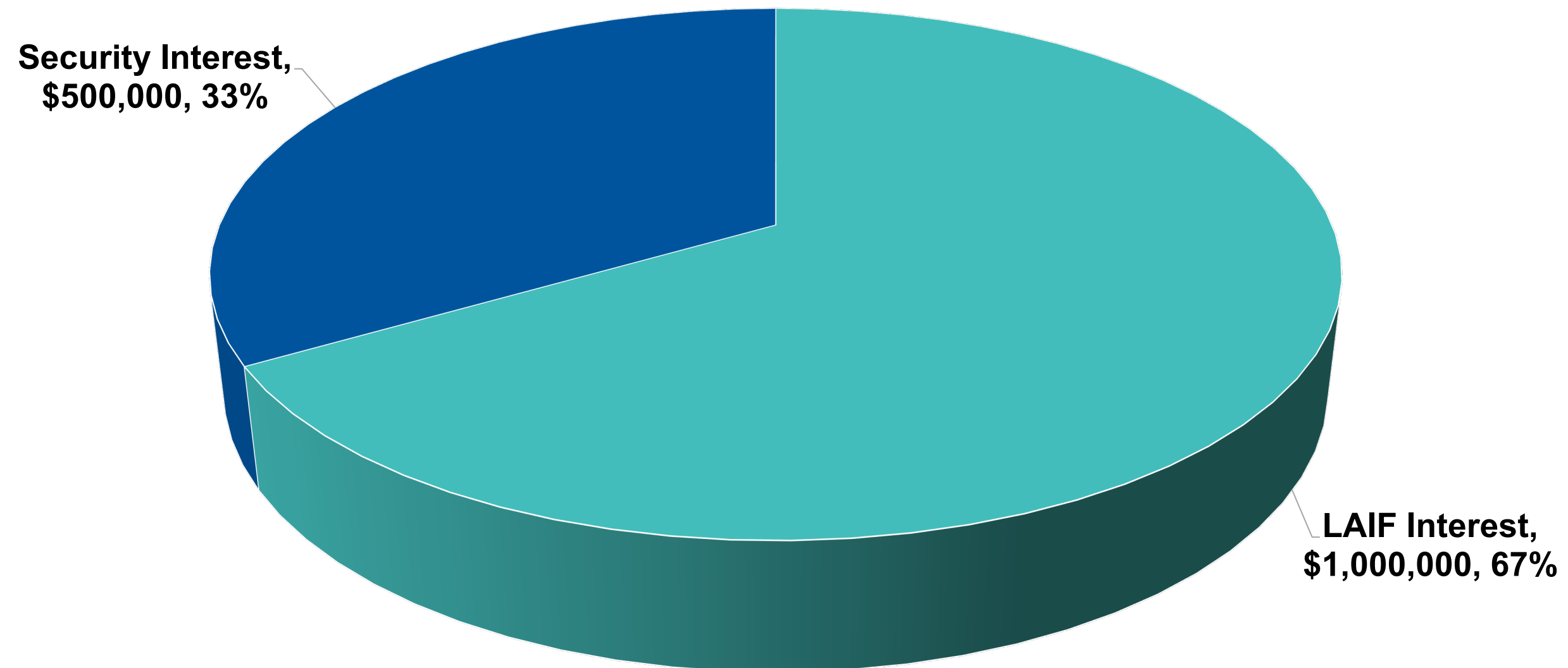


# Interest & Investments



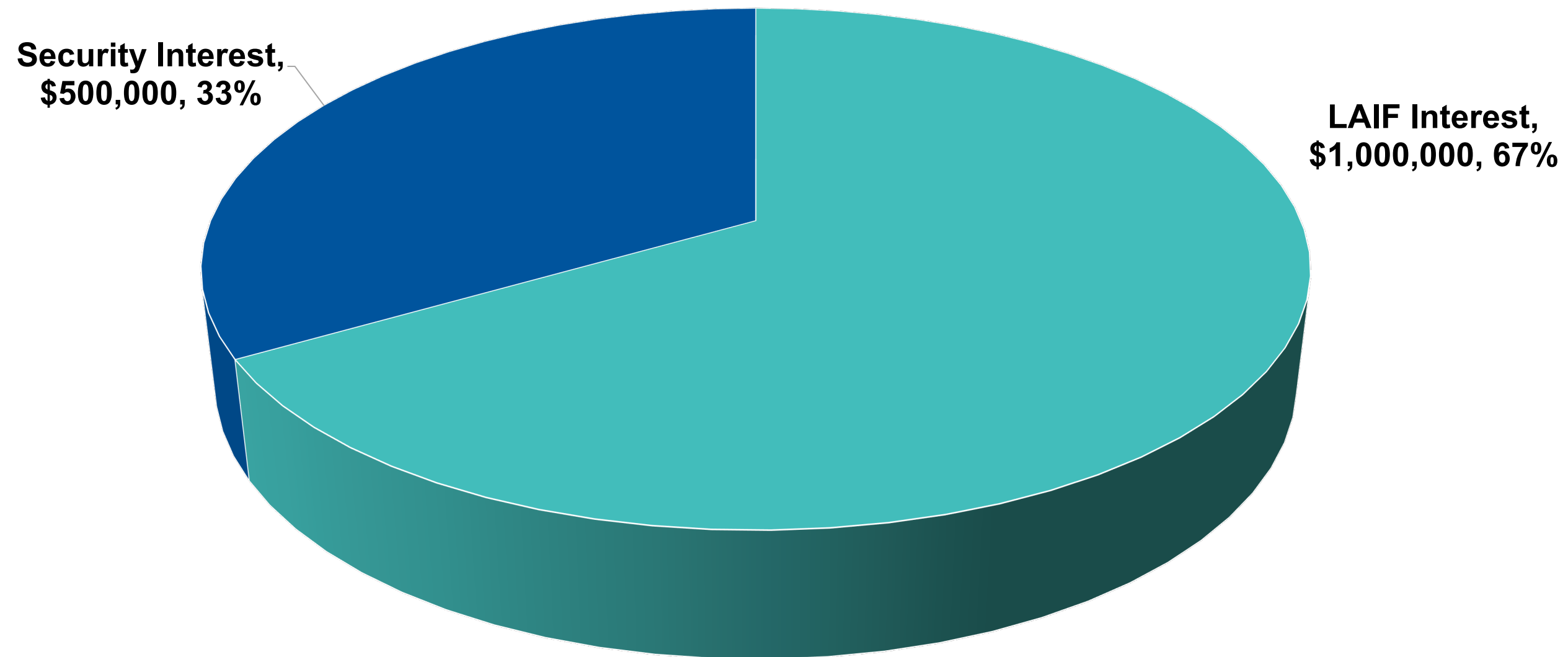
# FYE 2026

## Interest & Investments - \$1.5 Million

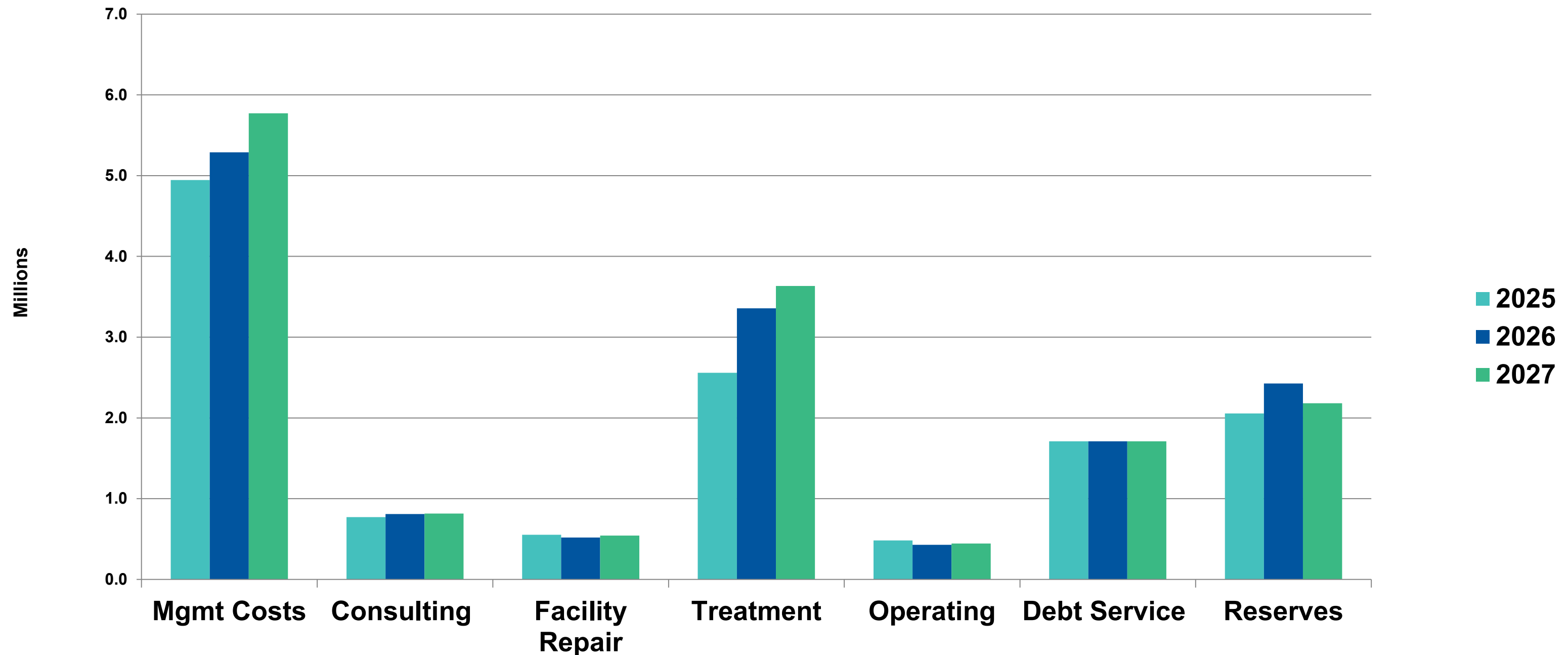


# FYE 2027

## Interest & Investments - \$1.5 Million



# Brine Line Enterprise Expenses



# Brine Line Enterprise Expenses

| Expense          | FYE 2025            | FYE 2026            | % Diff       | FYE 2027            | % Diff      |
|------------------|---------------------|---------------------|--------------|---------------------|-------------|
| Management Costs | \$4,944,853         | \$5,289,285         | 7.0%         | \$5,772,925         | 9.1%        |
| Consulting       | 772,500             | 810,000             | 4.9%         | 815,750             | 0.7%        |
| Facility Repair  | 553,558             | 518,000             | -6.4%        | 543,750             | 5.0%        |
| Treatment Costs  | 2,558,621           | 3,356,220           | 31.2%        | 3,634,260           | 8.3%        |
| Operating Costs  | 483,318             | 429,260             | -11.2%       | 445,573             | 3.8%        |
| Debt Service     | 1,709,476           | 1,709,476           | 0.0%         | 1,709,476           | 0.0%        |
| Reserves         | 2,055,786           | 2,426,224           | 18.0%        | 2,182,388           | -10.1%      |
| <b>Total</b>     | <b>\$13,078,112</b> | <b>\$14,538,465</b> | <b>11.2%</b> | <b>\$15,104,122</b> | <b>3.9%</b> |

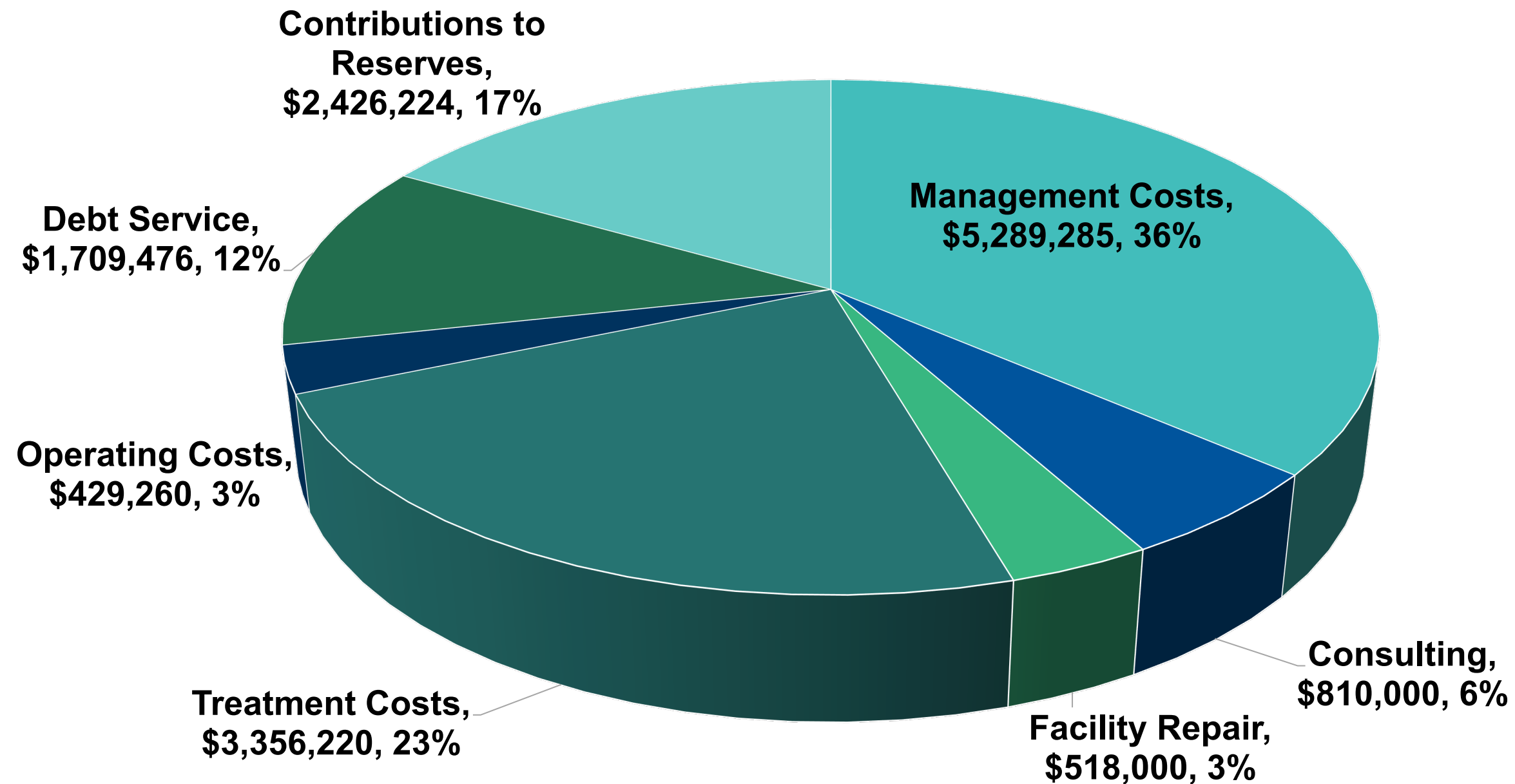
# Consulting

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- **Hydraulic model support**
- **Engineering support (design repairs)**
- **Scale evaluation, solids control, sampling evaluation**
- **Right of way, surveyor support, as built drawings**
- **Field support (developer coordination, construction observation)**
- **Traffic control**
- **Topographic mapping/field survey**
- **Evaluation of impacts due to scouring and erosion**
- **SCADA system work plan**
- **Offline storage feasibility study**
- **Green hydrogen feasibility study**
- **Evaluate brine management technologies**
- **PFAS monitoring and evaluation**

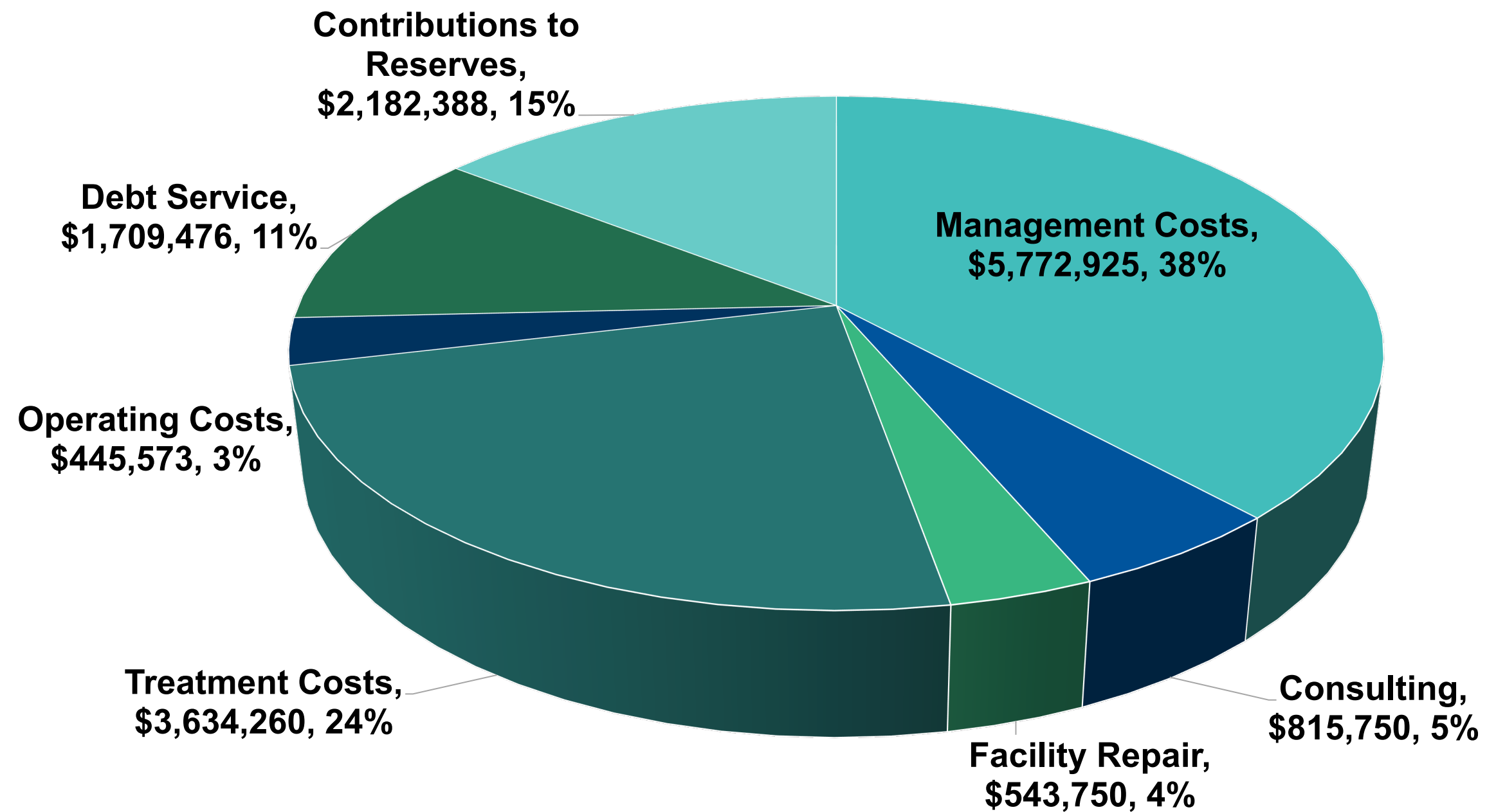
# FYE 2026

## Brine Line Expenses - \$14.5 Million



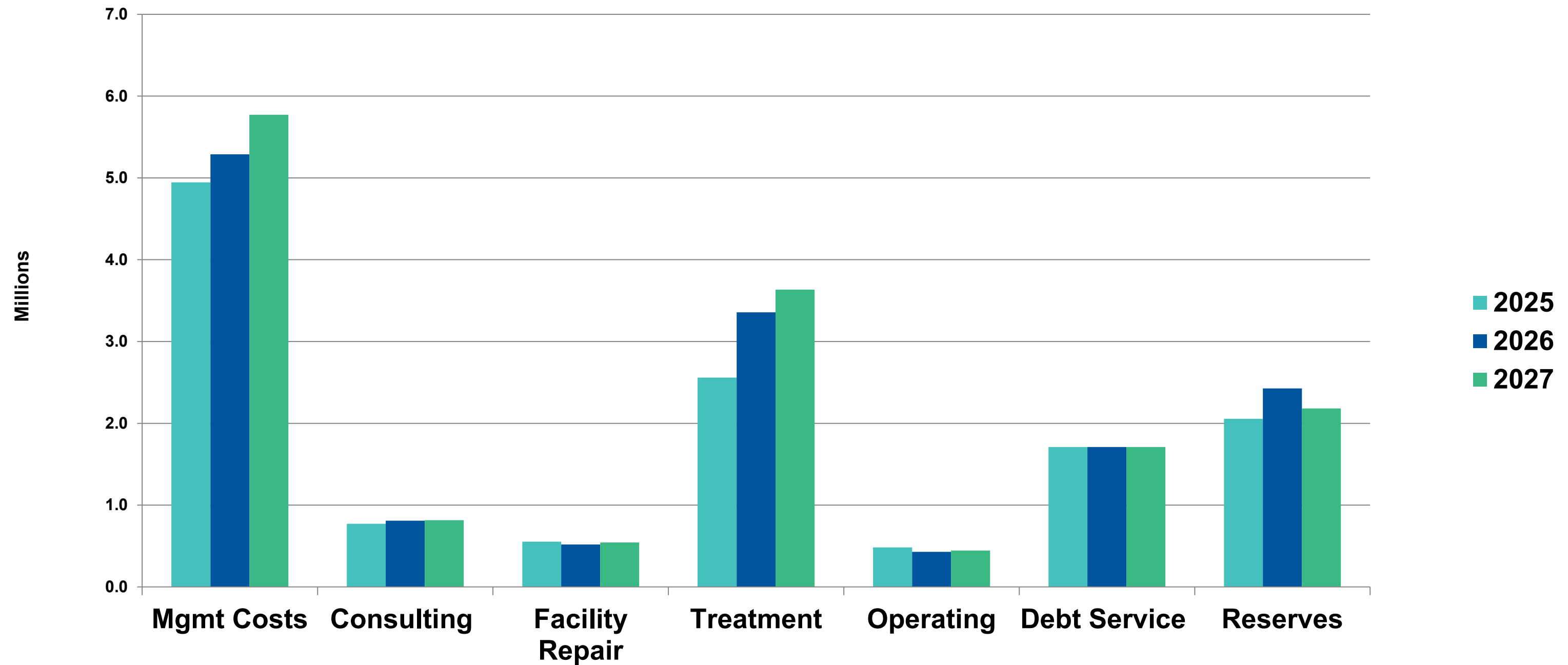
# FYE 2027

## Brine Line Expenses - \$15.1 Million





# Management Costs

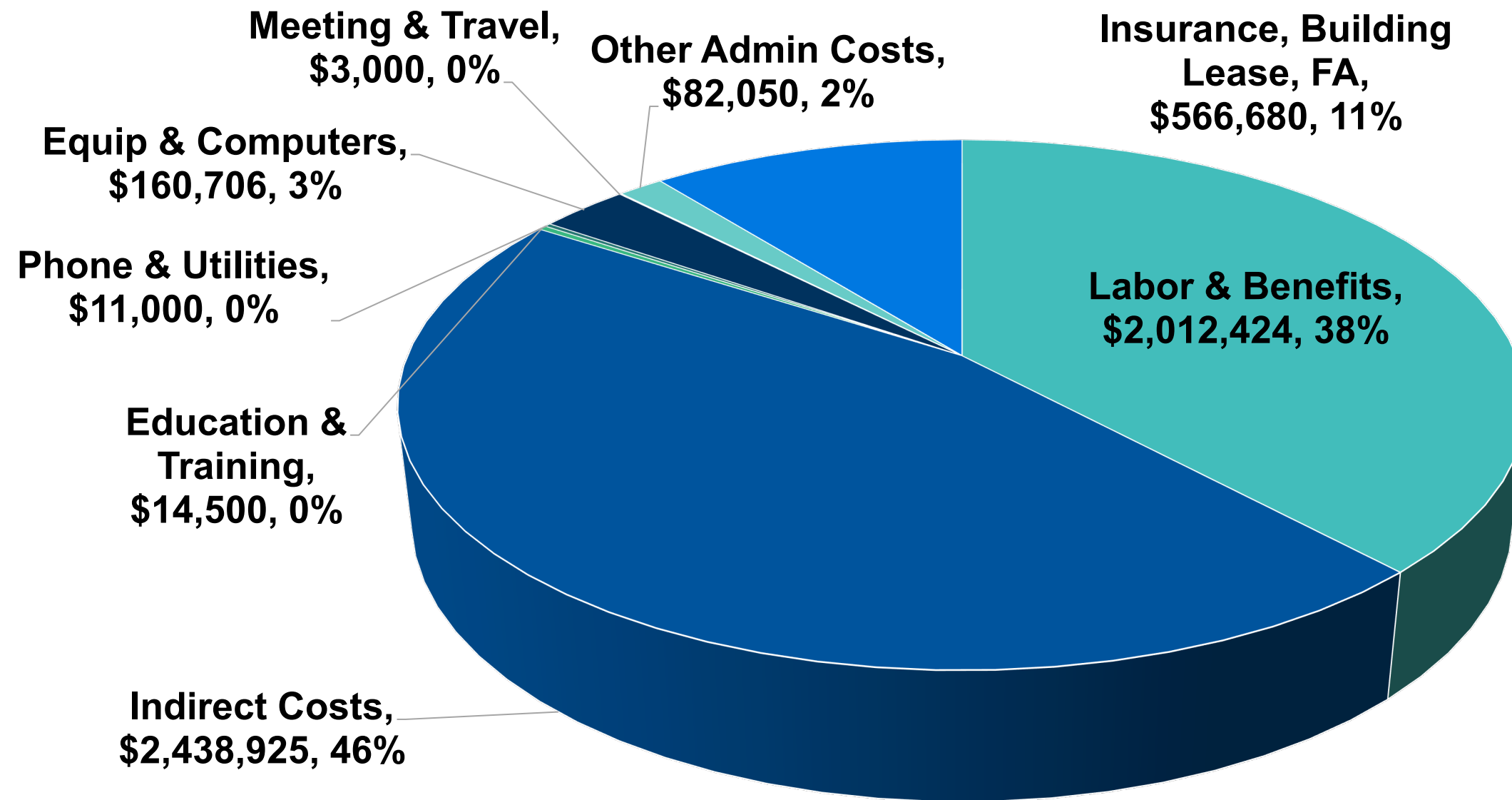


# Management Costs

| Expense                       | FYE 2025           | FYE 2026           | % Diff      | FYE 2027           | % Diff      |
|-------------------------------|--------------------|--------------------|-------------|--------------------|-------------|
| Labor & Benefits              | \$1,900,260        | \$2,012,424        | -5.9%       | \$2,192,736        | 9.0%        |
| Indirect Costs                | 2,278,716          | 2,438,925          | 7.0%        | 2,741,252          | 12.4%       |
| Education & Training          | 15,225             | 14,500             | -4.8%       | 15,225             | 5.0%        |
| Phone & Utilities             | 13,200             | 11,000             | -16.7%      | 11,550             | 5.0%        |
| Equip & Computers             | 204,167            | 160,706            | -21.3%      | 151,017            | -6.0%       |
| Meeting & Travel              | 7,700              | 3,000              | -61.0%      | 3,000              | 0.0%        |
| Other Admin Costs             | 98,988             | 82,050             | -17.1%      | 84,925             | 3.5%        |
| Insurance, Building Lease, FA | 426,597            | 566,680            | 32.8%       | 573,220            | 1.2%        |
| <b>Total</b>                  | <b>\$4,944,853</b> | <b>\$5,289,285</b> | <b>7.0%</b> | <b>\$5,772,925</b> | <b>9.1%</b> |

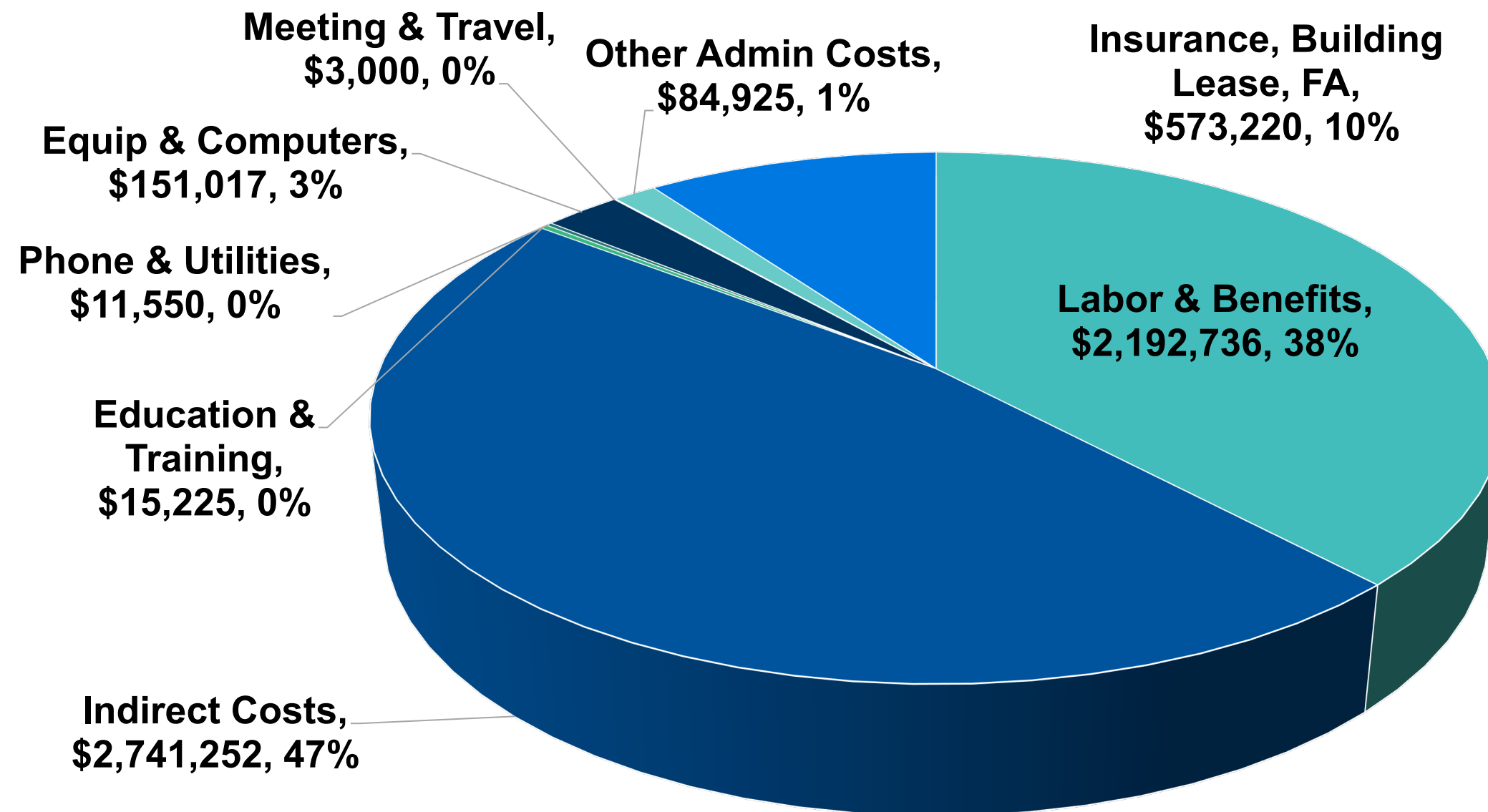
# FYE 2026

## Management Costs - \$5.3 Million



# FYE 2027

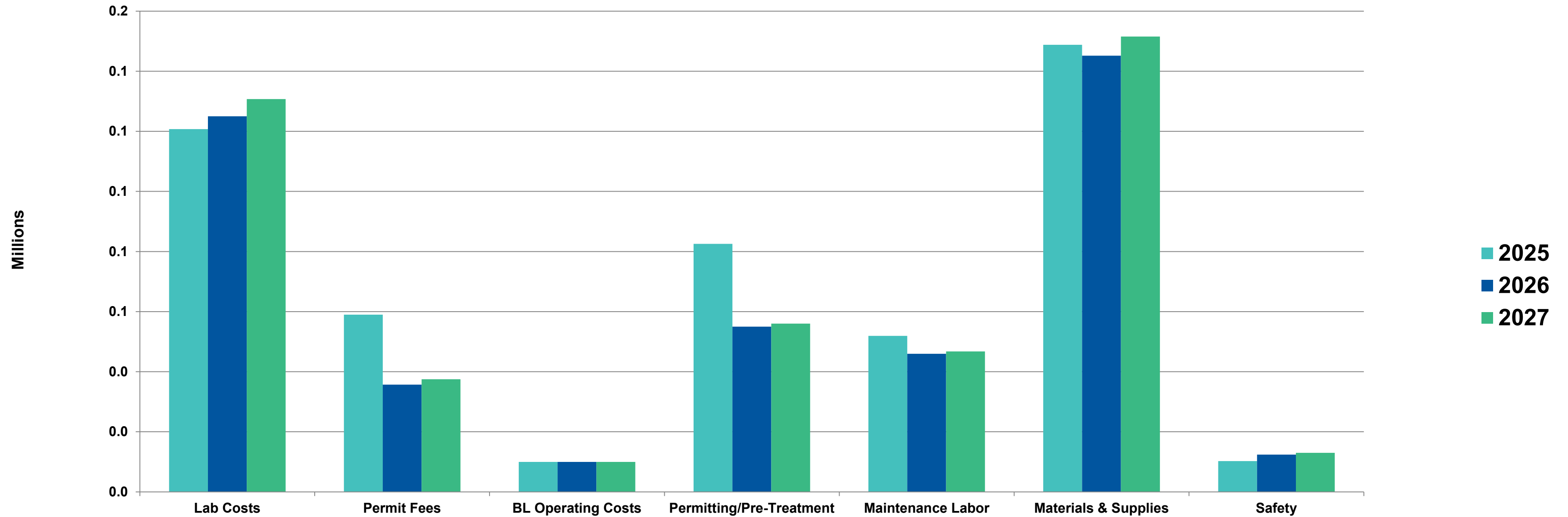
## Management Costs - \$5.8 Million



# Fixed Asset Purchases

| Asset                                   | FYE 2026         | FYE 2027         |
|---|------------------|------------------|
| Brine Line Drone                        | \$15,000         | \$0              |
| Ford F-250 Truck (2 in 2026 \$90k each) | 180,000          | 65,000           |
| 500 Gallon Water Trailer                | 12,000           | 0                |
| Ford Transit (replace sampling vehicle) | 0                | 80,000           |
| Ford Maverick (replace Ford Escape)     | 0                | 40,000           |
| Air Compressor                          | 0                | 12,000           |
| <b>Total</b>                            | <b>\$207,000</b> | <b>\$197,000</b> |

# Operating Costs

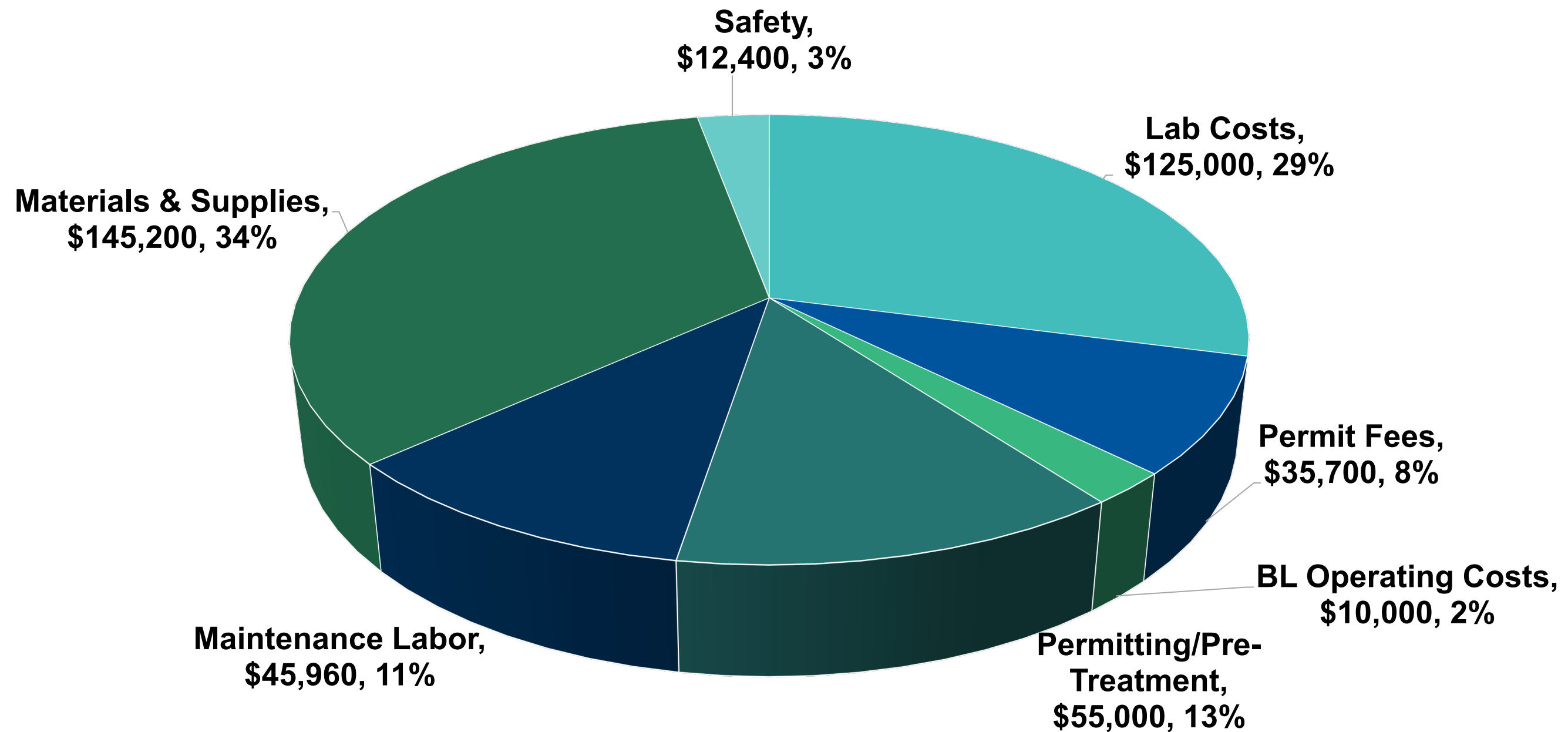


# Operating Costs

| Expense                  | FYE 2025         | FYE 2026         | % Diff        | FYE 2027         | % Diff      |
|--------------------------|------------------|------------------|---------------|------------------|-------------|
| Lab Costs                | \$120,750        | \$125,000        | 3.5%          | \$130,750        | 4.6%        |
| Permit Fees              | 59,000           | 35,700           | -39.5%        | 37,475           | 5.0%        |
| BL Operating Costs       | 10,000           | 10,000           | 0.0%          | 10,000           | 0.0%        |
| Permitting/Pre-Treatment | 82,550           | 55,000           | -33.4%        | 56,000           | 1.8%        |
| Maintenance Labor        | 51,940           | 45,960           | -11.5%        | 46,758           | 1.7%        |
| Materials & Supplies     | 148,810          | 145,200          | -2.4%         | 151,570          | 4.4%        |
| Safety                   | 10,268           | 12,400           | 20.8%         | 13,020           | 5.0%        |
| <b>Total</b>             | <b>\$483,318</b> | <b>\$429,260</b> | <b>-11.2%</b> | <b>\$445,573</b> | <b>3.8%</b> |

# FYE 2026

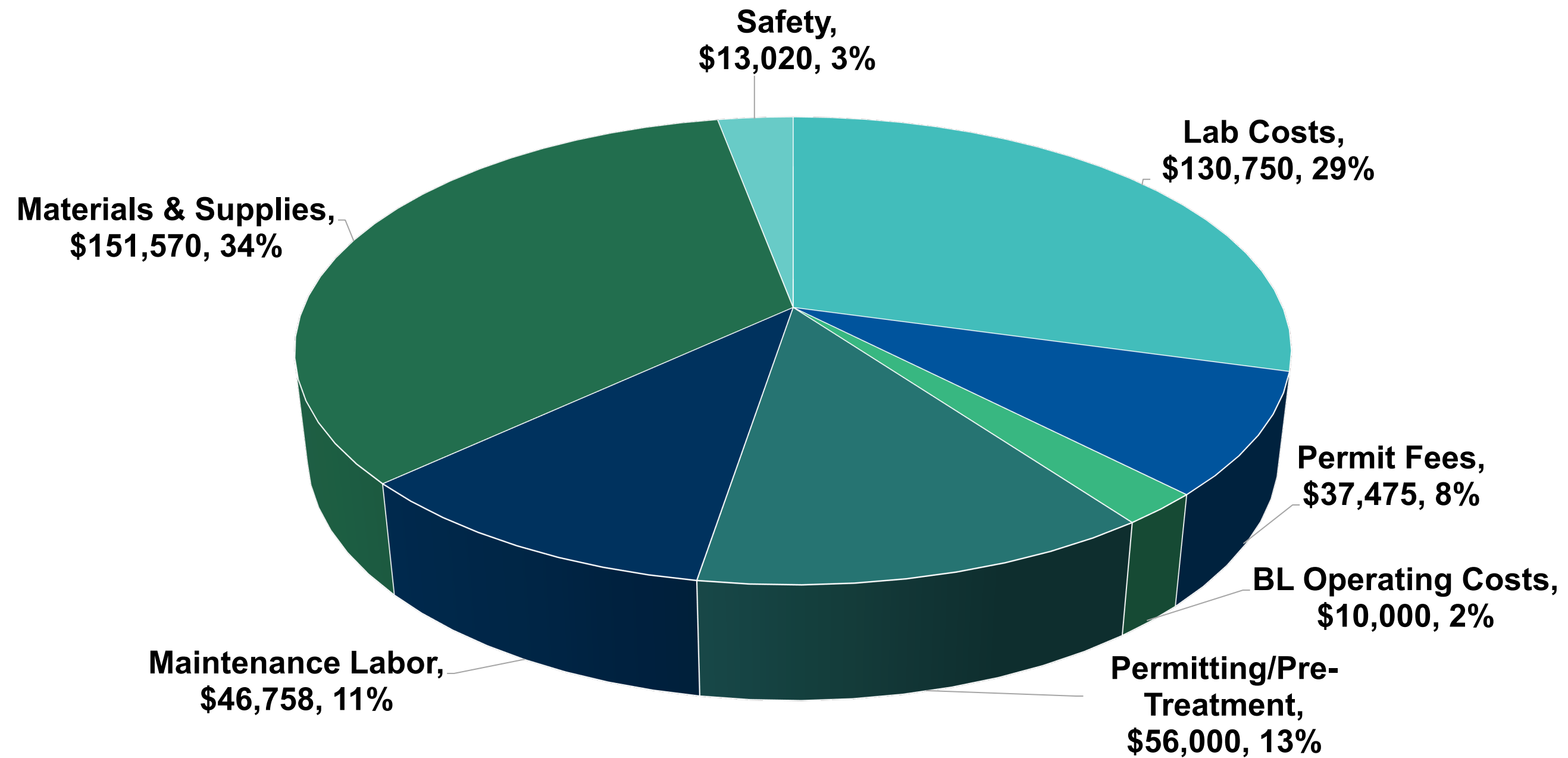
## Operating Costs - \$429,260





# FYE 2027

## Operating Costs - \$445,573



# Debt Service Payments

| Debt                               | FYE 2025           | FYE 2026           | FYE 2027           |
|------------------------------------|--------------------|--------------------|--------------------|
| Reach IV-A & B Capital Repair      | \$1,044,273        | \$1,044,273        | \$1,044,273        |
| Reach V Capital Repair             | 665,203            | 665,203            | 665,203            |
| <b>Total Debt Service Payments</b> | <b>\$1,709,476</b> | <b>\$1,709,476</b> | <b>\$1,709,476</b> |

# Debt Service Funding

| Debt                          | Interest Rate | Final Payment | Funding Source |
|-------------------------------|---------------|---------------|----------------|
| Reach IV-A & B Capital Repair | 2.6%          | 12/29/2032    | Rates          |
| Reach V Capital Repair        | 1.9%          | 03/31/2048    | Rates          |

# Reserve Contributions

| Reserve                                     | FYE 2025           | FYE 2026           | FYE 2027           |
|---|--------------------|--------------------|--------------------|
| Pipeline Replacement and Capital Investment | \$1,900,000        | \$2,000,000        | \$2,000,000        |
| OC San Pipeline Rehabilitation              | 155,772            | 426,224            | 182,388            |
| <b>Total Contribution to Reserves</b>       | <b>\$2,055,772</b> | <b>\$2,426,224</b> | <b>\$2,182,388</b> |

# Reserve Levels

| Reserve  | 12/31/2024<br>Ending Balance | Minimum             | Target              | Over or<br>Under Target | Amount<br>Over or<br>(Under)<br>Target |
|--|------------------------------|---------------------|---------------------|-------------------------|--|
| R-01 Brine Line Operating                          | \$2,312,437                  | \$2,291,108         | \$2,291,108         | Over                    | \$21,329                               |
| R-02 Debt Retirement                               | 3,043,856                    | 1,709,476           | 1,709,476           | Over                    | 1,334,380                              |
| R-04 Pipeline Capacity Management                  | 12,944,921                   | 3,894,181           | 9,735,454           | Over                    | 3,209,467                              |
| R-05 OC San Future Treatment and Disposal Capacity | 1,981,909                    | 1,842,396           | 1,842,396           | Over                    | 139,513                                |
| R-06 OC San Pipeline Rehabilitation                | 3,068,481                    | 2,425,147           | 7,250,000           | Under                   | (4,181,519)                            |
| R-07 Pipeline Replacement and Capital Investment   | 37,229,471                   | 18,884,000          | 46,364,000          | Under                   | (9,134,529)                            |
|  | <b>\$60,581,075</b>          | <b>\$31,046,308</b> | <b>\$69,192,434</b> |                         | <b>(\$8,611,359)</b>                   |

# Reserve Balances (EOY)

| #                     | Reserve                                       | FYE 2026            | FYE 2027            |
|-----------------------|---|---------------------|---------------------|
| R-02                  | Debt Retirement                               | \$3,043,856         | \$3,043,856         |
| R-04                  | Pipeline Capacity Management                  | 12,944,921          | 12,944,921          |
| R-01                  | Brine Line Operating                          | 2,312,437           | 2,312,437           |
| R-07                  | Pipeline Replacement and Capital Investment   | 36,400,187          | 35,071,546          |
| R-06                  | OC San Pipeline Rehabilitation                | 3,494,705           | 3,677,093           |
| R-05                  | OC San Future Treatment and Disposal Capacity | 6,467,806           | 6,467,806           |
| <b>Total Reserves</b> |   | <b>\$64,663,912</b> | <b>\$63,517,659</b> |

# Proposed Brine Line Rates

| Component             | FYE 2025 | FYE 2026 | % Change | FYE 2027 | % Change |
|-----------------------|----------|----------|----------|----------|----------|
| Flow (per MG)         | \$1,097  | \$1,119  | 2%       | \$1,141  | 2%       |
| BOD (per 1,000 lbs.)* | 396      | 416      | 5%       | 437      | 5%       |
| TSS (per 1,000 lbs.)* | 497      | 522      | 5%       | 548      | 5%       |
| Fixed Pipeline**      | 6,654    | 6,787    | 2%       | 6,923    | 2%       |
| Fixed Treatment**     | 13,505   | 13,775   | 2%       | 14,051   | 2%       |

\* Set by OC San annually

\*\*Fixed rates have not increased since 2021

# Capital Projects



**Fund 320 - Brine Line Protection**



**Fund 327 - Reach IV-D Corrosion  
Repair**



# Capital Projects

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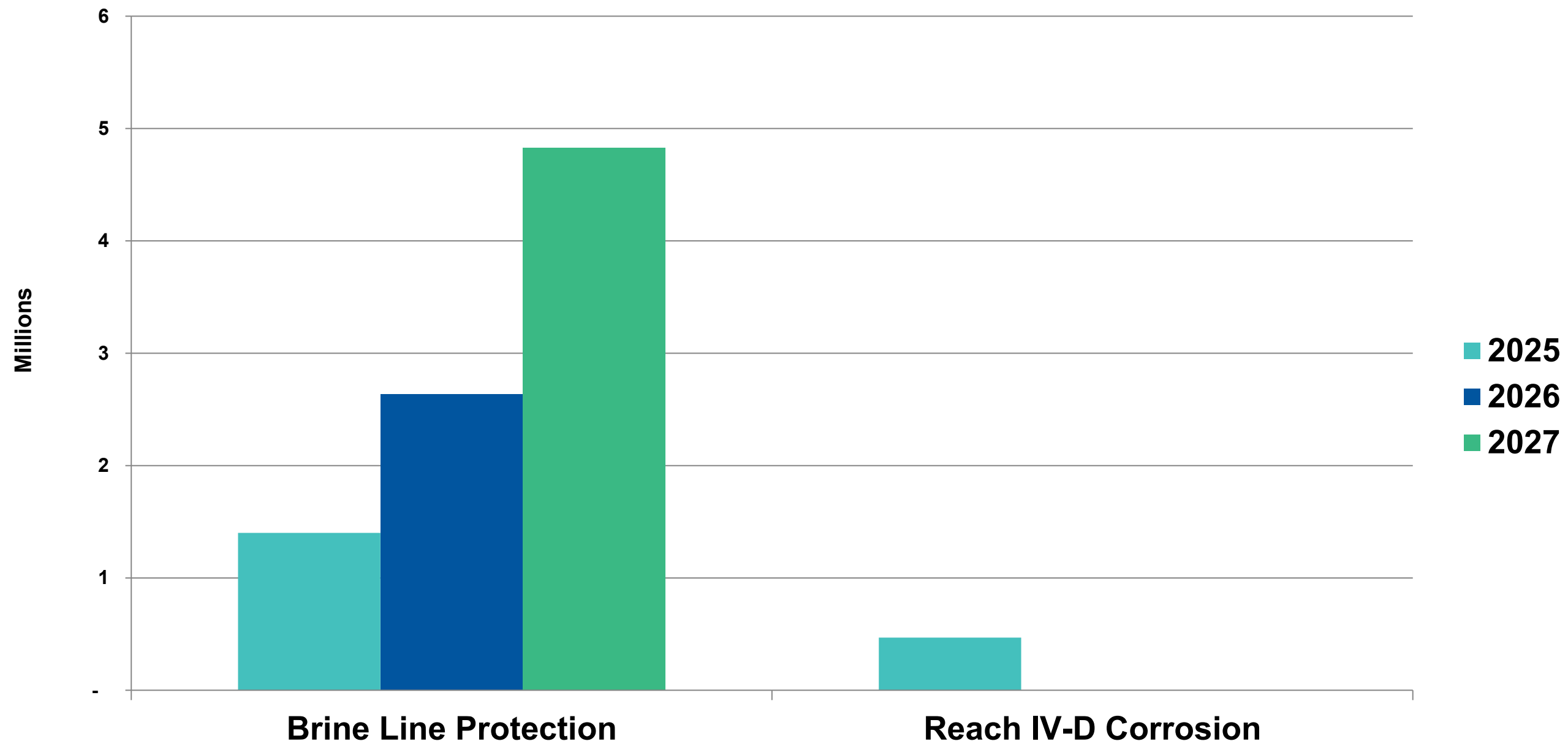
- **FYE 2026**
  - ✓ Capital repairs of pipeline (as needed)
  - ✓ Reach IV-A Upper – Pine Avenue Siphon/relocation
  - ✓ Alcoa Dike Protection/Relocation
  - ✓ MAS Modifications Prado Reservoir
  - ✓ Reach IV-B – Additional MAS Structures (DIP pipeline)
  - ✓ Reach V – Relocate Air Vacs (Temescal Canyon Road widening)
  - ✓ SCADA system

# Capital Projects

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- **FYE 2027**
  - ✓ Capital repairs of pipeline (as needed)
  - ✓ SCADA system
  - ✓ Reach IV-E Add Siphon Mainline Valve
  - ✓ Reach IV-E Condition Assessment
  - ✓ Reach IV-B Condition Assessment
  - ✓ Reach IV-D Relocation (Euclid Bridge Project)

# Capital Improvement Projects



# Capital Project Funding – Use of Pipeline Replacement and Capital Investment Reserves (R-07)

| Project                      | FYE 2025           | FYE 2026           | FYE 2027           |
|------------------------------|--------------------|--------------------|--------------------|
| Brine Line Protection        | \$1,400,590        | \$2,632,558        | \$4,828,641        |
| Reach IV-D Corrosion Repairs | 469,423            | 0                  | 0                  |
| <b>Total</b>                 | <b>\$1,870,013</b> | <b>\$2,632,558</b> | <b>\$4,828,641</b> |

# Brine Line Statistics

| Project                              | FYE 2025    | FYE 2026    | FYE 2027    |
|--------------------------------------|-------------|-------------|-------------|
| Staff Hours for Operations & Capital | 20,033      | 19,080      | 19,315      |
| Full Time Equivalents (FTE)          | 9.6         | 9.2         | 9.3         |
| % of Indirect Costs paid             | 62.87%      | 59.73%      | 61.99%      |
| Total of Indirect Costs paid         | \$2,367,344 | \$2,496,487 | \$2,811,334 |

# Questions?

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Santa Ana Watershed Project Authority  
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SANTA ANA WATERSHED  
PROJECT AUTHORITY

# Brine Line Service Contracts RFP

PA 24 Committee  
Item No. 6.B  
Daniel Vasquez  
Manager of Operations  
March 4, 2025

# Recommendation

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That the PA 24 Committee direct the General Manager to issue a Request for Proposals (RFP) for the Inland Empire Brine Line Debris Hauling and Disposal services.



# Brine Line Service Contracts

- **On-Call CCTV-** Provides CCTV operators to perform in-pipe inspections and identify defects and pipeline condition.
- **On-Call Surveying Services-** Surveying services as required.
- **Meter Calibration Services-** Required calibration maintenance on SAWPA owned meters.
- **On Call Line Cleaning-** Brine Line cleaning to remove identified debris. Performed according to SSMP.
- **On-Call Line Draining and Emergency Services-** Tanker trucks for line draining during planned maintenance and emergencies, as well as material support during spills.

| Service Contract name                        | Current Provider      | Contract Expiration Date | 2-Year Budget | Status                    |
|--|-----------------------|--------------------------|---------------|---------------------------|
| On-Call CCTV                                 | Innerline             | 6/30/2026                | \$102,530     | Active Contract           |
| On-Call Surveying Services                   | GIS Surveyors         | 6/30/2025                | \$22,402      | Pursuing 1 year Extension |
| Meter Calibration Services                   | PE Instruments        | 6/30/2026                | \$19,950      | Active Contract           |
| On Call Line Cleaning                        | Innerline             | 6/30/2026                | \$316,700     | Active Contract           |
| On-Call Line Draining and Emergency Services | Patriot Environmental | 6/30/2025                | \$121,760     | Pursuing 1 year Extension |

# Brine Line Debris Hauling Services

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- Debris Hauling for the Brine Line includes the delivery and pickup of dewatering bins that are used in service of line cleaning operations. The bins are used to dewater the debris and are then delivered to the local landfill for disposal.
- Availability of bins is vital for regularly scheduled maintenance.

# Dewatering Bins for Brine Line Cleaning



# Schedule and Cost

| Service Contract            | PA24 Approval | Proposals Due | Cost Estimate (2 years) |
|-----------------------------|---------------|---------------|-------------------------|
| Debris hauling and disposal | 3/4/2025      | 4/10/2025     | \$ 70,000               |

\*Two (2) year contract to include option for 1 year extension at end of term.

# Recommendation

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That the PA 24 Committee direct the General Manager to issue a Request for Proposals (RFP) for the Inland Empire Brine Line Debris Hauling and Disposal services.

# Questions?

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Santa Ana Watershed Project Authority  
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SANTA ANA WATERSHED  
PROJECT AUTHORITY

# Request for Proposals for SCADA Specification Design and Work Plan

PA 24 Committee  
Item No. 6.C  
Daniel Vasquez  
Manager of Operations  
March 4, 2025

# Recommendation

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That the PA 24 Committee direct the General Manager to issue a Request for Proposals (RFP) for the Inland Empire Brine Line SCADA Specification Design and Work Plan.



# SCADA Specification Design and Work Plan

SAWPA completed the Master Plan in December 2024.

A SCADA system was identified in the Capital Improvement Program (CIP) for enhanced monitoring of the Brine Line.



# SCADA System Benefits

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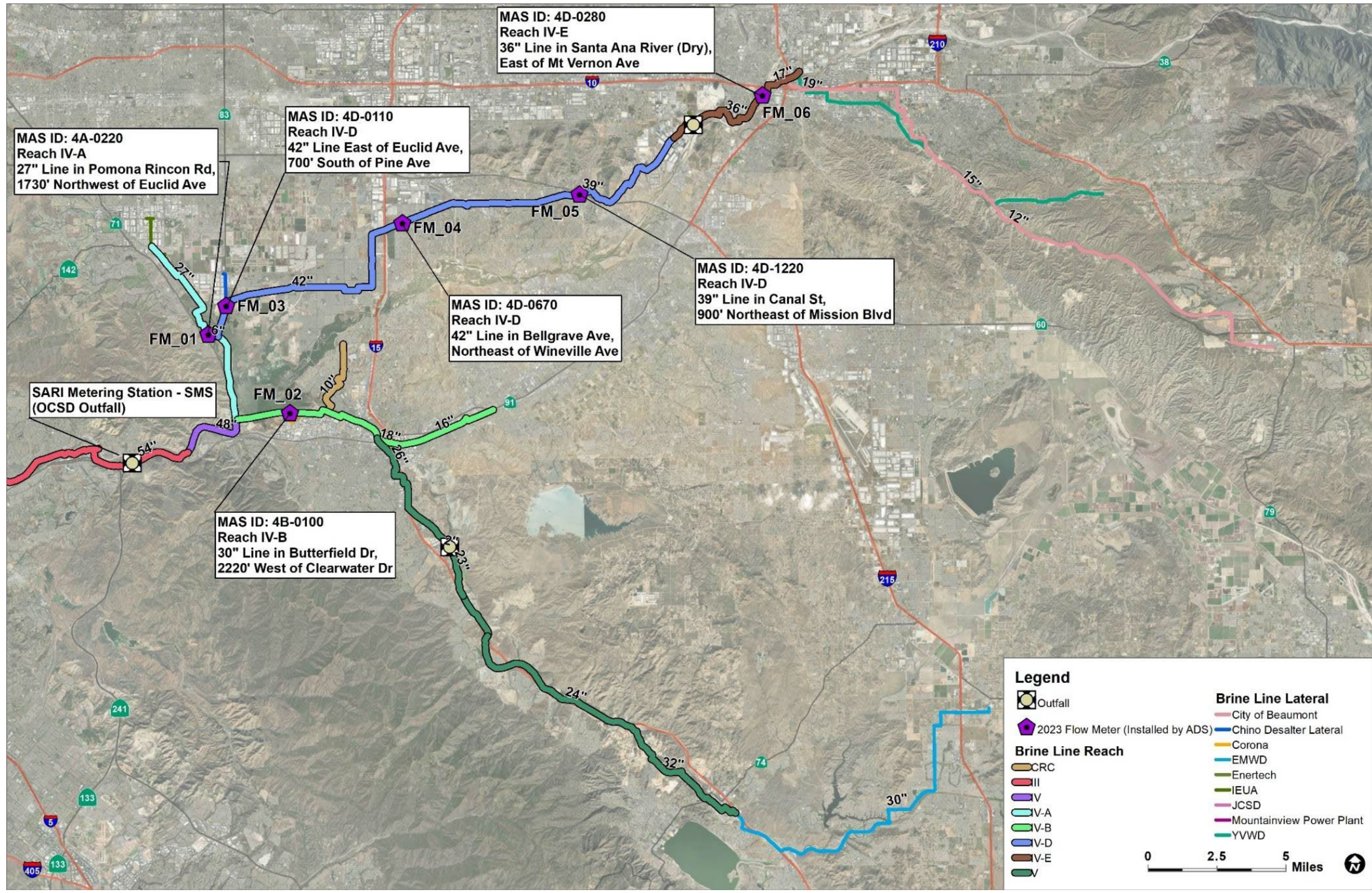
- Increase ability to monitor, operate and control the Brine Line system
- Reducing staff time
- Improving compliance efforts by recording potential discharge violations and facilitating future pretreatment enforcement
- Understanding of each discharger's flow and strength characteristics will allow for a more equitable distribution of costs between dischargers
- Allow for ability to resolve capacity exceedance issues
- Allows for maintenance of the Brine Line hydraulic model
- Identify potential Inflow and Infiltration

# SCADA System Design Steps

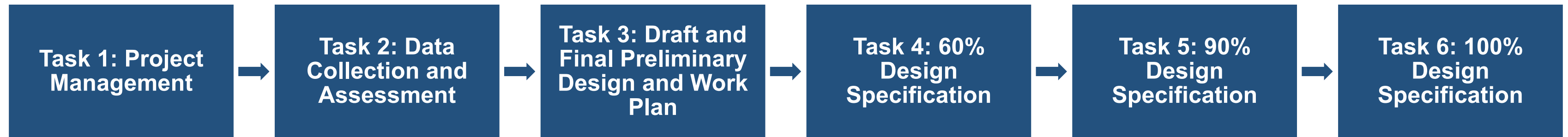
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- The RFP calls for the development of a bid-ready Design Specification
- Phases of implementation to be discussed and determined in conjunction with SAWPA staff in the development of a Work Plan.
- Design Specification and Work Plan to be presented to PA 24





# SCADA RFP Tasks



- The Scope of the Design Specification includes:
  - Master Station & Operator Workstations
  - 36 Discharger monitoring connections
  - 5 In-Line Monitoring sites
  - Necessary PLC's, Network Architecture, Alarm Management, Data Historian

# RFP Schedule

|   |                       |
|---|-----------------------|
| <b>Issue Request for Proposals</b>      | <b>March 4, 2025</b>  |
| <b>Pre-proposal meeting</b>             | <b>March 19, 2025</b> |
| <b>Proposals due</b>                    | <b>April 16, 2025</b> |
| <b>Interview of top proposing firms</b> | <b>April 24, 2025</b> |
| <b>Recommend Award</b>                  | <b>May 6, 2025</b>    |

# Recommendation

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That the PA 24 Committee direct the General Manager to issue a Request for Proposals (RFP) for the Inland Empire Brine Line SCADA Specification Design and Work Plan.



# Questions?

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