

<u>Project Name:</u>

## SSO SSDP Project Fact Sheet



SSO Project Number: S\_MISF\_MF\_NB01\_M\_01\_C\_A1

Middle Fork Relief Interceptor, Wet Weather Storage, and

UMFLS Diversion 1- Buechel Basin

Modeled Area: Middle Fork

Branch or SSO ID: MF01

**Project Type:** Off-line Storage

**Receiving Stream:**Middle Fork Beargrass Creek, South Fork Beargrass Creek, Greasy

Ditch, and Goose Creek

**Project Description:** This alternative includes constructing a 17.3 MG offline storage facility

at the Buechel Site. The Buechel storage facility will be designed to

allow for future expansion.

Reason for Overflow: System capacity

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

<u>Project Constraints:</u> Property Acquisition, Potential Wetlands at Buechel Site

<u>Capital Projects:</u>
Southeastern Diversion Structure and Relief Interceptor

**Estimated Capital Cost (2008** 

dollars):

\$13,478,000

Weighted Benefit/Cost Ratio

(Present Worth):

1.26

#### **Overflow Points Addressed:**

<u>sso</u>	<u>SSO Name</u>	<u>Service Area</u>	Overflow Type	<u>Discharge To</u>	Incident (gallons)
2321	Peabody Lane #1	Morris Forman	Constructed	Stream	2,309,980
23212	Peabody Lane #2	Morris Forman	Manhole	Ground	9,720

	Bridge #6 - Cherokee				
27005	Park	Morris Forman	Manhole	Ground	2,152,664
	Beargrass Road near				
45835	Big Rock	Morris Forman	Manhole	Ground	456,021
47583	Oxmoor #4	Morris Forman	Manhole	Stream	2,557,520
	Near LG&E Power				
47593	Station	Morris Forman	Manhole	Ground	359,960
47596	* EA 1500' SW	Morris Forman	Manhole	Ground	Suspected- no data
47603	Kindercare #1	Morris Forman	Manhole	Ground	120
47604	Kindercare #2	Morris Forman	Manhole	Ground	17,083
02932	Oxmoor #1	Morris Forman	Manhole	Ground	1,203,000
02933	Oxmoor #2	Morris Forman	Manhole	Stream	150,000
02935	Oxmoor #3	Morris Forman	Manhole	Stream	3,420
	Northern Ditch Blow-				
08537	off	Morris Forman	Constructed	Stream	115,500,000
	Middle Fork at				
08935-SM	Breckenridge Lane	Morris Forman	Constructed	Stream	3,020,300
51160	Peabody Lane #3	Morris Forman	Manhole	Ground	55,500
51161	Brooklawn	Morris Forman	Manhole	Ground	438,000
	Watterson Expressway at South Fork				
51221	Beargrass Creek	Morris Forman	Constructed	Stream	13,500
90700	Christian Court	Morris Forman	Manhole	Catch Basin	5,400
ISO21A-SI	Bowman Field Siphon	Morris Forman	Constructed	Stream	No data

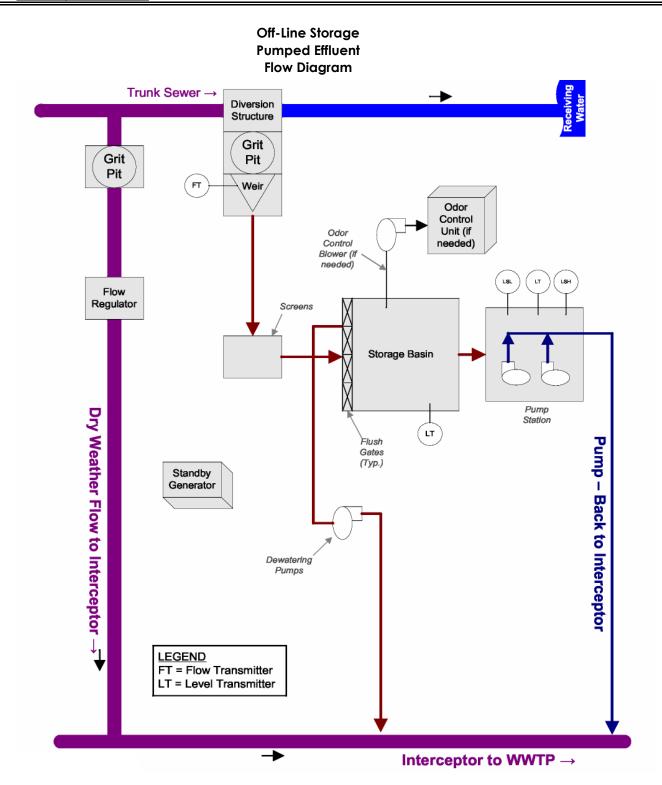


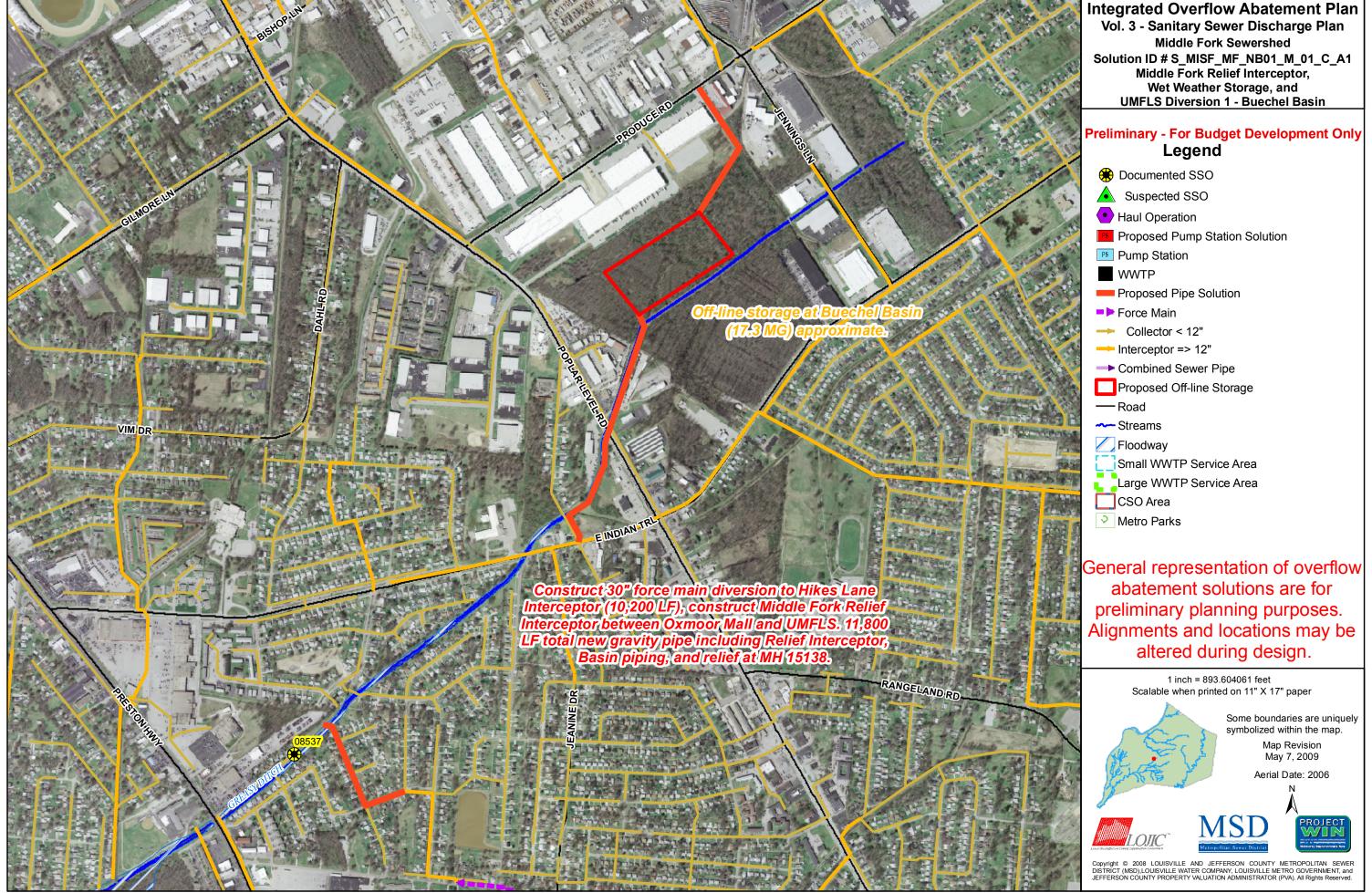
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**Project Name:** 

## SSO SSDP Project Fact Sheet



SSO Project Number: S\_MISF\_MF\_NB01\_M\_01\_C\_A1

Middle Fork Relief Interceptor, Wet Weather Storage, and

UMFLS Diversion 2 - PS Diversion and Storage

Modeled Area: Middle Fork

Branch or SSO ID: MF01

**Project Type:** Off-line Storage & Pipe Upgrades

**Receiving Stream:** Middle Fork Beargrass Creek, South Fork Beargrass Creek, Greasy

Ditch, and Goose Creek

**Project Description:** This alternative includes constructing 10,200 LF of 30" Force Main

Diversion to Hikes Lane Interceptor from Ex UMFLS. Construct Middle

Fork Relief Interceptor between Oxmoor and Middle Fork at

Breckenridge. Construct 1.6 MG covered facility near Car Wash Site. Upsize pipe downstream of MH 15138 to 18". 11,800 LF total new gravity pipe including Relief Interceptor, storage piping, and relief at

manhole 15138.

**Reason for Overflow:** System capacity

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

**Project Constraints:** Property Acquisition, Stream Crossings for MFRI

<u>Capital Projects:</u>
Southeastern Diversion Structure and Relief Interceptor

Estimated Capital Cost (2008

dollars):

\$13,149,000

Weighted Benefit/Cost Ratio

(Present Worth):

1.26

### **Overflow Points Addressed:**

<u> </u>	SSO Name	Service Area	Overflow Type	<u>Discharge To</u>	Average Overflow / Incident (gallons)
23211	Peabody Lane #1	Morris Forman	Constructed	Stream	2,309,980
23212	Peabody Lane #2	Morris Forman	Manhole	Ground	9,720
27005	Bridge #6 - Cherokee Park	Morris Forman	Manhole	Ground	2,152,664
45835	Beargrass Road near Big Rock	Morris Forman	Manhole	Ground	456,021
47583	Oxmoor #4	Morris Forman	Manhole	Stream	2,557,520
47593	Near LG&E Power Station	Morris Forman	Manhole	Ground	359,960
47596	* EA 1500' SW	Morris Forman	Manhole	Ground	Suspected- no data
47603	Kindercare #1	Morris Forman	Manhole	Ground	120
47604	Kindercare #2	Morris Forman	Manhole	Ground	17,083
02932	Oxmoor #1	Morris Forman	Manhole	Ground	1,203,000
02933	Oxmoor #2	Morris Forman	Manhole	Stream	150,000
02935	Oxmoor #3	Morris Forman	Manhole	Stream	3,420
08537	Northern Ditch Blow- off	Morris Forman	Constructed	Stream	115,500,000
08935-SM	Middle Fork at Breckenridge Lane	Morris Forman	Constructed	Stream	3,020,300
51160	Peabody Lane #3	Morris Forman	Manhole	Ground	55,500
51161	Brooklawn	Morris Forman	Manhole	Ground	438,000
	Watterson Expressway at South Fork				
51221	Beargrass Creek	Morris Forman	Constructed	Stream	13,500
90700	Christian Court	Morris Forman	Manhole	Catch Basin	5,400
ISO21A-SI	Bowman Field Siphon	Morris Forman	Constructed	Stream	No data

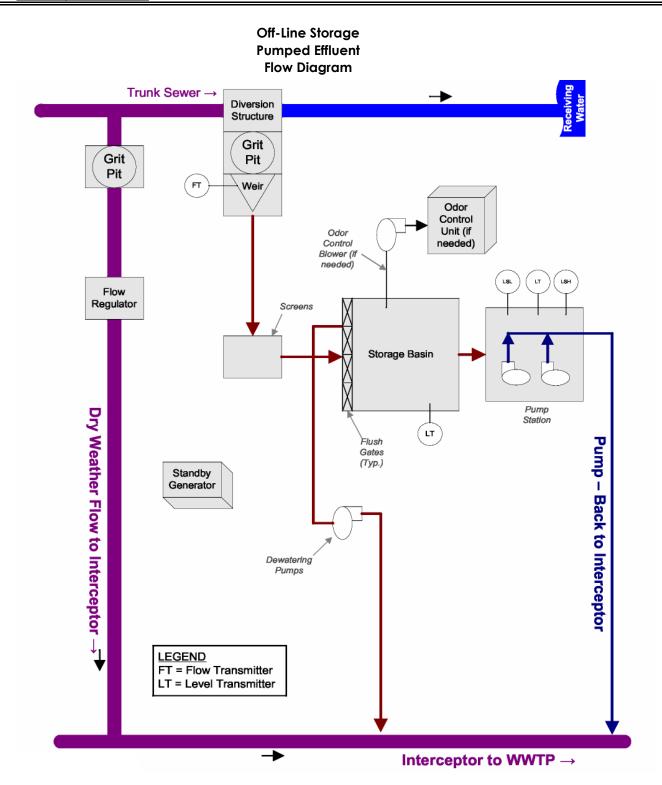


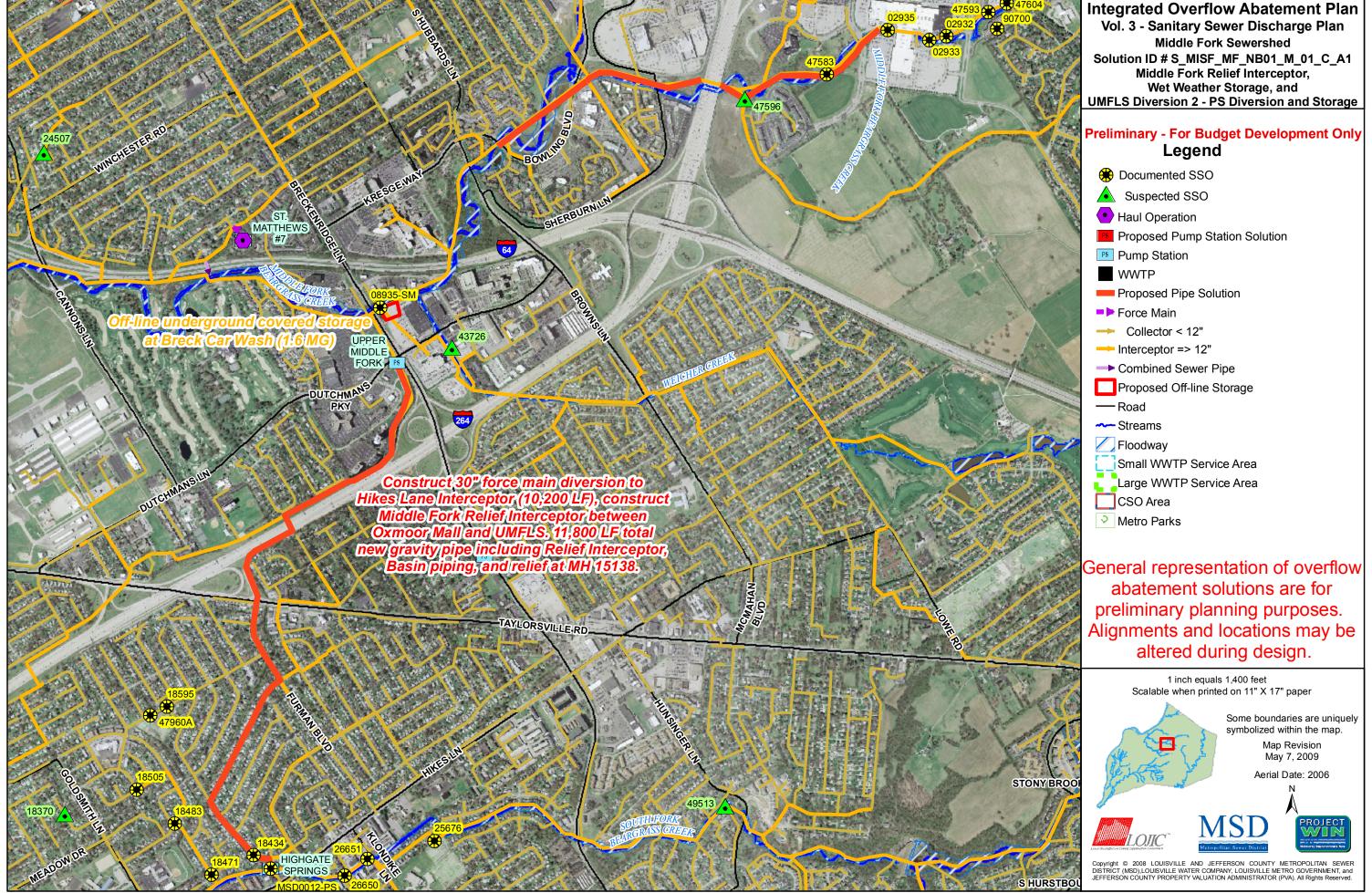
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**SSO Project Number:** 

S\_MISF\_MF\_NB01\_M\_01\_C\_A1







**Project Name:** 

# SSO SSDP Project Fact Sheet



SSO Project Number: S\_MI\_MF\_NB04\_M\_03\_B

Goose Creek PS Improvements and Wet Weather Storage 1

- Devondale Wet Weather Storage

Modeled Area: Middle Fork

Branch or SSO ID: MF04

<u>Project Type:</u> Offline Storage

Receiving Stream: Goose Creek

<u>Project Description:</u> This alternative includes constructing a 0.5 MG covered storage basin

near Devondale Pump Station.

**Reason for Overflow:** Pump station capacity

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

Project Constraints:

Estimated Capital Cost (2008 dollars): \$1,781,000

Weighted Benefit/Cost Ratio (Present

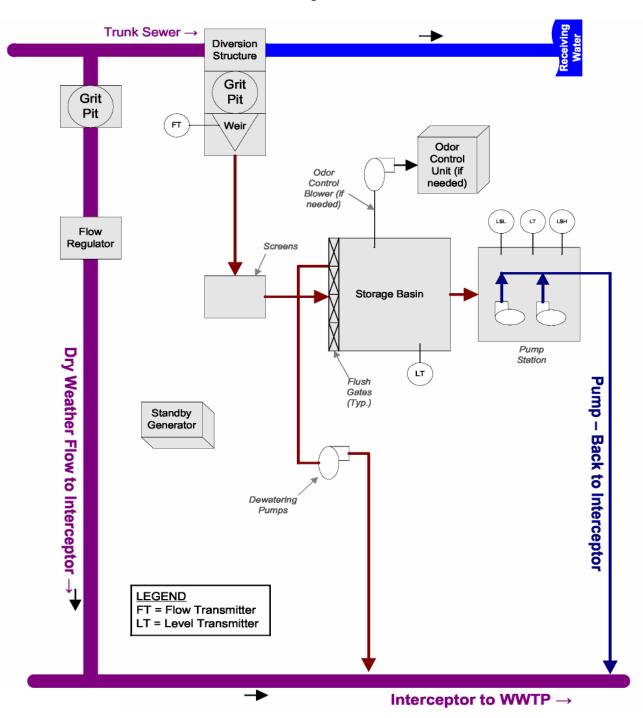
Worth): 11.00

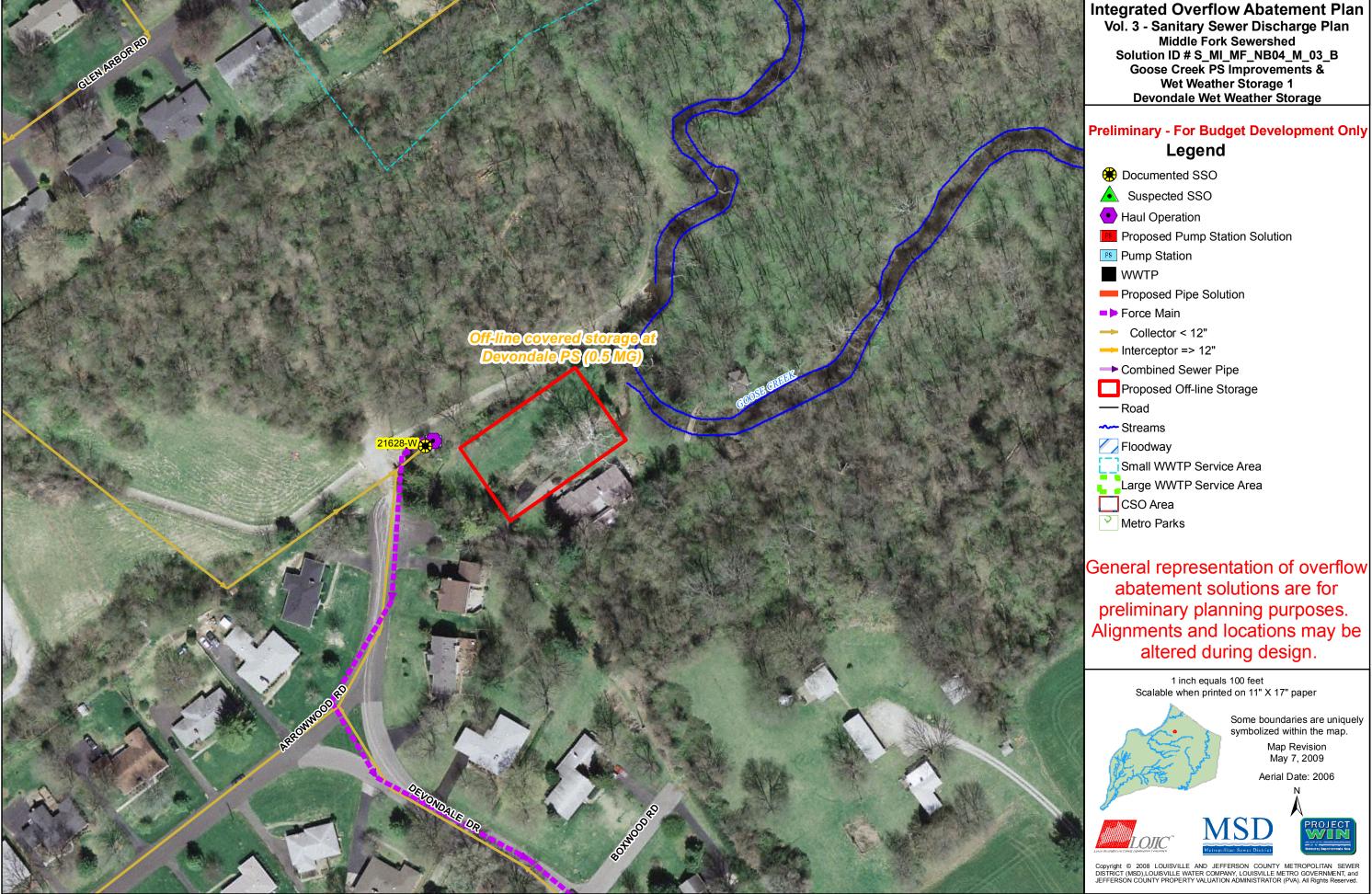
#### **Overflow Points Addressed:**

<u> </u>	SSO Name	Service Area	Overflow Type	Discharge To	Average Overflow / Incident (gallons)
43472	Near Saurel Drive PS	Morris Forman	Manhole	Ditch	118
46891	Goose Creek PS Wet Well	Morris Forman	Manhole	Ditch	246,000
62418	Goose Creek PS Near Goose Creek	Morris Forman	Manhole	Ground	128,000
91629	Old Westport Road at Goose Creek PS #2	Morris Forman	Manhole	Ground	15,750

21628-W	Manhole (PS Overflow)	Morris Forman Pumped	Ditch	58,013
	Devondale Wet Well			
105936	Old Westport Road at Goose Creek PS #1	Morris Forman Manhole	Ground	10,927
91630	Old Westport Road at Goose Creek PS #3	Morris Forman Manhole	Ground	5,250

### Off-Line Storage Pumped Effluent Flow Diagram







<u>Project Name:</u>

## SSO SSDP Project Fact Sheet



SSO Project Number: S\_MI\_MF\_NB04\_M\_03\_B

Goose Creek PS Improvements and Wet Weather Storage 2 -

Pump Station & Force Main Upgrades

Modeled Area: Middle Fork

Branch or SSO ID: MF04

<u>Project Type:</u> Pump Station & Force Main Upgrades

**Receiving Stream:** Goose Creek

<u>Project Description:</u> This alternative includes upgrading Goose Creek PS to 7.2 MGD,

replacing 16" portion of Goose Creek PS with 20" force main, replacing Saurel Rd PS 4" force main with 6" force main. (3,300 LF

total force main)

**Reason for Overflow:** Pump station capacity

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

Project Constraints:

Estimated Capital Cost (2008 dollars): \$1,063,000

Weighted Benefit/Cost Ratio (Present

Worth): 11.00

#### **Overflow Points Addressed:**

SSO	SSO Name	Service Area	Overflow Type	<u>Discharge To</u>	Average Overflow / Incident (gallons)
43472	Near Saurel Drive PS	Morris Forman	Manhole	Ditch	118
 46891	Goose Creek PS Wet Well	Morris Forman	Manhole	Ditch	246,000

	Goose Creek PS Near				
62418	Goose Creek	Morris Forman	Manhole	Ground	128,000
	Old Westport Road at				
91629	Goose Creek PS #2	Morris Forman	Manhole	Ground	15,750
	Old Westport Road at				
91630	Goose Creek PS #3	Morris Forman	Manhole	Ground	5,250
	Old Westport Road at				
105936	Goose Creek PS #1	Morris Forman	Manhole	Ground	10,927
	Devondale Wet Well				
21628-W	Manhole (PS Overflow)	Morris Forman	Pumped	Ditch	58,013

