

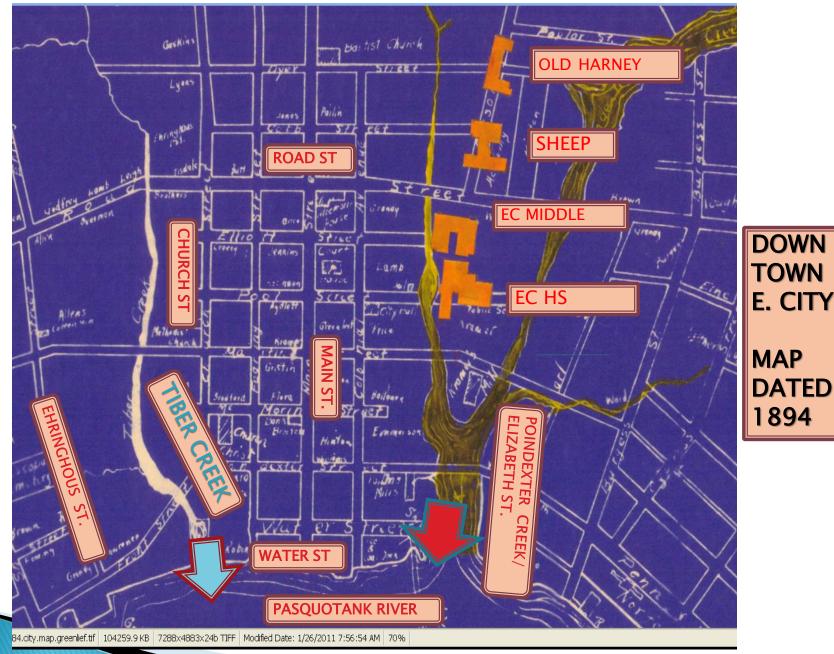
Tiber Creek Stormwater Management Improvements

This Preliminary Master Plan is to Assist the City in:

- 1. <u>Maintaining</u> its Stormwater Management Utility Infrastructure.
- 2.Enhancing Its Ability to <u>Develop</u> or <u>Redevelop</u> its Downtown Waterfront Assets
- 3.Implementing Its <u>NPDES PH 2</u> Permit Requirements

This Plan has been developed by:

1. Reviewing Existing Documents Relating to Stormwater Management Facilities in the Tiber Creek Basin.



DOWN TOWN E. CITY **MAP**

1894

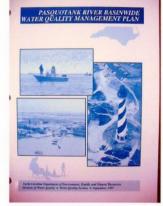
ELIZABETH CITY STORMWATER MANAGEMENT PLAN

TIBER
CREEK
WATER 5





MCDOWELL & ASSOCIATES, PA ELIZABETH CITY, N.C. SEPTEMBER 28, 2000 REVISED NOVEMBER 20, 2001





























TIBER
CREEKCITY
PARKING
LOT

This Plan has been developed by:

2. Performing Extensive Field Surveys to Inventory, locate and Assess Existing Stormwater Management Facilities Conditions.



STORMWATER FACILITIES INVENTORY FOR

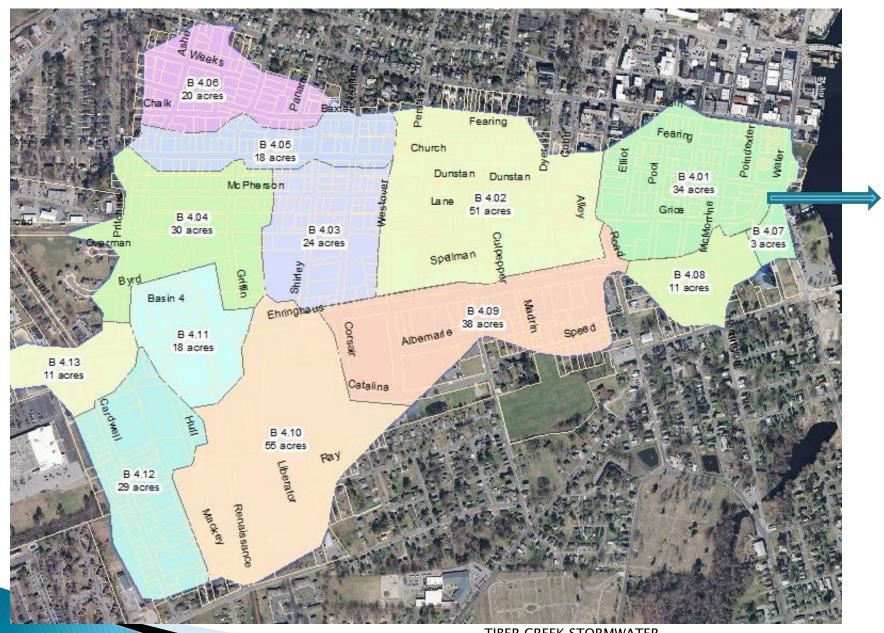






This Plan has been developed by:

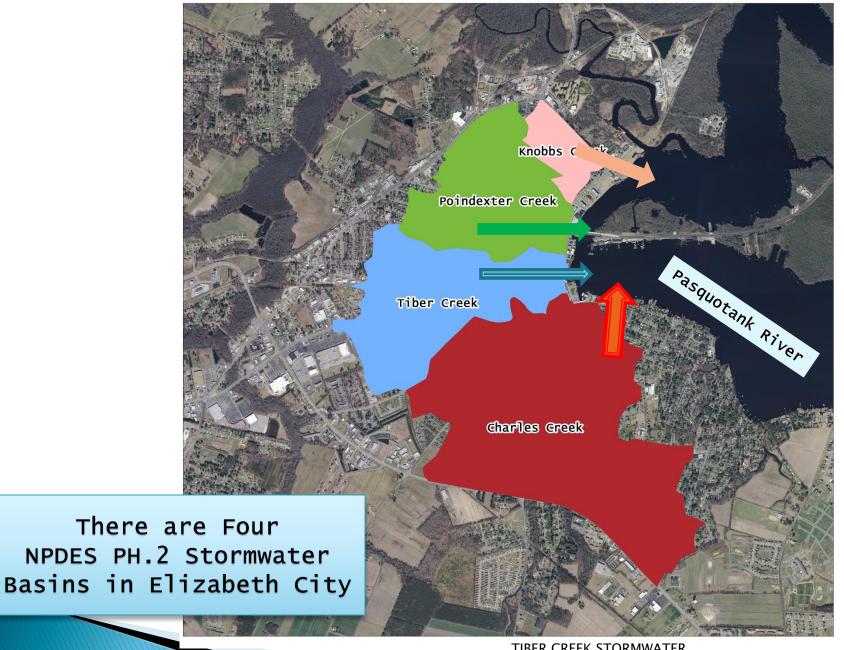
3. Assisting the Integration of this Information into the City's GIS Database.



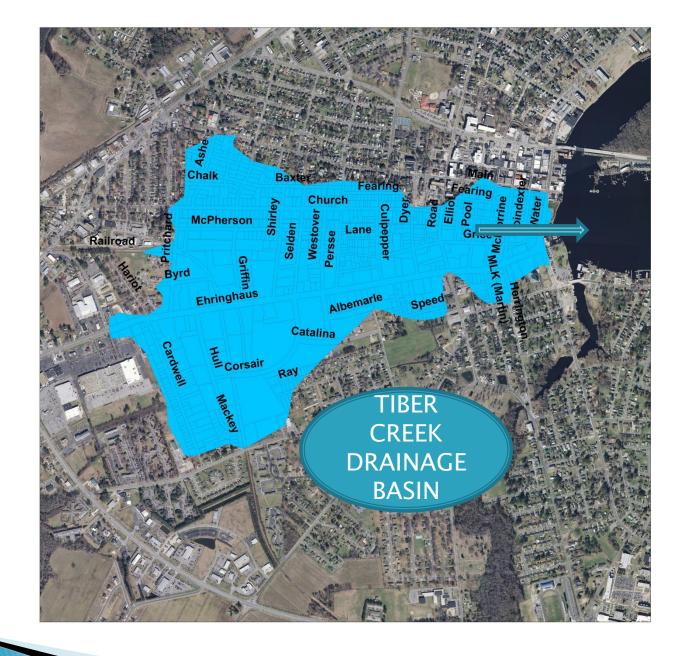
THIS RESEARCH HAS GENERATED THE FOLLOWING INFORMATION

The City Has Four Major Drainage Basins Flowing into the Pasquotank River Which Are Designated in its NPDES PH 2 Permit Responsibilities:

- 1. Knobbs Creek
- 2. Poindexter Creek
- 3. Tiber Creek
- 4. Charles Creek



TIBER CREEK STORMWATER MANAGEMENT IMPROVEMENTS 9/23/13



INFORMATION CONCERNING MAINTENANCE ISSUES FOUND IN THE STORMWATER MANAGEMENT UTILITIES

STORMWATER PIPES AND BASINS NEED CLEANING AND













STORMWATER PIPES AND BASINS NEED CLEANING AND













TIBER CREEK STORMWATER
MANAGEMENT IMPROVEMENTS
9/23/13



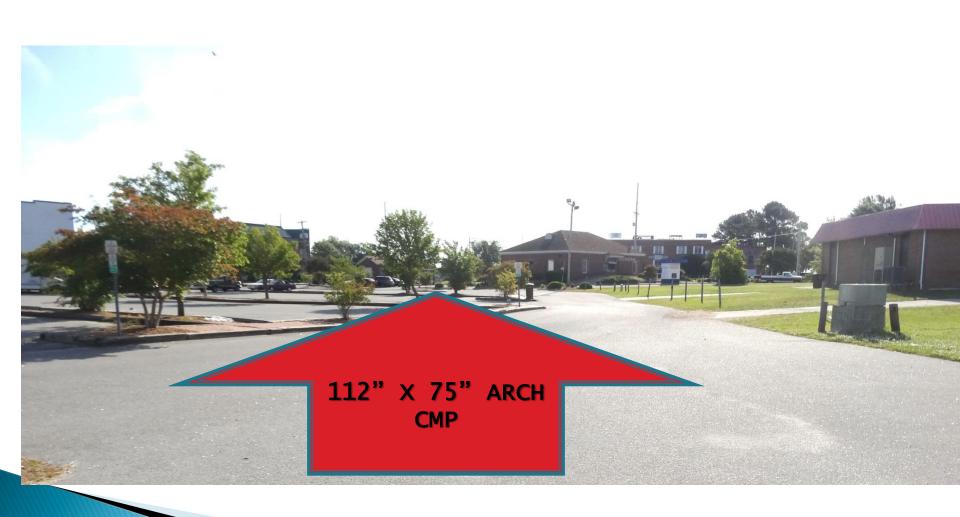
AT PUMP ST LOOKING INTO WET WELL AND UPSTREAM INTO SEDIMENT LOADED 112" X 75" ARCH CMP



Along Grice St. 1500'+ OF 112" X 75" ARCH CMP FROM ROAD ST TO PUMP STATION 2-3FT SEDIMENT; 40% FULL



Along Grice St. 1500'+ OF 112" X 75" ARCH CMP FROM ROAD ST TO PUMP STATION 2-3FT SEDIMENT; 40% FULL



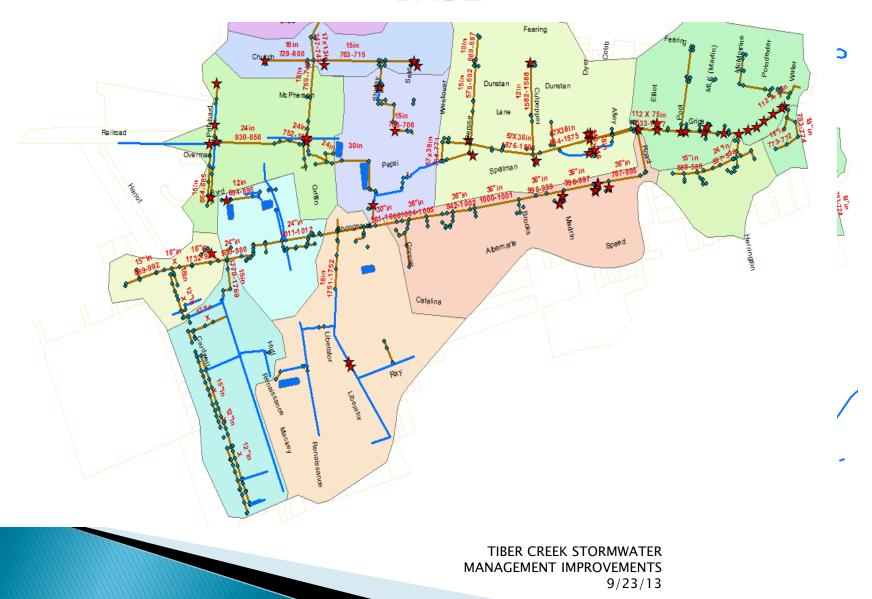
Along Grice St. 1500'+ OF 112"(9.3') X 75"(6.3') ARCH CMP FROM ROAD ST TO PUMP STATION 2-3FT SEDIMENT; 40% FULL

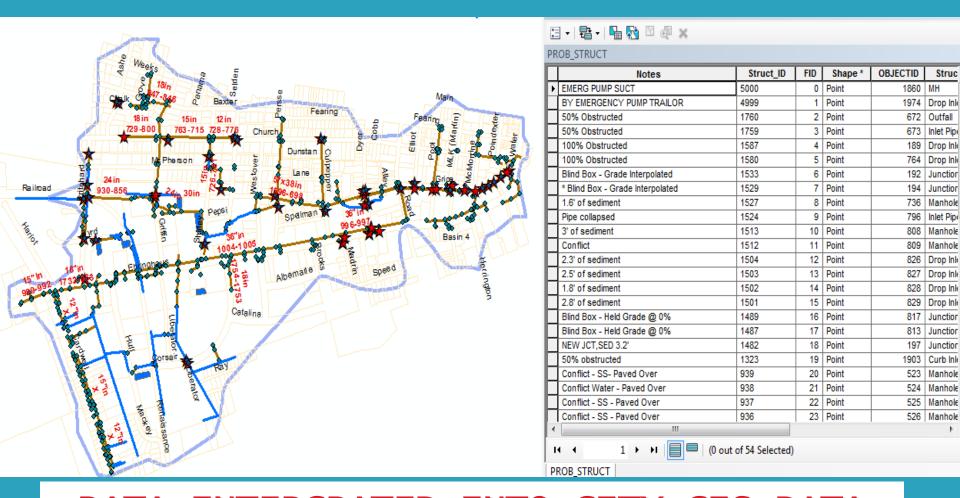


There are approximately 539 structures in the system with approximately 55 having problems as sediment, deterioration, and conflicts. Of the 55 at least 32 have serious sediment problems.

See the GIS map in the next slide

DATA INTERGRATED INTO CITY GIS DATA BASE





DATA INTERGRATED INTO CITY GIS DATA BASE

LACK OF STORMWATER POND MAINTENANCE





TIBER CREEK STORMWATER
MANAGEMENT IMPROVEMENTS
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PROPER STORMWATER POND MAINTENANCE



DITCH MAINTENANCE ISSUES



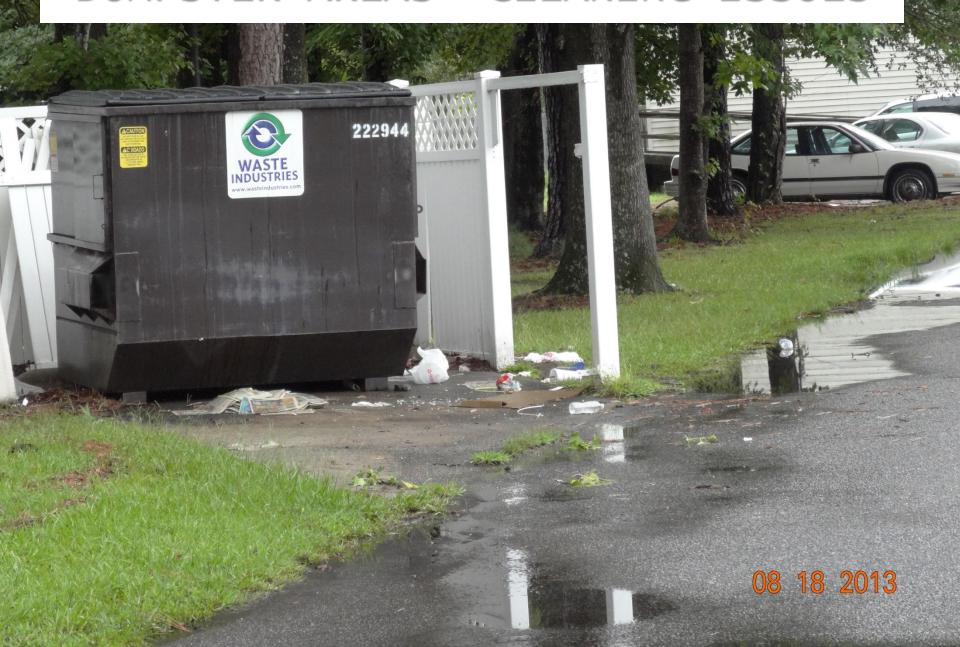
TIBER CREEK STORMWATER
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DITCH MAINTENANCE ISSUES



TIBER CREEK STORMWATER
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DUMPSTER AREAS CLEANING ISSUES





DUMPSTER AREAS CLEANING ISSUES



DUMPSTER AREAS CLEANING ISSUES AREA HAS BEEN CLEANED UP



TIBER CREEK STORMWATER
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YARD CLEANING AND STREET CLEANING







TIBER CREEK STORMWATER
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POLICY FOR FLEET VEHICLE MAINTENANCE YARD





9/23/13

REVIEWING POSSIBLE UPSCALE DEVELOPMENT/REDEVELPMENT SKETCHES/CONCEPTS IN THE DOWNTOWN AREA

LOOKING ALONG GRICE ST FROM ROAD ST. TO WATER ST.



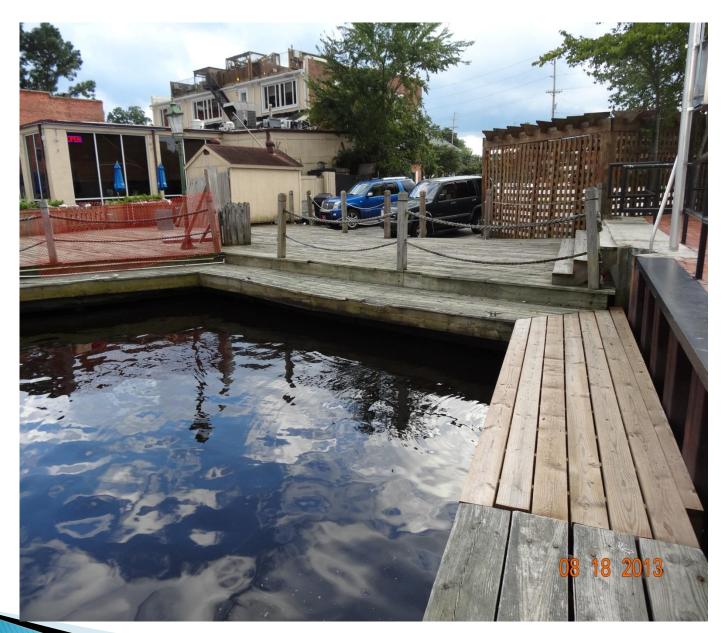
LOOKING ALONG GRICE ST FROM TWIFORDS TO WATER ST.











TIBER CREEK STORMWATER MANAGEMENT IMPROVEMENTS 9/23/13



Elizabeth City Waterfront Master Plan

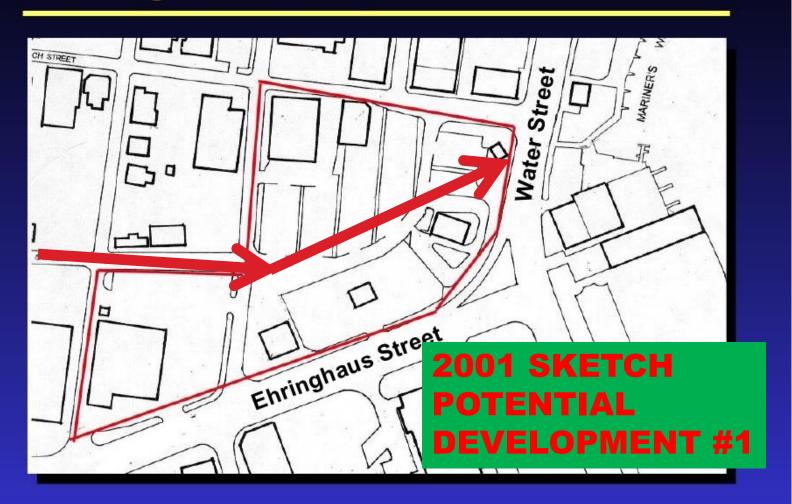
April 24-26, 2001

City of Elizabeth City

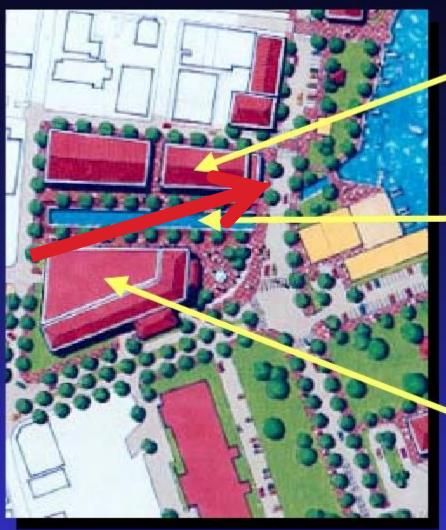
Allison Platt & Associates

2001 SKETCH POTENTIAL DEVELOPMENT #1

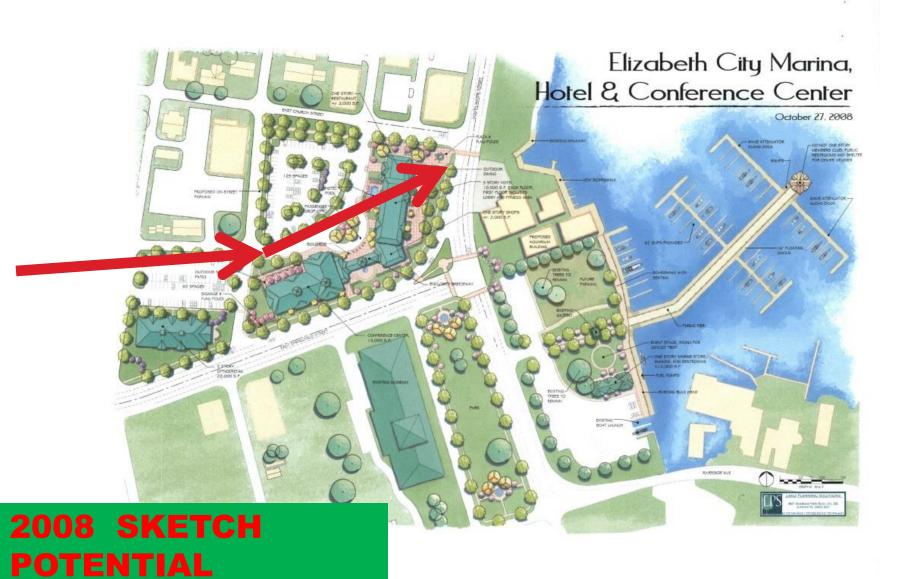
Existing Conditions



Canal Park and Development



- Retail and office or residential to north (could use for interim parking in early years)
- Create "Canal Park" to correct flooding problem, create open space and setting for development
- Site for new conference center hotel to south
 - 2001 SKETCH
 POTENTIAL
 DEVELOPMENT #1



DEVELOPMENT #2 A

TIBER CREEK STORMWATER

9/23/13

MANAGEMENT IMPROVEMENTS

46



TIBER CREEK STORMWATER
MANAGEMENT IMPROVEMENTS
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SUMMARY:

- 1. The Tiber Creek basin has approximately 341 acres with 13 drainage subbasins. Approx. 80% of the rainfall will attempt to runoff to the Pasquotank River.
- 2. There are over 3 miles of collection system conveying the stormwater to the existing pumping station at the corner of Church St and Water St.

SUMMARY CONT'D:

- 3. There are approximately 539 structures in the system with approximately 55 having problems as sediment, deterioration, and conflicts. Of the 55 at least 32 have serious sediment problems.
- 4. The final 1500 feet of the collection system from Road St to the pump station is a 112"(9.3') x 75"(6.3') arch cmp which is over 40% full with sediment and debris.

SUMMARY CONT'D:

- 5. Difficulty in accessing the pipe to remove the sediment is a challenge.
- 6. Consideration of opening back up a part of this 1500' corridor (subject to future development goals) may be an option to provide easier long term sediment removal capabilities.

Along Grice St. 1500'+ OF 112" X 75" ARCH CMP FROM ROAD ST TO PUMP STATION 2-3FT SEDIMENT; 40% FULL



SUMMARY CONT'D:

- 7. There are also ongoing issues with stormwater pond management, yard and street cleanup and vehicle storage area management.
- 8. Policy decisions need to be made concerning the development or redevelopment corridor along Grice Street relative to the potential for Downtown Waterfront Development.



THE END

TIBER CREEK STORMWATER MANAGEMENT IMPROVEMENTS 9/23/13