

## 2012 Draft SSDP Project Re-Assessment

**2012 Proposed New Project**  
**2012 Proposed Project for Elimination**

| Project Characteristics |  |                         |                            |              |  |   | 2007 Calibration   |               | 2012 Calibration  |               | Cost Difference | Notes   |
|-------------------------|--|-------------------------|----------------------------|--------------|--|---|--|---------------|---|---------------|-----------------|---|
| Watershed               | Project Name                                       | Project ID              | Project Type               | Design Level | Receiving Stream                       | Overflow Points Addressed   | Description  | Capital Cost  | Description   | Capital Cost  | Capital Cost    |   |
| Cedar Creek             | IDLEWOOD INLINE STORAGE                            | S_CC_CC_70158_M_09A_C   | Inline Storage             | 2            | Cedar Creek                            | 28998, 28984, 63094, 63095, 70158   | This alternative includes in-line storage with 995 LF of (84" to 120") pipe to store wet weather peak flows. Also included are pipe upgrades for 1,747 LF of open cut (8" to 15") sewer to increase hydraulic capacity during wet weather peak flows.  | \$ 2,317,000  | No change   | \$ 2,317,000  | \$ -            |   |
| Cedar Creek             | FAIRMOUNT RD PS IMPROVEMENTS                       | S_FF_CC_81316_M_03_C    | PS Upgrades                | 10           | Big Run                                | 81316, 97362  | Install (3) 130 HP, 1750 gpm pumps to increase capacity  | \$ 874,000    | No change   | \$ 874,000    | \$ -            |   |
| Cedar Creek             | LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS        | S_CC_CC_67997_M_01_C    | Pipe Upgrades              | 2            | Little Cedar Creek                     | 67997, 67999, 86423, 89195, 89197, MOP 89190                                    | This alternative includes upsizing 3,701 LF of open cut sewer and 215 LF of 21" tunneling interceptor pipe in the area to increase hydraulic capacity during wet weather peak flows.   | \$ 1,875,000  | Raise MH #89190 1.5 ft, increase pipe size to 48 inches for segment 67998, 67997, and 26130. Invert elevations lowered for segments.  | \$ 2,006,000  | \$ 131,000      | Upstream development has caused the need for a revision in the project approach.  |
| Cedar Creek             | BARDSTOWN RD PS IMPROVEMENTS                       | S_CC_CC_MSD1025_S_03_B  | PS Upgrades                | 5            | Big Run                                | 88545   | This alternative includes increasing the capacity of the pump station with an additional 70% of hydraulic capacity to 0.53 MGD so that overflows do not occur upstream.  | \$ 281,000    | No change   | \$ 281,000    | \$ -            |   |
| Cedar Creek             | RUNNING FOX PS ELIMINATION                         | S_CC_CC_MSD1080_S_01_C  | Diversion                  | 2            | Little Cedar Creek                     | MSD1080   | Construct 375 LF of 8" gravity sewer to eliminate Running Fox PS. Existing PS and force main will remain functional, but dormant, to allow for monitoring downstream impacts of the new diversion. If no impacts are noted, station will be eliminated and force main taken out of service. If downstream impacts arise, the PS will be reconfigured to supplement the capacity of the new diversion line.   | \$ 96,000     | No change   | \$ 96,000     | \$ -            |   |
| Hite Creek              | MEADOWSTREAM PUMP STATION AND FORCE MAIN UPGRADE   | S_HC_HC_MSD1082_S_09A_C | Inline Storage             | 2            | Floyds Fork / South Fork Harrods Creek | 91087, MSD1082-PS   | This alternative includes underground in-line storage with the current influent line to the PS, consisting of two, 120" diameter storage pipes each 238 LF.  | \$ 974,000    | Upgrade to Meadowstream Pump Station and force main to allow for expansion in the Crestwood area. New solution accommodates design storm for 2 year cloudburst with buildout conditions; currently can support 5YR w/ no overflow including some buildout | \$ 974,000    | \$ -            | Alternate solution is being proposed. Pump station upgrade and new parallel force main in lieu of inline storage.   |
| Hite Creek              | FLOYDSBURG RD I/I INVESTIGATION & REHABILITATION   | S_HC_HC_MSD1086_M_07_C  | I/I Reduction              | 2            | Floyds Fork                            | 90776, 108956, 108957, 108958, MSD1086-PS                                       | 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 Pump Station & Force Main upgrades.   | \$ 57,000     | No change   | \$ 57,000     | \$ -            |   |
| Hite Creek              | KAVANAUGH RD PS IMPROVEMENTS                       | S_HC_HC_MSD1085_S_03_A  | PS Upgrades                | 10           | Hite Creek                             | MSD1085-PS  | This alternative includes upgrading the Kavanaugh Road pump station to handle peak flows of 0.84 MGD and upsize 2,458 LF of force main to 8".  | \$ 1,110,000  | No change   | \$ 1,110,000  | \$ -            |   |
| Floyds Fork             |  | S_FF_FF_NB01_S_01_C_A   | Pipe Upgrades              | 2            | Pope Lick                              | 33003, 65531  | This alternative consists of replacing the existing overflow and automated gate (to the Woodland Hills PS) with a double barrel overflow that consists of 30 LF for two 12" diameter pipes. The upstream invert of these 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 down the interceptor, but anything greater than DWF will be diverted to the PS via the overflow pipes thus reducing the surcharge further down the gravity line. 15 LF of open cut sewer required. | \$ 20,000     | No change   | \$ 20,000     | \$ -            |   |
| Floyds Fork             | EDEN CARE PS SSO INVESTIGATION                     | S_FF_FF_NB02_S_13_C     | Monitor                    | --           | Floyds Fork                            | MSD1105-PS  | Monitor the Eden Care PS during rain events for the next three years according to SORP protocols.  | \$ -          | No change   | \$ -          | \$ -            |   |
| Floyds Fork             | ASHBURTON PS IMPROVEMENTS AND DIVERSION            | S_FF_FF_NB03_M_01_C_A   | Upgrade Force Main & Pumps | 2            | Floyds Fork                            | MSD0165-PS (Olde Copper Ct), MSD0166-PS (Ashburton)                             | This alternative includes diverting flow from Ashburton PS by upgrading 370 LF of force main (from 2" to 6") and adding 115 LF of 8" gravity sewer. Also eliminates the overflow at Olde Copper PS.  | \$ 118,000    | No change   | \$ 118,000    | \$ -            |   |
| Floyds Fork             | FAIRMOUNT ROAD PS OFFLINE STORAGE                  | N/A                     | Off Line Storage           | 2            | Floyds Fork                            | Fairmount Road Pump Station   | New Project  | N/A           | This alternative involves construction of 3.4 MG offline storage basin near the Fairmount Road Pump Station.  | \$ -          | \$ 13,438,000   | Due to treatment capacity limitations at Cedar Creek and the significant peak wet weather flows in the collection system being diverted from Jeffersontown WQTC, this storage is needed to mitigate peak flows. |
| Jeffersontown           | JEFFERSONTOWN WQTC ELIMINATION                     | S_JT_JT_NB01_01_C_A     | Replace/Diversion          | 2            | Chenoweth Run                          | ISO28, 28390, 28395A, 31733, 64505 (WWTP and 28392 are documented not modelled) | Replace from Grassland to the WWTP. Storage at the plant and pump station with capacity of 10 MGD. Force Main installed to the Hikes Lane Interceptor.   | \$ 53,770,512 | No change   | \$ 53,770,512 | \$ -            |   |
| Jeffersontown           | CHENOWETH HILLS WQTC ELIMINATION & PS IMPROVEMENTS | S_JT_JT_NB01A_03_C      | Pump Upgrades              | 2            | Chenoweth Run                          | 64096, 86052, MSD0263, 92061  | Upgrade Pumps at MSD0196 (Chenoweth Run) to pump 2.65 MGD and Upsize entire force main for Chenoweth Run to a 12".   | \$ 5,054,667  | No change   | \$ 5,054,667  | \$ -            |   |

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|-------------------------|--|--------------------------|--|--------------|-----------------------------|---|---|---------------|---|---------------|-----------------|--------------|---|
| Watershed               | Project Name   | Project ID               | Project Type   | Design Level | Receiving Stream            | Overflow Points Addressed   | Description   | Capital Cost  | Description   | Capital Cost  | Capital Cost    | Capital Cost |   |
| Jeffersontown           | DELL RD & CHARLANE PKWY INTERCEPTOR IMPROVEMENTS   | S_JT_JT_NB02_01_C        | Conveyance   | 2            | Chenoweth Run               | 28336, 28340, 28415, 28416, (28249, 28250, 28413, 28414, 28417, 104289 documented not modelled. Within 2 manholes of others listed) | Conveyance option for Network Branch 2. Involves upsizing pipe d/s of Charlane (28336) and Dell (28415) road overflows. Tunneling required under railroad for segment (28396 - 28393)   | \$ 2,175,437  | No change   | \$ 2,175,437  | \$ -            | \$ -         |   |
| Jeffersontown           | RAINTREE & MARIAN CT PH1 - PS ELIMINATION  | S_JT_JT_NB03_01_C        | Diversion  | 2            | Chenoweth Run               | MSD0148, MSD0149, 28719, 28711  | Divert flow from Marion Ct. PS and Raintree PS with installation of 8" gravity sewer to SED. Upsize solution for overflow 25676 in SED  | \$ 1,551,097  | No change   | \$ 1,551,097  | \$ -            | \$ -         |   |
| Jeffersontown           | MONTICELLO PS ELIMINATION  | S_JT_JT_NB04_01_A        | Diversion  | 10           | Fern Creek                  | 27969   | MSD0151 could be diverted to West County with approximately 625 LF of 8" sewer.   | \$ 380,458    | No change   | \$ 380,458    | \$ -            | \$ -         |   |
| Middle Fork             | UMF #2-PS DIVERSION & STORAGE  | S_MISF_MF_NB01_M_01_C_A1 | Conveyance/Storage                                       | 2            | Middle Fork                 | IS021, 08934SM, 47583, 02937, 02932, 02933, 02935, 47593, 47596, 47603, 47604, 45385, 27005, 23211, 23212, 51160, 51161, 51221      | Construct 30" Force Main Diversion to Hikes Lane Interceptor from Ex UMFPs. Construct Middle Fork Relief Interceptor between Oxmoor area and Middle Fork at Breckinridge. Construct 1.5 MG covered basin at Car Wash Site and 17 MG open basin at Buechel Site. Upsize Pipe D/S of MH 15138 to 18". | \$ 52,814,000 | Same improvements as in 2007 only the portion of the Middle Fork Interceptor Relief that was 24" in 2007 needs to be upsized to 30".  | \$ 53,362,000 | \$ 548,000      | \$ -         | Resizing due to model calibration   |
| Middle Fork             | GOOSE CREEK PS PH1 - DEVONDALE PS WW STORAGE & GOOSE CRK PS PH2 - PS & FORCE MAIN UPGRADES | S_MI_MF_NB04_M_03_B_A    | Force Main Upgrades, Storage                             | 5            | Goose Creek                 | 21628-W, 46891, 91629, 91630, 105936, 43472   | Construct 0.5 MG storage basin near Devondale Pump Station. Replace 16" portion of GCPS with 20" FM. Upgrade GCPS to 7.2 MGD. Replace Saurel Rd 4" FM with 6" FM  | \$ 4,952,000  | Same improvements as in 2007 only the GCPS needs to be upgraded to 7.95 MGD instead of 7.2 MGD.   | \$ 5,477,000  | \$ 525,000      | \$ -         |   |
| Middle Fork             | ANCHOR ESTATES- ANCHOR ESTS PS 1 & 2 PS ELIMINATIONS / VANNAH PS ELIMINATION               | S_MI_MF_NB06_M_01_B_C    | Pipe Storage at Pump Station, Eliminatin of Pump Station | 5            | Middle Fork                 | 01106, 00746, MSD0057   | Eliminate Anchor # 1 Pump Station, Pipe Storage (72") at Anchor #2 Pump Station, Eliminate Vannah Way Pump Station and remove bypass pipe   | \$ 2,037,000  | No change   | \$ 2,037,000  | \$ -            | \$ -         |   |
| Southeast Diversion     | PARKVIEW ESTATES I/I INVESTIGATION & REHABILITATION  | S_SD_MF_NB03_01_C        | Conveyance   | 5            | Pond Creek                  | 47250   | Construct 2,400 LF of 10" relief sewer from 47250 parallel to Rustic Way to existing 24" interceptor.   | \$ 945,000    | No change   | \$ 945,000    | \$ -            | \$ -         |   |
| Southeast Diversion     | KLONDIKE INTERCEPTOR   | S_SD_MF_NB04_01_B_A      | Conveyance   | 5            | South Fork                  | 25676   | Construct 2,830 LF of 30" relief interceptor from 25676 to the Hikes Lane Interceptor. This conveyance project was originally a 12" interceptor but then combined with the J-Town 24" Force Main diversion resulting in a 30" gravity.  | \$ 1,611,000  | No change   | \$ 1,611,000  | \$ -            | \$ -         |   |
| Southeast Diversion     | SUTHERLAND INTERCEPTOR   | S_SD_MF_NB05_01_B        | Conveyance   | 10           | South Fork                  | 16649   | Construct 670 LF of 18" and 1760 LF of 15" interceptor in place of existing 10" from manhole 16649 to BGI.  | \$ 586,000    | No change   | \$ 586,000    | \$ -            | \$ -         |   |
| Pond Creek              | CHARLESWOOD INTERCEPTOR EXTENSION  | S_PO_WC_PC03_M_01_C      | Pipe Upgrades  | 2            | Fishpool Creek              | 25477, 25478, 25480, MSD0130-PS   | This alternative includes upsizing 1,846 LF of open cut sewer (mostly in rock) downstream. This estimate does not include the Cooper Chapel PS elimination but the Charleswood Subdivision Interceptor will eliminate Cooper Chapel PS and require capacity increases downstream.                   | \$ 603,000    | No change   | \$ 603,000    | \$ -            | \$ -         |   |
| Pond Creek              | CINDERELLA PS ELIMINATION  | S_PO_WC_PC04_M_01_C      | Diversion  | 2            | Fishpool Creek              | 35309, 60679, MSD1013-PS  | Eliminate Cinderella PS by constructing 2,250 LF of 10" pipe . 208 LF of tunneling under I-265.   | \$ 2,205,000  | No change   | \$ 2,205,000  | \$ -            | \$ -         |   |
| Pond Creek              | LANTANA PS I/I INVESTIGATION & REHABILITATION  | S_PO_WC_PC05_M_07_C      | I/I Reduction  | 2            | Pennsylvania Run            | 25484, 93719, MSD0101-PS  | This location will be targeted for I/I source control (I/I rehab and private property program). Cost is for 4000 LF of SSES upstream of PS.   | \$ 20,000     | No change   | \$ 20,000     | \$ -            | \$ -         |   |
| Pond Creek              | GOVERNMENT CENTER PS ELIMINATION   | S_PO_WC_PC06_M_01_C      | Diversion  | 2            | Pennsylvania Run            | MSD0180-PS  | Eliminate Government Center PS by constructing 1324 LF of 10" pipe. 50 LF of tunneling required.  | \$ 1,225,000  | Eliminate Government Center PS by constructing 1740 LF of 12" pipe. 50 LF of tunneling required.  | \$ 1,412,000  | \$ 187,000      | \$ -         |   |
| Pond Creek              | AVANTI PS ELIMINATION  | S_PO_WC_PC07_M_01_A      | Diversion  | 10           | Little Cedar Creek          | 21229-W   | Eliminate Avanti PS by constructing 150 LF of 8" pipe.  | \$ 31,000     | N/A   | \$ 31,000     | \$ -            | \$ -         |   |
| Pond Creek              | LEA ANN WAY SYSTEM IMPROVEMENTS  | S_PO_WC_PC08_M_01_C      | Pipe Upgrades  | 2            | Fern Creek / Northern Ditch | 19360, 19369, 29933, 29943, 29948, 31083, 31084, 79076, MSD1010-PS  | This alternative includes using the restored Lea Ann Way PS with 3,255 LF of open cut sewer (12" to 18") upstream improvements to prevent the overflows.  | \$ 827,000    | Substantial SSES projects have been completed for the upstream collection system. Sewer rehabilitation is beginning in the area. Impacts of overflows from this work along with the pipe upgrades will be monitored for performance. Additional work will be performed as needed. | \$ 827,000    | \$ -            | \$ -         | Project cost may change as full proposed revisions to IOAP are developed.                     |
| Pond Creek              | OUTER LOOP & CAVEN AREA PIPE UPGRADES  | S_PO_WC_PC09_M_09B_C     | Pipe Upgrades  | 2            | Pond Creek / Mud Creek      | 17724, 27116, 70212, Caven Ave PS (MSD0133-PS)  | This alternative includes 1,536 LF of pipe upsized to 18" downstream of MH 70212.   | \$ 731,000    | No change   | \$ 731,000    | \$ -            | \$ -         |   |
| Pond Creek              | OUTER LOOP WW STORAGE  | S_PO_WC_PC09_M_09B_C     | Off-Line Storage   | 2            | Pond Creek / Mud Creek      | 17724, 27116, 70212, Caven Ave PS (MSD0133-PS)  | This alternative includes an off-line pumped storage basin (closed 1.42 MG) behind the Meijer on Preston Highway.   | \$ 4,280,000  | 2010 calibrated model improvements indicates the storage basin is no longer needed to relieve surcharging in the system.  | \$ -          | \$ (4,280,000)  | \$ -         | Proposed for elimination due to a more tightly calibrated separate system model in this area. |
| Pond Creek              | CAVEN AVENUE WW STORAGE  | S_PO_WC_PC09_M_09B_C     | Off-Line Storage   | 2            | Pond Creek / Mud Creek      | 17724, 27116, 70212, Caven Ave PS (MSD0133-PS)  | This alternative includes an off-line gravity storage (covered 0.21 MG) at Caven Avenue PS  | \$ 1,073,000  | No change   | \$ 1,073,000  | \$ -            | \$ -         |   |

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|----------------------------------|---|------------------------|---------------------------------------|--------------|---------------------------------|---|---|---------------|------------------|---------------|-----------------|-------|
| Watershed                        | Project Name  | Project ID             | Project Type                          | Design Level | Receiving Stream                | Overflow Points Addressed   | Description   | Capital Cost  | Description      | Capital Cost  | Capital Cost    |       |
| Pond Creek                       | LEVEN PS ELIMINATION  | S_PO_WC_PC10_M_01_C    | Diversion                             | 2            | Pennsylvania Run                | 36419, MSD1019-PS   | Eliminate Leven PS by constructing 890 LF of 10" pipe.  | \$ 376,000    | No change        | \$ 376,000    | \$ -            |       |
| Pond Creek                       | EDEL PS I/I INVESTIGATION & REHABILITATION  | S_PO_WC_PC11_M_07_C    | I/I Reduction                         | 2            | Fern Creek                      | 92098, MSD1048-PS   | This location will be targeted for I/I source control (I/I rehab and private property program).   | \$ 367,000    | No change        | \$ 367,000    | \$ -            |       |
| ORFM                             | MELLWOOD SYS 1 - MELLWOOD PS & FORCE MAIN & MELLWOOD SYS 2 - WINTON & MOCKINGBIRD PS ELIM & PIPE UPGRADES | S_OR_MF_NB01_01_B      | Diversion                             | 5            | ORFM                            | MSD0010, MSD0007, 26752, 41416, MSD0023, 24472, MSD0024, 41374, 24152-W                         | Construct Diversion Gravity Sewer for MSD0010, MSD0007. Increased Conveyance at MSD0023. Upsize portion of u/s gravity sewer for MSD0007  | \$ 4,945,922  | No change        | \$ 4,945,922  | \$ -            |       |
| ORFM                             | LELAND RD SSO INVESTIGATION   | S_OR_MF_NB02_01_B      | Relief Sewer                          | 5            | ORFM                            | 96020   | Approximately 325 LF of 8" relief sewer from 96018 to 19916.  | \$ 91,050     | No change        | \$ 91,050     | \$ -            |       |
| ORFM                             | DERINGTON CT PS I/I INVESTIGATION & REHABILITATION  | S_OR_MF_NB03_09_B_A    | Inline Storage                        | 5            | ORFM                            | MSD0095-PS (Derrington Ct. PS)  | Inline Pipe Storage (285 LF ~ 78" RCP) upstream of MSD0095.   | \$ 670,950    | No change        | \$ 670,950    | \$ -            |       |
| ORFM                             | PROSPECT #1 - WQTC ELIMINATIONS, PROSPECT #2 - HARRODS CREEK PS & PROSPECT #3 - ORFM SYSTEM IMPROVEMENTS  | S_OR_MF_NB04_03_B_B    | Pump Upgrades/Prospect Diversion      | 5            | ORFM                            | MSD0123, 22436, 40870, 40871, 40872, 42680, 65633, 65635, MSD0192, MSD0183, MSD0193 and MSD1044 | Conveyance Alternative for the ORFM. Upsize of interceptor upstream of Muddy Fork PS. Upgrade pumps at Muddy Fork (MSD0186-PS), Winding Falls/Phoenix Hill (MSD1044-PS) and New Market (MSD0193-PS). Upsize force main from Muddy Fork PS to the connection with the ORFM from 14" to a 24". Prospect Flows and additional assessments would all be included in this analysis. Prospect Diversion to Hite Creek | \$ 27,235,000 | No change        | \$ 27,235,000 | \$ -            |       |
| Mill Creek                       | SHIVELY INTERCEPTOR   | S_MC_WC_NB01_M_01_A    | Pipe Upgrades                         | 10           | Mill Creek / Heatherfield Ditch | 04498, 04542, 81814-W, MSD0047-PS, MSD0050-PS   | Construct 18,830 LF of new gravity sewers (10" - 27") to eliminate pump stations. This is the Shively Interceptor capital improvement project.  | \$ 16,419,000 | No change        | \$ 16,419,000 | \$ -            |       |
| Mill Creek                       | EAST ROCKFORD LANE PUMP STATION UPGRADE   | S_MC_WC_NB02_S_03_C    | Pump Station Replacement & Relocation | 2            | Mill Creek                      | 04699-W   | Relocate and replace East Rockford PS at 300 GPM. 150 LF of 4" force main will be replaced. Additional 150 LF of 10" gravity improvements required to relocate PS.  | \$ 1,044,000  | No change        | \$ 1,044,000  | \$ -            |       |
| Berrytown (Small WQTC)           | LUCAS LN PS INLINE STORAGE  | S_FF_BT_NB01_S_09A_C_A | Inline Storage                        | 2            | Goose Creek                     | MSD0199-LS  | This alternative includes installing two 90 LF long 54" wide parallel storage pipes that branch off the gravity main prior to the Lucas Lane PS. The invert must be lowered and upgraded to a 36" pipe.   | \$ 183,000    | No change        | \$ 183,000    | \$ -            |       |
| Hunting Creek North (Small WQTC) | RIDING RIDGE PS IMPROVEMENTS  | S_HC_HN_NB01_S_03_C_A  | PS Upgrades                           | 2            | Harrods Creek                   | MSD1060-LS  | This alternative includes upgrading pumps at Riding Ridge PS from 17 GPM to 26 GPM. This will give the PS a peak pumping rate capacity of 0.075 MGD.  | \$ 27,000     | No change        | \$ 27,000     | \$ -            |       |
| Hunting Creek North (Small WQTC) | GUNPOWDER PS INLINE STORAGE   | S_HC_HN_NB02_S_09A_C_B | Inline Storage                        | 2            | Harrods Creek                   | MSD1055-LS  | This alternative includes replacing 120 LF of 8" with 60" in-line storage pipe. In addition, 28 LF of pipe upgrades will be needed.   | \$ 176,000    | No change        | \$ 176,000    | \$ -            |       |
| Hunting Creek North (Small WQTC) | FOX HARBOR INLINE STORAGE   | S_HC_HN_NB03_M_09A_C_A | Inline Storage                        | 10           | Harrods Creek                   | 62769   | This alternative includes replacing 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 upstream of the lift station and lower the upstream invert of that pipe (which will require a new drop manhole).  | \$ 328,000    | No change        | \$ 328,000    | \$ -            |       |
| Hunting Creek South (Small WQTC) | FAIRWAY VIEW PS IMPROVEMENTS  | S_HC_HS_NB01_S_03_C_A  | PS Upgrades                           | 2            | Harrods Creek                   | MSD1065-PS  | This alternative includes upgrading pumps at Fairway View PS to discharge: 100, 100, and 120 GPM (previously 88 GPM each)   | \$ 87,000     | No change        | \$ 87,000     | \$ -            |       |
| Lake Forest (Small WQTC)         | LAKE FOREST PS SSO INVESTIGATION  | S_FF_LF_NB01_S_13_C_A  | Monitor                               | --           | Floyds Fork                     | MSD1169-LS  | Monitor the Lake Forest PS during rain events for the next three years according to SORP protocols.   | \$ -          | No change        | \$ -          | \$ -            |       |
| Chenoweth Hills (Small WQTC)     | ST. RENE RD PS INLINE STORAGE   | S_FF_CH_NB01_S_09A_C_A | Inline Storage                        | 2            | Chenoweth Run                   | 94187   | This alternative includes replacing 42 LF of 8" with 48" pipe just upstream of the PS.  | \$ 30,000     | No change        | \$ 30,000     | \$ -            |       |
|                                  |   |                        |                                       |              |                                 |   |   |               |                  |               | \$ 10,549,000   |       |