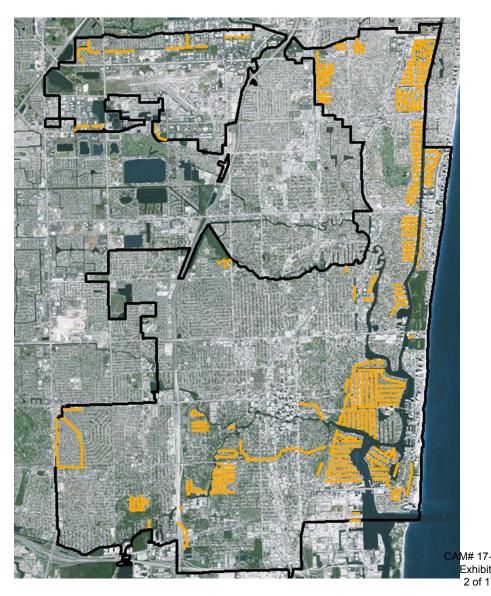


City Owned Canals





2017 Rate Study Process

Canal Dredging Master Plan

- Surveyed 78% of City-owned canals (2012-2015)
- Developed 2015 Canal Dredging Master Plan
- Conducted and analyzed remaining 22% of surveys (2016)
- Updating Canal Dredging Master Plan (2017)

Revenue Requirement

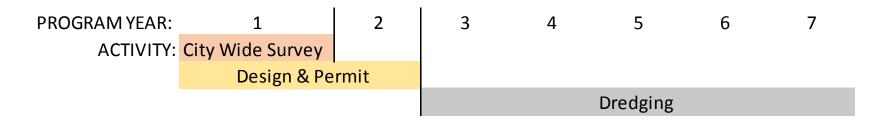
 Cost drivers include design, permitting, dredging, drying and disposal

Revenue Recovery

 Special assessments included on the property tax bill can be utilized in cases where parcels derive specific benefit from the City's activates, or fees included on the utility bill can also be utilized.

> Exhibit 2 3 of 17

Revenue Requirement



City Wide Survey

- Review all City-owned canals every 7 years to determine dredging needs
- Prioritize canals requiring dredging

Dredging Design

Design and permit of the canals to be dredged

Dredging

Physical removal, drying and ultimate disposal of the dredge material



Drying Site Options

- Current drying site is expected to be sold and unavailable for the city's future dredge material drying needs
- Stantec conducted a search for viable options and their corresponding cost
- Several parcels were located with the desired proximity and zoning characteristics, a summary of those findings is included below:

		Current Asking
Potential Drying Sites	Size in Acres	Price
Site 1	2.50	\$2,500,000
Site 2	1.65	\$1,450,000
Most Conservative Option		\$2,500,000
Annual Amortization		\$144,575
Years	30	
Rate	4.00%	



Revenue Requirement Findings

- Dredging expenditures are dynamic by their nature and large year to year fluctuations in program spending are expected
- Because there is little history upon which to base projections there is significant uncertainty as to potential unforeseen costs of the program.
 Therefore, we recommend considering establishing a minimum working capital reserve fund equal to one year's program revenue.
- In lieu of establishing a minimum working capital reserve fund for unforeseen costs, an alternative to consider would be relying upon an interfund loan from the General Fund. This loan would be paid back out of future revenues from the Canal Dredging Program and would mitigate the need for immediate rate increases.



Revenue Requirement Findings

- Based on the most current information \$1.7M in annual revenue is expected to provide a sufficient level of revenue to independently support the first seven year dredge cycle, while maintaining the above referenced minimum reserve fund balance. This should be revisited annually.
- Based on the most current information \$1.3M in annual revenue is expected to provide a sufficient level of revenue to independently support the first seven year dredge cycle, while maintaining the above referenced minimum reserve fund balance. This should be revisited annually.
- Under either scenario above, material expenditure risks were identified in the following areas:

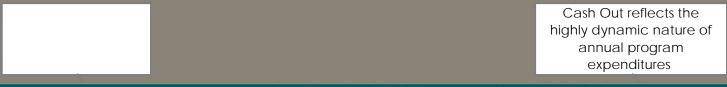
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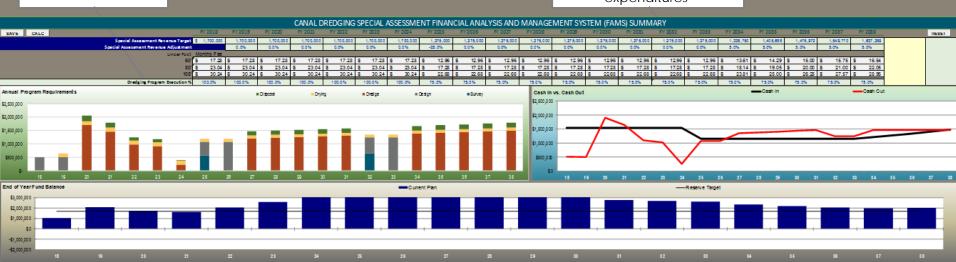
- Sea Grass mitigation cost
- Disposal cost changes
- Dredge volume (CY) changes
- Dredging method (mechanical vs hydraulic)
- Specific canal characteristics
- Emergency dredging due to harricanes



Revenue Requirement with Minimum Reserve Balance

- Identified all projected 7- year activity costs
- Dynamic Model used to identify and evaluate viable management options
- Current dredging requirements will need an estimated \$1.7M in annual revenue



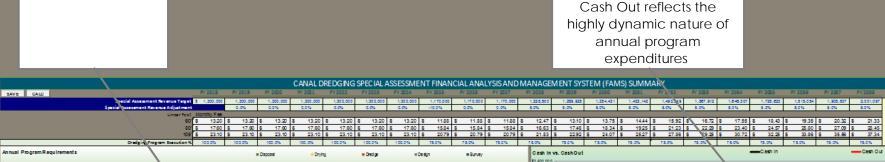


Fund Balances are accumulated or spent depending on yearly 1910gram revenue and expandibures



Revenue Requirement with No Minimum Reserve Balance

- Identified all projected 7- year activity costs
- Dynamic Model used to identify and evaluate viable management options
- Current dredging requirements will need an estimated \$1.3M in annual revenue





Fund Balances are
accumulated or spent
depending on yearly 1910gram
revenue and expandibures
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Method of Cost Recovery

- Special Assessments afford local governments the ability to assess specific parcel which benefit from a particular activity in the community.
- Assessed parcels can be billed on the annual property tax bill
- Alternatively a Canal Dredging Fee can be established and included on the utility bill

Assessment/Fee Basis Survey

Equal **Recovery Unit Basis Equal Per Parcel**

Equal Per Parcel Per Canal

Linear Frontage Feet

Discrete

Property Value

Water Access









Most Communities recover dredge expenses equal per parcel. Other options do exist that have more perceived equity.



Equivalent Benefit Unit (EBU)

Calculation

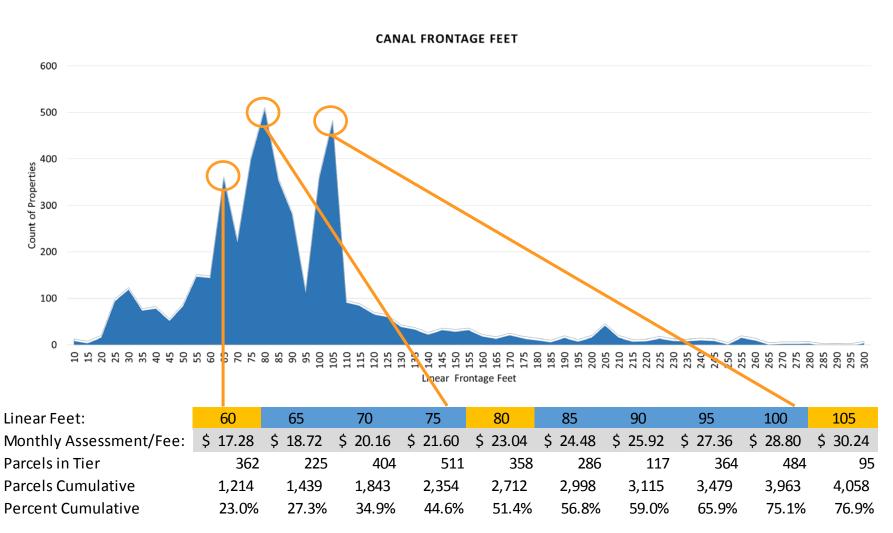
- Linear frontage feet calculated for each parcel fronting a City owned canal
- EBU is 5 linear front feet on canal (rounded down to nearest 5 feet)



Actual Frontage Feet Fronting City Owned Canals :		503,560
Adjusted Total Frontage Feet when each parcel is Rounded Down:		492,120
Divided by 5 Linear Feet Per Equivalent Billing Unit (EBU):		5
Scenario 1		
Billed EBUs:		98,424
Revenue Requirement:	\$	1,700,000
Monthly Assessment/Fee Per Billed EBU:	\$	1.44
Scenario 2		
Billed EBUs:		98,424
Revenue Requirement:	\$	1,300,000
Monthly Assessment/Fee Per Billed EBU:	\$	1.10



Monthly Assessment/Fee: Scenario 1 Minimum Reserve Fund Balance





Monthly Assessment/Fee: Scenario 2 No Minimum Reserve Fund Balance

CANAL FRONTAGE FEET 600 500 400 Count of Properties 300 200 100 Linear Frontage Feet 105 Linear Feet: 60 65 70 75 80 85 90 95 100 \$ 13.20 \$ 14.30 \$ 15.40 \$ 16.50 \$ 17.60 \$ 18.70 \$ 19.80 \$ 20.90 \$ 22.00 Monthly Assessment/Fee: \$ 23.10 Parcels in Tier 362 225 404 511 358 286 364 484 95 117 Parcels Cumulative 3,479 1,214 1.439 1,843 2.354 2.712 2.998 3.115 3,963 4.058 23.0% 27.3% 56.8% 59.0% 65.9% 75.1% 76.9% **Percent Cumulative** 34.9% 44.6% 51.4%



Next steps

If Adopted as an Assessment Program:

- Commission sets hearing for 9/6/17.
- A Methodology Report must be delivered to the County Property Appraiser by 5/1/2017.
- A Preliminary Assessment Roll must be delivered to the County Property Appraiser by 6/2/17.
- A Draft Ordinance and Preliminary Resolution must be prepared for a Hearing to Adopt the Preliminary Resolution which will be held on 8/22/2017.
- The required first class mailing of the Notice of Hearing will be done through the TRIM notice.
- Hearing for Adoption will be on 9/6/17.



Next steps

If Adopted as a Fee to be Billed on the Utility Bill:

- Accomplish cross reference of Canal Dredging Fee Property Roll with the Utility Billing System Customer Database.
- Prepare Rate Ordinance and Resolution.
- Advertise for adoption of the Ordinance and Resolution.
- Conduct first and second reading for adoption of the Ordinance and Resolution prior to October 1, 2017.



