



**HRSD CAPITAL IMPROVEMENT PROGRAM
FY 2009 TO FY 2013
MASTER SCHEDULE**

Project Grouping	Task Name	08		2009				2010				2011				2012				2				
		Jul	Oct	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct	Jan	Apr			
	AB-100 Army Base 24-Inch and 20-Inch Transmission Main Replacements																							
	AB-101 Army Base Treatment Plant Improvements Phase III																							
	AB-102 Army Base Treatment Plant Incinerator Improvements and Venturi Replacement																							
	AB-105 Section W Force Main Replacement																							
	AB-106 Army Base Treatment Plant Bypass Gate Improvement																							
	AB-107 Army Base Treatment Plant Women's Locker Room Improvement																							
	AB-108 Army Base Treatment Plant Scum Concentrator Replacement																							
	AD-100 Business Process and System Integration Evaluation																							
	AD-102 Central Environmental Laboratory Emergency Generator Upgrade																							
	AD-103 Customer Accounts Receivable/Cashiering/ Billing Function																							
	AD-104 Environmental Data Management System (Formally Data Management System)																							
	AD-107 North Shore Maintenance Center Phase III																							
	AD-109 Operations Center Emergency Generator Replacement																							
	AD-113 South Shore Interceptors Operations Locker Room Upgrades																							
	AD-114 South Shore Interceptors Remote Operations Facility																							
	AD-115 Customer Service Roof Replacement																							
	AT-100 Atlantic Pressure Reducing Station Emergency Generator Replacement																							
	AT-101 Atlantic Treatment Plant Building Roof Replacements																							
	AT-103 Atlantic Treatment Plant Environmental Management System (EMS) Development																							
	AT-104-3 Atlantic Treatment Plant Expansion Phase I Contract C																							
	AT-105 Atlantic Treatment Plant Primary Clarifier Renovation																							
	AT-106 Atlantic Trunk Force Main Replacement/ Relocation																							

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	AT-107-1 East Princess Anne Trunk Force Main Reinforcement - Section A	[Blue bar spanning from Jul 08 to Oct 2010]																			
	AT-107-2 East Princess Anne Trunk Force Main Reinforcement - Section B (VDOT)	[Blue bar spanning from Jul 08 to Oct 2010]																			
	AT-108 Eastern Branch Sections A & B, Green Run Section C, and 24-Inch Kempsville Road Force Main Replacements	[Blue bar spanning from Jul 08 to Jul 2010]																			
	AT-112-1 Hilltop/Point O'Woods Interceptor Force Main Replacements; Section A	[Blue bar spanning from Jul 08 to Apr 2010]																			
	AT-112-2 Hilltop/Point O'Woods Interceptor Force Main Replacements; Section B	[Blue bar spanning from Jul 08 to Apr 2010]																			
	AT-113-1 Lake Ridge Interceptor Force Main Section B - Contract 1 (HDD)	[Blue bar spanning from Jul 08 to Jan 2009]																			
	AT-113-2 Lake Ridge Interceptor Force Main Section B - Contract 2 (Land)	[Blue bar spanning from Jul 08 to Apr 2009]																			
3	AT-114 Providence Road Pressure Reducing Station Modifications	[Blue bar spanning from Oct 2008 to Jul 2010]																			
3	AT-115 Shipps Corner Pressure Reducing Station Modifications	[Blue bar spanning from Oct 2008 to Oct 2010]																			
5	AT-116 Elbow Road Pressure Reducing Station	[Blue bar spanning from Jan 2009 to Oct 2011]																			
	BH-100 33rd Street Pump Station Replacement/Rehabilitation	[Blue bar spanning from Jul 08 to Oct 2010]																			
	BH-101 58th Street Connecting Sewer Rehabilitation	[Blue bar spanning from Jul 2010 to Oct 2011]																			
	BH-102 Boat Harbor Treatment Plant Administration Building Renovations	[Blue bar spanning from Jul 08 to Oct 2008]																			
	BH-103 Boat Harbor Treatment Plant Biosolids Receiving Facility Improvements	[Blue bar spanning from Jul 08 to Apr 2010]																			
	BH-106 Boat Harbor Treatment Plant Odor Control Improvements Phase III	[Blue bar spanning from Jul 08 to Apr 2010]																			
	BH-107 Boat Harbor Treatment Plant Return Biosolids Piping Replacement	[Blue bar spanning from Jul 08 to Jul 2008]																			
	BH-111 Claremont Avenue Pump Station Rehabilitation	[Blue bar spanning from Jul 08 to Oct 2008]																			
4	BH-112 Hampton Trunk Sewer Division A Replacement	[Blue bar spanning from Oct 2008 to Apr 2010]																			
	BH-113 Ivy Home - Shell Road Sewer Extension Division I Study	[Blue bar spanning from Jul 08 to Apr 2009]																			
4	BH-114 James River Diversion 35th Street Phase III and Boat Harbor Outlet Sewer Relocation I-664 Rehabilitation	[Blue bar spanning from Oct 2008 to Jan 2009]																			
6	BH-116 Bridge St. Pump Station Replacement/Rehabilitation	[Blue bar spanning from Jul 2010 to Jul 2011]																			
2	BH-117 Boat Harbor Treatment Plant Mechanical Aerator and Sidestream Treatment Process Improvement	[Blue bar spanning from Jul 08 to Oct 2010]																			

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	BH-118 James River Diversion Sewer - 46th Street Diversion Sewer Study	████████████████████																					
	BH-119 Boat Harbor Treatment Plant Bypass Gate Improvements	████████████████████																					
	CE-100 Chesapeake-Elizabeth Treatment Plant Chlorine Injection Vault Demolition									████████████████████													
	CE-101 Chesapeake-Elizabeth Treatment Plant Improvements Phase I	██																					
	CE-102 Chesapeake-Elizabeth Treatment Plant Outfall Pipe Repair and Replacement	████████████████████																					
	CE-103 Chesapeake-Elizabeth Treatment Plant Solids Handling Motor Control Center Replacements	██████████████████																					
	CE-105 Newtown Road Interceptor Force Main Relocation									████████████████████				████████████████████									
1	CE-106 Chesapeake-Elizabeth Treatment Plant Odor Control Improvements Phase IV	████████████████████																					
6	CE-107 Quail Street Pressure Reducing Station Replacement/Rehabilitation					██████████████████				████████████████████				████████████████████									
	GN-100 Arc Flash Calculation	████████████████████																					
	GN-101 Army Base and Boat Harbor Treatment Plant Secondary Clarifier Renovation	██████████████████																					
	GN-103 Centrifuge Controls Replacements	██████████████████																					
	GN-104 Computerized Maintenance Management System	██████████																					
	GN-106-1 Geographic Information System (GIS) Phase I			██████████																			
	GN-107-1 Horizontal Valve Repair and Replacement (2007)	████████████████████																					
	GN-107-2 Horizontal Valve Repair and Replacement (2008)					██████████████████				████████████████████				████████████████████									
	GN-109-3 Interceptor System Metering Phase IV	████████████████████																					
	GN-110 Woodland Road and Ferguson Park Pump Station Hydraulic Studies					██████████																	
	GN-113 Nansemond Treatment Plant Regional Residuals Facility	██████████████████																					
	GN-114 Pressure Control Valve Improvements	██████████																					
	GN-115 Pump Station Diesel Generator Replacements	██████████████████																					
	GN-116-1 Pump Station Drive Upgrade and Replacement (2007)	██████████																					

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	GN-116-2 Pump Station Drive Upgrade and Replacement (2008)	█																					
	GN-117 Pump Station Generators	█																					
	GN-119 Pump Station Roof Replacements	█																					
	GN-121 Regional Hydraulic Model and Other Consent Order Requirements	█																					
	GN-122 South Shore Diversion Improvements	█																					
	GN-123 Trap Grease Study Phase I	█																					
	GN-127 Grit and Grease Disposal Facilities – North Shore System					█																	
	GN-128 Interceptor Systems Pump Station Control and SCADA Upgrades and Enhancements	█																					
	GN-129 Trap Grease Study Phase II	█																					
	JR-100 Center Avenue Pump Station Replacement	█																					
	JR-101 Center Avenue Pump Station Service Area I/I Remediation	█																					
	JR-102 James River Treatment Plant IFAS Demonstration Project	█																					
	JR-103-1 James River Treatment Plant Improvements - Phase I	█																					
	JR-105 James River Treatment Plant Water Reclamation Facility Study			█																			
3	JR-106 Lucas Creek Pump Station Upgrade	█																					
	JR-108 Normandy Lane Interceptor Force Main Replacement	█																					
	JR-109-1 Williamsburg-James River Connection Force Main Section II and Lucas Creek-Woodhaven Interceptor Force Main Repl.	█																					
	MP-103 Mathews Transmission Force Main and Pump Stations Phase I	█																					
	MP-104 West Point 2nd Street Sanitary Sewer and Force Main Replacements	█																					
	MP-105 West Point Collection System SSES	█																					
	MP-106 West Point Taylor Avenue and Thompson Avenue Trunk Sewer Replacement	█																					
	MP-107 King William Treatment Plant Expansion Outfall Study	█																					

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	MP-108 Middle Peninsula Operations Center	[Blue bar spanning from Jul 08 to Apr 2010]																			
	MP-109 West Point Treatment Plant Expansion and Upgrade Outfall Study	[Blue bar spanning from Jul 08 to Apr 2009]																			
	NP-102 Nansemond Treatment Plant Digester Rehabilitation	[Blue bar spanning from Jul 08 to Oct 08]																			
	NP-103 Nansemond Treatment Plant Grit/Primary Concrete Rehabilitation	[Blue bar spanning from Jul 08 to Oct 08]																			
	NP-104 Nansemond Treatment Plant Nutrient Reduction Improvements Phase I	[Blue bar spanning from Jul 08 to Oct 2010]																			
3	NP-106 Wilroy Pressure Reducing Station, Pughsville PRS Upgrades, Suffolk PS Upgrades	[Blue bar spanning from Jul 08 to Oct 2011]																			
	NP-107 Cedar Road System Pressure Study	[Blue bar spanning from Jul 08 to Apr 2009]																			
	NP-108 Smithfield Pressure Reducing Station	[Blue bar spanning from Jul 2010 to Apr 2012]																			
	NP-109 Nansemond Treatment Plant Grease Handling Facilities	[Blue bar spanning from Jul 2010 to Apr 2011]																			
	NP-110 Nansemond Treatment Plant Grit System Improvements	[Blue bar spanning from Jul 2010 to Apr 2011]																			
	NP-111 Nansemond Treatment Plant Odor Study Phase I	[Blue bar spanning from Jul 08 to Apr 2009]																			
	NP-112 Nansemond Treatment Plant Roof Rehabilitations	[Blue bar spanning from Jul 08 to Oct 2010]																			
	VIP-101 HRT - Norfolk Light Rail Transit	[Blue bar spanning from Jul 08 to Apr 2009]																			
	VIP-102 Jefferson Street/Camden Avenue Force Main Relocation (Portsmouth Prentis Park Water and Sewer Phase I)	[Blue bar spanning from Jul 08 to Apr 2009]																			
	VIP-103 Luxembourg Avenue and Rodman Avenue Pump Station Electrical System Replacements	[Blue bar spanning from Jul 08 to Apr 2009]																			
	VIP-104 North Trunk Sewer Section D 24-Inch Interceptor Force Main Replacement	[Blue bar spanning from Jul 08 to Apr 2009]																			
	VIP-105 North Trunk Sewer Section R 6-Inch Interceptor Force Main and 10-Inch Gravity Replacement	[Blue bar spanning from Jul 08 to Oct 2010]																			
	VIP-106 North Trunk Sewer Section W 8-Inch and 12-Inch Force Mains and Larchmont Force Mains (Formerly Siphon Lines) Rep	[Blue bar spanning from Jul 08 to Apr 2010]																			
	VIP-109 Norview Estabrook Division I 18-Inch Force Main Replacement Phase II (Norfolk Fairmount Park Phase IX)	[Blue bar spanning from Jul 2009 to Apr 2011]																			
	VIP-110 Park Avenue Pump Station Replacement	[Blue bar spanning from Jul 2009 to Apr 2011]																			
	VIP-114 Sanitary Sewer Project-1950 Rehabilitation Phase V	[Blue bar spanning from Jul 08 to Apr 2010]																			
	VIP-116 Sewerage System Improvements Division C, Phase II	[Blue bar spanning from Jul 2009 to Apr 2011]																			

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	VIP-119 South Trunk Sewer Section C 24-Inch Force Main Relocation (Sentara Hospital Parking Garage Conflict)	█																			
	VIP-120 South Trunk Sewer Section F 20-Inch, Section H 8-Inch, and Section H 12-Inch Interceptor Force Main Replacement and	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
	VIP-121 State Street Pump Station Electrical Modifications	█	█	█																	
	VIP-122 VIP Treatment Plant Concrete Repair and Coatings	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
	VIP-127 VIP Treatment Plant Roof Repair/Replacement	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
	VIP-128 VIP Treatment Plant Secondary Clarifier Repairs and Coating	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
	VIP-129 Virginia Beach Boulevard - Military Highway Extension Relocation - VDOT Betterment	█	█	█																	
5	VIP-130 Norchester St Pump Station Replacement/Rehabilitation			█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
	VIP-131 South Trunk Sewer Section C-42 inch Force Main Replacement									█	█	█	█	█	█	█	█	█	█	█	█
	VIP-132 South Trunk Sewer Section G-36 inch Force Main Replacement									█	█	█	█	█	█	█	█	█	█	█	█
	VIP-133 Sanitary Sewer System Portsmouth VA Contract A Clifford Street Force Main					█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
	VIP-134 VIP Gravity Influent Study											█	█								
	VIP-135 VIP Treatment Plant Incinerator Transformer Replacement	█	█	█																	
	VIP-136 VIP Treatment Plant Incinerator Venturi Replacement	█	█	█	█	█															
5	VIP-137 VIP Treatment Plant Wetwell Rehabilitation			█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
	WB-101 Ford's Colony Pump Station Improvements	█																			
	WB-102 Kingsmill Pump Station Generator Installation	█	█	█																	
3	WB-103 Lee Hall Pressure Reducing Station and Yard Piping Upgrades			█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
	WB-105 Stonehouse Satellite Water Reclamation Facility Study	█																			
	WB-107 Williamsburg Interceptor Force Main Contract A Replacement	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
	WB-110 Williamsburg Treatment Plant DCS Upgrade	█	█	█	█	█															
	WB-111 Williamsburg Treatment Plant Oxidation Tower Repairs	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█

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