Appendix A

Municipality Summaries

APPENDIX A

TABLE OF CONTENTS

Aspinwall Borough

1. Planning Basin(s) Municipality is Part of:
[Table 2-1] Upper Allegheny Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: A-74A, A-75, A-76, A-77, A-78

Separate: None

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Combined		
A-74A	Use existing system	Assumed
A-75	Parallel relief sewer	Assumed
A-76	Parallel relief sewer	Assumed
A-77	Parallel relief sewer	Assumed
A-78	Use existing system*	Assumed

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

*Stream inflow removal considered part of baseline conditions

5. Green Infrastructure/Source Reduction Being Considered by Municipalities

[Table 9-35]

Green infrastructure may be considered in conjunction with the Delafield Stream removal project. Municipality has proposed I/I removal via the lining of approximately 370-ft of pipe.

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]

ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality or within the Upper Allegheny Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):
[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$94**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$170	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$356**	**$1,180**	
Residential Indicator	**0.63%**	**1.40%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Lower Allegheny conveyance tunnel ends at the upstream Lower Northern Allegheny POC A-67 (located in Millvale Borough). A-22 (located in the City of Pittsburgh) is where the furthest drop shaft will be located on the south side of the Allegheny River.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
A-75-OF	ALCOSAN	39	24.4
A-76-OF	ALCOSAN	30	7.46
A-77-OF	ALCOSAN	21	2.87
A-78-OF	ALCOSAN	32	14.5

[Table 4-22]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

Avalon Borough

1. Planning Basin(s) Municipality is Part of: Lower Ohio - Girty's Run Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to: **Combined:** NONE
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Separate: O-18, O-19, O-20, O-21

3. Municipal CSOs/SSOs Owned by Municipality: **CSOs:** None
[Section 3.2 to 3.8 CSO/SSO tables]

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
O-18	Use existing system	Preferred
O-19	Use existing system	Preferred
O-20	Use existing system	Preferred
O-21	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipality:
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposedosed any construction in the Recommended Plan within this Municipality or within the Lower Ohio Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):
[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$155**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this figure based on their data.
		$280	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposedosed improvements.**
Total Cost Per Household	**$417**	**$1,290**	
Residential Indicator	**1.13%**	**2.40%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):

[Section 4 CSO/SSO discharge tables]

The proposedosed Ohio River Tunnel and Facilities is to be constructed to Drop Shaft O-27 before tying into the ALCOSAN WWTP.

Note that no overflow statistics after implementation of the Recommended Plan were provided in the DWWP.

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
O-18-OF	ALCOSAN	32	10.3
O-19-OF	ALCOSAN	21	2.13
O-20-OF	ALCOSAN	13	0.304
O-21-OF	ALCOSAN	20	1.22

[Table 4-10]

10. Other Special Conditions:

Baldwin Borough

1. Planning Basin(s) Municipality is Part of:
[Table 2-1]

Upper Monongahela Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: M-34, M-42

Separate: None

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: Baldwin-Brentwood (810-422)

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
M-34	Use existing system	Preferred
M-42	Parallel relief sewers	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]

None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]

ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]

N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$270**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$490	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements**
Total Cost Per Household	**$532**	**$1,500**	
Residential Indicator	**0.90%**	**1.80%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The Monongahela River Tunnel and Facilities will be built up to and including the upstream most POC M-29. A proposed consolidation sewer will capture and store overflows from outfall M-43 for later dewatering and treatment.

The construction of the Monongahela River Tunnel Segment ends at the upstream Main Rivers POC M-29 (located in the City of Pittsburgh).

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
M-34-OF	ALCOSAN	58	131
M-42-OF	ALCOSAN	62	151

[Table 4-26]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
Baldwin_SSO	Baldwin Borough	7	0.18

[Table 4-28]

10. Other Special Conditions:

Baldwin Township

1. Planning Basin(s) Municipality is Part of:
[Table 2-1]
Saw Mill Run Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: None

Separate: S-15, S-17, SMR-CS-03A, SMR-CS-06, SMR-CS-14

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
S-15	Relief sewer	Preferred
S-17	Use existing system	Assumed
SMR-CS-03A	Use existing system	Assumed
SMR-CS-06	Use existing system	Assumed
SMR-CS-14	Use existing system	Assumed

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality or within the Saw Mill Run Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$243**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$440	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$505**	**$1,450**	
Residential Indicator	**0.74%**	**1.50%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The Ohio River and Allegheny River Tunnel and Facilities will be constructing a tunnel from the WWTP through POC A-22. The closest tunnel connection to the Saw Mill Run Planning Basin would be between O-41 and O-43 (both located in the City of Pittsburgh) on the north side of the Ohio River, but no such connection is proposed under the Recommended Plan.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
SMR-CS-14-IRO	ALCOSAN	0	0

[Table 4-16]

10. Other Special Conditions:

Bellevue Borough

1. Planning Basin(s) Municipality is Part of: Lower Ohio - Girty's Run Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to: **Combined:** O-25
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Separate: O-18, O-21, O-22, O-23, O-24

3. Municipal CSOs/SSOs Owned by Municipality: **CSOs:** None
[Section 3.2 to 3.8 CSO/SSO tables]

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
O-18	Use existing system	Preferred
O-21	Use existing system	Preferred
O-22	Use existing system	Preferred
O-23	Use existing system	Preferred
O-24	Use existing system	Preferred
O-25	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipality:
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposedosed any construction in the Recommended Plan within this Municipality or within the Lower Ohio Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$122**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this figure based on their data.
		$220	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposedosed improvements.**
Total Cost Per Household	**$384**	**$1,230**	
Residential Indicator	**0.98%**	**2.20%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):

[Section 4 CSO/SSO discharge tables]

The proposedosed Ohio River Tunnel and Facilities is to be constructed to Drop Shaft O-27 before tying into the ALCOSAN WWTP.

Note that no overflow statistics after implementation of the Recommended Plan were provided in the DWWP.

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
O-25-OF	ALCOSAN	22	12.4

[Table 4-8]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
O-18-OF	ALCOSAN	32	10.3
O-21-OF	ALCOSAN	20	1.22
O-22-OF	ALCOSAN	9	0.184
O-23-OF	ALCOSAN	26	3.62
O-24-OF	ALCOSAN	17	1.23

[Table 4-10]

10. Other Special Conditions:

Ben Avon Borough

1. Planning Basin(s) Municipality is Part of: Lower Ohio - Girty's Run Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to: **Combined:** None
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Separate: O-16, O-16Z, O-17, O-18, O-18Y, O-18Z

3. Municipal CSOs/SSOs Owned by Municipality: **CSOs:** None
[Section 3.2 to 3.8 CSO/SSO tables]

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
O-16	Use existing system	Preferred
O-16Z	Use existing system	Preferred
O-17	Use existing system (Ben Avon)	Preferred
O-18	Use existing system	Preferred
O-18Y	Use existing system	Preferred
O-18Z	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipality:
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposedosed any construction in the Recommended Plan within this Municipality or within the Lower Ohio Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$0**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this figure based on their data.
		$0	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposedosed improvements.**
Total Cost Per Household	**$262**	**$1,010**	
Residential Indicator	**0.35%**	**0.90%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):

[Section 4 CSO/SSO discharge tables]

The proposedosed Ohio River Tunnel and Facilities is to be constructed to Drop Shaft O-27 before tying into the ALCOSAN WWTP.

Note that no overflow statistics after implementation of the Recommended Plan were provided in the DWWP.

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
O-16	ALCOSAN	30	3.69
O-17	ALCOSAN	0	0
O-18	ALCOSAN	32	10.3
O-18Y	ALCOSAN	0	0
O-18Z	ALCOSAN	0	0

[Table 4-10]

10. Other Special Conditions:

Ben Avon Heights Borough

1. Planning Basin(s) Municipality is Part of: ***[Table 2-1]***

Lower Ohio - Girty's Run Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to: ***[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]***

Combined: None

Separate: O-18 (referred to as Ben Avon in Table 9-28)

3. Municipal CSOs/SSOs Owned by Municipality: ***[Section 3.2 to 3.8 CSO/SSO tables]***

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality: ***[Tables 9-27 through 9-34]***

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
O-18 (3)	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

3) Table 9-28 lists Ben Avon twice under the O-18 POC, one is Ben Avon, while the 2nd listing is Ben Avon Heights. Both municipalities will be utilizing the existing system.

5. Green Infrastructure/Source Reduction Being Considered by Municipality: ***[Table 9-35]***

None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality: ***[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]***

ALCOSAN has not proposedosed any construction in the Recommended Plan within this Municipality or within the Lower Ohio Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality: ***[Figure 11-1]***

N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$0**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this figure based on their data.
		$0	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposedosed improvements.**
Total Cost Per Household	**$262**	**$1,010**	
Residential Indicator	**0.25%**	**0.70%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges): [Section 4 CSO/SSO discharge tables]

The proposedosed Ohio River Tunnel and Facilities is to be constructed to Drop Shaft O-27 before tying into the ALCOSAN WWTP.

Note that no overflow statistics after implementation of the Recommended Plan were provided in the DWWP.

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
O-18	ALCOSAN	32	10.3

[Table 4-10]

10. Other Special Conditions:

Municipality of Bethel Park

1. Planning Basin(s) Municipality is Part of:
[Table 2-1]
Chartiers Creek Planning
Saw Mill Run Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]
Combined: None
Separate: C-53, C-53-10, C-55-02, MH-89, SMR-CS-20, SMR-CS-46, SMR-CS-50, SMR-CS-52, SMR-CS-54

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]
CSOs: None
SSOs: 1D41, 2B255, 2B264

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
C-53	Use existing system	Assumed
C-53-10	Parallel relief sewer and replacement	Preferred
C-55-02	Use existing system	Assumed
MH-89	Use existing system	Preferred
SMR-CS-20	Use existing system	Assumed
SMR-CS-46	Use existing system	Assumed
SMR-CS-50	Use existing system	Assumed
SMR-CS-52	Use existing system	Preferred
SMR-CS-54	Upsize trunk sewer	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality as part of the Chartiers Creek Conveyance and Facilities or in the Saw Mill Run Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):
[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$155**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$280	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$417**	**$1,290**	
Residential Indicator	**0.65%**	**1.40%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The closest tunnel connection to the Saw Mill Run planning Basin would be between O-41 and O-43 (both located in the City of Pittsburgh) and on the north side of the Ohio River, but is not proposed under the Recommended Plan.

Bethel Park flows will connect to the Chartiers Creek Conveyance and Facilities proposed relief sewer at C-53, C-53-10, and C-55-02. The relief sewer at these connection points is designed to control all upstream ALCOSAN SSOs to a 2 year level of control ***[Table 10-13]*** .

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
C-53-OF	ALCOSAN	58	50
SMR-CS-50-IRO	ALCOSAN	1	0.01
1D41	Bethel Park	0	0
3B1001OF	Bethel Park	0	0
3B1002OF	Bethel Park	2	0.26

[Table 4-6, Table 4-7, Table 4-16, and Table 4-17]

10. Other Special Conditions:

Blawnox Borough

1. Planning Basin(s) Municipality is Part of:
[Table 2-1]

Upper Allegheny Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: None

Separate: A-82

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
A-82	Pipe upsizing	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality or within the Upper Allegheny Planning Basin

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$140**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$250	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$402**	**$1,260**	
Residential Indicator	**1.02%**	**2.20%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):

[Section 4 CSO/SSO discharge tables]

The construction of the Lower Allegheny conveyance tunnel ends at the upstream Lower Northern Allegheny POC A-67 (located in Millvale Borough). A-22 (located in the City of Pittsburgh) is where the furthest drop shaft will be located on the south side of the Allegheny River.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
A-82-OF	ALCOSAN	15	0.358

[Table 4-24]

10. Other Special Conditions:

Braddock Borough

1. Planning Basin(s) Municipality is Part of:
[Table 2-1]

Upper Monongahela Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: M-51, M-52, M-53, M-54, M-55, M-56, M-57, M-58, M-60, M-61

Separate: None

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Combined		
M-51	Use existing system	Preferred
M-52	Relief sewer	Preferred
M-53	Use existing system	Preferred
M-54	Use existing system	Preferred
M-55	Use existing system	Preferred
M-56	Use existing system	Preferred
M-57	Use existing system	Preferred
M-58	Use existing system	Preferred
M-60	Relief sewer	Preferred
M-61	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]

None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):
[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$81**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$150	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$343**	**$1,160**	
Residential Indicator	**1.50%**	**3.50%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The Monongahela River Tunnel and Facilities will be built to the upstream most POC M-29 (located in the City of Pittsburgh).

A consolidation sewer will capture and store overflows from outfall M-43 for later dewatering and treatment.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
M-51-OF	ALCOSAN	61	41.8
M-52-OF	ALCOSAN	58	11
M-53-OF	ALCOSAN	32	2.8
M-54-OF	ALCOSAN	33	27.4
M-55-OF	ALCOSAN	50	27.7
M-56-OF	ALCOSAN	19	2.82
M-57-OF	ALCOSAN	57	14.8
M-58-OF	ALCOSAN	32	4.44
M-60-OF	ALCOSAN	60	10.4
M-61-OF	ALCOSAN	2	0.43

[Table 4-26]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

Braddock Hills Borough

1. Planning Basin(s) Municipality is Part of:
[Table 2-1]
Turtle Creek Planning Basin and
Upper Monongahela Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: T-04, M-47, M-51, M-55

Separate: None

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Combined		
M-47	Use existing system	Preferred
Separate		
T-04	Use existing system	Assumed
M-47	Use existing system	Preferred
M-51	Use existing system	Preferred
M-55	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):
[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$87**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$160	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$349**	**$1,170**	
Residential Indicator	**1.11%**	**2.60%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Monongahela Tunnel Segment ends at the upstream Main Rivers POC M-29 (located in the City of Pittsburgh). A consolidation sewer will capture and store overflows from outfall M-43 for later dewatering and treatment.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
T-04-OF	ALCOSAN	30	20.3
M-47-OF	ALCOSAN	65	226
M-51-OF	ALCOSAN	61	41.8
M-55-OF	ALCOSAN	50	27.7

[Table 4-18 and Table 4-26]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

Brentwood Borough

1. Planning Basin(s) Municipality is Part of: Saw Mill Run Planning Basin and
[Table 2-1] Upper Monongahela Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to: **Combined:** M-42
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Separate: MH-89*

Note: *MH-89 is a separate system in Brentwood [Table 9-30] but is listed only as a PWSA owned CSO MH in Section 3.

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables] **CSOs:** None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
MH-89	Upsize pipes	Assumed
M-42	Parallel relief sewers	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$266**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$480	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$528**	**$1,490**	
Residential Indicator	**1.12%**	**2.20%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The closest tunnel connection to the Saw Mill Run Planning Basin would be between O-41 and O-43 (both located in the City of Pittsburgh) on the north side of the Ohio River, but no such connection is proposed under the Recommended Plan.

The construction of the Monongahela River Tunnel Segment ends at the upstream Main Rivers POC M-29 (located in the City of Pittsburgh). A consolidation sewer will capture and store overflows from outfall M-43 for later dewatering and treatment.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
M-42-OF	ALCOSAN	62	151

[Table 4-26]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

Bridgeville Borough

1. Planning Basin(s) Municipality is Part of: ***[Table 2-1]*** Chartiers Creek Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to: ***[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]***

Combined: None

Separate: C-53, C-53-06, C-53-08, C-53-10, C-C-55, C-55-02

3. Municipal CSOs/SSOs Owned by Municipality: ***[Section 3.2 to 3.8 CSO/SSO tables]***

CSOs: None

SSOs: 2000-57

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
C-53	Parallel relief sewer	Assumed
C-53-06	Use existing system	Assumed
C-53-08	Use existing system	Preferred
C-53-10	Parallel relief sewer and replacement	Assumed
C-54	Use existing system	Preferred
C-54-18	Use existing system	Preferred
C-55	Use existing system	Preferred
C-55-02	Use existing system	Assumed

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
Chartiers Creek CF02 conveyance and facililiteis

5.5 ft. diameter relief sewer from C-53-10 to C-53

4 ft. diameter relief sewer from C-54-12 to C-53-10 (partially within Collier Township)

7. Schedule for ALCOSAN Construction within the Municipality:

[Figure 11-1]

Chartiers Creek Conveyance and Treatment is scheduled between January 2018 and June 2026.

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$135**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$240	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$397**	**$1,250**	
Residential Indicator	**0.99%**	**2.10%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Chartiers Creek Facilities ends downstream at the modified regulator at C-21. The Chartiers creek relief sewer will be constructed from C-55 to the proposed Retention Treatment basin to be constructed between C-23-08 and C-23.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
C-53-OF	ALCOSAN	58	50
C-54-OF	ALCOSAN	3	0.13
C-55-OF	ALCOSAN	0	0
2000-57	Borough of Bridgeville	15	7.36

[Tables 4-6 and 4-7]

10. Other Special Conditions:

"The Pennsylvania Environmental Defense Fund (PEDF) consent decree requires all ALCOSAN SSOs to Chartiers Creek to be eliminated by 2019. The capital improvements in the Recommended 2026 Plan will comply with the SSO removal requirement, however , due to the extensive sewer construction required, it cannot be completed by 2019. Multiple concurrent construction contracts will be needed just to complete it by the 2026 CD milestone." (page 11-7 of the DWWP)

Carnegie Borough

1. Planning Basin(s) Municipality is Part of: ***[Table 2-1]***	Chartiers Creek Planning Basin	
2. ALCOSAN POC(s) Municipality is Tributary to: ***[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]***	**Combined:**	C-31, C-34, C-34A, C-35, C-36, C-37, C-38, C-38A, C-39, C-40, C-41, C-43, C-44, C-44-08
	Separate:	C-26, C-33, C-38B, C-45A
3. Municipal CSOs/SSOs Owned by Municipality: ***[Section 3.2 to 3.8 CSO/SSO tables]***	**CSOs:**	812-48A, 2000-774
	SSOs:	None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Combined		
C-31	Use existing system	Preferred
C-34A	Conveyance	Assumed
C-35	Parallel relief sewer	Assumed
C-37	Use existing system	Preferred
C-38B	Parallel relief sewer	Assumed
C-39	POC is abandoned	Preferred
C-40	Use existing system	Preferred
C-41	Use existing system	Preferred
C-43	Use existing system	Preferred
C-44	Use existing system	Preferred
C-44-08	Parallel relief sewer	Assumed
Separate		
C-26	Use existing system	Assumed
C-33	Use existing system	Preferred
C-34	Use existing system	Preferred
C-35	Parallel relief sewer	Assumed
C-36	Use existing system	Preferred
C-38	Use existing system	Preferred
C-38A	Parallel relief sewer and replacement sewer	Assumed
C-45A	Use existing system	Assumed

Notes:
1) ALCOSAN designated projects as “assumed” if “information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required.” (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as “preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
See Improvements for CC_CF04 (C-47 to C-26A) on Table 10-12, Table 10-17, and Figure 10-12 for facilities in Carnegie Borough

CC-CF04 Improvements in Carnegie Borough:
The following existing Regulators will be modified: C-45A, C-44, C-43, C-41, C-40, C-38B, C-37, C-35, C-34A, C-34, C-33.
New regulators to flow to new relief sewer will be constructed for the following regulators: C-38B, C-38A, C-37, C-35, C-34A.
Connection to the new relief sewer will be made for the following regulators: C-44-08, C-38B, C-38A, C-35, C-34A
No improvements are necessary for the following regulators: C-39, C-38, C-36

3.5' to 5' diameter consolidation sewer from C-45A to relief sewer (crosses under Chartiers Creek at C-45A)
7 ft diameter relief sewer from C-41 to C-35 along Carnegie Streets
8 ft diameter relief sewer from C-35 to c-31 along Carnegie Streets

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
January 2018 to September 30, 2026 for entire Chartiers Creek Conveyance and Facilities

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$392**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$710	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$654**	**$1,720**	
Residential Indicator	**1.43%**	**2.60%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

For CC-CF04, the relief sewer was designed to have a 204 MGD capacity. The basis of design for total flow in the existing and relief interceptor for CC-CF04 was existing plus relief sewer capacity at downstream end of CC-CF03, plus 2 year level of control for ALCOSAN SSOs in CC-CF04, plus captures CSO flows in CC-CF04 to meet water quality standards. ***[Table 10-13]***

For CC-CF05 (of which only one is in Carnegie at the most upstream end of the consolidation group), the relief sewer was designed to have a 255 MGD capacity. The basis of design for total flow in the existing and relief interceptor is existing plus relief sewer capacity at downstream end of CC-CF03, plus 2 year level of control for ALCOSAN SSOs in CC-CF04 and CC-CF05, plus captures CSO flows in CC-CF04 and CC-CF05 to meet water quality standards. ***[Table 10-13]***

CSO and SSO overflow statistics for existing conditions are provided on the tables below.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
C-31	ALCOSAN	49	3.3
C-34	ALCOSAN	4	0.546
C-34A	ALCOSAN	60	27
C-35	ALCOSAN	51	8.06
C-36	ALCOSAN	0	0
C-37	ALCOSAN	23	0.474
C-38	ALCOSAN	1	0.000734
C-38A	ALCOSAN	45	5.51
C-39	ALCOSAN	0	0
C-40	ALCOSAN	53	6.53
C-41	ALCOSAN	24	0.396
C-43	ALCOSAN	6	0.0469
C-44	ALCOSAN	5	0.0374
812-48A	Carnegie Borough	10	0.45
2000-774	Carnegie Borough	53	50.1

[Table 4-4 and Table 4-5]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
C-26	ALCOSAN	47	9.42
C-33	ALCOSAN	0	0
C-38B	ALCOSAN	60	12.9
C-45A	ALCOSAN	31	2.8

[Table 4-6]

10. Other Special Conditions:

Castle Shannon Borough

1. Planning Basin(s) Municipality is Part of: ***[Table 2-1]***		Chartiers Creek Planning Basin and Saw Mill Run Planning Basin
2. ALCOSAN POC(s) Municipality is Tributary to: ***[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]***	**Combined:**	None
	Separate:	C-53, MH-89, SMR-CS-03A, SMR-CS-03B, SMR-CS-06, SMR-CS-08, SMR-CS-14, SMR-CS-16-INFL1, SMR-CS-16-INFL2, SMR-CS-20, SMR-CS-27, SMR-CS-31, SMR-CS-34, SMR-CS-37, SMR-CS-42, SMR-CS-43, SMR-CS-46, SMR-CS-50, SMR-CS-52
3. Municipal CSOs/SSOs Owned by Municipality: ***[Section 3.2 to 3.8 CSO/SSO tables]***	**CSOs**:	None
	SSOs:	CS-42A

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
C-53	Use existing system	Assumed
MH-89	Use existing system	Preferred
SMR-CS-03A	Use existing system	Preferred
SMR-CS-03B	Use existing system	Preferred
SMR-CS-06	Use existing system	Preferred
SMR-CS-08	Use existing system	Preferred
SMR-CS-14	Use existing system	Preferred
SMR-CS-16- INFL 1	Use existing system	Preferred
SMR-CS-16- INFL 2	Use existing system	Preferred
SMR-CS-20	Use existing system	Preferred
SMR-CS-27	Use existing system	Preferred
SMR-CS-31	Use existing system	Preferred
SMR-CS-34	Use existing system	Preferred
SMR-CS-37	Use existing system	Preferred
SMR-CS-42	Use existing system	Preferred
SMR-CS-43	Use existing system	Preferred
SMR-CS-46	Use existing system	Preferred
SMR-CS-50	Use existing system	Preferred
SMR-CS-52	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not scheduled any construction in the Recommended Plan within this Municipality for any portion of the Chartiers Creek Conveyance and Facilities. ALCOSAN has not scheduled any construction in the Recommended Plan within the Saw Mill Run Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$260**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$470	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$522**	**$1,480**	
Residential Indicator	**1.05%**	**2.00%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

Saw Mill run connects to the Main Rivers existing deep tunnel interceptor along the Ohio River at the existing drop shaft O-42, located in the City of Pittsburgh, it does not connect to the proposed Ohio River Tunnel.

The construction of the Chartiers Creek Facilities ends downstream at the modified regulator at C-21. The Chartiers creek relief sewer will be constructed from C-55 to the proposed Retention Treatment basin to be constructed between C-23-08 and C-23.

Castle Shannon Borough contributes flows to C-53 which is part of the CC-CF02 consolidation flow group. The relief sewer proposed for this segment was designed with a 117 MGD capacity and to control all upstream ALCOSAN SSOs up to a 2 year control level. ***[Table 10-13]***

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
C-53-OF	ALCOSAN	58	50
SMR-CS-14-IRO	ALCOSAN	0	0
SMR-CS-50-IRO	ALCOSAN	1	0.01
CS-MLSSO	Castle Shannon	0	0

[Table 4-6, Table 4-16 and Table 4-17]

10. Other Special Conditions:

Chalfant Borough

1. Planning Basin(s) Municipality is Part of: Turtle Creek Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: T-04, T-07

Separate: None

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
T-04	Use existing system	Preferred
T-07	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality or within the Turtle Creek Planning Basin

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$250**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$450	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$512**	**$1,460**	
Residential Indicator	**1.02%**	**2.00%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Monongahela Tunnel Segment ends at the upstream Main Rivers POC M-29 (located in the City of Pittsburgh). A consolidation sewer will capture and store overflows from outfall M-43 for later dewatering and treatment.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
T-04-OF	ALCOSAN	30	20.3
T-07-OF	ALCOSAN	30	11.7

[Table 4-18]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

Churchill Borough

1. Planning Basin(s) Municipality is Part of:
[Table 2-1]

Turtle Creek Planning Basin
Upper Allegheny Planning Basin
Upper Monongahela Plannaing Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: T-04, T-07, T-09*

Separate: M-47, TR-04

Note: *T-09 is not listed under Table 3-37.

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed (3)	Assumed or Preferred (1) (2)
Separate		
T-04	Use existing system	Preferred
T-07	Use existing system	Preferred
M-47	Use existing system	Assumed
T-09	Use existing system	Assumed

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.
3) TR-03-08 and TR-04 are listed on Table 9-32 as points of connection for Churchill Borough under ALCOSAN POC T-09, but no project information was provided.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]

None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]

ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality.

7. Schedule for ALCOSAN Construction within the Municipality:

[Figure 11-1]

N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$168**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$300	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$430**	**$1,310**	
Residential Indicator	**0.50%**	**1.00%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Lower Allegheny conveyance tunnel ends at the upstream Lower Northern Allegheny POC A-67 (located in Millvale Borough). A-22 (located in the City of Pittsburgh) is where the furthest drop shaft will be located on the south side of the Allegheny River.

The construction of the Monongahela River Tunnel Segment ends at the upstream Main Rivers POC M-29 (located in the City of Pittsburgh).
The Monongahela River Tunnel and Facilities will be built including the M-15Z, M-15, M-16, M-17, M-18, M-19, M-19B, M-20, M-21, M-22, M-29 POC's.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
T-04-OF	ALCOSAN	30	20.3
T-07-OF	ALCOSAN	30	11.7
M-47-OF	ALCOSAN	65	226

[Table 4-18 and Table 4-26]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
TR-04-OF	ALCOSAN	19	1.35

[Table 4-20]

10. Other Special Conditions:

Collier Township

1. Planning Basin(s) Municipality is Part of: ***[Table 2-1]***

Chartiers Creek Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to: ***[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]***

Combined: None

Separate: C-45A, C-45B-08, C-46, C-50, C-50A, C-50A-06, C-50A-12, C-52, C-53-06, C-54-06, C-54-07, C-54-12, C-54-18

3. Municipal CSOs/SSOs Owned by Municipality: ***[Section 3.2 to 3.8 CSO/SSO tables]***

CSOs: None

SSOs: DCKH, KH-1, KH-47A, RR-SI

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality: ***[Tables 9-27 through 9-34]***

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
C-45A	Sewer replacement	Preferred
C-45B-08	Pipe upsizing	Preferred
C-46	Use existing system	Assumed
C-50	Use existing system	Preferred
C-50A	Use existing system	Assumed
C-50A-06	Use existing system	Preferred
C-50A-12	Use existing system	Preferred
C-52	Use existing system	Preferred
C-53-06	Use existing system	Assumed
C-54-06	Use existing system	Preferred
C-54-07	Use existing system	Preferred
C-54-12	Sewer replacement	Preferred
C-54-18	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as “assumed” if “information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required.” (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as “preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
4 ft. diameter relief sewer from C-55-02 to C-54-16 (a portion in Bridgeville Borough) along the border between Collier Township and South Fayette Township along the highway.
New regulators at C-54-12 (in Bridgeville Borough) and C-54-06 with a relief sewer connecting them and constructed in what appears to be a commercial/industrial area.
4 to 7 ft. relief sewer constructed between C-53 and C-50A-12 in what appears to be commercial/industrial area and runs parallel to the existing shallow-cut interceptor.
Regulators will be modified for C-50B, C-51, C-52, C-54A within or near the border of Collier Township.
New regulators will be constructed in Collier Township at C-54-06 and near C-51. A short segment of conveyance pipe will be constructed to connect to C-54B-08. ***[Figures 10-9, 10-10, 10-11 and 10-12]***

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
January 2018 to September 30, 2026 for entire Chartiers Creek Conveyance and Facilities

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$238**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$430	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$500**	**$1,440**	
Residential Indicator	**0.84%**	**1.70%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Chartiers Creek Facilities ends downstream at the modified regulator at C-21. The Chartiers creek relief sewer will be constructed from C-55 to the proposed Retention Treatment basin to be constructed between C-23-08 and C-23.

Collier Township contributes flows to structures in CC-CF08, CC-CF02, CC-CF03, and CC-CF04 consolidated flow groups. The relief sewer for the CC-CF08 segment was designed with 29 MGD capacity and to control all ALCOSAN SSOs in CC-CF08 to a 2 year control level. The relief sewer for the CC-CF02 and CC-CF03 segments were designed with a 117 MGD capacity and to control all upstream ALCOSAN SSOs to a 2 year control level. The relief sewer for the CC-CF04 segment was designed with a 204 MGD capacity and for existing plus relief sewer capacity at the downstream end of CC-CF03, plus 2 year level of control for ALCOSAN SSOs in CC-CF04, plus captured CSO flows in CC-CF04 to meet water quality standards. ***[Table 10-13]***

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
C-46-OF	ALCOSAN	31	2.76
C-50A-OF	ALCOSAN	1	0.0846
C-50-OF	ALCOSAN	9	1.45
C-52	ALCOSAN	17	0.414
KH-47A	Collier Township	0	0
KH-1	Collier Township	4	0.32
DCKH	Collier Township	0	0
RR-SI	Collier Township	3	0.56

[Table 4-6 and Table 4-7]

10. Other Special Conditions:

"The Pennsylvania Environmental Defense Fund (PEDF) consent decree requires all ALCOSAN SSOs to Chartiers Creek to be eliminated by 2019. The capital improvements in the Recommended 2026 Plan will comply with the SSO removal requirement, however , due to the extensive sewer construction required, it cannot be completed by 2019. Multiple concurrent construction contracts will be needed just to complete it by the 2026 CD milestone." (page 11-7 of the DWWP)

Crafton Borough

1. Planning Basin(s) Municipality is Part of:
[Table 2-1]
Chartiers Creek Planning Basin
Saw Mill Run Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]
Combined: C-20, C-20-02, C-22, C-23, C-23-08, C-23-14, C-24, C-19, C-25

Separate: None

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]
CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Combined		
C-20	Use existing system	Preferred
C-20-02	Use existing system	Preferred
C-22	Use existing system	Preferred
C-23	Use existing system	Preferred
C-23-08	Use existing system	Preferred
C-23-14	Use existing system	Preferred
C-24	Parallel relief sewer	Assumed
Separate		
C-19	Parallel relief sewer	Assumed
C-25	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]

9 ft. diameter relief sewer from the border of the City of Pittsburgh and Crafton to the proposed Retention Treatment Basin. Sewer appears to be planned to go through a wooded area near a recreational facility and parallel to the existing shallow-cut interceptor.

A flow balance structure is planned upstream of C-23-04. Two new regulators are planned near C-23-04. A new 118 MGD Retention Treatment Basin is to be constructed near C-23-04 that will include a 1.2 MG tank, a 300 MGD influent pump station near C-23 (includes a 4 MGD of dry weather pumping capacity to convey flows from relief sewer to existing interceptor)

[Table 10-12, Table 10-18 and Figure 10-13]

POC C-22 and C-23 to be controlled in future as part of the Selected Plan
[Table 10-12 and Table 10-18]

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
January 2018 to September 30, 2026 for entire Chartiers Creek Conveyance and Facilities

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$376**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$680	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$638**	**$1,690**	
Residential Indicator	**1.38%**	**2.50%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

Saw Mill run connects to the Main Rivers existing deep tunnel interceptor along the Ohio River at the existing drop shaft O-42, located in the City of Pittsburgh, it does not connect to the proposed Ohio River Tunnel.

The construction of the Chartiers Creek Facilities ends downstream at the modified regulator at C-21. The Chartiers creek relief sewer will be constructed from C-55 to the proposed Retention Treatment basin to be constructed between C-23-08 and C-23.

Crafton Borough contributes flows to ALCOSAN POCs that are in the CC-CF05 consolidation flow group. This segment of the relief sewer was designed with 255 MGD capacity for existing plus relief sewer capacity at the downstream end of CC-CF03, plus 2 year control level of ALCOSAN SSOs in CC-CF04 and CC-CF05, plus captured CSO flows in CC-CF04 and CC-CF05 to meet water quality standards ***[Table 10-13]*** .

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
C-19-OF	ALCOSAN	57	17.3
C-20-OF	ALCOSAN	48	11.7
C-22-OF	ALCOSAN	76	71.6
C-23-OF	ALCOSAN	35	1.86
C-24-OF	ALCOSAN	78	68.5

[Table 4-4]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

Dormont Borough

1. Planning Basin(s) Municipality is Part of: Saw Mill Run Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8] **Combined:** None

Separate: MH-18, S-15, SMRE-40

Note: *In Dormont the system is separate, but within the City of Pittsburgh MH-18 is listed as combined. ***[Table 9-30]***

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables] **CSOs:** None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
MH-18	Use existing system	Preferred
S-15	Use existing system	Preferred
SMRE-40	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality or within the Saw Mill Run Planning Basin

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$243**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$440	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$505**	**$1,450**	
Residential Indicator	**1.03%**	**2.00%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

Saw Mill run connects to the Main Rivers existing deep tunnel interceptor along the Ohio River at the existing drop shaft O-42, located in the City of Pittsburgh, it does not connect to the proposed Ohio River Tunnel.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

East McKeesport Borough

1. Planning Basin(s) Municipality is Part of: Turtle Creek Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to:

[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: None

Separate: T-25

3. Municipal CSOs/SSOs Owned by Municipality:

[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
T-25	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality or within the Turtle Creek Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$134**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$240	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$396**	**$1,250**	
Residential Indicator	**0.93%**	**2.00%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Monongahela Tunnel Segment ends at the upstream Main Rivers POC M-29 (located in the City of Pittsburgh). A consolidation sewer will capture and store overflows from outfall M-43 for later dewatering and treatment.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
T-25-OF	ALCOSAN	69	11.5

[Table 4-20]

10. Other Special Conditions:

East Pittsburgh Borough

1. Planning Basin(s) Municipality is Part of:
[Table 2-1]

Turtle Creek Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: T-01, T-02, T-03, T-04, T-07

Separate: None

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Combined		
T-01	Use existing system	Preferred
T-02	Use existing system	Preferred
T-03	Use existing system	Preferred
T-04	Relief sewers	Assumed
T-07	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]

None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]

ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality or within the Turtle Creek Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]

N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$136**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$240	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$398**	**$1,250**	
Residential Indicator	**1.61%**	**3.50%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Monongahela Tunnel Segment ends at the upstream Main Rivers POC M-29 (located in the City of Pittsburgh).

A consolidation sewer will capture and store overflows from outfall M-43 for later dewatering and treatment.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
T-01-OF	ALCOSAN	54	39
T-02-OF	ALCOSAN	39	8.92
T-03-OF	ALCOSAN	17	1.84
T-04-OF	ALCOSAN	30	20.3
T-07-OF	ALCOSAN	30	11.7

[Table 4-18]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

Edgewood Borough

1. Planning Basin(s) Municipality is Part of:
[Table 2-1] Upper Monongahela Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: M-47

Separate: None

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: MH20_SSO, Allenby_SSO

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
M-47	Parallel relief sewers	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$200**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$360	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$462**	**$1,370**	
Residential Indicator	**0.76%**	**1.50%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

A consolidation sewer will capture and store overflows from outfall M-43 for later dewatering and treatment.

The construction of the Monongahela River Tunnel Segment ends at the upstream Main Rivers POC M-29 (located in the City of Pittsburgh).

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
M-47-OF	ALCOSAN	65	226

[Table 4-26]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
Edgewood-MH20SSO	Edgewood	23	2.21
Edgewood-Allenby SSO	Edgewood	3	0.04

[Table 4-28]

10. Other Special Conditions:

Emsworth Borough

1. Planning Basin(s) Municipality is Part of: ***[Table 2-1]*** Lower Ohio - Girty's Run Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to: ***[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]***

Combined: None

Separate: O-15 (O-15-EMS, O-15-EMSPS only), O-16

3. Municipal CSOs/SSOs Owned by Municipality: ***[Section 3.2 to 3.8 CSO/SSO tables]***

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
O-15 (O-15-EMS)	Use existing system	Preferred
O-15 (O-15-EMSPS)	Use existing system	Preferred
O-16	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipality:
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposedosed any construction in the Recommended Plan within this Municipality or within the Lower Ohio Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$244**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to
		$440	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposedosed improvements.**
Total Cost Per Household	**$506**	**$1,450**	
Residential Indicator	**0.91%**	**1.80%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):

[Section 4 CSO/SSO discharge tables]

The proposedosed Ohio River Tunnel and Facilities is to be constructed to Drop Shaft O-27 before tying into the ALCOSAN WWTP.

Note that no overflow statistics after implementation of the Recommended Plan were provided in the DWWP.

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
O-15-OF	ALCOSAN	55	165
O-16-OF	ALCOSAN	30	3.69

[Table 4-10]

10. Other Special Conditions:

Etna Borough

1. Planning Basin(s) Municipality is Part of: Lower Ohio - Girty's Run Planning Basin*
[Table 2-1] Upper Allegheny Planning Basin

Note: *These non-contributing areas currently are either undeveloped or served by individual on-lot septic systems , but may be developed in the future.

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: A-68, A-69

Separate: None

3. Municipal CSOs/SSOs Owned by Municipality:

[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: Bridge Street Diversion Structure, CSO2, MH-C108A, MH-C116, MH-C16, MH-C27, MH-C29, MH-D1A, MH-E29A, MH-E5, MH-E61A, MH-M7

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Combined		
A-68	Parallel relief sewer	Preferred
A-69	Use existing system	Assumed
Separate		
A-68	Parallel relief sewer	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]

Municipality is piloting testing and evaluating green infrastructure in their downtown district to supplement the selected municipal control.

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]

ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):
[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$139**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$250	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$401**	**$1,260**	
Residential Indicator	**1.12%**	**2.40%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Lower Allegheny conveyance tunnel ends at the upstream Lower Northern Allegheny POC A-67 (located in Millvale Borough). A-22 (located in the City of Pittsburgh) is where the furthest drop shaft will be located on the south side of the Allegheny River.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
A-68-OF	ALCOSAN	58	319
A-69-OF	ALCOSAN	62	46.6
CSO-1A-OF	Etna Borough	50	35.8
CSO-1-OF	Etna Borough	55	55.5
CSO-2-OF	Etna Borough	50	4.4
CSO-3-OF	Etna Borough	19	1.9
CSO-4-OF	Etna Borough	12	3.42
CSO-5-OF	Etna Borough	18	5.21
CSO-7-OF	Etna Borough	19	1.63
CSO-8-OF	Etna Borough	41	7.38
MH-C108-OF	Etna Borough	21	1.25
MH-M7-OF	Etna Borough	46	7.55

[Table 4-22 and Table 4-23]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

Forest Hills Borough

1. Planning Basin(s) Municipality is Part of:
[Table 2-1]
Turtle Creek Planning Basin
Upper Monongahela Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]
Combined: T-04, T-07
Separate: None

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]
CSOs: None
SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
T-04	Relief sewers	Assumed
T-07	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$195**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$350	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$457**	**$1,360**	
Residential Indicator	**0.80%**	**1.70%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Monongahela River Tunnel Segment ends at the upstream Main Rivers POC M-29 (located in the City of Pittsburgh).

A consolidation sewer will capture and store overflows from outfall M-43 for later dewatering and treatment.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
T-04-OF	ALCOSAN	30	20.3
T-07-OF	ALCOSAN	30	11.7

[Table 4-18]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

Fox Chapel Borough

1. Planning Basin(s) Municipality is Part of: Upper Allegheny Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to:

[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: A-72, A-75, A-78, A-74A

Separate: A-78-02

3. Municipal CSOs/SSOs Owned by Municipality:

[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
A-72	Use existing system	Assumed
A-74A	Use existing system	Preferred
A-75	Use existing system	Assumed
A-78	Use existing system	Preferred
A-78-02	Parallel relief sewer	Assumed

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
Source reduction through I/I will be used to supplement the selected municipal control for POC A-78-02.

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality or within the Upper Allegheny Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$189**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$340	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$451**	**$1,350**	
Residential Indicator	**0.20%**	**0.40%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Lower Allegheny conveyance tunnel ends at the upstream Lower Northern Allegheny POC A-67 (located in Millvale Borough). A-22 (located in the City of Pittsburgh) is where the furthest drop shaft will be located on the south side of the Allegheny River.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
A-72-OF	ALCOSAN	61	199
A-75-OF	ALCOSAN	39	24.4
A-78-OF	ALCOSAN	32	14.5

[Table 4-22]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

Franklin Park Borough

1. Planning Basin(s) Municipality is Part of: Lower Ohio - Girty's Run Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to: **Combined:** None
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Separate: O-15 (via LRJOC and MTSA)
Note: See Table 9-36

3. Municipal CSOs/SSOs Owned by Municipality: **CSOs:** None
[Section 3.2 to 3.8 CSO/SSO tables]

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
O-15	Upsize pipes, new parallel conveyance (LRJOC)(3)	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

3) Construction of parallel conveyance is through the LRJOC, of which Franklin Park Borough is included. The actual footprint of the construction will not be within Franklin Park Borough limits, as shown on Figure 9-19.

5. Green Infrastructure/Source Reduction Being Considered by Municipality:
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposedosed any construction in the Recommended Plan within this Municipality or within the Lower Ohio Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$394**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this figure based on their data.
		$710	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposedosed improvements.**
Total Cost Per Household	**$656**	**$1,720**	
Residential Indicator	**0.49%**	**0.90%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):

[Section 4 CSO/SSO discharge tables]

The proposedosed Ohio River Tunnel and Facilities is to be constructed to Drop Shaft O-27 before tying into the ALCOSAN WWTP.

Note that no overflow statistics after implementation of the Recommended Plan were provided in the DWWP.

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
O-15-OF	ALCOSAN	55	165

[Table 4-10]

10. Other Special Conditions:

Lowries Run consists of McCandless Township (MTSA), Ross Township, Ohio Township, Franklin Park, Kilbuck Township and West View Borough. The LRJOC operates and maintains the collection sewers within Ross Township and the MTSA that are located within the Lowries Run sewershed area. MTSA and Ross Township jointly own and operate the Lowries Run trunk sewer.

Girty's Run Joint Sewer Authority (GRJSA)

1. Planning Basin(s) Municipality is Part of: ***[Table 2-1]***

Lower Ohio/Girty's Run Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to: ***[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]***

Combined: A-67

Separate: None

3. Municipal CSOs/SSOs Owned by Municipality: ***[Section 3.2 to 3.8 CSO/SSO tables]***

CSOs: ML-CSO#1-OF, ML-CSO#2-OF, ML-CSO-#3-OF, ML-CSO#4-OF, ML-CSO#5-OF, ML-CSO#6-OF, ML-CSO#7-OF, ML-CSO#8-OF, ML-CSO#9-OF

SSOs: MH.37-IRO-OF, MH.25-IRO-OF MH.07-IRO-OF, MH.I-IRO-OF UT-OF, LT-OF

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality: ***[Tables 9-27 through 9-34]***

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Combined		
A-67	Storage Tank	Assumed
Separate		
A-67	Storage Tank	Assumed

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipality: ***[Table 9-35]***

None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
See improvements for LNA_CF10 (A-67) on Table 10-7, 10-8 and Figure 10-6

LNA_CF10 Improvements in Girty's Run Joint Sewer Authority:

A 6.5 to 7.5 foot diameter consolidation sewer from POC A-67 to a drop shaft near A-60;
A new regulator;
Connection to the new consolidation/connector sewer

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]

- Allegheny River Segment Tunnel and Facilities - Construction - January 2021 to December 2024

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):
[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Note: Refer to the approposedriate municipalities' sheets for financial impact information.

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]
The Main Rivers Regional Tunnel will extend to the A-60 POC, while the new conveyance pipe described above in section 6 will extend to the A-67 POC. These projects will have an effect on the performance on the municipal sewer system.

Note that no overflow statistics after implementation of the Recommended Plan were provided in the DWWP.

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
A-67-OF	ALCOSAN	55	128
ML-CSO#1-OF	GRJSA	63	5.63
ML-CSO#2-OF	GRJSA	34	2.66
ML-CSO#3-OF	GRJSA	7	0.343
ML-CSO#4-OF	GRJSA	5	0.44
ML-CS0#5-OF	GRJSA	9	1.12
ML-CSO#6-OF	GRJSA	12	0.258
ML-CSO#7-OF	GRJSA	0	0
ML-CSO#8-OF	GRJSA	0	0
ML-CSO#9-OF	GRJSA	60	6.73

[Tables 4-8 and 4-9]
Figures 9-155 & 9-156 include the "Balanced Priority" Alternative (same as the Recommended Plan) CSO frequency and volume statistics for A-67.

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
LT-OF	GRJSA	0	0
MH.37-IRO-OF	GRJSA	0	0
MH.25-IRO-OF	GRJSA	63	81.6
MH.07-IRO-OF	GRJSA	5	0.29
MH.I-IRO-OF	GRJSA	20	4.38
UT-OF	GRJSA	0	0

[Table 4-11]
Figures 9-155 & 9-156 include the "Balanced Priority" Alternative (same as the Recommended Plan) CSO frequency and volume statistics for A-67.

10. Other Special Conditions:

Girty's Run Joint Sewer Authority (GRJSA) system includes portions of McCandless Township, Ross Township, Shaler Township, and Reserve Township and all of Millvale Borough. The portions of the sewer systems within these municipalities that lie within the Girty's Run sewershed are owned and operated by GRJSA.

Green Tree Borough

1. Planning Basin(s) Municipality is Part of: Chartiers Creek Planning Basin
[Table 2-1] Saw Mill Run Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8] **Combined:** C-25, C-29, C-30, S-42A

Separate: MH-18*

Note: *In Green Tree the system is separate, but within the City of Pittsburgh MH-18 is listed as combined.
[Table 9-30]

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables] **CSOs:** None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
C-25	Use existing system	Assumed
C-29	Use existing system	Assumed
C-30	Use existing system	Preferred
MH-18	Use existing system	Preferred
S-42A	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction within Green Tree Borough for the Chartiers Creek Conveyance and Facilities. ALCOSAN has not proposed any construction in the Recommended Plan within the Saw Mill Run Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
January 2018 to September 2026 for entire Chartiers Creek Conveyance and Facilities

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):
[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$162**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$290	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$424**	**$1,300**	
Residential Indicator	**0.60%**	**1.30%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The closest tunnel connection to the Saw Mill Run Planning Basin would be between O-41 and O-43 (both located in the City of Pittsburgh) and on the north side of the Ohio River, but no such connection is proposed under the Recommended Plan.

The construction of the Chartiers Creek Facilities ends downstream at the modified regulator at C-21. The Chartiers creek relief sewer will be constructed from C-55 to the proposed Retention Treatment basin to be constructed between C-23-08 and C-23.
Note: Green Tree Borough flows connect to CC-CF04 and CC-CF05 sections of the proposed relief sewer. The CC-CF04 section was designed with a 204 MGD capacity and for existing plus relief sewer capacity at the downstream end of CC-CF03, plus 2 year level of control for ALCOSAN SSOs in CC-CF04, plus captured CSO flows in CC-CF04 to meet water quality standards. The CC-CF05 section was designed with a 255 MGD capacity and for existing plus relief sewer capacity at the downstream end of CC-CF03, plus 2 year level of control for ALCOSAN SSOs in CC-CF04 and CC-CF05, plus captured CSO flows in CC-CF04 and CC-CF05 to meet water quality standards. ***[Table 10-13]***

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
C-29-OF	ALCOSAN	52	3.09
C-30-OF	ALCOSAN	51	4.85
S-42A-OF	ALCOSAN/PWSA	76	2.41

[Table 4-4 and Table 4-14]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

"The Pennsylvania Environmental Defense Fund (PEDF) consent decree requires all ALCOSAN SSOs to Chartiers Creek to be eliminated by 2019. The capital improvements in the Recommended 2026 Plan will comply with the SSO removal requirement, however , due to the extensive sewer construction required, it cannot be completed by 2019. Multiple concurrent construction contracts will be needed just to complete it by the 2026 CD milestone." (page 11-7 of the DWWP)

Heidelberg Borough

1. Planning Basin(s) Municipality is Part of: Chartiers Creek Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to: **Combined:** None
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Separate: C-46, C-50

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
C-46	Use existing system	Preferred
C-50	Use existing system	Assumed

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]

None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]

Modification of the existing regulator is planned for C-46 and a pipe will be constructed to connect it to the existing shallow-cut interceptor.

A 7 ft. diameter relief sewer will be constructed between C-50 and C-48 through the streets of Heidelberg Borough. ***[Figure 10-11]***

Two new regulators that appear to be in Heidelberg Borough will be constructed near C-48.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]

January 2018 to September 30, 2026 for entire Chartiers Creek Conveyance and Facilities

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$301**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$540	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$563**	**$1,550**	
Residential Indicator	**1.52%**	**2.90%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Chartiers Creek Facilities ends downstream at the modified regulator at C-21. The Chartiers creek relief sewer will be constructed from C-55 to the proposed Retention Treatment basin to be constructed between C-23-08 and C-23.

Heidelberg Borough contributes flows to structures in the CC-CF03 and CC-CF04 consolidated flow groups. The CC-CF03 relief sewer segment was designed with a 117 MGD capacity and to control all upstream ALCOSAN SSOs to a 2 year control level. The CC-CF04 relief sewer segment was designed with a 204 MGD capacity and for existing plus relief sewer capacity at the downstream end of CC-CF03, plus 2 year level of control for ALCOSAN SSOs in CC-CF04, plus captured CSO flows in CC-CF04 to meet water quality standards. ***[Table 10-13]***

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
C-46-OF	ALCOSAN	31	2.76
C-50-OF	ALCOSAN	9	1.45

[Table 4-6]

10. Other Special Conditions:

"The Pennsylvania Environmental Defense Fund (PEDF) consent decree requires all ALCOSAN SSOs to Chartiers Creek to be eliminated by 2019. The capital improvements in the Recommended 2026 Plan will comply with the SSO removal requirement, however , due to the extensive sewer construction required, it cannot be completed by 2019. Multiple concurrent construction contracts will be needed just to complete it by the 2026 CD milestone." (page 11-7 of the DWWP)

Homestead Borough

1. Planning Basin(s) Municipality is Part of: Upper Monongahela Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: M-44, M-45

Separate: None

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Combined		
M-44	Use existing system	Assumed
M-45	Use existing system	Preferred
Separate		
M-44	Use existing system	Assumed
M-45	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$221**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$400	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$483**	**$1,410**	
Residential Indicator	**1.92%**	**3.90%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Monongahela River Tunnel Segment ends at the upstream Main Rivers POC M-29 (located in the City of Pittsburgh).

A consolidation sewer will capture and store overflows from M-43 for later dewatering and treatment.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
M-44	ALCOSAN	60	230
M-45	ALCOSAN	57	49.3

[Table 4-26]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

Indiana Township

1. Planning Basin(s) Municipality is Part of: Upper Allegheny Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to:

[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: A-68

Separate: None

3. Municipal CSOs/SSOs Owned by Municipality:

[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
A-68	Use existing system	Assumed

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality or within the Upper Allegheny Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$361**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$650	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$623**	**$1,660**	
Residential Indicator	**0.69%**	**1.30%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Lower Allegheny conveyance tunnel ends at the upstream Lower Northern Allegheny POC A-67 (located in Millvale Borough). A-22 (located in the City of Pittsburgh) is where the furthest drop shaft will be located on the south side of the Allegheny River.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
A-68-OF	ALCOSAN	58	319

[Table 4-22]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

Ingram Borough

1. Planning Basin(s) Municipality is Part of: Chartiers Creek Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to:

[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: C-15, C-19

Separate: None

3. Municipal CSOs/SSOs Owned by Municipality:

[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Combined		
C-15	Use existing system	Preferred
C-19	Parallel relief sewer	Assumed

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$203**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$370	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$465**	**$1,380**	
Residential Indicator	**0.98%**	**2.00%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Chartiers Creek Facilities ends downstream at the modified regulator at C-21. The Chartiers creek relief sewer will be constructed from C-55 to the proposed Retention Treatment basin to be constructed between C-23-08 and C-23.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
C-15-OF	ALCOSAN	59	16.8
C-19-OF	ALCOSAN	57	17.3

[Table 4-4]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

"The Pennsylvania Environmental Defense Fund (PEDF) consent decree requires all ALCOSAN SSOs to Chartiers Creek to be eliminated by 2019. The capital improvements in the Recommended 2026 Plan will comply with the SSO removal requirement, however , due to the extensive sewer construction required, it cannot be completed by 2019. Multiple concurrent construction contracts will be needed just to complete it by the 2026 CD milestone." (page 11-7 of the DWWP)

Kennedy Township

1. Planning Basin(s) Municipality is Part of:
[Table 2-1]
Chartiers Creek Planning Basin
and Lower Ohio - Girty's Run Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]
Combined: O-01, C-09
Separate: O-03-02, C-13-06, C-13-12, C-13A-04, C-20-02

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]
CSOs: None
SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate:		
C-09	Use existing system	Preferred
C-13-06	Use existing system	Assumed
C-13-12	Conveyance	Assumed
C-13A-04	Use existing system	Preferred
C-20-02	Use existing system	Assumed
O-01	Use existing system	Preferred
O-03-02	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipality:
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposedosed any construction in the Recommended Plan within this Municipality.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$53**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this figure based on their data.
		$100	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposedosed improvements.**
Total Cost Per Household	**$315**	**$1,110**	
Residential Indicator	**0.52%**	**1.30%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):

[Section 4 CSO/SSO discharge tables]

The construction of the Chartiers Creek facilities ends downstream at the modified regulator at C-21. The Chartiers Creek relief sewer will be constructed from C-55 to the proposedosed Retention Treatment Basin to be constructed between C-23-08 and C-23.

Note that no overflow statistics after implementation of the Recommended Plan were provided in the DWWP.

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
O-01-OF	ALCOSAN	2	0.027
O-03-OF	ALCOSAN	62	14.5
C-09-OF	ALCOSAN	65	133
C-13A-IRO	ALCOSAN	62	245
C-13-OF	ALCOSAN/McKees Rocks	42	3.27
C-20-OF	ALCOSAN	48	11.7

[Tables 4-4 and 4-8]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

"The Pennsylvania Environmental Defense Fund (PEDF) consent decree requires all ALCOSAN SSOs to Chartiers Creek to be eliminated by 2019. The capital improvements in the Recommended 2026 Plan will comply with the SSO removal requirement, however , due to the extensive sewer construction required, it cannot be completed by 2019. Multiple concurrent construction contracts will be needed just to complete it by the 2026 CD milestone." (page 11-7 of the DWWP)

Kilbuck Township

1. Planning Basin(s) Municipality is Part of: ***[Table 2-1]***

Lower Ohio - Girty's Run Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to: ***[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]***

Combined: None

Separate: O-15 (LRJOC), O-16, O-16Z, O-18
Note: See Table 9-36 for LRJOC Municipality list

3. Municipal CSOs/SSOs Owned by Municipality: ***[Section 3.2 to 3.8 CSO/SSO tables]***

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate:		
O-15 (LRJOC)	Upsize pipes, new parallel conveyance (LRJOC) (3)	Preferred
O-16	Use existing system	Preferred
O-16Z	Use existing system	Preferred
O-18	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

3) Construction of the O-15 parallel conveyance is through the LRJOC, of which Kilbuck Township is included. The actual footprint of the construction may be within Kilbuck limits, as shown on Figure 9-19.

5. Green Infrastructure/Source Reduction Being Considered by Municipality:
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposedosed any construction in the Recommended Plan within this Municipality.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$244**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this figure based on their data.
		$440	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposedosed improvements.**
Total Cost Per Household	**$506**	**$1,450**	
Residential Indicator	**0.56%**	**1.10%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):

[Section 4 CSO/SSO discharge tables]

The proposedosed Ohio River Tunnel and Facilities is to be constructed to Drop Shaft O-27 before tying into the ALCOSAN WWTP.

Note that no overflow statistics after implementation of the Recommended Plan were provided in the DWWP.

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
O-15-OF (LRJOC)	ALCOSAN	55	165
O-16-OF	ALCOSAN	30	3.69
O-18-OF	ALCOSAN	32	10.3

[Table 4-10]

10. Other Special Conditions:

Lowries Run consists of McCandless Township (MTSA), Ross Township, Ohio Township, Franklin Park, Kilbuck Township and West View Borough. The LRJOC operates and maintains the collection sewers within Ross Township and the MTSA that are located within the Lowries Run sewershed area. MTSA and Ross Township jointly own and operate the Lowries Run trunk sewer.

Lowries Run Joint Operating Committee (LRJOC)

1. Planning Basin(s) Municipality is Part of: Lower Ohio-Girty's Run Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to: **Combined:** None
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Separate: O-15

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]
LRJOC (Ross Township) owns MH 59 at Sewickley Oakmont Road within the SSO O-15 POC
LRJOC (Ross Township) owns MH62 at Lowries Run Road within the SSO O-15 POC

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
O-15	Upsized pipes, new parallel conveyance	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipality:
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposedosed any construction in the Recommended Plan within the LRJOC's Municipalities.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Note: Refer to the approposedriate municipalities' sheets for financial impact information.

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):

[Section 4 CSO/SSO discharge tables]

The proposedosed Ohio River Tunnel and Facilities is to be constructed to Drop Shaft O-27 before tying into the ALCOSAN WWTP.

Note that no overflow statistics after implementation of the Recommended Plan were provided in the DWWP.

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
O-15	ALCOSAN	55	165
Lowries Run MH-59	LRJOC	3	0.38

[Table 4-10 and 4-11]

10. Other Special Conditions:

Lowries Run consists of McCandless Township (MTSA), Ross Township, Ohio Township, Franklin Park, Kilbuck Township and West View Borough. The LRJOC operates and maintains the collection sewers within Ross Township and the MTSA that are located within the Lowries Run sewershed area. MTSA and Ross Township jointly own and operate the Lowries Run trunk sewer.

McCandless Township/MTSA

1. Planning Basin(s) Municipality is Part of:
[Table 2-1]

Lower Ohio - Girty's Run Planning Basin
and Upper Allegheny Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: A-67 (under GRJSA)
Separate: O-15 (under LRJOC via MTSA)
Note: See Table 9-36 for LRJOC Municipality list

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

None.
Note: As stated in Section 3 page 3-40 MTSA jointly owns and operates the Lowries Run trunk sewer with Ross Township.

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Combined:		
A-67	Storage Tank (GRJSA) (3)	Assumed
Separate:		
O-15	Upsize pipes, new parallel conveyance (LRJOC) (3)	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

3) Construction of the O-15 parallel conveyance is through the LRJOC, of which McCandless Township is included. The actual footprint of the construction may not be within McCandless Township limits, as shown on Figure 9-19. The A-67 Storage Tank will be constructed outside of the McCandless Township limits as shown on Figure 9-19. See the LRJOC and the GRJSA sheets for more information on the A-67 and O-15 POCs.

5. Green Infrastructure/Source Reduction Being Considered by Municipality:
[Table 9-35]

None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]

ALCOSAN has not proposedosed any construction in the Recommended Plan within this Municipality.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):
[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$115**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this figure based on their data.
		$210	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposedosed improvements.**
Total Cost Per Household	**$377**	**$1,220**	
Residential Indicator	**0.50%**	**1.10%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):

[Section 4 CSO/SSO discharge tables]

The proposedosed Ohio River Tunnel and Facilities is to be constructed to Drop Shaft O-27 before tying into the ALCOSAN WWTP and the construction of the Lower Allegheny conveyance tunnel will end at the upstream Lower Northern Allegheny POC A-67 (located in Millvale Borough) and will connect to the proposedosed tunnel at A-60 within the Main Rivers Basin and the City of Pittsburgh.

Note that no overflow statistics after implementation of the Recommended Plan were provided in the DWWP.

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
A-67-OF	ALCOSAN	55	128

[Table 4-8]

Figures 9-155 & 9-156 include the "Balanced Priority" Alternative (same as the Recommended Plan) CSO frequency and volume statistics for A-67.

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
O-15-OF	ALCOSAN	55	165

[Table 4-10]

10. Other Special Conditions:

Girty's Run Joint Sewer Authority (GRJSA) system includes portions of McCandless Township, Ross Township, Shaler Township, and Reserve Township and all of Millvale Borough. The portions of the sewer systems within these municipalities that lie within the Girty's Run sewershed are owned and operated by GRJSA.

Lowries Run consists of McCandless Township (MTSA), Ross Township, Ohio Township, Franklin Park, Kilbuck Township and West View Borough. The LRJOC operates and maintains the collection sewers within Ross Township and the MTSA that are located within the Lowries Run sewershed area. MTSA and Ross Township jointly own and operate the Lowries Run trunk sewer.

McDonald Borough

1. Planning Basin(s) Municipality is Part of:
[Table 2-1]

Chartiers Creek Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: C-45B-04

Separate: None

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: MCD0002-3 (A-1), MCD0082 (A-2), MCD0104 (A-3), MCD0097 (A-4), MCD0004 (B-2), MCD0006 (B-3), MCD0008(B-4), MCD0107 (B-6)MCD0101 (B-7), MCD0094 (B-8), MCD0095 (B-9), MCD0048 (B-13), MCD0044 (B-14), MCD0063 (B-16), MCD0058 (B-17), MCD0067 (B-18)

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Combined		
C-45B-04	Complete sewer separation	Assumed

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]

Sewer separation is on-going throughout the municipality to remove stormwater from the combined system and to control CSOs for POC C-45B-04.

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]

ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]

N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$320**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$580	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$582**	**$1,590**	
Residential Indicator	**1.28%**	**2.40%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

Construction for C-45B-04 will include a new regulator and relief interceptor along the Municipalities of Scott Township and Collier Township.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
B4_MCD0008	Borough of McDonald	0	0
A1_MCD0002-3	Borough of McDonald	15	0.209
A2_MCD0082	Borough of McDonald	43	2.28
A3_MCD0104	Borough of McDonald	10	0.0962
A4_MCD0097	Borough of McDonald	25	0.815
B13_MCD0048	Borough of McDonald	0	0
B14_MCD0044	Borough of McDonald	0	0
B16_MCD0063	Borough of McDonald	0	0
B17_MCD0058	Borough of McDonald	0	0
B18_MCD0067	Borough of McDonald	0	0
B2_MCD0004	Borough of McDonald	0	0
B3_MCD0006	Borough of McDonald	0	0
B6_MCD0107	Borough of McDonald	1	0.00228
B7_MCD0101	Borough of McDonald	4	0.0174
B8_MCD0094	Borough of McDonald	0	0
B9_MCD0095	Borough of McDonald	13	0.307

[Table 4-5]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

McKees Rocks Borough

1. Planning Basin(s) Municipality is Part of: Chartiers Creek Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: C-04, C-06, C-08, C-09, C-10, C-13, O-6

Separate: C-13-06

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: MKR-1, MKR-2, MKR-3

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Combined		
C-04	Use existing system	Preferred
C-06	Use existing system	Preferred
C-08	Use existing system	Preferred
C-09	Parallel relief sewer *	Assumed
C-10	Conveyance	Assumed
C-13	Use existing system *	Preferred
O-6	Replacement sewer	Preferred
Separate		
C-13-06	Use existing system	Assumed

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

Note: *Deweyville and Pine Hollow stream removals considered part of baseline condition.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):
[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$122**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$220	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$384**	**$1,230**	
Residential Indicator	**1.66%**	**3.70%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Chartiers Creek Facilities ends downstream at the modified regulator at C-21. The Chartiers creek relief sewer will be constructed from C-55 to the proposed Retention Treatment basin to be constructed between C-23-08 and C-23.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
C-04-OF	ALCOSAN	22	5.64
C-06-OF	ALCOSAN	13	0.578
C-08-OF	ALCOSAN	23	2.16
C-09-OF	ALCOSAN	65	133
C-10-OF	ALCOSAN	41	7.79
C-13-OF	ALCOSAN/McKees Rocks*	42	3.27
O-06-OF	ALCOSAN	0	0
MKR-1	Borough of McKees Rocks	52	36.9
MKR-2	Borough of McKees Rocks	20	1.88
MKR-3	Borough of McKees Rocks	47	70.5

* Note: Outfall C-13 is jointly permitted by ALCOSAN and McKees Rocks Borough.
[Table 4-4 and Table 4-5]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

Millvale Borough

1. Planning Basin(s) Municipality is Part of: Lower Ohio - Girty's Run Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to: **Combined:** A-66
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Separate: None

Note: Refer to the GRJSA sheet for information on POC A-67

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Combined		
A-66	POC eliminated by Route 28 project. All flow removed by Route 28 project	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]

A proposed 6.5 to 7.5 ft. diameter consolidation sewer is planned between A-67 and beyond A-66 into the City of Pittsburgh. The consolidation sewer is to be constructed parallel to the Allegheny River to convey flows to the proposed tunnel at A-60 in the City of Pittsburgh. The flows to A-66 are to be eliminated so this structure will not be connected to the proposed consolidation sewer. ***[Table 10-7 and Figure 10-6]***

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
January 2021 to December 2024 for entire Allegheny River Segment

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$135**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$240	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$397**	**$1,250**	
Residential Indicator	**1.10%**	**2.40%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

See GRJSA summary. The construction of the Lower Allegheny conveyance tunnel ends at the upstream Lower Northern Allegheny POC A-67 (located in Millvale Borough). A-22 (located in the City of Pittsburgh) is where the furthest drop shaft will be located on the south side of the Allegheny River.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
A-66-OF	ALCOSAN	57	34.4

[Table 4-8]

Figure 9-155 and 9-156 include the "Balanced Priority" Alternative (same as the Recommended Plan) CSO frequency and volume statistics for A-66.

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

The sewer system in Millvale Borough is owned and operated by GRJSA and contributes flow to A-67. The following municipal CSOs and SSOs are located within Millvale Borough but owned by GRJSA: ML-CSO#1-OF(Grant Avenue CSO #1), ML-CSO#2-OF (Sheraden Street CSO #2), ML-CSO#3-OF (Hayes Street CSO #3), ML-CSO#4-OF (Howard Street CSO #4), ML-CSO#5-OF (Lincoln Avenue CSO #5), ML-CSO#6-OF (Freemont Street CSO #6), ML-CSO#7-OF (Bessie Street CSO #7), ML-CSO#8-OF (Franklin Street CSO #8), ML-CSO#9-OF (Meade Alley CSO #9), MH.25-IRO-OF (Millvale SSO), MH.07-IRO-OF (Bauerlein Street SSO), MH.I-IRO-OF (Hayes SSO).
[Table3-19, Table 3-20, Table 4-9 and Table 4-11]

Municipality of Monroeville

1. Planning Basin(s) Municipality is Part of: Turtle Creek Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: T-10, T-24

Separate: T-25-10, T-26A, T-26-B, T-29A-02, T-29A-10

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: T-29A-10-M1-OF

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
T-10	Conveyance	Assumed
T-24	Use existing system	Preferred
T-25-10	Use existing system	Preferred
T-26-A	Use existing system	Preferred
T-26-B	Conveyance	Assumed
T-29A-02	Conveyance	Assumed
T-29A-10	Conveyance, I/I removal (T-29A-10A)	Assumed

Notes:
1) ALCOSAN designated projects as “assumed” if “information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required.” (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as “preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality or within the Turtle Creek Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):
[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$197**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$350	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$459**	**$1,360**	
Residential Indicator	**0.72%**	**1.50%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Monongahela Tunnel Segment ends at the upstream Main Rivers POC M-29 (located in the City of Pittsburgh).

A consolidation sewer will capture and store overflows from outfall M-43 for later dewatering and storage.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
T-10-OF	ALCOSAN	62	19.5
T-24-OF	ALCOSAN	29	2

[Table 4-18]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
T-26A-OF	ALCOSAN	33	6.05
T-26B-OF	ALCOSAN	15	1.79
T-29A-10-M1-OF	Monroeville	3	0.0311
T-29A-IRO	ALCOSAN	5	0.733

[Table 4-20 and Table 4-21]

10. Other Special Conditions:

Municipality of Mount Lebanon

1. Planning Basin(s) Municipality is Part of:
[Table 2-1]
Chartiers Creek Planning Basin
and Saw Mill Run Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: None

Separate: C-48, C-49, C-53, MH-18, S-15, SMR-CS-14, SMR-CS-31, SMR-CS-34, SMR-CS-42, SMR-CS-43, SMR-CS-52

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
C-48	Conveyance	Preferred
C-49	Use existing system	Preferred
C-53	Storage and conveyance	Assumed
MH-18	Use existing system	Preferred
S-15	Increased conveyance capacity	Assumed
SMR-CS-14	Use existing system	Preferred
SMR-CS-31	Use existing system	Preferred
SMR-CS-34	Use existing system	Preferred
SMR-CS-42	Use existing system	Preferred
SMR-CS-43	Use existing system	Preferred
SMR-CS-52	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction within this Municipality for any portion of the Chartiers Creek Conveyance and Facilities. ALCOSAN has not proposed any construction in the Recommended Plan within the Saw Mill Run Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$219**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$390	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$481**	**$1,400**	
Residential Indicator	**0.60%**	**1.20%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

Saw Mill run connects to the Main Rivers existing deep tunnel interceptor along the Ohio River at the existing drop shaft O-42, located in the City of Pittsburgh, it does not connect to the proposed Ohio River Tunnel.

Flows from the Municipality of Mount Lebanon go to C-48, C-49 and C-53 in the CC-CF02 and CC-CF03 consolidated flow groups of the Chartiers Creek Conveyance and Facilities. The relief sewer for these segments are designed with 117 MGD capacity and to control all upstream ALCOSAN SSOs to a 2 year control level. ***[Table 10-13]***

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
C-48-OF	ALCOSAN	20	2.86
C-49-OF	ALCOSAN	40	12.4
C-53-OF	ALCOSAN	58	50
SMR-CS-14-IRO	ALCOSAN	0	0

[Table 4-6]

10. Other Special Conditions:

"The Pennsylvania Environmental Defense Fund (PEDF) consent decree requires all ALCOSAN SSOs to Chartiers Creek to be eliminated by 2019. The capital improvements in the Recommended 2026 Plan will comply with the SSO removal requirement, however , due to the extensive sewer construction required, it cannot be completed by 2019. Multiple concurrent construction contracts will be needed just to complete it by the 2026 CD milestone." (page 11-7 of the DWWP)

Mount Oliver Borough

1. Planning Basin(s) Municipality is Part of:
[Table 2-1]
Saw Mill Run Planning Basin
Upper Monongahela Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: M-34, S-23, S-29

Separate: None

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
S-23	Use existing system	Preferred
S-29	Use existing system	Preferred
M-34	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$425**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$770	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$687**	**$1,780**	
Residential Indicator	**2.12%**	**3.80%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

Saw Mill Run connects to the Main Rivers existing deep tunnel interceptor along the Ohio River at the existing drop shaft O-42, located in the City of Pittsburgh, it does not connect to the proposed Ohio River Tunnel.

The construction of the Monongahela River Tunnel Segment ends at the upstream Main Rivers POC M-29 (located in the City of Pittsburgh).

A consolidation sewer will capture and store overflows from outfall M-43 for later dewatering and treatment.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
M-34-OF	ALCOSAN	58	131
S-23-OF	ALCOSAN	40	1.4
S-29-OF	ALCOSAN	29	7.86

[Table 4-26 and Table 4-14]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

Munhall Borough

1. Planning Basin(s) Municipality is Part of:
[Table 2-1]

Upper Monongahela Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: M-44, M-45, M-49

Separate: None

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: MH_002DC, MH_004DC, MH_012DC, MH_014DC

SSOs: Munhall Overflow A, Munhall Overflow B, Munhall Overflow C, Munhall Overflow D

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
M-44	Upsize pipes	Assumed
M-45	Use existing system	Preferred
M-49	Relief sewer	Assumed

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$175**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$320	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$437**	**$1,330**	
Residential Indicator	**0.96%**	**2.00%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

A consolidation sewer will capture and store over flows from outfall M-43 for later dewatering and treatment.

The construction of the Monongahela River Tunnel Segment ends at the upstream Main Rivers POC M-29 (located in the City of Pittsburgh).

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
M-44-OF	ALCOSAN	60	230
M-45-OF	ALCOSAN	57	49.3
M-49-OF	ALCOSAN	61	44.6
MH_02OF	Munhall	2	0.204
MH_04OF	Munhall	0	0
MH_12OF	Munhall	1	0.0652
MH_14OF	Munhall	1	0.0655

[Table 4-26, Table 4-27]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
Unpermitted_OF-A	Munhall	0	0
Unpermitted_OF-B	Munhall	1	0.0884
Unpermitted_OF-C	Munhall	0	0
Unpermitted_OF-D	Munhall	59	57.1

[Table 4-28]

10. Other Special Conditions:

Neville Township

1. Planning Basin(s) Municipality is Part of:
[Table 2-1]

Lower Ohio - Girty's Run Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: None

Separate: O-01-08

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSO: None

SSO: O-01-08 - Emergency PS Overflow (SSO #1) located on S. Utah Avenue
O-01-08 - Emergency PS Overflow (SSO #2) located on Grand Avenue
O-01-08 - SSO #3 located at Fleming Park Bridge

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate:		
O-01-08	Rehab 2 Existing Pump Stations	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipality:
[Table 9-35]

None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]

ALCOSAN has not proposedosed any construction in the Recommended Plan within this Municipality or the Lower Ohio Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]

N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$317**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this figure based on their data.
		$570	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposedosed improvements.**
Total Cost Per Household	**$579**	**$1,580**	
Residential Indicator	**1.34%**	**2.50%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):

[Section 4 CSO/SSO discharge tables]

The construction of the Chartiers Creek facilities ends at the downstream C-21 POC.

Note that no overflow statistics after implementation of the Recommended Plan were provided in the DWWP.

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
Neville_SSO-3-OF	Neville Twp.	5	0.14

[Table 4-11]

10. Other Special Conditions:

North Braddock Borough

1. Planning Basin(s) Municipality is Part of:
[Table 2-1]

Turtle Creek Planning Basin
Upper Monongahela Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: T-01, T-02, T-04, M-51, M-54, M-57, M-58, M-60, M-61

Separate: None

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Combined		
T-01	Use existing system	Preferred
T-02	Use existing system	Preferred
T-04	Use existing system	Preferred
M-51	Use existing system	Preferred
M-54	Use existing system	Preferred
M-57	Use existing system	Preferred
M-58	Use existing system	Preferred
M-60	Use existing system	Preferred
M-61	Use existing system	Preferred
Separate		
T-01	Use existing system	Preferred
T-02	Use existing system	Preferred
T-04	Use existing system	Preferred
M-61	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as “assumed” if “information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required.” (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as “preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$250**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$450	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$512**	**$1,460**	
Residential Indicator	**2.05%**	**4.10%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Monongahela River Tunnel Segment ends at the upstream Main Rivers POC M-29 (located in the City of Pittsburgh).

A consolidation sewer will capture and store over flows from outfall M-43 for later dewatering and treatment.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
T-01-OF	ALCOSAN	54	39
T-02-OF	ALCOSAN	39	8.92
T-04-OF	ALCOSAN	30	20.3
M-51-OF	ALCOSAN	61	41.8
M-54-OF	ALCOSAN	33	27.4
M-57-OF	ALCOSAN	57	14.8
M-58-OF	ALCOSAN	32	4.44
M-60-OF	ALCOSAN	60	10.4
M-61-OF	ALCOSAN	2	0.43

[Table 4-18 and Table 4-26]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:
[paragraph]

North Fayette Township

1. Planning Basin(s) Municipality is Part of: Chartiers Creek Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: None

Separate: C-45B-04

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
C-45B-04	Use existing system	Assumed

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality flows from North Fayette Township enter the C-45B-04 POC, where a new regulator and relief interceptor will be constructed (within Scott and Collier Townships).

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$26**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$50	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$288**	**$1,060**	
Residential Indicator	**0.42%**	**1.10%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

Construction on C-45B-04 will include a new regulator and a new relief interceptor within the municipalities of Scott and Collier Township.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

North Huntingdon Township/WWMA

1. Planning Basin(s) Municipality is Part of: Turtle Creek Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to: **Combined:** None
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Separate: T-26A-10*, T-29A-08, T-31, T-33

*Note: North Huntington Municipal Authority operates and maintains the sewer collection system and Western Westmoreland Municipal Aurhority (WWMA) operates and maintains the main interceptor and force main.

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
T-26A-10	Use existing system	Preferred
T-29A-08	Use existing system	Preferred
T-31	Use existing system	Preferred
T-33	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality or within the Turtle Creek Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$259**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$470	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$521**	**$1,480**	
Residential Indicator	**0.98%**	**1.90%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Monongahela Tunnel Segment ends at the upstream Main Rivers POC M-29 (located in the City of Pittsburgh).

A consolidation sewer will capture and store over flows from outfall M-43 for later dewatering and treatment (located in West Homestead Borough).

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
T-33-OF	ALCOSAN	0	0
T-29A-IRO	ALCOSAN	5	0.733
T-31-OF	ALCOSAN	35	1.6

[Table 4-20]

10. Other Special Conditions:

North Versailles Township

1. Planning Basin(s) Municipality is Part of: Turtle Creek Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to:

[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: T-02, T-04, T-22

Separate: T-05-02, T-08, T-16, T-18, T-25, T-33

3. Municipal CSOs/SSOs Owned by Municipality:

[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: T-05-OF

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
T-02	Use existing system	Preferred
T-04	Use existing system	Preferred
T-05-02	Conveyance	Preferred
T-08	Use existing system	Preferred
T-16	Use existing system	Preferred
T-18	Use existing system	Preferred
T-22	Use existing system	Preferred
T-25	Use existing system	Preferred
T-33	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality or within the Turtle Creek Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):
[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$275**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$500	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$537**	**$1,510**	
Residential Indicator	**2.34%**	**4.60%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):

[Section 4 CSO/SSO discharge tables]

The construction of the Monongahela Tunnel Segment ends at the upstream Main Rivers POC M-29 (located in the City of Pittsburgh).

A consolidation sewer will capture and store over flows from outfall M-43 for later dewatering and treatment (located in West Homestead Borough).

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
T-02-OF	ALCOSAN	39	8.92
T-04-OF	ALCOSAN	30	20.3
T-22-OF	ALCOSAN	55	4.77

[Table 4-18]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
T-08-OF	ALCOSAN	0	0
T-16-OF	ALCOSAN	3	0.0484
T-18-OF	ALCOSAN	0	0
T-25-OF	ALCOSAN	69	11.5
T-33-OF	ALCOSAN	0	0
T-05-OF	North Versailles	1	0.00114

[Table 4-20 and Table 4-21]

10. Other Special Conditions:

Oakdale Borough

1. Planning Basin(s) Municipality is Part of:
[Table 2-1]

Chartiers Creek Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: None*

Separate: None*

Note: *See Municipal Authority of the Township of South Fayette (MATSF)

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
C-45B-04	Covered under MATSF summary	

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]

None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]

ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality flows from North Fayette Township enter the C-45B-04 POC, where a new regulator and relief interceptor will be constructed (within Scott and Collier Townships).

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]

N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$189**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$340	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$451**	**$1,350**	
Residential Indicator	**0.75%**	**1.60%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

Construction on C-45B-04 will include a new regulator and a new relief interceptor.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

Note: Oakdale Borough is covered under the MATSF summary.

10. Other Special Conditions:

O'Hara Township

1. Planning Basin(s) Municipality is Part of: Upper Allegheny Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: A-70, A-72, A-75, A-78, A-74A

Separate: A-80, A-81-10, A-82, A-83-02, A-84-08, A-85

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: OMH-211

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
A-70	Use existing system	Preferred
A-72	Parallel relief sewer	Preferred
A-74A	Use existing system	Assumed
A-75	Use existing system	Assumed
A-78	Use existing system	Preferred
A-80	SSO elimination	Preferred
A-81-10	Use existing system	Preferred
A-82	Use existing system	Assumed
A-83-02	Use existing system	Preferred
A-84-08	Use existing system	Preferred
A-85	Parallel relief sewer	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality or within the Upper Allegheny Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):
[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
Municipal Surcharge	**$81**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$150	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$343**	**$1,160**	
Residential Indicator	**0.39%**	**0.90%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):

[Section 4 CSO/SSO discharge tables]

The construction of the Lower Allegheny conveyance tunnel ends at the upstream Lower Northern Allegheny POC A-67 (located in Millvale Borough). A-22 (located in the City of Pittsburgh) is where the furthest drop shaft will be located on the south side of the Allegheny River.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
A-70-OF	ALCOSAN	60	76.3
A-72-OF	ALCOSAN	61	199
A-75-OF	ALCOSAN	39	24.4
A-78-OF	ALCOSAN	32	14.5

[Table 4-22]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
A-82-OF	ALCOSAN	15	0.358
A-85-OF	ALCOSAN	5	0.28
OHM-211-OF	O'Hara Township	3	0.038

[Table 4-24 and Table 4-25]

10. Other Special Conditions:

Ohio Township/OTSA

1. Planning Basin(s) Municipality is Part of: ***[Table 2-1]***

Lower Ohio - Girty's Run Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to: ***[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]***

Combined: None

Separate: O-15 (through LRJOC via MTSA)
Note: See Table 9-36 for LRJOC Municipality list

3. Municipal CSOs/SSOs Owned by Municipality: ***[Section 3.2 to 3.8 CSO/SSO tables]***

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate:		
O-15 (LRJOC)	Upsize pipes, new parallel conveyance (LRJOC) (3)	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

3) Construction of the O-15 parallel conveyance is through the LRJOC, of which Ohio Township is included. The actual footprint of the construction may be within Ohio Township limits, as shown on Figure 9-19.

5. Green Infrastructure/Source Reduction Being Considered by Municipality:
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposedosed any construction in the Recommended Plan within this Municipality or the Lower Ohio Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$154**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this figure based on their data.
		$280	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposedosed improvements.**
Total Cost Per Household	**$416**	**$1,290**	
Residential Indicator	**0.44%**	**0.90%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):

[Section 4 CSO/SSO discharge tables]

The proposedosed Ohio River Tunnel and Facilities is to be constructed to Drop Shaft O-27 before tying into the ALCOSAN WWTP.

Note that no overflow statistics after implementation of the Recommended Plan were provided in the DWWP.

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
O-15-OF	ALCOSAN	55	165

[Table 4-10]

10. Other Special Conditions:

Lowries Run consists of McCandless Township (MTSA), Ross Township, Ohio Township, Franklin Park, Kilbuck Township and West View Borough. The LRJOC operates and maintains the collection sewers within Ross Township and the MTSA that are located within the Lowries Run sewershed area. MTSA and Ross Township jointly own and operate the Lowries Run trunk sewer.

Penn Township

1. Planning Basin(s) Municipality is Part of: Turtle Creek Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to:

[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: None

Separate: T-29A-10

3. Municipal CSOs/SSOs Owned by Municipality:

[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
T-29A-10	Use existing system (T-29A-10A)	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality or within the Turtle Creek Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$212**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$380	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$474**	**$1,390**	
Residential Indicator	**0.70%**	**1.40%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Monongahela Tunnel Segment ends at the upstream Main Rivers POC M-29 (located in the City of Pittsburgh).

A consolidation sewer will capture and store over flows from outfall M-43 for later dewatering and treatment (located in West Homestead Borough).

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
T-29A-IRO	ALCOSAN	5	0.733

[Table 4-20]

10. Other Special Conditions:

Municipality of Penn Hills

1. Planning Basin(s) Municipality is Part of:
[Table 2-1]

Turtle Creek Planning Basin
Upper Allegheny Planning Basin
Upper Monongahela Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: A-42

Separate: A-42A, A-42A-30, A-45, T-04-02

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: Volk EQ Overflow, Long Road EQ Overflow, Lincoln Road EQ Overflow

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed (3)	Assumed or Preferred (1) (2)
Separate		
T-04-02	Use existing system	Preferred
A-42	Use existing system	Preferred
A-42A	Use existing system	Preferred
A-42A-30	Use existing system	Preferred
A-45	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.
3) TR-04, TR-05 and TR-06 are listed on Table 9-32 as points of connection for the municipality of Penn Hills under ALCOSAN POC T-09, but no project information was provided.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):
[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$403**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$730	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$665**	**$1,740**	
Residential Indicator	**1.48%**	**2.70%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Lower Allegheny conveyance tunnel ends at the upstream Lower Northern Allegheny POC A-67 (located in Millvale Borough). A-22 (located in the City of Pittsburgh) is where the furthest drop shaft will be located on the south side of the Allegheny River.

The construction of the Monongahela River Tunnel Segment ends at the upstream Main Rivers POC M-29 (located in the City of Pittsburgh).

A consolidation sewer will capture and store overflows from outfall M-43 for later dewatering and treatment (located in West Homestead Borough).

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
A-42-OF	ALCOSAN	66	777

[Table 4-22]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
A-45-OF	ALCOSAN	30	4.7

[Table 4-24]

10. Other Special Conditions:
[paragraph]

Peters Township

1. Planning Basin(s) Municipality is Part of: Chartiers Creek Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: None

Separate: C-55-02

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
C-55-02	Use existing system	Assumed

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$131**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$240	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$393**	**$1,250**	
Residential Indicator	**0.49%**	**1.10%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Chartiers Creek Facilities ends downstream at the modified regulator at C-21. The Chartiers creek relief sewer will be constructed from C-55 to the proposed Retention Treatment basin to be constructed between C-23-08 and C-23.
From C-55-02 to C-54-16 a 4 foot diameter relief interceptor (upstream end of Bridgeville Tunnel) will be constructed.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

Pitcairn Borough

1. Planning Basin(s) Municipality is Part of: Turtle Creek Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: T-26

Separate: None

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Combined		
T-26	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality or within the Turtle Creek Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$87**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$160	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$349**	**$1,170**	
Residential Indicator	**0.86%**	**2.00%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):

[Section 4 CSO/SSO discharge tables]

The construction of the Monongahela Tunnel Segment ends at the upstream Main Rivers POC M-29 (located in the City of Pittsburgh).

A consolidation sewer will capture and store over flows from outfall M-43 for later dewatering and treatment (located in West Homestead Borough).

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
T-26-OF	ALCOSAN	40	2.26

[Table 4-18]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

City of Pittsburgh/PWSA

1. Planning Basin(s) Municipality is Part of:
[Table 2-1]

Chartiers Creek Planning Basin
Lower Ohio - Girty's Run Planning Basin
Main Rivers Planning Basin
Saw Mill Run Planning Basin
Upper Allegheny Planning Basin and
Upper Monongahela Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined:
Separate:

Refer to the Listed Tables and Sections for further information.

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs:
SSOs:

Refer to the Listed Tables and Sections for further information.

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Combined:		
See Tables 9-27 through 9-34 for the Projects in the Draft WWP to be Constructed in CoP/PWSA		
Separate:		
See Tables 9-27 through 9-34 for the Projects in the Draft WWP to be Constructed in CoP/PWSA		

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipality:
[Table 9-35]

Main Rivers Planning Basin

A-58 POC - Sewer Separation is planned to the area tributary to the CSO OF163G001.

Saw Mill Run Planning Basin

SMR E-40 POC - Sewer separation of the areas tributary to PWSA diversion chambers DC034N001, DC035P001, and DC062K002.

MH-55 POC - Sewer separation of the area tributary to PWSA diversion chamber DC034R001.

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:

[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]

ALCOSAN

ALCOSAN plans on expanding and upgrading the WWTP to a wet weather treatment capacity to 480 MGD with a secondary treatment capacity of 295 MGD.
ALCOSAN proposedoses to construct a 120 MGD tunnel dewatering PS at the WWTP.
The proposedosed approximate 10 mile long regional tunnel will be approximately 12 or 14 feet in diameter, subject to future refinement and will store approximately 62 MG.

Ohio River Tunnel and Facilities

The regional tunnel will begin at proposed junction shaft near O-39 and continue downstream to the proposed junction shaft near the Woods Run WWTP.
O-41-O-39 - 3' to 4' dia. Consolidation sewer from O-41 to proposedosed drop shaft
O-39 - 4' dia. connector sewer to proposedosed drop shaft
O-41 through O-39 - 3 new regulators
near O-39 - drop shaft connection to regional tunnel.
near O-39 - new cross connection to existing interceptor.
O-38 - modification of existing regulator.
O-35 to O-37 - modification of 3 existing regulators.
O-31 to O-34 - modification of 4 existing regulators.
O-29 - modification of existing regulator.
O-27 - 9' dia. connector sewer from O-27 to drop shaft, new regulator, drop shaft connection to regional tunnel near O-27.
See section 10.5 for further information. ***[Table 10-4]***

Allegheny River Tunnel and Facilities

The regional tunnel will begin at proposed Shaft near A-22 and continue downstream to the proposed junction shaft near O-39.

North Shore POC:

A-65, A-64, and A-62 - 6.5'-7.5' dia. consolidation sewer starting in (Millvale's)POC A-67 to drop shaft near A-60, 5 new regulators, drop shaft connection to proposedosed regional tunnel near A-60
A-61 through A-60 - 2'-3' dia consolidation sewer from POC A-61 to drop shaft near A-60, 2 new regulators, drop shaft connection to regional tunnel near A-60
A-59Z to A-59 -modify 2 existing regulators
A-58 to A-56 - 2'-6' dia. consolidation sewer from POC A-56 to proposed drop shaft near A-58, with 2 new regulators and drop shaft connection to regional tunnel near A-58.
near A-54 - cross connection to existing interceptor
A-51 - modify 1 existing regulator
A-50 to A-49 - modify 2 existing regulators
A-48 to A-47 - 3'dia. consolidation sewer from POC A-47 to drop shaft near A-48, 2 new regulators, drop shaft connection to regional tunnel near A-48.
O-43 - 5' dia connector sewer to proposed drop shaft, new regulator, drop shaft connection to regional tunnel near O-43.

South Shore POC:

Near A-24 - cross connection to existing interceptor.
A-23 - modify existing regulator
A-22 - 7'-12' dia. connector sewer to A-22 to proposed drop shaft, new regulator, drop shaft connection to regional tunnel near A-22
A-21 to A-20 - modify 2 existing regulators.
A-19, A-19X, A-19Y, A-19Z, A-18, A-18X, A-18Y, and A-18Z - modify 7 existing regulators
A-17 to A-16 - modify 2 existing regulators
A-15 to A-14 - modify 2 existing regulators
A-13 to A-04 - modify 10 existing regulators.
See Section 3.6 for further information. ***[Table 10-7]***

Monongahela River Tunnel and Facilities

The regional tunnel will begin at a proposed drop shaft near POC M-29 and continue downstream to a proposedosed junction shaft near POC O-39.

Monongahela North Shore POCs:

Near M-30 - cross connection to existing interceptor

M-29 - 9-12' dia. connector sewer, new regulator and modifications to existing regulators, drop shaft connection to regional tunnel near M-29.

M-19A - modify 3 existing regulators

M-19B to M-19 - 3-4' dia. connector sewer from M-19B to proposed drop shaft, 3-4' dia connector sewer from M-19 to proposed drop shaft, 2 new regulators, drop shaft connection to regional tunnel near M-19.

M-05 - modify existing regulator

M-04 - modify existing regulator

M-03 - modify existing regulator

M-02 - modify existing regulator

M-01 and A-01 - modify 2 existing regulators.

Monongahela south Shore POCs:

M-27 to M-26 - modify 2 existing regulators.

M-22 to M-20 - 2-3' dia. consolidation sewer from M-22 to proposed drop shaft, 3 new regulators, drop shaft connection to regional tunnel near M-20.

M-18 to M-15, and M-15Z - 2' dia. consolidation sewer from M-18 to proposed drop shaft, 3' dia. consolidation sewer from M-15Z to proposed. drop shaft, 5 new regulators, drop shaft connection to regional tunnel near M-17.

M-14 to M-12 - modify 3 existing regulators.

M-11 to M-07 - modify 4 existing regulators.

Near M-09 - cross connection to existing interceptor

M-06 - modify 1 existing regulator.

Chartiers Creek Conveyance and Treatment

Two Flow Groups/Outfalls partially fall within the City of Pittsburgh limits CC_CF04 and CC_CF05.

CC_CF04 - City of Pittsburgh POCs include C-26A through C-30

8' diam. Relief interceptor, 5 modified regulators, a new regulator is proposedosed and may be constructed within City of Pittsburgh limits (it appears on the border of CoP and Scott Township, see Figure 10-12).

CC_CF05 - City of Pittsburgh POCs include C-26 through C-24

8' diam. relief interceptor, 2 modified regulators, 1 new regulator and a 9' dia. relief sewer will be partially built in the City of Pittsburgh before continuing on to Crafton Borough (and to a proposed RTB within Crafton Borough Limits). See Figure 10-13.

See Section 10.8 for further information.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
ALCOSAN plans construction in the City of Pittsburgh/PWSA for all capital improvement projects listed on Figure 11-1. As such construction should be planned from January 2015 to September 30, 2026

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):
[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$156**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this figure based on their data.
		$280	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposedosed improvements.**
Total Cost Per Household	**$418**	**$1,290**	
Residential Indicator	**1.09%**	**2.30%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):

[Section 4 CSO/SSO discharge tables]

For information on the Performance of the Municipal Sewer Systems see Section 10. Chartiers Creek lists the design capacity of the relief interceptor on Table 10-13.

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
See the Discharge Summary Tables in Section 4 for the CSO overflow frequency and volume information for the ALCOSAN and CoP/PWSA POCs			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
See the Discharge Summary Tables in Section 4 for the SSO overflow frequency and volume information for the ALCOSAN and CoP/PWSA POCs			

10. Other Special Conditions:

Pleasant Hills Borough

1. Planning Basin(s) Municipality is Part of: Upper Monongahela Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: None

Separate: None

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Combined		
N/A		
Separate		
N/A		

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$147**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$270	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$409**	**$1,280**	
Residential Indicator	**0.51%**	**1.10%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Monongahela River Tunnel Segment ends at the upstream Main Rivers POC M-29 (located in the City of Pittsburgh).

A consolidation sewer will capture and store over flows from outfall M-43 for later dewatering and treatment (located in West Homestead Borough).

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

Plum Borough

1. Planning Basin(s) Municipality is Part of: Turtle Creek Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: None

Separate: T-29A-10

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
T-29A-10	Use existing system (T-29A-10A) (3)	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.
3) TR-06 is listed on Table 9-32 as a POC for Plum Borough under ALCOSAN POC T-09 but no project information was provided.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality or within the Turtle Creek Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$179**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$320	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$441**	**$1,330**	
Residential Indicator	**0.57%**	**1.20%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Monongahela Tunnel Segment ends at the upstream Main Rivers POC M-29 (located in the City of Pittsburgh).

A consolidation sewer will capture and store over flows from outfall M-43 for later dewatering and storage.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
T-29A-IRO	ALCOSAN	5	0.733

[Table 4-20]

10. Other Special Conditions:

Rankin Borough

1. Planning Basin(s) Municipality is Part of: Upper Monongahela Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to:

[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: M-50, M-51, M-52

Separate: None

3. Municipal CSOs/SSOs Owned by Municipality:

[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Combined		
M-50	Use existing system	Preferred
M-51	Use existing system	Preferred
M-52	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$68**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$120	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$330**	**$1,130**	
Residential Indicator	**1.87%**	**4.40%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Monongahela River Tunnel Segment ends at the upstream Main Rivers POC M-29 (located in the City of Pittsburgh).
A consolidation sewer will capture and store over flows from outfall M-43 for later dewatering and treatment (located in West Homestead Borough).

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
M-50-OF	ALCOSAN	51	30.6
M-51-OF	ALCOSAN	61	41.8
M-52-OF	ALCOSAN	58	11

[Table 4-26]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

Reserve Township

1. Planning Basin(s) Municipality is Part of:
[Table 2-1]

Lower Ohio - Girty's Run Planning Basin
Main Rivers Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: A-66, A-60

Separate: None

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Combined		
A-66	POC eliminated by Route 28 project. Flows redirected to A-65	Preferred
A-60	No action required	Preferred
Separate		
A-66	POC eliminated by Route 28 project. Flows redirected to A-65	Preferred
A-60	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$101**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$180	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$363**	**$1,190**	
Residential Indicator	**0.61%**	**1.40%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Lower Northern Allegheny conveyance tunnel will end at the upstream Lower Northern Allegheny POC A-67 (located in Millvale Borough) and will connect to the proposed tunnel at A-60 within the Main Rivers Basin in the City of Pittsburgh.

Figures 9-155 and 9-156 include the "Balanced Priority" Alternative (same as the Recommended Plan) CSO frequency and volume statistics for A-66.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
A-66-OF	ALCOSAN	57	34.4
A-60-OF	ALCOSAN	57	198

[Table 4-8 and Table 4-12]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

Robinson Township

1. Planning Basin(s) Municipality is Part of: Chartiers Creek Planning Basin
[Table 2-1] *Lower Ohio - Girty's Run Planning Basin

Note: *Robinson Township does not currently contribute to LOGR Planning Basin. These non-contributing areas currently are either undeveloped or served by individual on-lot septic systems , but may be developed in the future. ***[Table 3-15]***

2. ALCOSAN POC(s) Municipality is Tributary to:

[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: C-38A, C-14-06, C-20-02

Separate: C-21, C-45A

3. Municipal CSOs/SSOs Owned by Municipality:

[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
C-14-06	Use existing system	Assumed
C-20-02	Use existing system	Assumed
C-21	Use existing system	Assumed
C-38A	Parallel relief sewers	Assumed
C-45A	Use existing system	Assumed

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$195**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$350	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$457**	**$1,360**	
Residential Indicator	**1.23%**	**2.50%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Chartiers Creek Facilities ends downstream at the modified regulator at C-21. The Chartiers creek relief sewer will be constructed from C-55 to the proposed Retention Treatment basin to be constructed between C-23-08 and C-23.

Construction to Chartiers Creek will include constructing 7 ft diameter relief sewers between C-41 and C-35., an 8 ft diameter relief sewers between C-35 and C-25, modifying the C-21 and C-45A regulators and adding a new regulator at C-38A.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
C-38A-OF	ALCOSAN	45	5.51

[Table 4-4]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
C-21-OF	ALCOSAN	4	0.123
C-45A-OF	ALCOSAN	31	2.8

[Table 4-6]

10. Other Special Conditions:

Ross Township

1. Planning Basin(s) Municipality is Part of:
[Table 2-1]

Lower Ohio - Girty's Run Planning Basin,
Main Rivers Planning Basin and
Upper Allegheny Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: A-67 (via GRJSA), A-60, O-25, A-68

Separate: O-15 (via LRJOC/MTSA), O-18, O-27
Note: See Table 9-36 for LRJOC and GRJSA Municipality list

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: A-67 - Upper EQ tank SSO (GRJSA)
O-15 - MH59 on Sewickley Oakmont Road
O-15 - MH 62 on Lowries Run Road (LRJOC)
O-25 - R-27 on Jack's Run

Note: Ross Township jointly owns the Lowries Run trunk sewer. [Section 3, page 40].

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Combined:		
A-60	No Action Required	Preferred
A-67	Storage Tank (GRJSA)	Assumed
Separate:		
O-15	Upsize pipes, new parallel conveyance (LRJOC)	Preferred
O-18	Use existing system	Preferred
O-25	Use existing system with I/I reduction	Preferred
A-60	Use existing system	Assumed
A-67	Storage Tank (GRJSA)	Assumed
A-68	Sewer Replacement	Preferred
O-27	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as “assumed” if “information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required.” (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as “preferred" if the municipality clearly identified them as the preferred method of flow management.

3) Construction of the O-15 parallel conveyance is through the LRJOC, of which Ross Township is included. The actual footprint of the construction may be within Ross Township limits, as shown on Figure 9-19.

5. Green Infrastructure/Source Reduction Being Considered by Municipality:

[Table 9-35]

A-68 - Source reduction through I/I will be used to supplement the selected municipal control for this POC.

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:

[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]

ALCOSAN has not proposedosed any construction in the Recommended Plan within this Municipality or within the Lower Ohio Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:

[Figure 11-1]

N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$122**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this figure based on their data.
		$220	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposedosed improvements.**
Total Cost Per Household	**$384**	**$1,230**	
Residential Indicator	**0.63%**	**1.40%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):

[Section 4 CSO/SSO discharge tables]

The proposedosed Ohio River Tunnel and Facilities is to be constructed to Drop Shaft O-27 before tying into the ALCOSAN WWTP and the construction of the Lower Northern Allegheny conveyance tunnel will end at the upstream Lower Northern Allegheny POC A-67 (located in Millvale Borough) and will connect to the proposedosed tunnel at A-60 within the Main Rivers Basin and the City of Pittsburgh.

Note that no overflow statistics after implementation of the Recommended Plan were provided in the DWWP.

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
A-67-OF	ALCOSAN	55	128
O-25-OF	ALCOSAN	22	12.4
A-60-OF	ALCOSAN	57	198
O-27-OF	ALCOSAN	47	96.6
A-68-OF	ALCOSAN	58	319

[Table 4-8, 4-12, 4-22]

Figures 9-155 & 9-156 include the "Balanced Priority" Alternative (same as the Recommended Plan) CSO frequency and volume statistics for A-67.

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
O-15-OF	ALCOSAN	55	165
O-18-OF	ALCOSAN	32	10.3
Lowries Run MH-59	LRJOC	3	0.38

[Table 4-10]

10. Other Special Conditions:

Girty's Run Joint Sewer Authority (GRJSA) system includes portions of McCandless Township, Ross Township, Shaler Township, and Reserve Township and all of Millvale Borough. The portions of the sewer systems within these municipalities that lie within the Girty's Run sewershed are owned and operated by GRJSA.

Lowries Run consists of McCandless Township (MTSA), Ross Township, Ohio Township, Franklin Park, Kilbuck Township and West View Borough. The LRJOC operates and maintains the collection sewers within Ross Township and the MTSA that are located within the Lowries Run sewershed area. MTSA and Ross Township jointly own and operate the Lowries Run trunk sewer.

Rosslyn Farms Borough

1. Planning Basin(s) Municipality is Part of: Chartiers Creek Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: None

Separate: C-21, C-26

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
C-21	Use existing system	Assumed
C-26	Parallel relief sewer	Assumed

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
A pipe will be constructed in Rosslyn Farms to connect the modified C-26 structure to the 8 ft diameter relief interceptor that is to be constructed in the City of Pittsburgh along the border of Pittsburgh and Rosslyn Farms Borough.
[Table 10-12 and Figure 10-13]
Modification of the existing regulator is planned for C-26
[Table 10-18]

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
January 2018 to September 30, 2026 for entire Chartiers Creek conveyance and Facilities

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):
[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$324**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$580	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million**
Total Cost Per Household	**$586**	**$1,590**	
Residential Indicator	**0.46%**	**0.90%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Chartiers Creek Facilities ends downstream at the modified regulator at C-21. The Chartiers creek relief sewer will be constructed from C-55 to the proposed Retention Treatment basin to be constructed between C-23-08 and C-23.

Rosslyn Farms flows connect to C-26 which is part of the CC-CF05 consolidation flow group. This segment of the proposed relief sewer was designed with a 255 MGD capacity and for existing plus relief sewer capacity at the downstream end of CC-CF03, plus 2 year level of control for ALCOSAN SSOs in CC-CF04 and CC-CF05, plus captured CSO flows in CC-CF04 and CC-CF05 to meet water quality standards. ***[Table 10-13]***

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
C-21-OF	ALCOSAN	4	0.123
C-26-OF	ALCOSAN	47	9.42

[Table 4-6]

10. Other Special Conditions:

"The Pennsylvania Environmental Defense Fund (PEDF) consent decree requires all ALCOSAN SSOs to Chartiers Creek to be eliminated by 2019. The capital improvements in the Recommended 2026 Plan will comply with the SSO removal requirement, however , due to the extensive sewer construction required, it cannot be completed by 2019. Multiple concurrent construction contracts will be needed just to complete it by the 2026 CD milestone." (page 11-7 of the DWWP)

Scott Township

1. Planning Basin(s) Municipality is Part of: ***[Table 2-1]***	Chartiers Creek Planning Basin Saw Mill Run Planning Basin	
2. ALCOSAN POC(s) Municipality is Tributary to: ***[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]***	**Combined:**	C-30, C-31, C-41, C-51, MH-18
	Separate:	C-42, C-44-12, C-45, C-45B-04, C-45B-08, C-47, C-48, C-49, C-50, C-50A, C-50A-06, C-50B, C-53
3. Municipal CSOs/SSOs Owned by Municipality: ***[Section 3.2 to 3.8 CSO/SSO tables]***	**CSOs:**	None
	SSOs:	W-2D, H-11, H-30-1, H-30-2, H-30-2C

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:

[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
C-30	Use existing system	Preferred
C-31	Use existing system	Preferred
C-41	Use existing system	Assumed
C-42	Use existing system	Preferred
C-44-12	Use existing system	Preferred
C-45	Use existing system	Preferred
C-45B-04	Use existing system	Assumed
C-45B-08	Use existing system	Assumed
C-47	Use existing system	Preferred
C-48	Parallel relief sewer	Assumed
C-49	Parallel relief sewer and replacement sewer	Assumed
C-50	Use existing system	Assumed
C-50A	Use existing system	Preferred
C-50A-06	Use existing system	Preferred
C-50B	Use existing system	Preferred
C-51	Separate storm sewer connecting to C-51	Assumed
C-53	Parallel relief sewer	Assumed
MH-18	Use existing system	Assumed

Notes:
1) ALCOSAN designated projects as “assumed” if “information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required.” (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as “preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities

[Table 9-35]

None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:

[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]

5.5 to 7 ft diameter relief interceptor in vicinity of C-53

7 ft diameter relief interceptor, parallel to existing interceptor between C-5-A-12 and C-49

7 ft diameter relief interceptor between C-48 and C-41

3.5 to 6 ft diameter consolidation sewer from POC C-45B-04 to relief sewer

[Tables 10-12, 10-15, 10-16 and 10-17]

[Figures 10-10, 10-11 and 10-12]

C-53 - Modify the existing regulator, connection to new relief sewer

C-51 - Modify the existing regulator

C-50A - No improvements necessary

C-50B - Modify the existing regulator

C-49 - Modify the existing regulator, new regulator for flows to new relief interceptor and a connection to a new relief sewer.

C-48 - Modify the existing regulator, and a connection to a new relief sewer

C-47 - Modify the existing regulator

C-45B-08 - No improvements necessary

C-45B-04 - A new regulator for flows to existing sewers and a new regulator for flows to a new relief interceptor are planned

C-45 - Modify the existing regulator

C-44-12 - No improvements necessary

C-42 - Modify the existing regulator

C-31 - Modify the existing regulator and add a new regulator for flows to a new relief interceptor

[Table 10-17]

7. Schedule for ALCOSAN Construction within the Municipality:

[Figure 11-1]

January 2018 to September 30, 2026 for entire Chartiers Creek Conveyance and Facilities

ALCOSAN has not proposed any construction within the Saw Mill Run Planning Basin

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$81**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$150	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed**
Total Cost Per Household	**$343**	**$1,160**	
Residential Indicator	**0.62%**	**1.40%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The closest tunnel connection to the Saw Mill Run Planning Basin would be between O-41 and O-43 (both located in the City of Pittsburgh) on the north side of the Ohio River, but no such connection is proposed under the Recommended Plan.

The construction of the Chartiers Creek Facilities ends downstream at the modified regulator at C-21. The Chartiers creek relief sewer will be constructed from C-55 to the proposed Retention Treatment basin to be constructed between C-23-08 and C-23. Scott Township contributes flows to the ALCOSAN POCs in the consolidation groups CF02, CF03, and CF04. The Chartiers Creek relief sewer is designed to control all upstream ALCOSAN SSOs to a 2 year control level, captured CSO flows in CF04 to meet water quality standards, with a capacity of 117 MGD to 204 MGD. ***[Table 10-13]***

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
C-30-OF	ALCOSAN	51	4.85
C-31-OF	ALCOSAN	49	3.3
C-41-OF	ALCOSAN	24	0.396
C-51-OF	ALCOSAN	55	18.6

[Table 4-4]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
C-42-OF	ALCOSAN	11	0.423
C-45-OF	ALCOSAN	3	0.009
C-47-OF	ALCOSAN	2	0.00601
C-48-OF	ALCOSAN	20	2.86
C-49-OF	ALCOSAN	40	12.4
C-50-OF	ALCOSAN	9	1.45
C-50A-OF	ALCOSAN	1	0.0846
C-50B-OF	ALCOSAN	18	2.34
C-53-OF	ALCOSAN	58	50
W-2D	Scott Township	13	0.2
H-11	Scott Township	0	0
H-30-1	Scott Township	0	0
H-30-2	Scott Township	9	0.23
H-30-2C	Scott Township	2	0

[Table 4-6 and Table 4-7]

10. Other Special Conditions:
"The Pennsylvania Environmental Defense Fund (PEDF) consent decree requires all ALCOSAN SSOs to Chartiers Creek to be eliminated by 2019. The capital improvements in the Recommended 2026 Plan will comply with the SSO removal requirement, however , due to the extensive sewer construction required, it cannot be completed by 2019. Multiple concurrent construction contracts will be needed just to complete it by the 2026 CD milestone." (page 11-7 of the DWWP)

Shaler Township

1. Planning Basin(s) Municipality is Part of:
[Table 2-1]
Lower Ohio - Girty's Run Planning Basin
Upper Allegheny Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: A-70, A-68, A-67 (via GRJSA)*

Separate: None

Note: *Shaler Township is a part of the GRJSA, see the GRJSA sheet for more information on A-67.

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: MH-75, MH-78, MH-145, MH-S32

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
A-68	Storage facilities and sewer replacement*	Preferred/Assumed
A-70	Use existing system	Assumed

* Sewer replacement is assumed, not preferred, while storage facilities are preferred.

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
Municipality has proposed source reduction through I/I removal will be used to supplement the selected municipal control for POC A-68.

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$138**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$250	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$400**	**$1,260**	
Residential Indicator	**0.62%**	**1.40%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Lower Allegheny conveyance tunnel ends at the upstream Lower Northern Allegheny POC A-67 (located in Millvale Borough). A-22 (located in the City of Pittsburgh) is where the furthest drop shaft will be located on the south side of the Allegheny River.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
A-68-OF	ALCOSAN	58	319
A-70-OF	ALCOSAN	60	76.3

[Table 4-22]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
MH-S32-OF	Shaler Township	25	30.1
MH-145-OF	Shaler Township	6	0.69
MH-75-OF	Shaler Township	0	0
MH-78-OF	Shaler Township	4	0.107

[Table 4-25]

10. Other Special Conditions:

Sharpsburg Borough

1. Planning Basin(s) Municipality is Part of: Upper Allegheny Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to:

[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: A-69, A-70, A-71, A-72, A-73, A-74, A-75, A-74A

Separate: None

3. Municipal CSOs/SSOs Owned by Municipality:

[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Combined		
A-69	Conveyance	Preferred
A-70	Use existing system	Preferred
A-71	Use existing system	Preferred
A-72	Use existing system	Preferred
A-73	Use existing system	Preferred
A-74	Parallel relief sewer and sewer replacement	Preferred
A-75	Use existing system	Assumed
Separate		
A-74A	Pipe upsizing	Assumed

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality or within the Upper Allegheny Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):
[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$75**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$140	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$337**	**$1,150**	
Residential Indicator	**0.99%**	**2.30%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):

[Section 4 CSO/SSO discharge tables]

The construction of the Lower Allegheny conveyance tunnel ends at the upstream Lower Northern Allegheny POC A-67 (located in Millvale Borough). A-22 (located in the City of Pittsburgh) is where the furthest drop shaft will be located on the south side of the Allegheny River.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
A-69-OF	ALCOSAN	62	46.6
A-70-OF	ALCOSAN	60	76.3
A-71-OF	ALCOSAN	64	49.2
A-72-OF	ALCOSAN	61	199
A-73-OF	ALCOSAN	63	53.4
A-74-OF	ALCOSAN	62	37.6
A-75-OF	ALCOSAN	39	24.4

[Table 4-22]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

South Fayette Township/MATSF

1. Planning Basin(s) Municipality is Part of:
[Table 2-1]
Chartiers Creek Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: None

Separate: C-45B-04, C-54-16, C-54-20

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: Chartiers Creek Pump Station, Oakdale Pump Station

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
C-45B-04	Use existing system	Assumed
C-45B-04 (MATSF)	Oakdale Pump Station capacity increased, relief sewers, ad flow limited from McDonald	Preferred
C-54-16	Parallel relief sewers, replacement sewers, and add siphon crossings	Preferred
C-54-20	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction within South Fayette Township. However, a 4 ft diameter relief sewer is to be constructed between C-55-02 and C-54-16 in Bridgeville Borough along the border between South Fayette and Bridgeville Borough on the east side of Chartiers Creek. ***[Figure 10-9]***

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]

January 2018 to September 30, 2026 for entire Chartiers Creek Conveyance and Facilities (no construction was proposed in South Fayette Township)

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$204**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$370	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$466**	**$1,380**	
Residential Indicator	**0.66%**	**1.30%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Chartiers Creek Facilities ends downstream at the modified regulator at C-21. The Chartiers creek relief sewer will be constructed from C-55 to the proposed Retention Treatment basin to be constructed between C-23-08 and C-23.

South Fayette flows to regulators in the CC-CF08 consolidated flow group. This segment of the Chartiers Creek Conveyance and Facilities relief sewer was designed with a 29 MGD capacity and to provide a 2 year level of control for all ALCOSAN SSOs in CC-CF08. ***[Table 10-13]***

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

Stowe Township

1. Planning Basin(s) Municipality is Part of:
[Table 2-1]
Chartiers Creek Planning Basin
and Lower Ohio - Girty's Run Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]
Combined: C-09, O-06, O-01, O-02, O-03, O-04, O-05*, O-05A, O-05B
Separate: None
*Note: O-05 is not included on Table 9-28, but is identified to be within Stowe Township on Table 3-17.

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]
CSOs: None
SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Combined:		
C-09	Use existing system	Preferred
O-06	Use existing system	Assumed
O-01	Use existing system	Preferred
O-02	Use existing system	Preferred
O-03	Use existing system	Preferred
O-04	Use existing system	Preferred
O-05A	Use existing system	Preferred
O-05B	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipality:
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposedosed any construction in the Recommended Plan within this Municipality or within the Lower Ohio Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):
[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$243**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this figure based on their data.
		$440	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposedosed improvements.**
Total Cost Per Household	**$505**	**$1,450**	
Residential Indicator	**1.47%**	**2.90%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):

[Section 4 CSO/SSO discharge tables]

The construction of the Chartiers Creek facilities ends downstream at the C-21 drop shaft.

Note that no overflow statistics after implementation of the Recommended Plan were provided in the DWWP.

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
C-09-OF	ALCOSAN	65	133
O-06-OF	ALCOSAN	0	0
O-01-OF	ALCOSAN	2	0.027
O-02-OF	ALCOSAN	24	0.999
O-03-OF	ALCOSAN	62	14.5
O-04-OF	ALCOSAN	57	54.6
O-05-OF	ALCOSAN	43	0.9
O-05A-OF	ALCOSAN	14	0.206
O-05B-OF	ALCOSAN	22	1.72

[Tables 4-4 and 4-8]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

Swissvale Borough

1. Planning Basin(s) Municipality is Part of: Upper Monongahela Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to: **Combined:** M-47, M-48, M-50, M-51
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Separate: None

3. Municipal CSOs/SSOs Owned by Municipality: **CSOs:** None
[Section 3.2 to 3.8 CSO/SSO tables]

SSOs: Tassey Hollow SSO

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Combined		
M-48	Use existing system	Assumed
M-50	Use existing system	Preferred
M-51	Use existing system	Preferred
Separate		
M-47	Parallel relief sewers	Assumed
M-48	Use existing system	Assumed
M-50	Use existing system	Preferred
M-51	Use existing system	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$114**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$210	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$376**	**$1,220**	
Residential Indicator	**0.91%**	**2.00%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

A consolidation sewer will capture and store overflows from outfall M-43 for later dewatering and treatment (located in West Homestead Borough).

The construction of the Monongahela River Tunnel Segment ends at the upstream Main Rivers POC M-29 (located in the City of Pittsburgh).

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
M-47-OF	ALCOSAN	65	226
M-48-OF	ALCOSAN	45	15.7
M-50-OF	ALCOSAN	51	30.6
M-51-OF	ALCOSAN	61	41.8

[Table 4-26]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
Tassey Hollow_SSO	Undetermined*	0	0

[Table 4-28]

Note: *Table 3-55 has Swissvale labeled as the owner of Tassey Hollow SSO.

10. Other Special Conditions:

Thornburg Borough

1. Planning Basin(s) Municipality is Part of: Chartiers Creek Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to:

[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: None

Separate: C-20-02, C-21

3. Municipal CSOs/SSOs Owned by Municipality:

[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
C-20-02	Use existing system	Assumed
C-21	Parallel relief sewer	Assumed

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities

[Table 9-35]

None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]

Modification of the existing regulator is planned for C-21

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]

January 2018 to September 30, 2026 for entire Chartiers Creek Conveyance and Facilities

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$0**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$0	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$262**	**$1,010**	
Residential Indicator	**0.21%**	**0.60%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Chartiers Creek Facilities ends downstream at the modified regulator at C-21. The Chartiers creek relief sewer will be constructed from C-55 to the proposed Retention Treatment basin to be constructed between C-23-08 and C-23.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
C-21-OF	ALCOSAN	4	0.123

[Table 4-6]

10. Other Special Conditions:

"The Pennsylvania Environmental Defense Fund (PEDF) consent decree requires all ALCOSAN SSOs to Chartiers Creek to be eliminated by 2019. The capital improvements in the Recommended 2026 Plan will comply with the SSO removal requirement, however , due to the extensive sewer construction required, it cannot be completed by 2019. Multiple concurrent construction contracts will be needed just to complete it by the 2026 CD milestone." (page 11-7 of the DWWP)

Trafford Borough

1. Planning Basin(s) Municipality is Part of: Turtle Creek Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to: **Combined:** None
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Separate: T-26A-10, T-27, T-27-02, T-29, T-29A-02, T-29A-08, T-29A-10, T-31, T-32, T-33

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: T-29A-10B-OF

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
T-26A-10	use existing system	Preferred
T-27	use existing system	Preferred
T-27-02	use existing system	Preferred
T-29	Relief sewers	Preferred
T-29A-02	use existing system	Preferred
T-29A-08	use existing system	Preferred
T-29A-10	use existing system (T-29A-10B)	Preferred
T-31	Relief sewers	Preferred
T-32	use existing system	Preferred
T-33	use existing system	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]

None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]

ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality or within the Turtle Creek Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):
[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$257**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$460	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$519**	**$1,470**	
Residential Indicator	**1.28%**	**2.50%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Monongahela Tunnel Segment ends at the upstream Main Rivers POC M-29 (located in the City of Pittsburgh).

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
T-27-OF	ALCOSAN	50	3.79
T-29-OF	ALCOSAN	7	0.131
T-31-OF	ALCOSAN	35	1.6
T-32-OF	ALCOSAN	0	0
T-33-OF	ALCOSAN	0	0
T-29A-10B-OF	Trafford	3	0.0222
T-29A-IRO	ALCOSAN	5	0.733

[Table 4-20 and Table 4-21]

10. Other Special Conditions:

Turtle Creek Borough

1. Planning Basin(s) Municipality is Part of: ***[Table 2-1]*** Turtle Creek Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:

[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: T-04, T-07, T-10, T-11, T-12, T-13, T-14, T-15, T-09

Separate: TR-01, TR-02

3. Municipal CSOs/SSOs Owned by Municipality:

[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: T-10C TCMH #1

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:

[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed (3)	Assumed or Preferred (1) (2)
Combined		
T-04	Use existing system	Preferred
T-07	Use existing system	Preferred
T-10	Relief sewers	Assumed
T-11	Use existing system	Preferred
T-12	Relief sewers	Preferred
T-13	Use existing system	Preferred
T-14	Use existing system	Preferred
T-15	Use existing system	Preferred
T-09	Conveyance	Assumed

Notes:

1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)

2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

3) TR-01, TR-01-06, TR-01-16, TR-02 are listed on Table 9-32 as POC for Turtle Creek Borough under ALCOSAN T-09 but no project information was provided.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality or within the Turtle Creek Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$101**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$180	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$363**	**$1,190**	
Residential Indicator	**0.94%**	**2.10%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Monongahela Tunnel Segment ends at the upstream Main Rivers POC M-29 (located in the City of Pittsburgh).

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
T-04-OF	ALCOSAN	30	20.3
T-07-OF	ALCOSAN	30	11.7
T-10-OF	ALCOSAN	62	19.5
T-11-OF	ALCOSAN	8	0.709
T-12-OF	ALCOSAN	22	3.29
T-13-OF	ALCOSAN	8	0.373
T-14-OF	ALCOSAN	25	3.06
T-15-OF	ALCOSAN	11	0.734
T-10C-OF	Turtle Creek	43	17

[Table 4-18 and Table 4-19]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

Upper St. Clair Township

1. Planning Basin(s) Municipality is Part of:
[Table 2-1]

Chartiers Creek Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: None

Separate: C-53, C-53-10, C-54-16, C-55-02

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: MH 950-4785, MH 950-1733, MH 950-2213, MH 950-4382, MH 950-4750

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
C-53	Conveyance	Assumed
C-53-10	Parallel relief sewer and replacement sewers	Assumed
C-54-16	None listed -See Table 9-27	None listed- See Table 9-27
C-55-02	Conveyance	Assumed

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
4 to 7 ft diameter relief interceptor from C-54-12 to C-53 to be constructed near the northern tip of Upper St. Clair Township (actually in Bridgeville Borough)
[Table 10-12 and Figure 10-10]
Modifications of the existing regulator and connection to a new relief sewer is planned for regulator C-53 near the northern tip of Upper St. Clair (actually in Bridgeville Borough)
[Table 10-15]

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
January 2018 to September 30, 2026 for entire Chartiers Creek Conveyance and Facilities

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):
[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$302**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$540	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$564**	**$1,550**	
Residential Indicator	**0.58%**	**1.10%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Chartiers Creek Facilities ends downstream at the modified regulator at C-21. The Chartiers creek relief sewer will be constructed from C-55 to the proposed Retention Treatment basin to be constructed between C-23-08 and C-23.

Upper St. Clair connects to C-53 in the consolidated flow group CF02. The proposed relief sewer will control all upstream ALCOSAN SSOs to a 2 year control level with a capacity of 117 MGD. ***[Table 10-13]***

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
C-53-OF	ALCOSAN	58	50
950-2213	Twp. of Upper St. Clair	0	0
950-1733	Twp. of Upper St. Clair	2	0.08
950-4750	Twp. of Upper St. Clair	2	0.94
950-4382	Twp. of Upper St. Clair	9	3.24
950-4785	Twp. of Upper St. Clair/Bridgeville	43	46.6

[Table 4-6 and Table 4-7]

10. Other Special Conditions:

"The Pennsylvania Environmental Defense Fund (PEDF) consent decree requires all ALCOSAN SSOs to Chartiers Creek to be eliminated by 2019. The capital improvements in the Recommended 2026 Plan will comply with the SSO removal requirement, however , due to the extensive sewer construction required, it cannot be completed by 2019. Multiple concurrent construction contracts will be needed just to complete it by the 2026 CD milestone." (page 11-7 of the DWWP)

Verona Borough

1. Planning Basin(s) Municipality is Part of: Upper Allegheny Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to:

[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: None

Separate: A-42A-30, A-44-02, A-45

3. Municipal CSOs/SSOs Owned by Municipality:

[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
A-42A-30	Use existing system	Assumed
A-44-02	Use existing system	Preferred
A-45	Parallel relief sewer	Assumed

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipalities
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposed any construction in the Recommended Plan within this Municipality or within the Upper Allegheny Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$0**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this Figure based on their data.
		$0	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposed improvements.**
Total Cost Per Household	**$262**	**$1,010**	
Residential Indicator	**0.570%**	**1.50%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):
[Section 4 CSO/SSO discharge tables]

The construction of the Lower Allegheny conveyance tunnel ends at the upstream Lower Northern Allegheny POC A-67 (located in Millvale Borough). A-22 (located in the City of Pittsburgh) is where the furthest drop shaft will be located on the south side of the Allegheny River.

"Note that no overflow statistics after implementation of the Recommended Plan were provided in tabular format in the DWWP."

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
A-45-OF	ALCOSAN	30	4.7

[Table 4-24]

10. Other Special Conditions:

Wall Borough

1. Planning Basin(s) Municipality is Part of: Turtle Creek Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to: **Combined**: None
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]
Separate: T-25

3. Municipal CSOs/SSOs Owned by Municipality: **CSOs:** None
[Section 3.2 to 3.8 CSO/SSO tables]
SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate:		
T-25	Use Existing System	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipality:
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposedosed any construction in the Recommended Plan within this Municipality

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$166**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this figure based on their data.
		$300	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposedosed improvements.**
Total Cost Per Household	**$428**	**$1,310**	
Residential Indicator	**1.23%**	**2.60%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):

[Section 4 CSO/SSO discharge tables]

The construction of the Monongahela Tunnel segment ends at the upstream Main Rivers POC M-29.

Note that no overflow statistics after implementation of the Recommended Plan were provided in the DWWP.

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
T-25-OF	ALCOSAN	69	11.5

[Table 4-20]

10. Other Special Conditions:

West Homestead Borough

1. Planning Basin(s) Municipality is Part of: Upper Monongahela Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to: **Combined:** M-43, M-44
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Separate: None

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: M4400_-OSC-M-02OF
M4400_-OSC-M-08OF
West Run IRO

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Combined:		
M-43	Use Existing System	Assumed
M-44	Conveyance	Preferred (3)

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

3) Conveyance was identified as the preferred project but an overflow frequency of 0 for the typical year was assumed on Table 9-34.

5. Green Infrastructure/Source Reduction Being Considered by Municipality:
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN proposedosed an outfall relocation for M-43 and consolidation sewer construction.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
Monongahela River Segment Tunnel & Facilities construction is proposedosed to take place between January 2023 to September 30th, 2026

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$138**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this figure based on their data.
		$250	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposedosed improvements.**
Total Cost Per Household	**$400**	**$1,260**	
Residential Indicator	**0.77%**	**1.70%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):

[Section 4 CSO/SSO discharge tables]

A consolidation sewer will capture and store overflows from outfall M-43 for later dewatering and treatment.

Note that no overflow statistics after implementation of the Recommended Plan were provided in the DWWP.

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
M-43-OF	ALCOSAN	62	17.7
M-44-OF	ALCOSAN	60	230
M4400_-OSC-M-02OF	West Homestead	25	1.02
M4400_-OSC-M-08OF	West Homestead	66	8.41

[Tables 4-25 and 4-27]

Figures 9-155 & 9-156 include the "Balanced Priority" Alternative (same as the Recommended Plan) CSO frequency and volume statistics for M-43.

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

West Mifflin Borough

1. Planning Basin(s) Municipality is Part of: Upper Monongahela Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to: **Combined:** M-42, M-49
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Separate: None

3. Municipal CSOs/SSOs Owned by Municipality: **CSOs:** None
[Section 3.2 to 3.8 CSO/SSO tables]

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate		
M-42	Use Existing System	Assumed
M-49	Use Existing System	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipality:
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposedosed any construction in the Recommended Plan within this Municipality.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWT]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$298**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this figure based on their data.
		$540	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposedosed improvements.**
Total Cost Per Household	**$560**	**$1,550**	
Residential Indicator	**1.19%**	**2.30%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):

[Section 4 CSO/SSO discharge tables]

The construction of the Monongahela Tunnel segment ends at the upstream Main Rivers POC M-29.
A consolidation sewer will capture and store overflows from outfall M-43 for later dewatering and treatment.

Note that no overflow statistics after implementation of the Recommended Plan were provided in the DWWP.

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
M-42-OF	ALCOSAN	62	151
M-49-OF	ALCOSAN	61	44.6

[Table 4-26]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

West View Borough

1. Planning Basin(s) Municipality is Part of: Lower Ohio - Girty's Run Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to: **Combined:** A-67
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8] **Separate:** O-15 (LRJOC via MTSA), O-18
Note: See Table 9-36 for LRJOC and GRJSA Municipality list

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]
Note: As per page 3-34 of the DWWP West View Borough Municipal Authority has jurisdictional control of its sewer system.

CSOs: Cresson Avenue CSO #1
Cemetery Lane CSO #2
SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Combined		
A-67	Storage Tank and Conveyance	Assumed
Separate		
O-18	Use existing system	Preferred
O-15 (LRJOC)	Upsize pipes, new parallel conveyance (LRJOC)	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

3) Construction of the O-15 parallel conveyance is through the LRJOC, of which West View Borough is included. The actual footprint of the construction will not be within West View Borough limits, as shown on Figure 9-19.

5. Green Infrastructure/Source Reduction Being Considered by Municipality:
[Table 9-35]
Within A-67 sewershed - Green infrastructure will be considered for the areas of Frankfort Avenue, Standard Avenue, portions of Center Avenue, the roof of the Municipal Complex and the roofs of the Municipal Authority administrative offices.

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposedosed any construction within this municipality, construction of the conveyance tunnel within the Lower Northern Allegheny Planning Basin will take place within Millvale Borough and will include the A-67 POC.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):
[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$380**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this figure based on their data.
		$680	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposedosed improvements.**
Total Cost Per Household	**$642**	**$1,690**	
Residential Indicator	**1.22%**	**2.20%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):

[Section 4 CSO/SSO discharge tables]

The construction of the Lower Allegheny conveyance tunnel end at the upstream Lower Northern Allegheny POC A-67 (located in Millvale Borough) and will connect to the proposedosed tunnel at A-60 within the Main Rivers Basin and the City of Pittsburgh.

Note that no overflow statistics after implementation of the Recommended Plan were provided in the DWWP.

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
A-67-OF	ALCOSAN	55	128
WV-CSO#1-OF	West View	34	5.4
WV-CSO#2-OF	West View	54	24.2

[Table 4-8]

Figures 9-155 & 9-156 include the "Balanced Priority" Alternative (same as the Recommended Plan) CSO frequency and volume statistics for A-67.

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
O-15-OF	ALCOSAN	55	165
O-18-OF	ALCOSAN	32	10.3

[Table 4-10]

10. Other Special Conditions:

Whitaker Borough

1. Planning Basin(s) Municipality is Part of: Upper Monongahela Planning Basin
[Table 2-1]

2. ALCOSAN POC(s) Municipality is Tributary to: **Combined:** M-49
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8] **Separate:** None

3. Municipal CSOs/SSOs Owned by Municipality: **CSOs:** None
[Section 3.2 to 3.8 CSO/SSO tables]

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate:		
M-49	Use Existing System	Assumed

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipality:
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposedosed any construction in the Recommended Plan within this Municipality.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$150**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this figure based on their data.
		$270	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposedosed improvements.**
Total Cost Per Household	**$412**	**$1,280**	
Residential Indicator	**1.04%**	**2.20%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):

[Section 4 CSO/SSO discharge tables]

The construction of the Monongahela Tunnel segment ends at the upstream Main Rivers POC M-29.

Note that no overflow statistics after implementation of the Recommended Plan were provided in the DWWP.

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
M-49-OF	ALCOSAN	61	44.6

[Table 4-26]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

10. Other Special Conditions:

Whitehall Borough

1. Planning Basin(s) Municipality is Part of:
[Table 2-1]
Saw Mill Run Planning Basin
and Upper Monongahela Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: MH-89*, M-42
Separate: MH-99A**, SMR-CS-16-INFL2, SMR-CS-20,

*Listed in Table 3-32 only as a PWSA owned POC
**Not found in the Section 3 Tables

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: None

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Separate:		
MH-89	Relief Sewers	Preferred
MH-99A	Use Existing System	Preferred
SMR-CS-16-INFL2	Use Existing System	Assumed
SMR-CS-20	Use Existing System	Assumed
M-42	Use Existing System	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipality:
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposedosed any construction in the Recommended Plan within this municipality or within the Saw Mill Run Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$284**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this figure based on their data.
		$510	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposedosed improvements.**
Total Cost Per Household	**$546**	**$1,520**	
Residential Indicator	**0.82%**	**1.60%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):

[Section 4 CSO/SSO discharge tables]

The construction of the Monongahela Tunnel segment ends at the upstream Main Rivers POC M-29.
A consolidation sewer will capture and store overflows from outfall M-43 for later dewatering and treatment.

Note that no overflow statistics after implementation of the Recommended Plan were provided in the DWWP.

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
M-42	ALCOSAN	62	151

[Table 4-26]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
N/A			

Information on the overflow frequency and the overflow volume are not listed in the WWP for MH-89, SMR-CS-INFL2, and SMR-CS-20 within Whitehall. MH-89 is owned by PWSA.

10. Other Special Conditions:

Wilkins Township

1. Planning Basin(s) Municipality is Part of: ***[Table 2-1]***

Turtle Creek Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to: ***[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]***

Combined: T-09 (Thompson Run)

Separate: T-04, T-04-02, T-07, T-09(Thompson Run)

3. Municipal CSOs/SSOs Owned by Municipality:

[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: Regulator Structure TR-03A CSO MH#1 (Thompson Run)

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:

[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Combined:		
T-09	Conveyance (3)	Assumed
Separate:		
T-04	Use Existing system	Preferred
T-04-02	Use Existing system	Preferred
T-07	Use Existing system	Preferred
T-09	Conveyance	Assumed

Notes:

1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)

2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

3) TR-01-06, TR-03, TR-04, TR-04-14, TR-04-32, TR-05, and TR-05-04 are listed on Table 9-32 as POCs for Wilkins Township under ALCOSAN POC T-09 but no project information was provided.

5. Green Infrastructure/Source Reduction Being Considered by Municipality:

[Table 9-35]

None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:

[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]

ALCOSAN has not scheduled any construction in the Recommended Plan within this Municipality or within Turtle Creek Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:

[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):
[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$141**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this figure based on their data.
		$250	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposedosed improvements.**
Total Cost Per Household	**$403**	**$1,260**	
Residential Indicator	**0.84%**	**1.80%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):

[Section 4 CSO/SSO discharge tables]

The construction of the Monongahela Tunnel segment ends at the upstream Main Rivers POC M-29.
A consolidation sewer will capture and store overflows from outfall M-43 for later dewatering and treatment.

Note that no overflow statistics after implementation of the Recommended Plan were provided in the DWWP.

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
T-04-OF	ALCOSAN	30	20.3
T-07-OF	ALCOSAN	30	11.7
TR-03A-OF	Wilkins	5	0.311

[Table 4-18]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
TR-03-OF	ALCOSAN	4	0.31
TR-04-OF	ALCOSAN	19	1.35
TR-05-OF	ALCOSAN	6	0.06

[Table 4-20]

10. Other Special Conditions:

Wilkinsburg Borough

1. Planning Basin(s) Municipality is Part of:
[Table 2-1]
Turtle Creek Planning Basin,
Upper Allegheny Planning Basin,
and Upper Monongahela Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]
Combined: T-04, M-47
Separate: None

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]
CSOs: None
SSOs: Koenig Field SSO

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
CSO		
T-04	T-04 is listed only in Table 9-36 as having Wilkinsburg as a contributing watershed but is not listed in Table 9-31 Assumed/Preferred Flow Management Approach.	
SSO		
M-47	Parallel relief sewers	Assumed

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipality:
[Table 9-35]
None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:
[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]
ALCOSAN has not proposedosed any construction in the Recommended Plan within this municipality or within Turtle Creek Planning Basin.

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):

[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$71**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this figure based on their data.
		$130	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposedosed improvements.**
Total Cost Per Household	**$333**	**$1,140**	
Residential Indicator	**1.09%**	**2.60%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):

[Section 4 CSO/SSO discharge tables]

The construction of the Monongahela Tunnel segment ends at the upstream Main Rivers POC M-29 and the Allegheny River Tunnel and Facilities stops at the A-22 POC within the Main Rivers Sewershed. A consolidation sewer will capture and store overflows from outfall M-43 for later dewatering and treatment.

Note that no overflow statistics after implementation of the Recommended Plan were provided in the DWWP.

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
T-04-OF	ALCOSAN	30	20.3
M-47-OF	ALCOSAN	65	226

[Tables 4-26 and 4-18]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
Koenig Field SSO	Wilkinsburg	12	5.67

[Table 4-28]

10. Other Special Conditions:

There appears to be no Wilkinsburg pipe flows to the UA Basin

Wilmerding Borough

1. Planning Basin(s) Municipality is Part of:
[Table 2-1]

Turtle Creek Planning Basin

2. ALCOSAN POC(s) Municipality is Tributary to:
[Tables 9-27 through 9-34 and Sections 3.2 through 3.8]

Combined: T-15, T-16A, T-17, T-19, T-21, T-23, T-24

Separate: T-22, T-16, T-18

3. Municipal CSOs/SSOs Owned by Municipality:
[Section 3.2 to 3.8 CSO/SSO tables]

CSOs: T-18-OF_ST

SSOs: None

4. Project(s)Listed in the Draft WWP to be Constructed by Municipality:
[Tables 9-27 through 9-34]

ALCOSAN POC	Project(s) Listed	Assumed or Preferred (1) (2)
Combined:		
T-15	Relief Sewers	Preferred
T-16	Use Existing System	Preferred
T-16A	Relief Sewers	Preferred
T-17	Use Existing System	Preferred
T-18	Disconnection of storm system	Preferred
T-19	Relief Sewers	Preferred
T-21	Use Existing System	Preferred
T-23	Use Existing System	Preferred
T-24	Use Existing System	Preferred
Separate:		
T-22	Use Existing System	Preferred

Notes:
1) ALCOSAN designated projects as "assumed" if "information from a particular municipality was still incomplete, was judged to be unreliable, or a preferred control strategy could not be clearly identified. In these cases, the basin planner assumed a control strategy, assumed a level of control and the associated costs, and/or identified areas within the existing municipal sewer system that had adequate hydraulic capacity to convey peak wet weather flow to the ALCOSAN system and where no capital improvements or control facility were required." (See page 9-80 of the DWWP)
2) ALCOSAN has designated municipal flow control strategies as "preferred" if the municipality clearly identified them as the preferred method of flow management.

5. Green Infrastructure/Source Reduction Being Considered by Municipality:

[Table 9-35]

None

6. ALCOSAN Recommended Plan: Facilities to be Constructed within Municipality:

[Table 10-1 and Sections 10.5 through 10.8 cross referenced with maps and list of outfalls]

ALCOSAN has not proposedosed any construction in the Recommended Plan within this Municipality or within the Turtle Creek Planning Basin

7. Schedule for ALCOSAN Construction within the Municipality:
[Figure 11-1]
N/A

8. Financial Impact (2012 versus 2027 Total Cost per Household and Residential Indicator):
[See tables 6-6 and 11-13 of the DWWP; more details on the assumptions for costs and RI are discussed in Sections 6.2.1 through 6.2.5 and Sections 11.5.5 and 11.5.6 of the DWWP]

Cost / Components	2012	2027	Notes
ALCOSAN Annual Residential Wastewater Costs without DWWP	**$262**		Estimated based on $9.07 quarterly service charge; $4.32 commodity charge per 1,000 gallons; and an average single family residential use of 13 thousand-gallon units/quarter
		$410	Estimated from the 2012 cost escalated to 2027 dollars
Municipal Surcharge	**$141**		Municipality-specific surcharge added by Municipality for an average single family residential use of 13 thousand-gallon units/quarter. Municipalities may wish to check this figure based on their data.
		$250	Estimated from the 2012 municipality-specific surcharge escalated to 2027 dollars
ALCOSAN DWWP Cost	**$0**	**$390**	Uniform number spread across ALCOSAN service area for ALCOSAN-only DWWP costs
Municipal DWWP Cost	**$0**	**$210**	**Uniform number spread across ALCOSAN service area for estimated $530 million municipal capital costs. Not Municipality-specific therefore municipalities may wish to calculate their own cost figure based on their municipality specific proposedosed improvements.**
Total Cost Per Household	**$403**	**$1,260**	
Residential Indicator	**1.65%**	**3.60%**	The residential indicator is calculated by dividing the municipal-specific Total Cost Per Household by the municipal-specific median household income (MHI)

Note: All costs based on an average single family residential use of 13 thousand-gallon units/quarter

9. Impact on Performance of Municipal Sewer System (ALCOSAN and Municipal CSO/SSO discharges):

[Section 4 CSO/SSO discharge tables]

The most upstream POC for the proposed. Monongahela River Tunnel & Facilities is POC M-29 within the Main Rivers Planning Basin.

A consolidation sewer will capture and store overflows from outfall M-43 for later dewatering and treatment.

Note that no overflow statistics after implementation of the Recommended Plan were provided in the DWWP.

CSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
T-15-OF	ALCOSAN	11	0.734
T-16A-OF	ALCOSAN	23	1.24
T-17-OF	ALCOSAN	14	1.42
T-19-OF	ALCOSAN	13	0.534
T-21-OF	ALCOSAN	2	0.102
T-22-OF	ALCOSAN	55	4.77
T-23-OF	ALCOSAN	26	1.66
T-24-OF	ALCOSAN	29	2
T-18-OF_ST	Wilmerding	48	6.67

[Tables 4-18 and 4-19]

SSO Outfall	Owner	Existing Annual Overflow Frequency (number of activations)	Existing Annual Overflow Volume (million gallons)
T-16-OF	ALCOSAN	3	0.0484
T-18-OF	ALCOSAN	0	0

[Table 4-20]

10. Other Special Conditions: