



Sunset Beach Navigation Project
Update to Town Council
October 01, 2018





Discussion Outline

- Review Overall Project Scope
 - Mary's Creek & Turtle Creek
 - Feeder Canal, Bay Area, S. Jinks Creek
- Current Permit Status
- Revised Construction Estimate & Schedule
- Comments & Questions



Reference Map





Reference Map



Feeder Canal &
Finger Canals
(~32,700 CY)

S. Jinks Creek
(~40,500 CY)

Bay Area
(~15,900 CY)

Google earth



Mary's & Turtle Creek

Proposed Material Management Plan



Aerial provided by NC ONEMAP

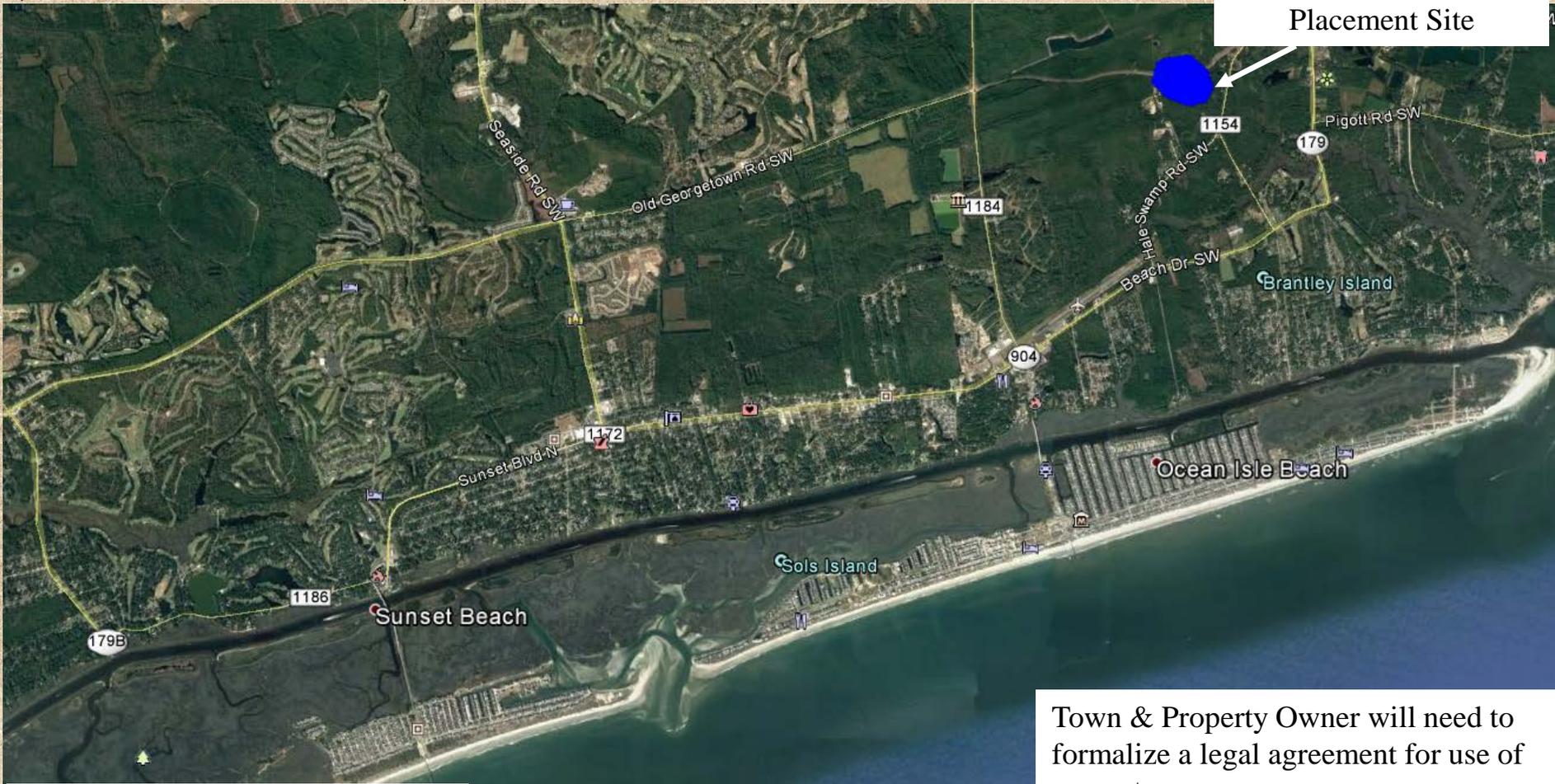
- Material will be stockpiled in the NCWRC boat ramp parking lot.
- Alternate vehicle / trailer parking will be provided.
- Ramp will remain open for use during times of no material off-loading.
- Sediment and erosion control devices will be used to manage run-off.
- Site will be restored to pre-construction conditions.
- **Have not obtained confirmation from NCWRC.**

Feeder Canal & Bay Area Proposed Material Management Plan



Image provided by Google Earth

Proposed Non-Compatible Material Placement Site (All Work Areas)



Proposed Final Material Placement Site

Town & Property Owner will need to formalize a legal agreement for use of property.

Image provided by Google Earth



Current Permit Status

- Mary's Creek & Turtle Creek permit under review, but on hold due to lack of material placement (disposal) location.
- Once a dewatering site is identified the permit will be updated to complete the review. (Expected by October 15th.)
- Feeder Canal, Bay Area & S. Jinks Creek permit submittal expected by Monday, October 8th.
- Authorization for material disposal site acquired on September 31st. Consent of use for dewatering site expected by Wednesday, October 3rd. **(Agreements will only authorize use of the sites for the purpose of obtaining permits. The Town and property owners will still need to formalize legal agreements.)**



Revised Cost Estimate & Construction Schedule

Item	Unit Cost	Quantity	Cost (\$)
Mobilization¹	LS	1	\$425,000
Bonds / Insurance	LS	1	\$15,000
Dredge & Fill ^{2,3} Non-Compatible Material (Inclusive of Tipping Fee)	\$47.75 / CY	64,500 CY	\$3,079,875
Dredge & Fill ² Compatible Material (Beneficial Use Placement)	\$9.50 / CY	40,500 CY	\$384,750
Sub-Total			\$3,904,625
Contingency (15%)			\$585,693. ⁷⁵
Total			\$4,490,318.⁷⁵

1. Estimate assume two (3) mobilizations will be required to construct project over 2 dredge seasons. (1–Hydraulic Dredge & 2–Clamshell Dredges.)
2. Estimate includes overdredge tolerances.
3. Estimate includes a \$5.75 / CY tipping fee.



Revised Cost Estimate & Construction Schedule

Site	Estimated Cost (\$)	State Share ² (\$)	Local Share (\$)
Mary's Creek	\$456,953. ⁶⁵	\$304,635. ⁷⁷	\$152,317. ⁸⁸
Turtle Creek	\$440,029. ¹⁰	\$293,352. ⁷³	\$146,676. ³⁷
Feeder Canal & Finger Canals	\$1,844,738. ⁰⁰	1,229,825. ³³	\$614,912. ⁶⁷
Bay Area	\$896,982. ⁷⁵	\$597,988. ⁵⁰	\$298,994. ²⁵
S. Jinks Creek ¹	\$851,615. ²⁵	\$567,743. ⁵⁰	\$283,871. ⁷⁵
TOTAL	\$4,490,318.⁷⁵	\$2,993,545.⁸³	\$1,496,772.²²

1. Cost Expended for Beneficial Reuse material placement would be eligible for ROT funding.
2. Estimate exceeds DWR grant agreement and additional funds would need to be requested.
3. Estimate does not include construction administration costs. (~ \$175,000)



Estimated Construction Schedule

Mary's Creek & Turtle Creek

- Permit under review, but on hold due to lack of material placement (disposal) location.
- Once a dewatering site is identified the permit will be updated to complete the review. (Expected by October 15th.)
- Construction expected to begin in December and last through January.

Feeder Canal, Bay Area & S. Jinks Creek

- Permit submittal expected by Monday, October 8th for completeness review and final submittal by Monday, October 15th.
- Variance request expected to be decided on November 29 by CRC.
- Construction expected in late January and extend through March. [Project will most likely require 2 dredge (winter) seasons to complete.]



Thank you!

Questions / Comments

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