

Sanitary Sewer Discharge Plan Recommended Projects - DRAFT 9/19/08

Project Name	Project ID	Technology	Project Description
Idlewood In-line Storage	S_CC_CC_70158_M_09A_C	In-line Storage	In-line storage with 955 LF of (84" to 120") pipe to store wet weather peak flow, and upgrade 1,747 LF open cut (8" to 15") sewer to increase hydraulic capacity during wet weather peak flows
Fairmount Rd. PS In-line Storage	S_FF_CC_81316_M_09A_C	In-line Storage	Upsize influent lines with 407 LF of 36" pipe to create upstream in-line storage
Little Cedar Creek Interceptor Improvements	S_CC_CC_67997_M_01_C	Pipe Upgrades	Upsize 3,701 LF of (12" to 21") open cut and 215 LF of 21" bore and jack sewer
Bardstown Rd. PS Improvements	S_CC_CC_MSD1025_S_03_B	Pump Station Upgrades	Increase the pump capacity by 70% to 0.53 MGD peak flow.
Meadow Stream PS In-line Storage	S_HC_HC_MSD1082_S_09A_C	In-line Storage	Inline storage with dual 243 LF, 120" parallel pipes to store wet weather peak flow.
Kavanaugh Rd. PS Improvements	S_CC_HC_MSD1085_S_03_A	Pump Station Upgrades	Upgrade PS to 0.84 MGD and 2,458 LF of 8" FM to handle wet weather peak flows
Woodland Hills PS Diversion	S_FF_FF_NB01_S_01_C_A	Pipe Upgrades	Replace the existing overflow and automated gate (to the Woodland Hills PS) with a double barrel overflow that consists of two-15 LF 12" diameter pipes. The upstream invert of the pipes needs to be 2 inches above the upstream invert of the exiting gravity pipe in MH 82058. This new invert elevation will allow dry weather flow to gravity drain through the interceptor, but anything greater than DWF will be diverted to the PS by an overflow pipe thus reducing the surcharge further down the gravity line.
Eden Care PS In-line Storage	S_FF_FF_NB02_S_09A_C_A	In-line Storage	In-line storage with 90 LF of 48" pipe (replacing a section of 8")
Ashburton PS Improvements & Diversion	S_FF_FF_NB03_M_01_C_A	Upgrade Force Main & Pipes	Divert flow from Ashburton PS by upgrading 370 LF of FM from 2" to 6" and adding 115 LF of 8" gravity sewer, also eliminates the overflow at Olde Copper Ct PS
Jeffersontown WWTP Elimination	S_JT_JT_NB01_M_01_C_A	Off-line Storage & Pipe Upgrades	Upsize the interceptor (6,200 LF) from Grassland to the WWTP. Storage basin (5.7 MG) at the WWTP site and a new PS with capacity of 10 MGD. 32,100 LF of 24" force main constructed to convey flows to the Hikes Lane Interceptor (HLI).
Chenoweth Hills WWTP Elimination, Chenoweth Run and Chippewa PS Improvements	S_JT_JT_NB01A_M_03_C	Pump Station & Force Main Upgrades	Upgrade Chenoweth Run PS to handle peak flow of 2.7 MGD and upsize entire 8,030 LF of force main to 12". Chenoweth Hills WWTP elimination. Upgrade Chippewa PS to handle peak flow of 0.15 MGD. Replace 2,595 LF of 15" to 18" sewer pipe for Chenoweth Hills WWTP diversion.
Dell Rd and Charlene Pkwy Interceptor Improvements	S_JT_JT_NB02_M_01_C	Pipe Upgrades	Upsize interceptor downstream of Charlane and Dell Road overflows with 4,000 LF of (10"-21") sewer.
Raintree & Marian Ct PS Eliminations	S_JT_JT_NB03_M_01_C	Pipe Upgrades	Eliminate Marian Ct. and Raintree PSs by installing 455 LF of 8" sewer from Marian Ct. PS and 400 LF of 8" sewer from Raintree PS to divert flows to the Southeast Diversion system, additional 1,175 LF of 15" sewer upgrades is required upstream of the diversion.
Monticello PS Elimination	S_JT_JT_NB04_M_01_A	Pipe Upgrades	Eliminate Monticello PS by diverting to West County with approximately 625 LF of 8" sewer.
Middle Fork Relief Interceptor, Wet Weather Storage, and UMFPS Diversion	S_MISF_MF_NB01_M_01_C_A1	Off-line Storage & Pipe Upgrades	Construct 30" force main diversion to HLI (10,200 LF), construct Middle Fork Relief Interceptor (6,900 LF) between Oxmoor Mall and Upper Middle Fork Lift Station (UMFLS), construct 1.5 MG covered basin near Car Wash Site and 17.3 MG open basin at Buechel Site

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Goose Creek PS Improvements & Wet Weather Storage	S_MI_MF_NB04_M_03_B	Storage & Force Main Upgrades	Construct 0.5 MG storage basin near Devondale PS. Upsize 16" force main at Goose Creek PS to 20" force main. Upgrade Goose Creek PS to 7.2 MGD. Replace Saurel Rd 4" force main with 6" force main. Upsize a total of 3,300 LF of force main.
Anchor Estates In-line Storage & PS Eliminations	S_MI_MF_NB06_M_01_B_C	In-line Storage & Diversion	Construct 4,180 LF of 8" diversion gravity pipe for Vannah Way and Anchor Estates No. 1 PS, and construct 230 LF of 72" pipe at Anchor Estates No. 2 PS to provide inline storage, SSES upstream of Anchor Estates No. 2 PS.
Klondike Interceptor	S_SD_MF_NB04_S_01_B_A	Pipe Upgrades	This solution involves 2,830 LF of 30" gravity interceptor connecting to the HLI where the Jeffersontown Branch 1 24" force main solution connects to the HLI. The SED Branch 4 solution was priced with a 30" gravity interceptor constructed to the HLI minus the cost of the 24" Jeffersontown force main along the same route.
Sutherland Interceptor	S_SD_MF_NB05_M_01_A	Pipe Upgrades	Construct 670 LF of 18" and 1,070 LF of 15" interceptor in place of existing 10" from manhole 16649 to BGI
Mellwood System Improvements & PS Eliminations	S_OR_MF_NB01_M_01_B	Pump Station Upgrades, Pipe Upgrades & Diversion	Replace 1890 LF of gravity sewer flowing into Mockingbird Valley PS, upgrade Mellwood Ave PS to handle peak flow of 3.5 MGD and flood-proof PS, upsize approximately 1240 LF of 6" force main with 15" force main for Mellwood Ave PS, installation of 400 LF of 8" pipe for Winton PS diversion and 2210 LF of 15" pipe for Mockingbird Valley PS diversion to alternate systems.
Leland Rd. Relief Sewer	S_OR_MF_NB02_S_01_B	Pipe Upgrades	Relief sewer for Leland Road overflow, 325 LF of 8" open cut sewer
Prospect WWTP Eliminations	S_OR_MF_NB04_M_03_B_B	Pump Station & Pipe Upgrades	Upsize 8,300 LF of interceptor upstream of Muddy Fork PS. Upgrade pumps at Muddy Fork, Winding Falls/Phoenix Hill PS and New Market PS. Upsize force main from Muddy Fork PS from 14" to a 24". Construct new 7.2 MGD Harrods Creek PS and 24,000 LF of 24" force main to pump flow to Hite Creek WWTP.
Charleswood Interceptor Extension	S_PO_WC_PC03_M_01_C	Pipe Upgrades	Upsize additional 1,846 LF of gravity sewer downstream of the Charleswood Interceptor connection to correct capacity problems. Cooper Chapel PS will be eliminated by the Charleswood Interceptor project.
Cinderella PS Wet Weather Storage	S_PO_WC_PC04_M_09B_C	Off-line Storage	Off-line 0.22 MG gravity operated covered storage basin at Cinderella PS
Lantana PS Wet Weather Storage	S_PO_WC_PC05_M_0109B_C	Off-line Storage & Pipe Upgrades	Construct offline covered storage basin at Lantana PS (0.08 MG). Additional 241 LF of sewer improvements (10" - 15") required upstream of PS.
Government Center PS Wet Weather Storage	S_PO_WC_PC06_M_0109B_C	Off-line Storage & Pipe Upgrades	Construct offline covered storage basin at Government Center PS (0.31 MG). Additional 290 LF of sewer improvements (10" - 12") required upstream of PS.
Avanti PS Wet Weather Storage	S_PO_WC_PC07_M_09B_C	Off-line Storage	Construct offline covered storage basin at Avanti PS (0.023 MG).
Lea Ann Way System Improvements	S_PO_WC_PC08_M_01_C	Pipe Upgrades	3,255 LF of open cut sewer (12" to 18") upstream improvements for Lea Ann Way PS
Outer Loop & Caven Ave Wet Weather Storage	S_PO_WC_PC09_M_09B_C	Off-line Storage	Construct offline covered storage basin at Caven Ave PS (0.21 MG) and offline open storage basin behind the Meijer (1.58 MG) on Preston Hwy.
Leven PS Wet Weather Storage	S_PO_WC_PC10_M_09B_C	Off-line Storage	Construct offline covered storage basin at Leven PS (0.12 MG).
Shively Interceptor	S_MC_WC_NB01_M_01_C	Pipe Upgrades	Construct a combination of gravity sewers (19,345 open cut) to eliminate 5 pump stations, project currently in budget as Shively Interceptor capital project
East Rockford PS Relocation	S_MC_WC_NB02_S_0103_C	Pump station replacement and relocation	Relocate and replace East Rockford PS at 300 GPM. 150 LF of 4" force main will need to be replaced. Additional 150 LF of 10" gravity improvements required to relocate PS.
Lucas Ln. PS In-line Storage	S_FF_BT_NB01_S_09A_C_B	In-line Storage	Install two, 90 LF, 54" wide parallel storage pipes that branch off the gravity main prior to the Lucas Lane PS to provide inline storage.

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Riding Ridge PS Improvements	S_HC_HN_NB01_S_03_C_A	Pump Station Upgrades	Upgrade Riding Ridge PS to handle peak flow of 0.075 MGD.
Gunpowder PS In-line Storage	S_HC_HN_NB02_S_09A_C_B	In-line Storage	Replace 120 LF of 8" with 60" sewer pipe to provide inline storage, 28 LF of additional pipe upgrades required.
Fox Harbor In-line Storage	S_HC_HN_NB03_M_09A_A_A	In-line Storage	Replace two 8" (total 133 LF) pipes upstream and east of the Fox Harbor #2 LS with 24" and 60" pipes respectively. For Fox Harbor #1: Install (194 LF of 24" to 54") parallel storage pipes
Fairway View PS Improvements	S_HC_HS_NB01_S_03_C_A	Pump Station Upgrades	Upgrade the three pumps at PS to discharge: 100, 100, and 120 GPM (previously 88 GPM each).
Deep Creek In-line Storage	S_HC_HS_NB02_S_09A_C_A	In-line Storage	Replace two 8" gravity sewers immediately upstream of the Deep Creek PS with 150 LF of 42" and 170 LF of 30" sewer pipe respectively to provide inline storage.
Lake Forest PS Improvements	S_FF_LF_NB01_S_03_C_A	Pump Station Upgrades	Install two new 122 GPM pumps at Lake Forest PS (previously 83 GPM).
St. Rene Rd. PS In-line Storage	S_FF_CH_NB01_S_09A_C_A	In-line Storage	Replace 42 LF of 8" with 48" pipe just upstream of the St. Rene Rd. PS.
Camp Taylor System Improvements	S_SF_MF_30917_M_09_A	Off-line Storage & Pipe Upgrades	A pumped 0.038 MG storage basin at the PS to store excess wet weather flows, 3,395 LF of 8" pipe to convey flow to basin. Replace priority sewers based on maintenance history. Complete SSES of all sewers and identify additional sewers to be replaced in later phases.
Source Reduction Projects and Program			
I/I Reduction Program		Varies	Annual budget to complete a variety of I/I reduction projects for SSO control, capacity assurance, and general asset management
Hazelwood PS I/I Investigation	S_OR_MF_55665_S_07_C	Infiltration Reduction	Targeted for I/I source control (I/I rehab and private property program)
Sonne PS I/I Investigation	S_OR_MF_42007_07_C	Infiltration Reduction	Targeted for I/I source control (I/I rehab and private property program)
Edsel PS I/I Investigation	S_PO_WC_PC11_M_07_C	Infiltration Reduction	Targeted for I/I source control (I/I rehab and private property program)
Derington Ct. PS I/I Investigation	S_OR_MF_NB03_07_C	Infiltration Reduction	Targeted for I/I source control (I/I rehab and private property program)
Parkview Estates I/I Investigation	S_SD_MF_NB03_07_C	Infiltration Reduction	Targeted for I/I source control (I/I rehab and private property program)
Floydsburg Rd. I/I Investigation and Rehab	S_HC_HC_MSD1086_M_07_C_B	Infiltration Reduction	Targeted for I/I source control (I/I rehab and private property program)
Interim Sanitary Sewer Discharge Plan Projects			
Beechwood Village Sewer Replacement		Sewer Replacement	Replace the sanitary sewers in Beechwood Village and provide relief sewer to off-load the Sinking Fork Interceptor
Hikes Lane/Highgate Springs Pump Station		Interceptor Relief	Intercept flow served by Highgate Springs Pump Station to allow closure of the station. Provide 72-inch interceptor from pump station to Southeast Diversion
Southeast Diversion		Interceptor Relief	Minor modifications to gate controls at SED, and construct relief interceptor to off-load Southeast Interceptor
Northern Ditch Diversion Interceptor		Interceptor Relief	Construct 84-inch diversion interceptor from the Northern Ditch PS to the Pond Creek Interceptor
Derek R Guthrie Water Quality Treatment Center		High rate secondary treatment	Expand the wet weather capacity of the plant from 96 MGD to 200 MGD