



SSO SSDP Project Fact Sheet



SSO Project Number: S_OR_MF_NB01_M_01_B

Project Name: Mellwood System Improvements and PS Eliminations 1
- Mellwood PS & Force Main

Modeled Area: ORFM

Branch or SSO ID: NB01

Project Type: Pump Station & Pipe Upgrades

Receiving Stream: Muddy Fork Beargrass Creek

Project Description: This alternative includes a total pump station upgrade at Mellwood PS to 3.5 MGD and replace approximately 1,240 LF of 6" of force main with 15". PS needs to be flood-proofed due to its proximity to the Ohio River.

Reason for Overflow: Pump station capacity & system capacity

Design Parameters / Assumptions: This solution is based on a 2.25 inch cloudburst rain event

Project Constraints: None

Capital Projects: F06298 ~ Canoe Pump Station Elimination - Under Design; 2005 ~ Jarvis Pump Station upgrades - Completed

Estimated Capital Cost (2008 dollars): \$2,168,000

Weighted Benefit/Cost Ratio (Present Worth): 26.97




















Overflow Points Addressed:

<u>SSO</u>	<u>SSO Name</u>	<u>Service Area</u>	<u>Overflow Type</u>	<u>Discharge To</u>	<u>Average Overflow / Incident (gallons)</u>
24472	501 Mockingbird Valley Road	Morris Forman	Manhole	Stream	MOP-no data
26752	Brownsboro Road at Mockingbird Valley #1	Morris Forman	Manhole	Ditch	25
41374	Brownsboro Road at Mockingbird Valley #2	Morris Forman	Manhole	Ditch	100
41416	3202 Brownsboro Road	Morris Forman	Manhole	Ditch	Suspected-no data
24152-W	3733 Canoe Lane (Wet Well for Canoe Ln PS)	Morris Forman	Constructed	Stream	60,750
MSD0007-PS	Mockingbird Valley	Morris Forman	Constructed	Ditch	10,840
MSD0010-PS	Winton	Morris Forman	Constructed	Catch Basin	45
MSD0023-PS	Mellwood Avenue	Morris Forman	Constructed	Stream	287,472
MSD0024-PS	Canoe Lane	Morris Forman	Lift Station	Ditch	15,769

Integrated Overflow Abatement Plan
Vol. 3 - Sanitary Sewer Discharge Plan
 Ohio River Force Main Sewershed
 Solution ID # S_OR_MF_NB01_M_01_B
 Mellwood System Improvements &
 PS Eliminations 1 - Mellwood PS & Force Main

Preliminary - For Budget Development Only

Legend

-  Documented SSO
-  Suspected SSO
-  Haul Operation
-  Proposed Pump Station Solution
-  Pump Station
-  WWTP
-  Proposed Pipe Solution
-  Force Main
-  Collector < 12"
-  Interceptor => 12"
-  Combined Sewer Pipe
-  Proposed Off-line Storage
-  Road
-  Streams
-  Floodway
-  Small WWTP Service Area
-  Large WWTP Service Area
-  CSO Area
-  Metro Parks

General representation of overflow abatement solutions are for preliminary planning purposes. Alignments and locations may be altered during design.

1 inch equals 200 feet
 Scalable when printed on 11" X 17" paper



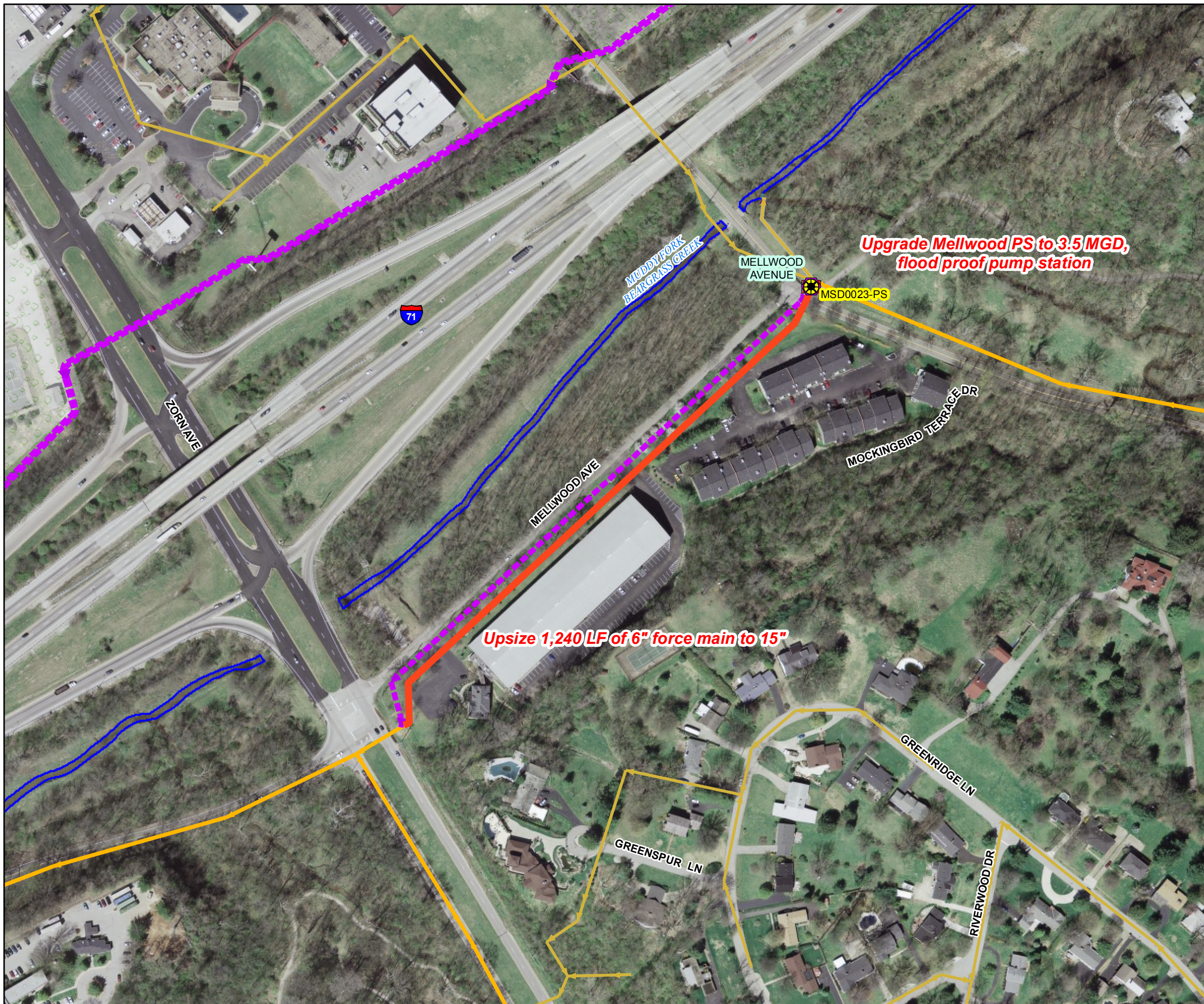
Some boundaries are uniquely symbolized within the map.

Map Revision
 May 7, 2009

Aerial Date: 2006



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SSO SSDP Project Fact Sheet



SSO Project Number: S_OR_MF_NB01_M_01_B

Project Name: Mellwood System Improvements and PS Eliminations 2
- Winton Ave PS / Mockingbird Valley PS Eliminations

Modeled Area: ORFM

Branch or SSO ID: NB01

Project Type: Pipe Upgrades & Diversion

Receiving Stream: Muddy Fork Beargrass Creek

Project Description: This alternative includes the replacement of approximately 1,890 LF of 8" gravity sewer flowing into Mockingbird Valley PS. Installation of 400 LF of 8" pipe for Winton Diversion and 2,200 LF of 15" pipe for Mockingbird Diversion. 300 LF of the sewer is tunneled. Winton and Mockingbird Valley PS will be eliminated.

Reason for Overflow: Pump station capacity & system capacity

Design Parameters / Assumptions: This solution is based on a 2.25 inch cloudburst rain event

Project Constraints: None

Capital Projects: F06298 ~ Canoe Pump Station Elimination - Under Design; 2005 ~ Jarvis Pump Station upgrades - Completed

Estimated Capital Cost (2008 dollars): \$887,000

Weighted Benefit/Cost Ratio (Present Worth): 26.97

Overflow Points Addressed:

<u>SSO</u>	<u>SSO Name</u>	<u>Service Area</u>	<u>Overflow Type</u>	<u>Discharge To</u>	<u>Average Overflow / Incident (gallons)</u>
24472	501 Mockingbird Valley Road	Morris Forman	Manhole	Stream	MOP-no data
26752	Brownsboro Road at Mockingbird Valley #1	Morris Forman	Manhole	Ditch	25
41374	Brownsboro Road at Mockingbird Valley #2	Morris Forman	Manhole	Ditch	100
41416	3202 Brownsboro Road	Morris Forman	Manhole	Ditch	Suspected-no data
24152-W	3733 Canoe Lane (Wet Well for Canoe Ln PS)	Morris Forman	Constructed	Stream	60,750
MSD0007-PS	Mockingbird Valley	Morris Forman	Constructed	Ditch	10,840
MSD0010-PS	Winton	Morris Forman	Constructed	Catch Basin	45
MSD0023-PS	Mellwood Avenue	Morris Forman	Constructed	Stream	287,472
MSD0024-PS	Canoe Lane	Morris Forman	Lift Station	Ditch	15,769

Integrated Overflow Abatement Plan
Vol. 3 - Sanitary Sewer Discharge Plan
 Ohio River Force Main Sewershed
 Solution ID # S_OR_MF_NB01_M_01_B
 Mellwood System Improvements &
 PS Eliminations 2 - Winton Ave PS /
 Mockingbird Valley PS Eliminations

Preliminary - For Budget Development Only

Legend

- Documented SSO
- Suspected SSO
- Haul Operation
- Proposed Pump Station Solution
- Pump Station
- WWTP
- Proposed Pipe Solution
- Force Main
- Collector < 12"
- Interceptor => 12"
- Combined Sewer Pipe
- Proposed Off-line Storage
- Road
- Streams
- Floodway
- Small WWTP Service Area
- Large WWTP Service Area
- CSO Area
- Metro Parks

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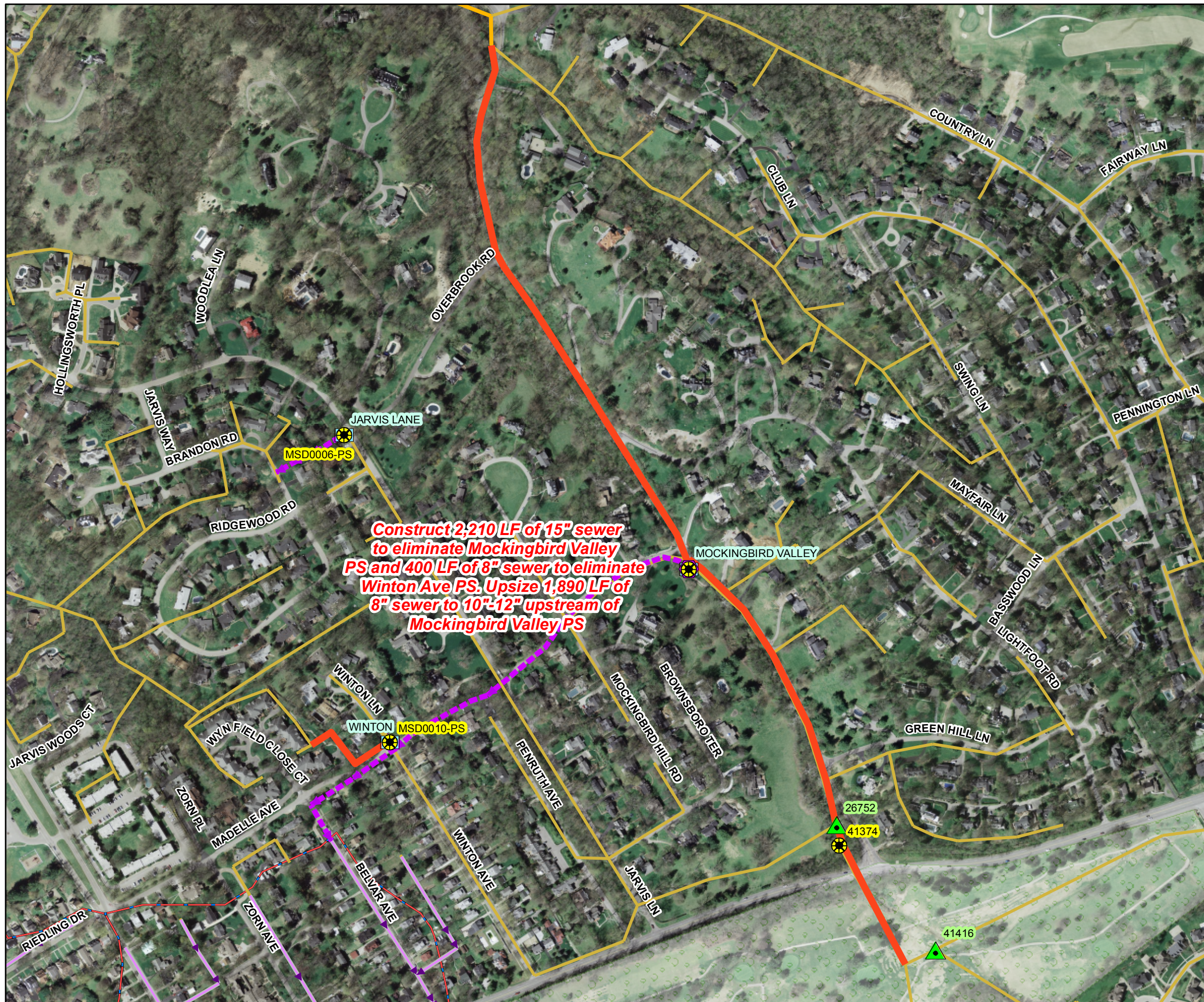
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Construct 2,210 LF of 15" sewer to eliminate Mockingbird Valley PS and 400 LF of 8" sewer to eliminate Winton Ave PS. Upsize 1,890 LF of 8" sewer to 10"-12" upstream of Mockingbird Valley PS



SSO SSDP Project Fact Sheet



SSO Project Number: S_OR_MF_NB02_S_13_C

Project Name: Leland Rd. SSO Investigation

Modeled Area: ORFM

Branch or SSO ID: NB02

Project Type: Condition Assessment

Receiving Stream: Cherrywood Creek

Project Description: Perform periodic condition assessment for three years and monitor location during rain events.

Reason for Overflow: Hydraulic bottleneck - Suspected Blockage

Design Assumptions: Cleaning/flushing has occurred twice since March 2006 (last documented overflow date) and no additional overflows have been reported since that date. Overflow is believed to be a maintenance issue.

Project Constraints: None

Estimated Capital Cost (2008 dollars): This work will be performed under the SORP/CMOM programs

Weighted Benefit/Cost Ratio (Present Worth): --

Overflow Points Addressed:

<u>SSO</u>	<u>SSO Name</u>	<u>Service Area</u>	<u>Overflow Type</u>	<u>Discharge To</u>	<u>Average Overflow / Incident (gallons)</u>
96020	Leland Road	Morris Forman	Manhole	Ground	20

Integrated Overflow Abatement Plan

Vol. 3 - Sanitary Sewer Discharge Plan




















Ohio River Force Main Sewershed

Solution ID # S_OR_MF_NB02_S_13_C

Leland Rd SSO Investigation

Preliminary - For Budget Development Only

Legend

-  Documented SSO
-  Suspected SSO
-  Haul Operation
-  Proposed Pump Station Solution
-  Pump Station
-  WWTP
-  Proposed Pipe Solution
-  Force Main
-  Collector < 12"
-  Interceptor => 12"
-  Combined Sewer Pipe
-  Proposed Off-line Storage
-  Road
-  Streams
-  Floodway
-  Small WWTP Service Area
-  Large WWTP Service Area
-  CSO Area
-  Metro Parks

Perform periodic condition assessment for three years and monitor location during rain events.

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SSO SSDP Project Fact Sheet



SSO Project Number: S_OR_MF_NB03_S_07_C

Project Name: Derington Ct. PS I/I Investigation and Rehabilitation

Modeled Area: ORFM

Branch or SSO ID: NB03

Project Type: I/I Reduction

Receiving Stream: Goose Creek

Project Description: This location will be targeted for I/I source control (I/I rehab and private property program). A full SSES will be performed upstream of this PS. If I/I reduction is deemed unsuccessful in eliminating the SSO, the next best alternative will be implemented, which is Inline Storage.

Reason for Overflow: Pump station capacity

Design Parameters / Assumptions: This solution is based on a 1.82 inch cloudburst rain event

Project Constraints: None

Estimated Capital Cost (2008 dollars): \$265,000 (Cost is for SSES only; rehabilitation will be performed under Annual I/I Rehab contracts and the private property program)

Weighted Benefit/Cost Ratio (Present Worth): Only cost calculated for SSES, no benefits are calculated.

Overflow Points Addressed:

<u>SSO</u>	<u>SSO Name</u>	<u>Service Area</u>	<u>Overflow Type</u>	<u>Discharge To</u>	<u>Average Overflow / Incident (gallons)</u>
MSD0095-PS	Derington Court	Morris Forman	Pumped	Stream	18,875

Integrated Overflow Abatement Plan

Vol. 3 - Sanitary Sewer Discharge Plan

Ohio River Force Main Sewershed




















Solution ID # S_OR_MF_NB03_S_07_C

Derington Ct. PS I&I

Investigation & Rehabilitation

Preliminary - For Budget Development Only

Legend

-  Documented SSO
-  Suspected SSO
-  Haul Operation
-  Proposed Pump Station Solution
-  Pump Station
-  WWTP
-  Proposed Pipe Solution
-  Force Main
-  Collector < 12"
-  Interceptor => 12"
-  Combined Sewer Pipe
-  Proposed Off-line Storage
-  Road
-  Streams
-  Floodway
-  Small WWTP Service Area
-  Large WWTP Service Area
-  CSO Area
-  Metro Parks

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