Northeast Brunswick Regional WWTP Off-Site Transmission System







January 17, 2019

Discussion

- Wastewater Flow & Projections/Coordination
- Expansion NE Brunswick Regional WWTP
- Improvements to Force Main Transmission System
- Project Costs/Allocations
- Design & Permit Status
- Schedule





Wastewater Projections & Coordination

- Capacity Study Completed October 2017
- Input & Meetings from Participants
- * Available Data (Census, Metered Flows, Reports, NC Data Center)
- Evaluated Multiple Growth & Projection Scenarios
- Final Recommendation 2.5 MGD Expansion
- 18-20 Year Projection (2035-2037)



Flow Projections & Allocations 4.975 MGD (2.5 MGD Expansion)

Partner	Current Allocation (MGD)	4.975 MGD Allocation (MGD)	Allocation Allocation	
Brunswick County	0.334975	0.334975	0	0
Town of Leland	1.160115	1.970416	0.810301	32.41%
Town of Navassa	0.169940	0.684609	0.514669	20.59%
City of Northwest	0.125000	0.125000	0	0
H2GO	0.684970	1.860000	1.175030	47.00%
Totals	2.475	4.975	2.50	100%

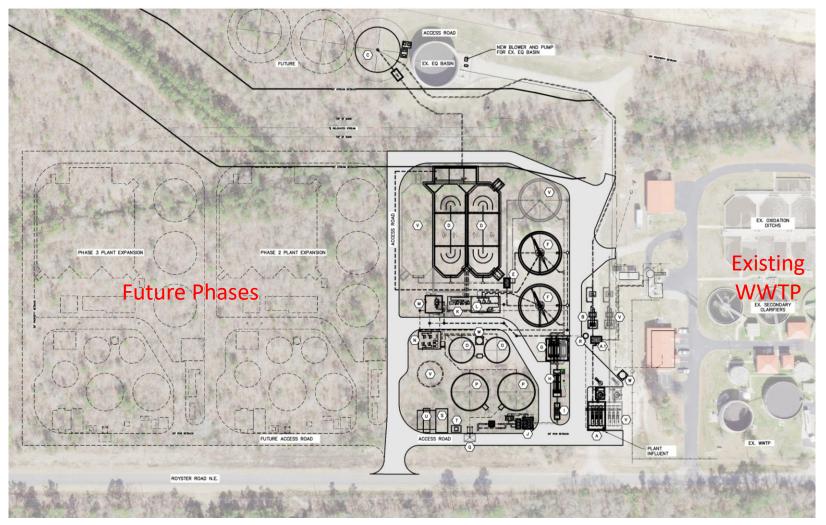


Existing NE Brunswick Regional WWTP 2.475 MGD Capacity





2.5 MGD (4.975 MGD) Expansion Plan





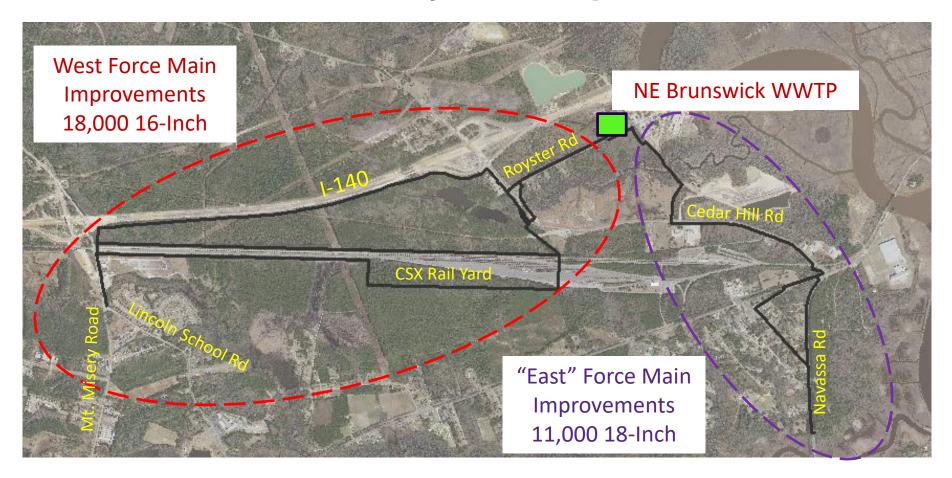
Proposed Transmission Main Sizing

- *** 2011 NE Brunswick Regional Wastewater Transmission Study**
- Phase 1 recommended transmission improvements completed
- Phase 1A (West) & Phase 2 (East) provide 4.975 MGD capacity
- Confirmed recommended pipe size for Phase 1A & Phase 2 are sufficient for the 4.975 MGD capacity





Proposed Force Main Transmission System Improvements





Opinion of Probable Project Costs 2.5 MGD Expansion (4.975 MGD)

Item	Cost Per Gallon	Remarks	
Construction	\$12.51	Plant Expansion & Transmission System Improvements	
Contingency (15%)	\$1.88	Budget Planning Contingency	
Technical Fees (10%)	\$1.25	Technical & Design Fees	
Total	\$15.64	Total Cost Per Gallon	
Capacity Expansion	2.5 MGD	Total Capacity - 4.975 MGD	
Total Opinion of Probable Cost	\$39.1M		



Flow Projections & Allocations 4.975 MGD (2.5 MGD Expansion)

Partner	Current Allocation (MGD)	4.975 MGD Allocation (MGD)	2.5 MGD Expansion Allocation (MGD)	% of Upgrade	Participant Cost Share (MM)
Brunswick County	0.334975	0.334975	0	0	\$0.0M
Town of Leland	1.160115	1.970416	0.810301	32.41%	\$12.67M
Town of Navassa	0.169940	0.684609	0.514669	20.59%	\$8.05M
City of Northwest	0.125000	0.125000	0	0	\$0.0M
H2GO	0.684970	1.860000	1.175030	47.00%	\$18.38M
Totals	2.475	4.975	2.50	100%	<u>\$39.1M</u>



Design & Permit Schedule

Task	Anticipated Completion Date		
Design	June 2019		
Permitting	September/October 2019		
Receive Bids	December 2019		
Construction Phase	January 2020 - August 2021		

- Basis of design complete
- Preliminary design complete 60% design in process
- NPDES Permit Application in process



Questions?



