

## Simple Basin: BB1

Scenario: 2016 FWCD Update  
Node: NB1  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 20.5000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 1.6600 ac  
Curve Number: 83.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

## Simple Basin: BB2

Scenario: 2016 FWCD Update  
Node: NB2  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 31.9000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 1.3400 ac  
Curve Number: 79.0  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

Simple Basin: BB3

Scenario: 2016 FWCD Update  
Node: NB3  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 20.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 1.0200 ac  
Curve Number: 83.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

Simple Basin: BB4

Scenario: 2016 FWCD Update  
Node: NB4  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 24.1000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 1.5600 ac  
Curve Number: 83.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

Simple Basin: BB5

Scenario: 2016 FWCD Update  
Node: NB5  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 31.8000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 2.3700 ac  
Curve Number: 79.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

## Simple Basin: BBG

Scenario: 2016 FWCD Update  
Node: NBG  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 7.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 0.9500 ac  
Curve Number: 81.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

## Simple Basin: BBOU

Scenario: 2016 FWCD Update  
Node: NBOU  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 15.2000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 0.9900 ac  
Curve Number: 79.0  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

Simple Basin: BF-25

Scenario: 2016 FWCD Update  
Node: NF-25  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 30.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 59.0400 ac  
Curve Number: 84.0  
% Impervious: 8.00  
% DCIA: 8.00  
% Direct: 0.00  
Rainfall Name:

Comment: FELL. MAIN CANAL ROW

Simple Basin: BF-30

Scenario: 2016 FWCD Update  
Node: NF-30  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 30.0000 min  
Max Allowable Q: 999999.00 cfs

Time Shift: 0.0000 hr  
Area: 69.3600 ac  
Curve Number: 84.0  
% Impervious: 8.00  
% DCIA: 8.00  
% Direct: 0.00  
Rainfall Name:

Comment: FELL. MAIN CANAL ROW

Simple Basin: BF-60

Scenario: 2016 FWCD Update  
Node: NF-60  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 30.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 46.8100 ac  
Curve Number: 84.0  
% Impervious: 8.01  
% DCIA: 8.01  
% Direct: 0.00  
Rainfall Name:

Comment: FELL. MAIN CANAL ROW

Simple Basin: BF-70

Scenario: 2016 FWCD Update  
Node: NF-70

Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 30.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 10.1400 ac  
Curve Number: 84.0  
% Impervious: 8.02  
% DCIA: 8.02  
% Direct: 0.00  
Rainfall Name:

Comment: FELL. MAIN CANAL ROW

Simple Basin: BF-80

Scenario: 2016 FWCD Update  
Node: NF-80  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 30.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 16.7700 ac  
Curve Number: 84.0  
% Impervious: 8.01  
% DCIA: 8.01  
% Direct: 0.00  
Rainfall Name:

Comment: FELL. MAIN CANAL ROW

## Simple Basin: BF-85

Scenario: 2016 FWCD Update  
Node: NF-85  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 30.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 34.2100 ac  
Curve Number: 84.0  
% Impervious: 8.02  
% DCIA: 8.02  
% Direct: 0.00  
Rainfall Name:

Comment: FELL. MAIN CANAL ROW

## Simple Basin: BI-10W

Scenario: 2016 FWCD Update  
Node: NI-10W  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 53.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 92.4900 ac  
Curve Number: 72.0  
% Impervious: 0.50  
% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:



Comment: INTERNAL LAT DITCH 1

Simple Basin: BI-20A

Scenario: 2016 FWCD Update  
Node: NI-20A  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 150.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 51.6400 ac  
Curve Number: 79.0  
% Impervious: 2.00  
% DCIA: 2.00  
% Direct: 0.00  
Rainfall Name:

Comment: INTERNAL LAT DITCH 2

Simple Basin: BI-20W

Scenario: 2016 FWCD Update  
Node: NU-20B  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 50.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 63.0000 ac  
Curve Number: 72.0  
% Impervious: 0.50

% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: INTERNAL LAT DITCH 2

Simple Basin: BI-25A

Scenario: 2016 FWCD Update  
Node: NI-25A  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 47.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 70.2900 ac  
Curve Number: 72.0  
% Impervious: 0.50  
% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: INTERNAL LAT DITCH 2/3

Simple Basin: BI-25C

Scenario: 2016 FWCD Update  
Node: NI-25C  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 44.0000 min  
Max Allowable Q: 999999.00 cfs

Time Shift: 0.0000 hr  
Area: 54.6000 ac  
Curve Number: 72.0  
% Impervious: 0.50  
% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: INTERNAL LAT DITCH 2/3

Simple Basin: BI-30W

Scenario: 2016 FWCD Update  
Node: NI-30W  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 50.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 71.4300 ac  
Curve Number: 72.0  
% Impervious: 0.50  
% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: INTERNAL LAT DITCH 3

Simple Basin: BI-40A

Scenario: 2016 FWCD Update  
Node: NI-40A

Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 46.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 46.4600 ac  
Curve Number: 72.0  
% Impervious: 0.50  
% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: INTERNAL LAT DITCH 4

Simple Basin: BI-40C

Scenario: 2016 FWCD Update  
Node: NI-40C  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 51.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 83.9400 ac  
Curve Number: 72.0  
% Impervious: 0.50  
% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: INTERNAL LAT DITCH 4

## Simple Basin: BI-40M

Scenario: 2016 FWCD Update  
Node: NI-40M  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 30.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 13.5900 ac  
Curve Number: 86.0  
% Impervious: 32.00  
% DCIA: 32.00  
% Direct: 0.00  
Rainfall Name:

Comment: WETLAND AREA #1

## Simple Basin: BI-40W

Scenario: 2016 FWCD Update  
Node: NI-40W  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 50.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 71.3300 ac  
Curve Number: 72.0  
% Impervious: 0.50  
% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: INTERNAL LAT DITCH 4

Simple Basin: BI-50A

Scenario: 2016 FWCD Update  
Node: NI-50A  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 47.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 69.6600 ac  
Curve Number: 72.0  
% Impervious: 0.50  
% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: INTERNAL LAT DITCH 5

Simple Basin: BI-50C

Scenario: 2016 FWCD Update  
Node: NI-50C  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 44.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 54.2500 ac  
Curve Number: 72.0  
% Impervious: 0.50

% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: INTERNAL LAT DITCH 5

Simple Basin: BI-50W

Scenario: 2016 FWCD Update  
Node: NI-50W  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 50.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 70.4100 ac  
Curve Number: 72.0  
% Impervious: 0.50  
% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: INTERNAL LAT DITCH 5

Simple Basin: BI-60A

Scenario: 2016 FWCD Update  
Node: NI-60A  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 47.0000 min  
Max Allowable Q: 999999.00 cfs

Time Shift: 0.0000 hr  
Area: 69.7900 ac  
Curve Number: 72.0  
% Impervious: 0.50  
% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: INTERNAL LAT DITCH 6

Simple Basin: BI-60C

Scenario: 2016 FWCD Update  
Node: NI-60C  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 44.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 54.4100 ac  
Curve Number: 72.0  
% Impervious: 0.50  
% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: INTERNAL LAT DITCH 6

Simple Basin: BI-60W

Scenario: 2016 FWCD Update  
Node: NI-60W



Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 50.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 70.3100 ac  
Curve Number: 72.0  
% Impervious: 0.50  
% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: INTERNAL LAT DITCH 6

Simple Basin: BI-70A

Scenario: 2016 FWCD Update  
Node: NI-70A  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 47.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 46.7900 ac  
Curve Number: 72.0  
% Impervious: 0.50  
% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: INTERNAL LAT DITCH 7

## Simple Basin: BI-70C

Scenario: 2016 FWCD Update  
Node: NI-70C  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 44.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 27.5900 ac  
Curve Number: 72.0  
% Impervious: 2.00  
% DCIA: 2.00  
% Direct: 0.00  
Rainfall Name:

Comment: INTERNAL LAT DITCH 7

## Simple Basin: BI-70W

Scenario: 2016 FWCD Update  
Node: NI-70W  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 50.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 70.2100 ac  
Curve Number: 72.0  
% Impervious: 0.50  
% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: INTERNAL LAT DITCH 7

Simple Basin: BI-75A

Scenario: 2016 FWCD Update  
Node: NI-75A  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 77.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 77.8500 ac  
Curve Number: 72.0  
% Impervious: 0.50  
% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: INTERNAL LAT DITCH 7/8

Simple Basin: BI-75M

Scenario: 2016 FWCD Update  
Node: NI-75M  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 30.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 8.4000 ac  
Curve Number: 86.0  
% Impervious: 32.00

% DCIA: 32.00  
% Direct: 0.00  
Rainfall Name:

Comment: WETLAND AREA #4

Simple Basin: BL1

Scenario: 2016 FWCD Update  
Node: NL1  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 34.9000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 3.3800 ac  
Curve Number: 83.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

Simple Basin: BL2

Scenario: 2016 FWCD Update  
Node: NL2  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 36.2000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 3.9800 ac  
Curve Number: 83.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

Simple Basin: BL3

Scenario: 2016 FWCD Update  
Node: NL3  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 34.9000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 2.2900 ac  
Curve Number: 83.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

## Simple Basin: BL4

Scenario: 2016 FWCD Update  
Node: NL4  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 47.3000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 1.5800 ac  
Curve Number: 83.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

## Simple Basin: BLAKE

Scenario: 2016 FWCD Update  
Node: NLAKE  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 5.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH484  
Peaking Factor: 484.0  
Area: 6.4200 ac  
Curve Number: 90.0  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

Simple Basin: BP-10W

Scenario: 2016 FWCD Update  
Node: NP-10W  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 180.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 119.7500 ac  
Curve Number: 79.0  
% Impervious: 0.50  
% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: PARK LAT DITCH 1 (WEST)

Simple Basin: BP-200

Scenario: 2016 FWCD Update  
Node: NP-200  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 30.0000 min  
Max Allowable Q: 999999.00 cfs

Time Shift: 0.0000 hr  
Area: 7.6400 ac  
Curve Number: 86.0  
% Impervious: 40.00  
% DCIA: 40.00  
% Direct: 0.00  
Rainfall Name:

Comment: LATERAL U ROW

Simple Basin: BP-230

Scenario: 2016 FWCD Update  
Node: NP-230  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 30.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 4.5100 ac  
Curve Number: 86.0  
% Impervious: 40.00  
% DCIA: 40.00  
% Direct: 0.00  
Rainfall Name:

Comment: LATERAL U ROW

Simple Basin: BP-25A

Scenario: 2016 FWCD Update  
Node: NP-25A



Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 45.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 52.7200 ac  
Curve Number: 72.0  
% Impervious: 0.50  
% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: PARK LATERAL DITCH 2/3

Simple Basin: BP-30W2

Scenario: 2016 FWCD Update  
Node: NP-30W2  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 150.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 43.7000 ac  
Curve Number: 79.0  
% Impervious: 2.00  
% DCIA: 2.00  
% Direct: 0.00  
Rainfall Name:

Comment: PARK LATERAL DITCH 3

## Simple Basin: BP-35A

Scenario: 2016 FWCD Update  
Node: NP-35A  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 47.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 62.1700 ac  
Curve Number: 72.0  
% Impervious: 0.50  
% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: PARK LATERAL DITCH 3/4

## Simple Basin: BP-45A

Scenario: 2016 FWCD Update  
Node: NP-45A  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 47.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 62.0200 ac  
Curve Number: 72.0  
% Impervious: 0.50  
% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: PARK LATERAL DITCH 4/5

Simple Basin: BP-55A

Scenario: 2016 FWCD Update  
Node: NP-55A  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 47.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 61.3800 ac  
Curve Number: 72.0  
% Impervious: 0.50  
% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: PARK LATERAL DITCH 5/6

Simple Basin: BP-80W

Scenario: 2016 FWCD Update  
Node: NP-80W  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 150.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 152.9100 ac  
Curve Number: 79.0  
% Impervious: 0.50

% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: PARK LAT DITCH 8 (WEST)

Simple Basin: BP-FJVE

Scenario: 2016 FWCD Update  
Node: NP-FJVE  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 10.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 3949.0000 ac  
Curve Number: 72.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

Simple Basin: BPL1-A

Scenario: 2016 FWCD Update  
Node: NPL1-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 76.4800 ac  
Curve Number: 73.8  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL1-B

Scenario: 2016 FWCD Update  
Node: NPL1-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 84.4900 ac  
Curve Number: 74.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

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**Simple Basin: BPL1-C**

Scenario: 2016 FWCD Update  
Node: NPL1-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 86.2000 ac  
Curve Number: 74.8  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

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**Simple Basin: BPL1-D**

Scenario: 2016 FWCD Update  
Node: NPL1-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr

Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 74.8800 ac  
Curve Number: 72.9  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL10-A

Scenario: 2016 FWCD Update  
Node: NPL10-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 63.1700 ac  
Curve Number: 73.6  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL10-B

Scenario: 2016 FWCD Update  
Node: NPL10-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 60.9200 ac  
Curve Number: 73.7  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL10-C

Scenario: 2016 FWCD Update  
Node: NPL10-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 81.4800 ac  
Curve Number: 74.5  
% Impervious: 0.00



% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL10-D

Scenario: 2016 FWCD Update  
Node: NPL10-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 81.7200 ac  
Curve Number: 73.9  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL10-E

Scenario: 2016 FWCD Update  
Node: NPL10-E  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 74.5700 ac  
Curve Number: 74.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL11-A

Scenario: 2016 FWCD Update  
Node: NPL11-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 63.3300 ac  
Curve Number: 74.6  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL11-B

Scenario: 2016 FWCD Update  
Node: NPL11-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 61.0200 ac  
Curve Number: 73.8  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL11-C

Scenario: 2016 FWCD Update  
Node: NPL11-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 82.7500 ac  
Curve Number: 74.4  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL11-D

Scenario: 2016 FWCD Update  
Node: NPL11-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 86.5100 ac  
Curve Number: 73.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL11-E

Scenario: 2016 FWCD Update  
Node: NPL11-E  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 78.3000 ac  
Curve Number: 72.8  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL12-A

Scenario: 2016 FWCD Update  
Node: NPL12-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 63.8100 ac  
Curve Number: 72.9  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL12-B

Scenario: 2016 FWCD Update  
Node: NPL12-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 62.2700 ac  
Curve Number: 72.9  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL12-C

Scenario: 2016 FWCD Update  
Node: NPL12-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 83.7200 ac  
Curve Number: 74.4  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL12-D

Scenario: 2016 FWCD Update  
Node: NPL12-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 105.2000 ac  
Curve Number: 78.2  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL12-E

Scenario: 2016 FWCD Update  
Node: NPL12-E  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 59.0300 ac  
Curve Number: 74.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL13-A

Scenario: 2016 FWCD Update  
Node: NPL13-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 49.7900 ac  
Curve Number: 72.9  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:



## Simple Basin: BPL13-B

Scenario: 2016 FWCD Update  
Node: NPL13-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 48.9200 ac  
Curve Number: 72.6  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL13-C

Scenario: 2016 FWCD Update  
Node: NPL13-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 65.7000 ac  
Curve Number: 72.8  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL13b-A

Scenario: 2016 FWCD Update  
Node: NPL13b-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 16.6800 ac  
Curve Number: 74.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL13b-B

Scenario: 2016 FWCD Update  
Node: NPL13b-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 22.1400 ac  
Curve Number: 77.2  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

Simple Basin: BPL13b-C

Scenario: 2016 FWCD Update  
Node: NPL13b-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 29.4900 ac  
Curve Number: 77.6  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL13b-D

Scenario: 2016 FWCD Update  
Node: NPL13b-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 11.9600 ac  
Curve Number: 74.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL14-A

Scenario: 2016 FWCD Update  
Node: NPL14-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 50.5500 ac  
Curve Number: 75.7  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL14-B

Scenario: 2016 FWCD Update  
Node: NPL14-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 25.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 76.6000 ac  
Curve Number: 86.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL14-C

Scenario: 2016 FWCD Update  
Node: NPL14-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 25.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 60.6600 ac  
Curve Number: 86.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL14-D

Scenario: 2016 FWCD Update  
Node: NPL14-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 79.7500 ac  
Curve Number: 78.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL14-E

Scenario: 2016 FWCD Update  
Node: NPL14-E  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 72.4500 ac  
Curve Number: 74.3  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL15-A

Scenario: 2016 FWCD Update  
Node: NPL15-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 53.3600 ac  
Curve Number: 73.3  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL15-B

Scenario: 2016 FWCD Update  
Node: NPL15-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 25.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 84.2100 ac  
Curve Number: 86.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL15-C

Scenario: 2016 FWCD Update  
Node: NPL15-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number



Time of Concentration: 25.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 92.5700 ac  
Curve Number: 86.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL15-D

Scenario: 2016 FWCD Update  
Node: NPL15-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 43.6300 ac  
Curve Number: 74.3  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL15-E

Scenario: 2016 FWCD Update  
Node: NPL15-E  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 62.0100 ac  
Curve Number: 74.4  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL16-A

Scenario: 2016 FWCD Update  
Node: NPL16-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 57.6400 ac  
Curve Number: 72.3  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL16-B

Scenario: 2016 FWCD Update  
Node: NPL16-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 25.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 68.2800 ac  
Curve Number: 86.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL16-C

Scenario: 2016 FWCD Update  
Node: NPL16-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 25.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 68.3700 ac  
Curve Number: 85.1  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL16-D

Scenario: 2016 FWCD Update  
Node: NPL16-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 91.2700 ac  
Curve Number: 82.5  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL16-E

Scenario: 2016 FWCD Update  
Node: NPL16-E  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 128.3700 ac  
Curve Number: 77.6  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL17-A

Scenario: 2016 FWCD Update  
Node: NPL17-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 51.7300 ac  
Curve Number: 71.6  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL17-B

Scenario: 2016 FWCD Update  
Node: NPL17-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 25.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 69.5500 ac  
Curve Number: 86.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL17-C

Scenario: 2016 FWCD Update  
Node: NPL17-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 25.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 89.1300 ac  
Curve Number: 86.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL17-D

Scenario: 2016 FWCD Update  
Node: NPL17-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 72.2400 ac  
Curve Number: 74.6  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL17-E

Scenario: 2016 FWCD Update  
Node: NPL17-E  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 91.9900 ac  
Curve Number: 75.5  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL18-A

Scenario: 2016 FWCD Update  
Node: NPL18-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 76.0200 ac  
Curve Number: 73.7  
% Impervious: 0.00



% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL18-B

Scenario: 2016 FWCD Update  
Node: NPL18-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 79.5600 ac  
Curve Number: 78.4  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL18-C

Scenario: 2016 FWCD Update  
Node: NPL18-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 87.4000 ac  
Curve Number: 79.3  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL18-D

Scenario: 2016 FWCD Update  
Node: NPL18-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 113.4100 ac  
Curve Number: 74.4  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL19-A

Scenario: 2016 FWCD Update  
Node: NPL19-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 63.9300 ac  
Curve Number: 72.2  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL19-B

Scenario: 2016 FWCD Update  
Node: NPL19-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 75.3400 ac  
Curve Number: 71.9  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL19-C

Scenario: 2016 FWCD Update  
Node: NPL19-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 108.7200 ac  
Curve Number: 74.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL19-D

Scenario: 2016 FWCD Update  
Node: NPL19-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 120.9700 ac  
Curve Number: 73.8  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL2-A

Scenario: 2016 FWCD Update  
Node: NPL2-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 38.6500 ac  
Curve Number: 73.1  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL2-B

Scenario: 2016 FWCD Update  
Node: NPL2-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 72.5900 ac  
Curve Number: 75.8  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL2-C

Scenario: 2016 FWCD Update  
Node: NPL2-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 71.7300 ac  
Curve Number: 76.7  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL2-D

Scenario: 2016 FWCD Update  
Node: NPL2-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 105.0400 ac  
Curve Number: 74.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL20-A

Scenario: 2016 FWCD Update  
Node: NPL20-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 85.3800 ac  
Curve Number: 72.2  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL20-B

Scenario: 2016 FWCD Update  
Node: NPL20-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 84.6600 ac  
Curve Number: 74.1  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:



## Simple Basin: BPL20-C

Scenario: 2016 FWCD Update  
Node: NPL20-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 73.4900 ac  
Curve Number: 73.5  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL20-D

Scenario: 2016 FWCD Update  
Node: NPL20-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 131.7000 ac  
Curve Number: 73.3  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL21-A

Scenario: 2016 FWCD Update  
Node: NPL21-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 82.5500 ac  
Curve Number: 72.6  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL21-B

Scenario: 2016 FWCD Update  
Node: NPL21-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 82.3600 ac  
Curve Number: 73.9  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL21-C

Scenario: 2016 FWCD Update  
Node: NPL21-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 82.5400 ac  
Curve Number: 73.6  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL21-D

Scenario: 2016 FWCD Update  
Node: NPL21-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 119.4000 ac  
Curve Number: 72.8  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL22-A

Scenario: 2016 FWCD Update  
Node: NPL22-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 82.6000 ac  
Curve Number: 72.5  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL22-B

Scenario: 2016 FWCD Update  
Node: NPL22-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 82.3600 ac  
Curve Number: 74.2  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL22-C

Scenario: 2016 FWCD Update  
Node: NPL22-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 82.5400 ac  
Curve Number: 70.2  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL22-D

Scenario: 2016 FWCD Update  
Node: NPL22-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 119.6900 ac  
Curve Number: 73.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL23-A

Scenario: 2016 FWCD Update  
Node: NPL23-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 82.8600 ac  
Curve Number: 72.6  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL23-B

Scenario: 2016 FWCD Update  
Node: NPL23-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 82.5000 ac  
Curve Number: 74.1  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL23-C

Scenario: 2016 FWCD Update  
Node: NPL23-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 82.6100 ac  
Curve Number: 73.3  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL23-D

Scenario: 2016 FWCD Update  
Node: NPL23-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number



Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 119.8900 ac  
Curve Number: 73.3  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL24-A

Scenario: 2016 FWCD Update  
Node: NPL24-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 40.5800 ac  
Curve Number: 74.6  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL24-B

Scenario: 2016 FWCD Update  
Node: NPL24-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 35.5600 ac  
Curve Number: 74.4  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL24-C

Scenario: 2016 FWCD Update  
Node: NPL24-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 40.7800 ac  
Curve Number: 74.3  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL24-D

Scenario: 2016 FWCD Update  
Node: NPL24-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 65.4000 ac  
Curve Number: 75.3  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL3-B

Scenario: 2016 FWCD Update  
Node: NPL3-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 76.6300 ac  
Curve Number: 76.4  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL3-C

Scenario: 2016 FWCD Update  
Node: NPL3-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 68.7400 ac  
Curve Number: 74.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL3-D

Scenario: 2016 FWCD Update  
Node: NPL3-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 140.5100 ac  
Curve Number: 74.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL4-B

Scenario: 2016 FWCD Update  
Node: NPL4-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 63.1000 ac  
Curve Number: 74.2  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL4-C

Scenario: 2016 FWCD Update  
Node: NPL4-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 83.4200 ac  
Curve Number: 75.7  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL4-D

Scenario: 2016 FWCD Update  
Node: NPL4-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 83.5000 ac  
Curve Number: 74.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL4-E

Scenario: 2016 FWCD Update  
Node: NPL4-E  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 83.8700 ac  
Curve Number: 74.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL5-B

Scenario: 2016 FWCD Update  
Node: NPL5-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 62.7300 ac  
Curve Number: 73.8  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL5-C

Scenario: 2016 FWCD Update  
Node: NPL5-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 83.0000 ac  
Curve Number: 75.1  
% Impervious: 0.00



% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL5-D

Scenario: 2016 FWCD Update  
Node: NPL5-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 82.7400 ac  
Curve Number: 74.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL5-E

Scenario: 2016 FWCD Update  
Node: NPL5-E  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 82.6400 ac  
Curve Number: 74.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL6-A

Scenario: 2016 FWCD Update  
Node: NPL6-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 32.3400 ac  
Curve Number: 74.3  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL6-B

Scenario: 2016 FWCD Update  
Node: NPL6-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 62.1900 ac  
Curve Number: 73.4  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL6-C

Scenario: 2016 FWCD Update  
Node: NPL6-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 83.5800 ac  
Curve Number: 74.4  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL6-D

Scenario: 2016 FWCD Update  
Node: NPL6-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 82.6900 ac  
Curve Number: 73.9  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL6-E

Scenario: 2016 FWCD Update  
Node: NPL6-E  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 81.7500 ac  
Curve Number: 74.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL7-A

Scenario: 2016 FWCD Update  
Node: NPL7-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 64.2100 ac  
Curve Number: 74.6  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL7-B

Scenario: 2016 FWCD Update  
Node: NPL7-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 62.0800 ac  
Curve Number: 74.5  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL7-C

Scenario: 2016 FWCD Update  
Node: NPL7-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 83.7500 ac  
Curve Number: 74.0  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL7-D

Scenario: 2016 FWCD Update  
Node: NPL7-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 83.3700 ac  
Curve Number: 74.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL7-E

Scenario: 2016 FWCD Update  
Node: NPL7-E  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 81.8900 ac  
Curve Number: 74.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL8-A

Scenario: 2016 FWCD Update  
Node: NPL8-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 63.6900 ac  
Curve Number: 74.6  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:



## Simple Basin: BPL8-B

Scenario: 2016 FWCD Update  
Node: NPL8-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 61.6700 ac  
Curve Number: 73.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL8-C

Scenario: 2016 FWCD Update  
Node: NPL8-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 82.3400 ac  
Curve Number: 74.8  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL8-D

Scenario: 2016 FWCD Update  
Node: NPL8-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 83.3900 ac  
Curve Number: 74.7  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL8-E

Scenario: 2016 FWCD Update  
Node: NPL8-E  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 83.1500 ac  
Curve Number: 74.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL9-A

Scenario: 2016 FWCD Update  
Node: NPL9-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 64.3300 ac  
Curve Number: 74.4  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL9-B

Scenario: 2016 FWCD Update  
Node: NPL9-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 62.0000 ac  
Curve Number: 73.8  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BPL9-C

Scenario: 2016 FWCD Update  
Node: NPL9-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 83.5200 ac  
Curve Number: 74.1  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL9-D

Scenario: 2016 FWCD Update  
Node: NPL9-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 85.2200 ac  
Curve Number: 74.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BPL9-E

Scenario: 2016 FWCD Update  
Node: NPL9-E  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 84.2200 ac  
Curve Number: 74.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BS10N

Scenario: 2016 FWCD Update  
Node: NS10N  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 82.2000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 10.5700 ac  
Curve Number: 79.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

## Simple Basin: BS13

Scenario: 2016 FWCD Update  
Node: NS13  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 71.7000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 43.0700 ac  
Curve Number: 72.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

## Simple Basin: BS15

Scenario: 2016 FWCD Update  
Node: NS15  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 139.5000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 65.3600 ac  
Curve Number: 72.0  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

Simple Basin: BS1N

Scenario: 2016 FWCD Update  
Node: NS1N  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 68.8000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 2.1000 ac  
Curve Number: 83.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

Simple Basin: BS1S

Scenario: 2016 FWCD Update  
Node: NS1S  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number



Time of Concentration: 64.7000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 1.0400 ac  
Curve Number: 83.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

Simple Basin: BS2N

Scenario: 2016 FWCD Update  
Node: NS2N  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 33.1000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 0.4300 ac  
Curve Number: 83.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

## Simple Basin: BS2S

Scenario: 2016 FWCD Update  
Node: NS2S  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 44.5000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 1.1600 ac  
Curve Number: 83.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

## Simple Basin: BS3N

Scenario: 2016 FWCD Update  
Node: NS3N  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 43.3000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 2.3200 ac  
Curve Number: 81.0  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

Simple Basin: BS3S

Scenario: 2016 FWCD Update  
Node: NS3S  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 32.2000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 0.6300 ac  
Curve Number: 83.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

Simple Basin: BS4N

Scenario: 2016 FWCD Update  
Node: NS4N  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 22.6000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 0.2700 ac  
Curve Number: 83.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

Simple Basin: BS4S

Scenario: 2016 FWCD Update  
Node: NS4S  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 30.5000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 0.6500 ac  
Curve Number: 83.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

## Simple Basin: BS5N

Scenario: 2016 FWCD Update  
Node: NS5N  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 64.6000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 2.5500 ac  
Curve Number: 83.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

## Simple Basin: BS5S

Scenario: 2016 FWCD Update  
Node: NS5S  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 31.6000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 0.7000 ac  
Curve Number: 83.0  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

Simple Basin: BS6N

Scenario: 2016 FWCD Update  
Node: NS6N  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 46.7000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 2.7800 ac  
Curve Number: 79.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

Simple Basin: BS6S

Scenario: 2016 FWCD Update  
Node: NS6S  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 31.3000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 0.7100 ac  
Curve Number: 83.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

Simple Basin: BS7S

Scenario: 2016 FWCD Update  
Node: NS7S  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 45.1000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 1.1500 ac  
Curve Number: 83.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

## Simple Basin: BS8S

Scenario: 2016 FWCD Update  
Node: NS8S  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 46.1000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 0.6600 ac  
Curve Number: 83.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

## Simple Basin: BU-10

Scenario: 2016 FWCD Update  
Node: NU-10  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 30.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 9.4500 ac  
Curve Number: 86.0  
% Impervious: 40.00  
% DCIA: 40.00  
% Direct: 0.00



Rainfall Name:

Comment: LATERAL U ROW

Simple Basin: BU-100

Scenario: 2016 FWCD Update  
Node: NU-100  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 30.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 9.1100 ac  
Curve Number: 86.0  
% Impervious: 40.00  
% DCIA: 40.00  
% Direct: 0.00  
Rainfall Name:

Comment: LATERAL U ROW

Simple Basin: BU-10A

Scenario: 2016 FWCD Update  
Node: NU-10A  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 53.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 89.6700 ac

Curve Number: 72.0  
% Impervious: 0.50  
% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: LAT U DITCH 1

Simple Basin: BU-130

Scenario: 2016 FWCD Update  
Node: NU-130  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 30.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 9.0500 ac  
Curve Number: 86.0  
% Impervious: 40.00  
% DCIA: 40.00  
% Direct: 0.00  
Rainfall Name:

Comment: LATERAL U ROW

Simple Basin: BU-160

Scenario: 2016 FWCD Update  
Node: NU-160  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 30.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 9.1000 ac  
Curve Number: 86.0  
% Impervious: 40.00  
% DCIA: 40.00  
% Direct: 0.00  
Rainfall Name:

Comment: LATERAL U ROW

Simple Basin: BU-190

Scenario: 2016 FWCD Update  
Node: NU-190  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 30.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 4.5800 ac  
Curve Number: 86.0  
% Impervious: 40.00  
% DCIA: 40.00  
% Direct: 0.00  
Rainfall Name:

Comment: LATERAL U ROW

Simple Basin: BU-20A

Scenario: 2016 FWCD Update  
Node: NU-20A  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 50.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 77.2000 ac  
Curve Number: 72.0  
% Impervious: 0.50  
% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: LAT U DITCH 3

Simple Basin: BU-20M2

Scenario: 2016 FWCD Update  
Node: NU-20M2  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 30.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 5.1400 ac  
Curve Number: 86.0  
% Impervious: 0.50  
% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: LAT U DITCH 3

## Simple Basin: BU-20M1

Scenario: 2016 FWCD Update  
Node: NU-20M1  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 30.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 10.6700 ac  
Curve Number: 86.0  
% Impervious: 0.50  
% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: LAT U DITCH 3

## Simple Basin: BU-30A

Scenario: 2016 FWCD Update  
Node: NU-30A  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 50.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 70.2400 ac  
Curve Number: 72.0  
% Impervious: 0.50  
% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: LAT U DITCH 3

Simple Basin: BU-40

Scenario: 2016 FWCD Update  
Node: NU-40  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 30.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 9.0400 ac  
Curve Number: 86.0  
% Impervious: 40.00  
% DCIA: 40.00  
% Direct: 0.00  
Rainfall Name:

Comment: LATERAL U ROW

Simple Basin: BU-40A

Scenario: 2016 FWCD Update  
Node: NU-40A  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 50.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 70.2700 ac  
Curve Number: 72.0  
% Impervious: 0.50

% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: LAT U DITCH 4

Simple Basin: BU-50A

Scenario: 2016 FWCD Update  
Node: NU-50A  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 50.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 69.4800 ac  
Curve Number: 72.0  
% Impervious: 0.50  
% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: LAT U DITCH 5

Simple Basin: BU-60A

Scenario: 2016 FWCD Update  
Node: NU-60A  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 50.0000 min  
Max Allowable Q: 999999.00 cfs

Time Shift: 0.0000 hr  
Area: 69.5100 ac  
Curve Number: 72.0  
% Impervious: 0.50  
% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: LAT U DITCH 6

Simple Basin: BU-70

Scenario: 2016 FWCD Update  
Node: NU-70  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 30.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 9.0900 ac  
Curve Number: 86.0  
% Impervious: 40.00  
% DCIA: 40.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment: LATERAL U ROW

Simple Basin: BU-70A

Scenario: 2016 FWCD Update  
Node: NU-70A



Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 50.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 69.5300 ac  
Curve Number: 72.0  
% Impervious: 0.50  
% DCIA: 0.50  
% Direct: 0.00  
Rainfall Name:

Comment: LAT U DITCH 7

Simple Basin: BU-80A

Scenario: 2016 FWCD Update  
Node: NU-80A  
Hydrograph Method: Santa Barbara Urban Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 180.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Area: 79.4200 ac  
Curve Number: 79.0  
% Impervious: 2.00  
% DCIA: 2.00  
% Direct: 0.00  
Rainfall Name:

Comment: LAT U DITCH 8

## Simple Basin: BU-FJV-BWPOND1

Scenario: 2016 FWCD Update  
Node: NU-FJV-BWPOND1  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 28.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh484  
Peaking Factor: 484.0  
Area: 6.1600 ac  
Curve Number: 88.6  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

## Simple Basin: BU-FJV-BWPOND2

Scenario: 2016 FWCD Update  
Node: NU-FJV-BWPOND2  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 28.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh484  
Peaking Factor: 484.0  
Area: 4.4400 ac  
Curve Number: 88.6  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

Simple Basin: BU-FJV-BWSWALE

Scenario: 2016 FWCD Update  
Node: NU-FJV-BWSWALE  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 2.4000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh484  
Peaking Factor: 484.0  
Area: 0.2900 ac  
Curve Number: 90.7  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

Simple Basin: BU-FJV-FOADRYA

Scenario: 2016 FWCD Update  
Node: NU-FJV-FOADRYA  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 16.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh484  
Peaking Factor: 484.0  
Area: 18.8300 ac  
Curve Number: 82.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

Simple Basin: BU-FJV-FOADRYB

Scenario: 2016 FWCD Update  
Node: NU-FJV-FOADRYB  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 13.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh484  
Peaking Factor: 484.0  
Area: 73.2500 ac  
Curve Number: 86.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

## Simple Basin: BU-FJV-FOAWETA

Scenario: 2016 FWCD Update  
Node: NU-FJV-FOAWETA  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 16.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh484  
Peaking Factor: 484.0  
Area: 2.4750 ac  
Curve Number: 98.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

## Simple Basin: BU-FJV-FOAWETB

Scenario: 2016 FWCD Update  
Node: NU-FJV-FOAWETB  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 5.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh484  
Peaking Factor: 484.0  
Area: 4.8200 ac  
Curve Number: 98.0  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

Simple Basin: BU-FJVN

Scenario: 2016 FWCD Update  
Node: NU-FJVN  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 10.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 820.0000 ac  
Curve Number: 72.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

Simple Basin: BU-FJVS

Scenario: 2016 FWCD Update  
Node: NU-FJVS  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 10.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 1170.0000 ac  
Curve Number: 72.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

Simple Basin: BU10-A

Scenario: 2016 FWCD Update  
Node: NU10-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 64.8500 ac  
Curve Number: 74.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BU10-B

Scenario: 2016 FWCD Update  
Node: NU10-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 66.8600 ac  
Curve Number: 74.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BU10-C

Scenario: 2016 FWCD Update  
Node: NU10-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 66.8600 ac  
Curve Number: 74.0  
% Impervious: 0.00



% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BU10-D

Scenario: 2016 FWCD Update  
Node: NU10-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 66.7600 ac  
Curve Number: 74.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BU11-A

Scenario: 2016 FWCD Update  
Node: NU11-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 63.8700 ac  
Curve Number: 74.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BU11-B

Scenario: 2016 FWCD Update  
Node: NU11-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 65.9100 ac  
Curve Number: 74.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BU11-C

Scenario: 2016 FWCD Update  
Node: NU11-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 65.9000 ac  
Curve Number: 73.4  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BU11-D

Scenario: 2016 FWCD Update  
Node: NU11-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 65.8000 ac  
Curve Number: 73.5  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BU12-A

Scenario: 2016 FWCD Update  
Node: NU12-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 66.2700 ac  
Curve Number: 73.7  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BU12-B

Scenario: 2016 FWCD Update  
Node: NU12-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 68.2200 ac  
Curve Number: 74.3  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BU12-C

Scenario: 2016 FWCD Update  
Node: NU12-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 67.9800 ac  
Curve Number: 74.3  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BU12-D

Scenario: 2016 FWCD Update  
Node: NU12-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH323  
Peaking Factor: 323.0  
Area: 67.6300 ac  
Curve Number: 73.7  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BU13-A

Scenario: 2016 FWCD Update  
Node: NU13-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 64.6000 ac  
Curve Number: 74.0  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BU13-B

Scenario: 2016 FWCD Update  
Node: NU13-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 66.8900 ac  
Curve Number: 73.4  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BU13-C

Scenario: 2016 FWCD Update  
Node: NU13-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 67.0000 ac  
Curve Number: 72.7  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BU13-D

Scenario: 2016 FWCD Update  
Node: NU13-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 66.9900 ac  
Curve Number: 72.7  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:



## Simple Basin: BU14-A

Scenario: 2016 FWCD Update  
Node: NU14-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 63.7100 ac  
Curve Number: 74.5  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BU14-B

Scenario: 2016 FWCD Update  
Node: NU14-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 65.9100 ac  
Curve Number: 73.7  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BU14-C

Scenario: 2016 FWCD Update  
Node: NU14-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 65.9100 ac  
Curve Number: 74.5  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BU14-D

Scenario: 2016 FWCD Update  
Node: NU14-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh323  
Peaking Factor: 323.0  
Area: 65.7700 ac  
Curve Number: 74.2  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BU15-A

Scenario: 2016 FWCD Update  
Node: NU15-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 64.9500 ac  
Curve Number: 73.8  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BU15-B

Scenario: 2016 FWCD Update  
Node: NU15-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 67.3400 ac  
Curve Number: 69.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BU15-C

Scenario: 2016 FWCD Update  
Node: NU15-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 67.4200 ac  
Curve Number: 74.2  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BU15-D

Scenario: 2016 FWCD Update  
Node: NU15-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 67.3600 ac  
Curve Number: 68.7  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BU16-A

Scenario: 2016 FWCD Update  
Node: NU16-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 64.2700 ac  
Curve Number: 73.9  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BU16-B

Scenario: 2016 FWCD Update  
Node: NU16-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 66.6100 ac  
Curve Number: 74.1  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BU16-C

Scenario: 2016 FWCD Update  
Node: NU16-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 66.6000 ac  
Curve Number: 73.9  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BU16-D

Scenario: 2016 FWCD Update  
Node: NU16-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 66.4300 ac  
Curve Number: 71.7  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BU17-A

Scenario: 2016 FWCD Update  
Node: NU17-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 65.3800 ac  
Curve Number: 73.4  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BU17-B

Scenario: 2016 FWCD Update  
Node: NU17-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number



Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 67.8100 ac  
Curve Number: 74.1  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BU17-C

Scenario: 2016 FWCD Update  
Node: NU17-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 67.8100 ac  
Curve Number: 74.4  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BU17-D

Scenario: 2016 FWCD Update  
Node: NU17-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 67.6300 ac  
Curve Number: 72.3  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BU18-A

Scenario: 2016 FWCD Update  
Node: NU18-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 64.1500 ac  
Curve Number: 73.7  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BU18-B

Scenario: 2016 FWCD Update  
Node: NU18-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 66.5700 ac  
Curve Number: 74.3  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BU18-C

Scenario: 2016 FWCD Update  
Node: NU18-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 66.5500 ac  
Curve Number: 74.2  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BU18-D

Scenario: 2016 FWCD Update  
Node: NU18-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 66.3500 ac  
Curve Number: 73.4  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BU19-A

Scenario: 2016 FWCD Update  
Node: NU19-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 64.0300 ac  
Curve Number: 74.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BU19-B

Scenario: 2016 FWCD Update  
Node: NU19-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 66.6400 ac  
Curve Number: 74.0  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BU19-C

Scenario: 2016 FWCD Update  
Node: NU19-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 66.7300 ac  
Curve Number: 74.5  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BU19-D

Scenario: 2016 FWCD Update  
Node: NU19-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 66.6500 ac  
Curve Number: 74.2  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BU20-A

Scenario: 2016 FWCD Update  
Node: NU20-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 33.6500 ac  
Curve Number: 74.3  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BU20-B

Scenario: 2016 FWCD Update  
Node: NU20-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 35.6600 ac  
Curve Number: 74.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BU20-C

Scenario: 2016 FWCD Update  
Node: NU20-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 35.9900 ac  
Curve Number: 74.0  
% Impervious: 0.00



% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BU20-D

Scenario: 2016 FWCD Update  
Node: NU20-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 34.4200 ac  
Curve Number: 72.9  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BU9-A

Scenario: 2016 FWCD Update  
Node: NU09-A  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number

Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 64.8800 ac  
Curve Number: 74.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BU9-B

Scenario: 2016 FWCD Update  
Node: NU09-B  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 66.8300 ac  
Curve Number: 73.4  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BU9-C

Scenario: 2016 FWCD Update  
Node: NU09-C  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 65.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 66.8300 ac  
Curve Number: 73.4  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

## Simple Basin: BU9-D

Scenario: 2016 FWCD Update  
Node: NU09-D  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 60.0000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: Uh256  
Peaking Factor: 256.0  
Area: 66.7400 ac  
Curve Number: 73.3  
% Impervious: 0.00

% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name: Scsii-24

Comment:

Simple Basin: BWETLND

Scenario: 2016 FWCD Update  
Node: NWETLND  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 98.2000 min  
Max Allowable Q: 999999.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0  
Area: 3.4300 ac  
Curve Number: 70.0  
% Impervious: 0.00  
% DCIA: 0.00  
% Direct: 0.00  
Rainfall Name:

Comment:

Node: NB1

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.88 ft

Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
23.00	0.0020	87
23.50	0.0140	610
24.00	0.3050	13286
24.50	1.0160	44257
25.00	1.3850	60331
25.50	1.5780	68738
26.00	1.5940	69435
26.50	1.6650	72527

Comment: (converted from manhole to stage/area node)

CB#23

Node: NB2

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.78 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
23.00	0.0340	1481
23.50	0.3920	17076
24.00	0.7470	32539
24.50	1.1240	48961
25.00	1.2510	54494
25.50	1.3360	58196

Comment: (converted from manhole to stage/area node)

CB#25

Node: NB3

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.88 ft  
 Warning Stage: 26.08 ft

Stage [ft]	Area [ac]	Area [ft2]
23.50	0.0460	2004
24.00	0.3160	13765
24.50	0.8240	35893
25.00	0.9530	41513
25.50	1.0150	44213

Comment: (converted from manhole to stage/area node)  
 CB#26

Node: NB4

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.88 ft  
 Warning Stage: 26.08 ft

Stage [ft]	Area [ac]	Area [ft2]
23.50	0.0390	1699

Stage [ft]	Area [ac]	Area [ft2]
24.00	0.4320	18818
24.50	0.8350	36373
25.00	1.0680	46522
25.50	1.2940	56367
26.00	1.4270	62160
26.50	1.5600	67954

Comment: (converted from manhole to stage/area node)

CB#28

Node: NB5

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.88 ft  
 Warning Stage: 26.58 ft

Stage [ft]	Area [ac]	Area [ft2]
24.00	0.3310	14418
24.50	1.2350	53797
25.00	1.7140	74662
25.50	1.8740	81631
26.00	2.2940	99927
26.50	2.3680	103150

Comment: (converted from manhole to stage/area node)

CB#29

Node: NBG

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.88 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
23.00	0.0160	697
23.50	0.1190	5184
24.00	0.5560	24219
24.50	0.8050	35066
25.00	0.9450	41164
25.50	0.9480	41295
26.00	0.9480	41295

Comment: (converted from manhole to stage/area node)

CB#32

Node: NBOUT

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.08 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
22.00	0.0040	174
22.50	0.0170	741
23.00	0.0440	1917
23.50	0.1640	7144



Stage [ft]	Area [ac]	Area [ft2]
24.00	0.6110	26615
24.50	0.9730	42384
25.00	0.9900	43124

Comment: (converted from manhole to stage/area node)

CB#31

Node: NF-10

Scenario: 2016 FWCD Update  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 0.58 ft  
 Warning Stage: 17.58 ft  
 Boundary Stage: NF-10

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	100.00
0	0	0	100.0000	100.00

Comment:

Node: NF-20

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 1.58 ft  
 Warning Stage: 17.58 ft

Stage [ft]	Area [ac]	Area [ft2]
2.00	0.0001	4
15.00	0.0001	5

Comment:

Node: NF-25

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 2.83 ft  
 Warning Stage: 18.58 ft

Comment:

Node: NF-30

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 3.33 ft  
 Warning Stage: 27.58 ft

Comment:

Node: NF-40

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 4.08 ft  
Warning Stage: 29.58 ft

Comment:

Node: NF-50

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 5.08 ft  
Warning Stage: 31.58 ft

Comment:

Node: NF-60

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 5.58 ft  
Warning Stage: 31.58 ft

Comment:

Node: NF-70

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 5.83 ft  
Warning Stage: 31.58 ft

Comment:

Node: NF-80

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 8.58 ft  
Warning Stage: 31.58 ft

Comment:

Node: NF-85

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 10.58 ft  
Warning Stage: 29.58 ft

Comment:

Node: NF-90

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 11.08 ft  
 Warning Stage: 27.58 ft

Comment:

Node: NFJVDITCH

Scenario: 2016 FWCD Update  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 14.50 ft  
 Warning Stage: 14.50 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	14.50
0	0	0	1000.0000	14.50

Comment:

Node: NI-05

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 10.58 ft  
 Warning Stage: 26.58 ft

Comment:

Node: NI-10

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 12.58 ft  
 Warning Stage: 26.58 ft

Comment:

Node: NI-10W

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 15.58 ft  
 Warning Stage: 23.58 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0000	0
19.50	0.4960	21606
20.00	4.8200	209959
20.50	16.2230	706674
21.00	32.6360	1421624
21.50	55.7210	2427207
22.00	79.8170	3476829
22.50	86.8530	3783317

Stage [ft]	Area [ac]	Area [ft2]
23.00	88.2140	3842602
23.50	88.7110	3864251
24.00	88.9730	3875664
24.50	89.6130	3903542
25.00	89.9000	3916044
25.50	89.9430	3917917
26.00	89.9720	3919180

Comment:

Node: NI-20

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 12.58 ft  
 Warning Stage: 26.58 ft

Comment:

Node: NI-20A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 16.58 ft  
 Warning Stage: 23.58 ft

Stage [ft]	Area [ac]	Area [ft2]
18.00	0.0000	0

Stage [ft]	Area [ac]	Area [ft2]
18.50	1.2300	53579
19.00	6.5610	285797
19.50	12.2380	533087
20.00	17.6180	767440
20.50	21.7650	948083
21.00	29.3610	1278965
21.50	35.3320	1539062
22.00	42.5180	1852084
22.50	47.2880	2059865
23.00	48.1910	2099200
23.50	49.0620	2137141
24.00	49.4500	2154042
24.50	49.8060	2169549
25.00	50.0270	2179176
25.50	50.0430	2179873

Comment:

Node: NI-20W

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 15.58 ft  
 Warning Stage: 23.58 ft

Stage [ft]	Area [ac]	Area [ft2]
18.50	0.0000	0
19.00	1.5310	66690
19.50	5.2130	227078
20.00	12.2470	533479
20.50	23.9960	1045266



Stage [ft]	Area [ac]	Area [ft2]
21.00	43.2530	1884101
21.50	57.1930	2491327
22.00	59.4980	2591733
22.50	60.5060	2635641
23.00	61.2080	2666220
23.50	61.3090	2670620

Comment:

Node: NI-21

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 13.58 ft  
 Warning Stage: 26.58 ft

Comment:

Node: NI-22

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 13.58 ft  
 Warning Stage: 26.58 ft

Comment:

Node: NI-24

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 13.58 ft  
 Warning Stage: 26.58 ft

Comment:

Node: NI-25

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 13.58 ft  
 Warning Stage: 26.58 ft

Comment:

Node: NI-25A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 15.58 ft  
 Warning Stage: 23.58 ft

Stage [ft]	Area [ac]	Area [ft2]
17.00	0.0000	0
17.50	0.3950	17206

Stage [ft]	Area [ac]	Area [ft2]
18.00	1.6150	70349
18.50	5.3540	233220
19.00	11.6560	507735
19.50	20.4870	892414
20.00	32.5730	1418880
20.50	41.8930	1824859
21.00	50.1950	2186494
21.50	60.8300	2649755
22.00	66.1920	2883324
22.50	67.0460	2920524
23.00	67.2080	2927580
23.50	67.2140	2927842

Comment:

Node: NI-25B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 15.58 ft  
 Warning Stage: 25.58 ft

Comment:

Node: NI-25C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs

Initial Stage: 16.58 ft  
 Warning Stage: 23.58 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0000	0
19.50	0.4610	20081
20.00	2.6050	113474
20.50	6.7800	295337
21.00	12.4180	540928
21.50	19.5010	849464
22.00	30.1350	1312681
22.50	40.5170	1764921
23.00	47.8410	2083954
23.50	49.9380	2175299
24.00	51.1280	2227136
24.50	52.0950	2269258
25.00	52.3600	2280802

Comment:

Node: NI-30

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 13.58 ft  
 Warning Stage: 26.58 ft

Comment:

Node: NI-30W

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 14.58 ft  
 Warning Stage: 23.58 ft

Stage [ft]	Area [ac]	Area [ft2]
18.00	0.0000	0
18.50	2.3090	100580
19.00	8.0630	351224
19.50	18.4480	803595
20.00	35.0860	1528346
20.50	52.9590	2306894
21.00	65.1710	2838849
21.50	69.0120	3006163
22.00	69.5120	3027943
22.50	69.6930	3035827
23.00	69.7390	3037831

Comment:

Node: NI-40

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 13.58 ft  
 Warning Stage: 26.58 ft

Comment:

Node: NI-40A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 14.58 ft  
 Warning Stage: 22.58 ft

Stage [ft]	Area [ac]	Area [ft2]
15.50	0.0000	0
16.00	0.0020	87
16.50	0.1840	8015
17.00	0.3420	14898
17.50	0.5200	22651
18.00	1.2400	54014
18.50	3.1060	135297
19.00	6.2790	273513
19.50	12.6700	551905
20.00	19.0730	830820
20.50	25.7540	1121844
21.00	32.4950	1415482
21.50	38.5630	1679804
22.00	42.6900	1859576
22.50	43.5340	1896341
23.00	43.7740	1906795
23.50	43.8570	1910411
24.00	43.9320	1913678
24.50	44.0150	1917293
25.00	44.3720	1932844

Comment:

Node: NI-40B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 14.58 ft  
 Warning Stage: 24.58 ft

Comment:

Node: NI-40C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 16.58 ft  
 Warning Stage: 23.58 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	0.0000	0
18.50	0.0000	0
19.00	0.1120	4879
19.50	0.5850	25483
20.00	1.4400	62726
20.50	5.4560	237663
21.00	13.2390	576691
21.50	26.5370	1155952
22.00	49.5980	2160489
22.50	66.1890	2883193
23.00	73.2210	3189507
23.50	76.2660	3322147
24.00	78.2230	3407394
24.50	79.6330	3468813
25.00	80.2090	3493904

Stage [ft]	Area [ac]	Area [ft2]
25.50	80.5740	3509803
26.00	80.9990	3528316

Comment:

Node: NI-40M

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 17.58 ft  
 Warning Stage: 22.58 ft

Stage [ft]	Area [ac]	Area [ft2]
17.50	0.0000	0
18.00	0.0070	305
18.50	1.9900	86684
19.00	4.7130	205298
19.50	8.2930	361243
20.00	10.5770	460734
20.50	11.3360	493796
21.00	11.9990	522676
21.50	12.5020	544587
22.00	12.8160	558265
22.50	12.9800	565409
23.00	13.1220	571594
23.50	13.3240	580393

Comment:



Node: NI-40W

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 14.58 ft  
 Warning Stage: 22.58 ft

Stage [ft]	Area [ac]	Area [ft2]
17.00	0.0000	0
17.50	0.2650	11543
18.00	1.2340	53753
18.50	4.8110	209567
19.00	9.6380	419831
19.50	18.4810	805032
20.00	42.9300	1870031
20.50	56.3060	2452689
21.00	66.9040	2914338
21.50	69.0030	3005771
22.00	69.2240	3015397
22.50	69.4380	3024719
23.00	69.5000	3027420
23.50	69.5430	3029293
24.00	69.5970	3031645
24.50	69.6240	3032821
25.00	69.7320	3037526

Comment:

Node: NI-49

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs

Initial Stage: 13.58 ft  
 Warning Stage: 26.58 ft

Comment:

Node: NI-50

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 13.58 ft  
 Warning Stage: 26.58 ft

Comment:

Node: NI-50A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 14.58 ft  
 Warning Stage: 22.58 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	0.0000	0
17.00	0.0080	348
17.50	0.3140	13678
18.00	0.9830	42819
18.50	2.6430	115129
19.00	6.4910	282748

Stage [ft]	Area [ac]	Area [ft2]
19.50	14.7130	640898
20.00	25.8000	1123848
20.50	38.6800	1684901
21.00	52.3700	2281237
21.50	64.3190	2801736
22.00	66.3170	2888769
22.50	66.9050	2914382
23.00	66.9820	2917736

Comment:

Node: NI-50B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 14.58 ft  
 Warning Stage: 24.58 ft

Comment:

Node: NI-50C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 16.58 ft  
 Warning Stage: 23.58 ft

Stage [ft]	Area [ac]	Area [ft2]
17.00	0.0000	0
17.50	0.0020	87
18.00	0.3260	14201
18.50	0.4500	19602
19.00	0.5560	24219
19.50	1.0360	45128
20.00	2.5950	113038
20.50	6.1040	265890
21.00	13.2810	578520
21.50	25.6980	1119405
22.00	36.3180	1582012
22.50	45.5130	1982546
23.00	48.1320	2096630
23.50	49.8630	2172032
24.00	50.6250	2205225
24.50	51.6150	2248349
25.00	52.1910	2273440
25.50	52.6040	2291430
26.00	52.7430	2297485
26.50	53.0510	2310902

Comment:

Node: NI-50W

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 14.58 ft  
 Warning Stage: 22.58 ft

Stage [ft]	Area [ac]	Area [ft2]
17.50	0.0000	0
18.00	0.3240	14113
18.50	3.1380	136691
19.00	8.0190	349308
19.50	19.5030	849551
20.00	35.6230	1551738
20.50	57.0480	2485011
21.00	65.8290	2867511
21.50	67.9630	2960468
22.00	68.3770	2978502
22.50	68.5440	2985777
23.00	68.6190	2989044
23.50	68.8240	2997973

Comment:

Node: NI-60

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 13.58 ft  
 Warning Stage: 26.58 ft

Comment:

Node: NI-60A

Scenario: 2016 FWCD Update  
 Type: Stage/Area

Base Flow: 0.00 cfs  
 Initial Stage: 14.58 ft  
 Warning Stage: 22.58 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	0.0000	0
17.00	0.0620	2701
17.50	0.6420	27966
18.00	2.1100	91912
18.50	4.7950	208870
19.00	11.5710	504033
19.50	20.9500	912582
20.00	33.7190	1468800
20.50	49.7940	2169027
21.00	63.2330	2754429
21.50	66.3460	2890032
22.00	66.7930	2909503
22.50	66.9190	2914992
23.00	67.1520	2925141

Comment:

Node: NI-60B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 14.58 ft  
 Warning Stage: 24.58 ft

Comment:

Node: NI-60C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 16.58 ft  
 Warning Stage: 23.58 ft

Stage [ft]	Area [ac]	Area [ft2]
17.00	0.0000	0
17.50	0.0100	436
18.00	0.1860	8102
18.50	0.3120	13591
19.00	0.5340	23261
19.50	1.4520	63249
20.00	4.6220	201334
20.50	11.0330	480597
21.00	21.8960	953790
21.50	37.9380	1652579
22.00	48.2820	2103164
22.50	50.1150	2183009
23.00	50.7050	2208710
23.50	51.0400	2223302
24.00	52.0100	2265556
24.50	52.8840	2303627
25.00	53.1450	2314996
25.50	53.2140	2318002

Comment:

Node: NI-60W

Scenario: 2016 FWCD Update  
 Type: Stage/Area

Base Flow: 0.00 cfs  
 Initial Stage: 13.58 ft  
 Warning Stage: 21.58 ft

Stage [ft]	Area [ac]	Area [ft2]
16.00	0.0000	0
16.50	0.2040	8886
17.00	0.7140	31102
17.50	3.9080	170232
18.00	10.3660	451543
18.50	19.6120	854299
19.00	31.3590	1365998
19.50	46.6650	2032727
20.00	61.0780	2660558
20.50	68.2610	2973449
21.00	68.6740	2991439
21.50	68.7240	2993617

Comment:

Node: NI-70

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 13.58 ft  
 Warning Stage: 26.58 ft

Comment:



Node: NI-70A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 14.58 ft  
 Warning Stage: 22.58 ft

Stage [ft]	Area [ac]	Area [ft2]
17.00	0.0000	0
17.50	0.4800	20909
18.00	1.4650	63815
18.50	4.9440	215361
19.00	10.3830	452283
19.50	16.2180	706456
20.00	27.1500	1182654
20.50	39.2750	1710819
21.00	42.5050	1851518
21.50	43.9140	1912894
22.00	44.0060	1916901
22.50	44.0930	1920691
23.00	44.5040	1938594

Comment:

Node: NI-70B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 14.58 ft  
 Warning Stage: 24.58 ft

Comment:

Node: NI-70C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 15.58 ft  
 Warning Stage: 23.58 ft

Stage [ft]	Area [ac]	Area [ft2]
16.00	0.0000	0
16.50	0.0350	1525
17.00	0.2570	11195
17.50	0.3990	17380
18.00	0.5590	24350
18.50	0.9420	41034
19.00	1.2210	53187
19.50	2.1480	93567
20.00	6.0620	264061
20.50	9.6070	418481
21.00	14.9990	653356
21.50	21.7740	948475
22.00	25.6580	1117662
22.50	26.2200	1142143
23.00	26.5610	1156997
23.50	26.7150	1163705
24.00	27.0200	1176991
24.50	27.0580	1178646

Comment:

Node: NI-70W

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 13.58 ft  
 Warning Stage: 22.58 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	0.0000	0
17.00	0.2330	10149
17.50	1.9530	85073
18.00	5.8970	256873
18.50	12.4710	543237
19.00	22.0560	960759
19.50	38.5440	1678977
20.00	53.4730	2329284
20.50	61.5170	2679681
21.00	66.3490	2890162
21.50	68.3880	2978981
22.00	68.6250	2989305

Comment:

Node: NI-75A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 13.58 ft  
 Warning Stage: 21.58 ft

Stage [ft]	Area [ac]	Area [ft2]
11.50	0.0000	0

Stage [ft]	Area [ac]	Area [ft2]
12.00	0.0070	305
12.50	0.0180	784
13.00	0.1080	4704
13.50	0.2640	11500
14.00	0.4290	18687
14.50	0.8200	35719
15.00	1.2220	53230
15.50	1.5730	68520
16.00	1.9700	85813
16.50	2.2980	100101
17.00	3.0080	131028
17.50	5.9460	259008
18.00	14.1360	615764
18.50	24.0590	1048010
19.00	36.1120	1573039
19.50	51.1840	2229575
20.00	66.9950	2918302
20.50	75.8620	3304549
21.00	77.7590	3387182
21.50	77.8790	3392409
22.00	77.9120	3393847

Comment:

Node: NI-75M

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 16.58 ft  
 Warning Stage: 21.58 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	0.7330	31929
17.00	2.4840	108203
17.50	3.4230	149106
18.00	4.2670	185871
18.50	5.3980	235137
19.00	6.5660	286015
19.50	7.6050	331274
20.00	8.0300	349787
20.50	8.3820	365120
21.00	8.4000	365904

Comment:

Node: NI-80

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 13.58 ft  
 Warning Stage: 26.58 ft

Comment:

Node: NL1

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.28 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
22.00	0.0100	436
22.50	0.0520	2265
23.00	0.4540	19776
23.50	2.2860	99578
24.00	3.3800	147233
24.50	3.3810	147276

Comment: (converted from manhole to stage/area node)

CB#12

Node: NL2

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.88 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
22.00	0.0120	523
22.50	0.0500	2178
23.00	0.8100	35284
23.50	3.1350	136561
24.00	3.8990	169840
24.50	3.9400	171626
25.00	3.9820	173456
25.50	3.9830	173499

Comment: (converted from manhole to stage/area node)

CB#13

Node: NL3

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.18 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
22.50	0.0330	1437
23.00	0.2100	9148
23.50	1.0250	44649
24.00	1.6790	73137
24.50	1.8610	81065
25.00	2.1460	93480
25.50	2.1820	95048
26.00	2.2910	99796

Comment: (converted from manhole to stage/area node)

Node: NL4

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.18 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
22.50	0.0140	610
23.00	0.0460	2004
23.50	0.4120	17947
24.00	1.1870	51706
24.50	1.2460	54276
25.00	1.3050	56846
25.50	1.3730	59808
26.00	1.5770	68694

Comment:

Node: NLAKE

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.83 ft  
 Warning Stage: 22.33 ft

Stage [ft]	Area [ac]	Area [ft2]
14.50	3.5300	153767
19.75	4.3800	190793
21.25	4.6400	202118
24.50	5.2200	227383

Comment:

Node: NLDIV

Scenario: 2016 FWCD Update  
 Type: Stage/Area



Base Flow: 0.00 cfs  
 Initial Stage: 20.18 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
19.30	0.0001	4
24.00	0.0001	5
25.50	0.0100	436

Comment:

Node: NLDIVOVR

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.18 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
19.30	0.0001	4
24.00	0.0001	5
25.50	0.0100	436

Comment:

Node: NLOUT

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.88 ft

Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
21.30	0.0001	4
23.90	0.0001	5
26.00	0.0100	436

Comment: (converted from manhole to stage/area node)

CB#20

Node: NP-10

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 8.83 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NP-100

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 11.08 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NP-100S

Scenario: 2016 FWCD Update  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 26.58 ft  
 Warning Stage: 26.58 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	28.00
0	0	0	120.0000	28.00

Comment:

Node: NP-10S

Scenario: 2016 FWCD Update  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 26.58 ft  
 Warning Stage: 26.58 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	28.00
0	0	0	120.0000	28.00

Comment:

Node: NP-10W

Scenario: 2016 FWCD Update

Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 14.08 ft  
 Warning Stage: 23.58 ft

Stage [ft]	Area [ac]	Area [ft2]
17.00	0.0000	0
17.50	0.1610	7013
18.00	3.0340	132161
18.50	7.3300	319295
19.00	16.6800	726581
19.50	25.0130	1089566
20.00	37.2610	1623089
20.50	49.6300	2161883
21.00	66.0640	2877748
21.50	90.4400	3939566
22.00	105.9400	4614746
22.50	110.0200	4792471
23.00	111.5820	4860512
23.50	112.7730	4912392
24.00	113.4730	4942884
24.50	114.0270	4967016
25.00	114.4240	4984309
25.50	114.5040	4987794
26.00	114.5750	4990887
26.50	114.6320	4993370
27.00	114.6860	4995722
27.50	114.7360	4997900
28.00	114.7980	5000601
28.50	114.8350	5002213
29.00	114.8690	5003694
29.50	114.9020	5005131
30.00	114.9360	5006612
30.50	114.9690	5008050
31.00	115.0050	5009618

Stage [ft]	Area [ac]	Area [ft2]
31.50	115.0410	5011186
32.00	115.0860	5013146
32.50	115.1210	5014671
33.00	115.1560	5016195
33.50	115.1950	5017894
34.00	115.2330	5019549
34.50	115.2830	5021727
35.00	115.3380	5024123
35.50	115.4280	5028044
36.00	115.4680	5029786
36.50	115.5280	5032400
37.00	115.5770	5034534
37.50	115.6290	5036799
38.00	115.7170	5040633
38.50	115.7220	5040850
39.00	115.7270	5041068
39.50	115.7330	5041329
40.00	115.7370	5041504
40.50	115.7410	5041678
41.00	115.7450	5041852
41.50	115.7690	5042898

Comment:

Node: NP-110

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 11.33 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NP-120

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 11.58 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NP-120S

Scenario: 2016 FWCD Update  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 26.58 ft  
 Warning Stage: 26.58 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	28.00
0	0	0	120.0000	28.00

Comment:

Node: NP-130

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 11.83 ft  
Warning Stage: 31.58 ft

Comment:

Node: NP-135

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 11.96 ft  
Warning Stage: 31.58 ft

Comment:

Node: NP-140

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 12.08 ft  
Warning Stage: 31.58 ft

Comment:

Node: NP-140S

Scenario: 2016 FWCD Update  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 26.58 ft  
 Warning Stage: 26.58 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	28.00
0	0	0	120.0000	28.00

Comment:

Node: NP-150

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 12.33 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NP-160

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 12.58 ft  
 Warning Stage: 31.58 ft



Comment:

Node: NP-170

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 12.88 ft  
Warning Stage: 31.58 ft

Comment:

Node: NP-180

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 13.08 ft  
Warning Stage: 31.58 ft

Comment:

Node: NP-180S

Scenario: 2016 FWCD Update  
Type: Time/Stage

Base Flow: 0.00 cfs  
 Initial Stage: 26.58 ft  
 Warning Stage: 26.58 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	28.00
0	0	0	120.0000	28.00

Comment:

Node: NP-190

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 13.33 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NP-20

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 9.08 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NP-200

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 13.58 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NP-210

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 13.83 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NP-210S

Scenario: 2016 FWCD Update  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 26.58 ft  
 Warning Stage: 26.58 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	28.00

Year	Month	Day	Hour	Stage [ft]
0	0	0	120.0000	28.00

Comment:

Node: NP-220

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 14.08 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NP-230

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 14.33 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NP-240

Scenario: 2016 FWCD Update

Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 14.58 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NP-240S

Scenario: 2016 FWCD Update  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 26.58 ft  
 Warning Stage: 26.58 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	28.00
0	0	0	120.0000	28.00

Comment:

Node: NP-25

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 9.21 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NP-250A

Scenario: 2016 FWCD Update  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 26.58 ft  
 Warning Stage: 26.58 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	28.00
0	0	0	120.0000	28.00

Comment:

Node: NP-25A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 18.58 ft  
 Warning Stage: 25.58 ft

Stage [ft]	Area [ac]	Area [ft2]
20.00	0.0000	0
20.50	0.2260	9845
21.00	0.8760	38159
21.50	2.4050	104762
22.00	6.2080	270420
22.50	10.7360	467660

Stage [ft]	Area [ac]	Area [ft2]
23.00	22.7760	992123
23.50	38.6140	1682026
24.00	46.6490	2032030
24.50	49.2040	2143326
25.00	49.7040	2165106
25.50	50.0110	2178479
26.00	50.6300	2205443
26.50	50.6930	2208187
27.00	50.7320	2209886
27.50	50.7520	2210757
28.00	50.7990	2212804
28.50	50.8140	2213458

Comment:

Node: NP-30

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 9.33 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NP-30S

Scenario: 2016 FWCD Update  
 Type: Time/Stage  
 Base Flow: 0.00 cfs

Initial Stage: 26.58 ft  
 Warning Stage: 26.58 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	28.00
0	0	0	120.0000	28.00

Comment:

Node: NP-30W

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 15.08 ft  
 Warning Stage: 23.58 ft

Comment:

Node: NP-30W2

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 15.08 ft  
 Warning Stage: 23.58 ft

Stage [ft]	Area [ac]	Area [ft2]
15.50	0.0000	0
16.00	0.3320	14462



Stage [ft]	Area [ac]	Area [ft2]
16.50	0.5290	23043
17.00	0.7870	34282
17.50	1.2890	56149
18.00	2.8140	122578
18.50	6.2370	271684
19.00	12.1230	528078
19.50	18.9150	823937
20.00	25.4660	1109299
20.50	29.9730	1305624
21.00	33.3120	1451071
21.50	36.6120	1594819
22.00	38.7990	1690084
22.50	40.3320	1756862
23.00	41.3790	1802469
23.50	42.3950	1846726
24.00	42.7970	1864237
24.50	42.9630	1871468
25.00	43.2100	1882228
25.50	43.2730	1884972

Comment:

Node: NP-35

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 9.46 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NP-35A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 18.58 ft  
 Warning Stage: 25.58 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0000	0
19.50	0.4840	21083
20.00	0.9250	40293
20.50	1.4550	63380
21.00	2.4250	105633
21.50	5.2080	226860
22.00	11.0280	480380
22.50	19.6150	854429
23.00	33.1810	1445364
23.50	49.5060	2156481
24.00	58.2930	2539243
24.50	59.5490	2593954
25.00	59.9580	2611770
25.50	60.1810	2621484
26.00	60.2970	2626537
26.50	60.3930	2630719
27.00	60.4380	2632679
27.50	60.4680	2633986

Comment:

Node: NP-40

Scenario: 2016 FWCD Update  
 Type: Stage/Area

Base Flow: 0.00 cfs  
 Initial Stage: 9.58 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NP-45

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 9.71 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NP-45A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 17.58 ft  
 Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
20.50	0.0000	0
21.00	0.6140	26746
21.50	4.0960	178422
22.00	11.9270	519540
22.50	20.3450	886228

Stage [ft]	Area [ac]	Area [ft2]
23.00	35.6560	1553175
23.50	48.8720	2128864
24.00	57.0500	2485098
24.50	58.6220	2553574
25.00	59.1520	2576661

Comment:

Node: NP-50

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 9.83 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NP-55

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 9.96 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NP-55A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 17.58 ft  
 Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0000	0
19.50	0.1090	4748
20.00	0.3490	15202
20.50	1.5010	65384
21.00	6.0800	264845
21.50	12.8610	560225
22.00	21.4850	935887
22.50	33.9000	1476684
23.00	46.0590	2006330
23.50	54.4240	2370709
24.00	59.1610	2577053
24.50	59.6530	2598485

Comment:

Node: NP-60

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 10.08 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NP-60S

Scenario: 2016 FWCD Update  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 26.58 ft  
 Warning Stage: 26.58 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	28.00
0	0	0	120.0000	28.00

Comment:

Node: NP-70

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 10.33 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NP-80

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 10.58 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NP-80S

Scenario: 2016 FWCD Update  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 26.58 ft  
 Warning Stage: 26.58 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	28.00
0	0	0	120.0000	28.00

Comment:

Node: NP-80W

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 13.58 ft  
 Warning Stage: 22.58 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	0.0000	0
17.00	0.1530	6665
17.50	0.9780	42602
18.00	1.9470	84811

Stage [ft]	Area [ac]	Area [ft2]
18.50	6.4950	282922
19.00	16.4060	714645
19.50	44.4040	1934238
20.00	83.2130	3624758
20.50	114.6470	4994023
21.00	135.5940	5906475
21.50	143.4140	6247114
22.00	145.8650	6353879
22.50	147.6560	6431895
23.00	148.5670	6471579
23.50	149.1290	6496059
24.00	149.5190	6513048
24.50	149.8040	6525462
25.00	149.8420	6527118

Comment:

Node: NP-90

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 10.83 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NP-FJVE

Scenario: 2016 FWCD Update



Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 16.50 ft  
 Warning Stage: 23.00 ft

Stage [ft]	Area [ac]	Area [ft2]
16.00	2.3200	101059
17.00	13.2600	577606
18.00	24.1000	1049796
19.00	35.4300	1543331
20.00	55.3800	2412353
21.00	332.6700	14491105
22.00	1010.2500	44006490
23.00	2077.2700	90485881
24.00	3007.5700	131009749

Comment:

Node: NP01A05

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 15.08 ft  
 Warning Stage: 24.08 ft

Comment:

Node: NP01A07

Scenario: 2016 FWCD Update

Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.11 ft  
Warning Stage: 23.83 ft

Comment:

Node: NP01A09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.22 ft  
Warning Stage: 23.83 ft

Comment:

Node: NP01A13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.29 ft  
Warning Stage: 23.83 ft

Comment:

Node: NP01A15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.62 ft  
Warning Stage: 23.83 ft

Comment:

Node: NP01A17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.82 ft  
Warning Stage: 23.83 ft

Comment:

Node: NP01B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.56 ft  
Warning Stage: 24.33 ft

Comment:

Node: NP01B03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.56 ft  
Warning Stage: 24.33 ft

Comment:

Node: NP01B07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.56 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP01B09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.73 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP01B13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.73 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP01B15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.73 ft  
Warning Stage: 24.83 ft

Comment:

Node: NP01B17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.73 ft  
Warning Stage: 24.83 ft

Comment:

Node: NP01B21

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.73 ft  
Warning Stage: 25.08 ft

Comment:

Node: NP01B23

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.73 ft  
Warning Stage: 25.08 ft

Comment:

Node: NP01C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.73 ft  
Warning Stage: 25.83 ft

Comment:

Node: NP01C03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.73 ft  
Warning Stage: 25.83 ft

Comment:

Node: NP01C07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.73 ft  
Warning Stage: 26.08 ft

Comment:

Node: NP01C09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.73 ft  
Warning Stage: 26.08 ft

Comment:

Node: NP01C13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.62 ft  
Warning Stage: 26.08 ft

Comment:

Node: NP01C15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.62 ft  
Warning Stage: 26.08 ft

Comment:

Node: NP01D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.99 ft  
Warning Stage: 26.08 ft

Comment:



Node: NP01D03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.99 ft  
Warning Stage: 26.08 ft

Comment:

Node: NP01E01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 21.28 ft  
Warning Stage: 26.33 ft

Comment:

Node: NP02A05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.08 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP02A09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.55 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP02A15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.71 ft  
Warning Stage: 24.33 ft

Comment:

Node: NP02A17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.11 ft  
Warning Stage: 24.33 ft

Comment:

Node: NP02A19

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.41 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP02B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.41 ft  
Warning Stage: 25.08 ft

Comment:

Node: NP02B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.41 ft  
Warning Stage: 25.08 ft

Comment:

Node: NP02B10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.41 ft  
Warning Stage: 25.33 ft

Comment:

Node: NP02C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.77 ft  
Warning Stage: 25.58 ft

Comment:

Node: NP02C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.77 ft  
Warning Stage: 25.58 ft

Comment:

Node: NP02C11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.77 ft  
Warning Stage: 25.83 ft

Comment:

Node: NP02C13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.77 ft  
Warning Stage: 26.33 ft

Comment:

Node: NP02D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 21.78 ft  
Warning Stage: 28.33 ft

Comment:

Node: NP02D05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 25.51 ft  
Warning Stage: 28.58 ft

Comment:

Node: NP02D11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 28.81 ft  
Warning Stage: 29.58 ft

Comment:

Node: NP02D13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 29.24 ft  
Warning Stage: 30.08 ft

Comment:

Node: NP02D15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 29.24 ft  
Warning Stage: 30.08 ft

Comment:

Node: NP02D17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 29.24 ft  
Warning Stage: 30.08 ft

Comment:

Node: NP02E01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 29.24 ft  
Warning Stage: 29.08 ft

Comment:

Node: NP03A05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.08 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP03A09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.53 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP03A13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.17 ft  
Warning Stage: 24.83 ft

Comment:



Node: NP03A15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.74 ft  
Warning Stage: 24.83 ft

Comment:

Node: NP03A17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.74 ft  
Warning Stage: 25.08 ft

Comment:

Node: NP03B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.74 ft  
Warning Stage: 25.08 ft

Comment:

Node: NP03B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.74 ft  
Warning Stage: 25.08 ft

Comment:

Node: NP03B10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.74 ft  
Warning Stage: 25.08 ft

Comment:

Node: NP03C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.16 ft  
Warning Stage: 25.08 ft

Comment:

Node: NP03C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 21.01 ft  
Warning Stage: 25.08 ft

Comment:

Node: NP03C09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 21.69 ft  
Warning Stage: 25.08 ft

Comment:

Node: NP03C11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 21.69 ft  
Warning Stage: 25.08 ft

Comment:

Node: NP03D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 22.02 ft  
Warning Stage: 27.83 ft

Comment:

Node: NP03D05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 24.09 ft  
Warning Stage: 28.58 ft

Comment:

Node: NP03D10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 26.17 ft  
Warning Stage: 28.83 ft

Comment:

Node: NP03D13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 27.25 ft  
Warning Stage: 28.83 ft

Comment:

Node: NP03D15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 28.93 ft  
Warning Stage: 29.08 ft

Comment:

Node: NP03E01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 26.88 ft  
Warning Stage: 29.08 ft

Comment:

Node: NP03E05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 27.58 ft  
Warning Stage: 29.58 ft

Comment:

Node: NP04A01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.45 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP04A05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.66 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP04A10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.96 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP04A13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.42 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP04A15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.86 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP04B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.18 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP04B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.58 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP04B10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.98 ft  
Warning Stage: 24.58 ft

Comment:



Node: NP04B15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.98 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP04C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.98 ft  
Warning Stage: 25.08 ft

Comment:

Node: NP04C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.98 ft  
Warning Stage: 25.33 ft

Comment:

Node: NP04D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 21.41 ft  
Warning Stage: 26.08 ft

Comment:

Node: NP04D05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 23.22 ft  
Warning Stage: 27.58 ft

Comment:

Node: NP04E01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 25.03 ft  
Warning Stage: 28.58 ft

Comment:

Node: NP04E05

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 26.95 ft  
 Warning Stage: 29.58 ft

Comment:

Node: NP04E07

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 26.95 ft  
 Warning Stage: 30.08 ft

Stage [ft]	Area [ac]	Area [ft2]
21.80	0.0001	4
26.50	0.0001	5

Comment:

Node: NP04E10

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 26.95 ft  
 Warning Stage: 30.08 ft

Comment:

Node: NP05A03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.09 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP05A05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.55 ft  
Warning Stage: 23.83 ft

Comment:

Node: NP05A10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs

Initial Stage: 18.02 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP05A13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.54 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP05A15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.54 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP05B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.54 ft  
Warning Stage: 25.08 ft

Comment:

Node: NP05B03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.54 ft  
Warning Stage: 25.08 ft

Comment:

Node: NP05B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.54 ft  
Warning Stage: 25.08 ft

Comment:

Node: NP05B07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.54 ft  
Warning Stage: 25.08 ft

Comment:

Node: NP05B09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.18 ft  
Warning Stage: 25.08 ft

Comment:

Node: NP05B11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.19 ft  
Warning Stage: 25.08 ft

Comment:

Node: NP05B13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.19 ft  
Warning Stage: 24.83 ft

Comment:

Node: NP05C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.19 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP05C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.19 ft  
Warning Stage: 24.58 ft

Comment:



Node: NP05C10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.19 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP05D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 21.03 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP05D05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 23.11 ft  
Warning Stage: 27.08 ft

Comment:

Node: NP05D10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 25.18 ft  
Warning Stage: 27.08 ft

Comment:

Node: NP05E01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 27.26 ft  
Warning Stage: 28.58 ft

Comment:

Node: NP05E05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 28.45 ft  
Warning Stage: 30.08 ft

Comment:

Node: NP05E07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 28.86 ft  
Warning Stage: 30.58 ft

Comment:

Node: NP05E10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 27.28 ft  
Warning Stage: 30.58 ft

Comment:

Node: NP06A01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 9.16 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP06A05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.90 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP06A07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.41 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP06A09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.41 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP06A11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.42 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP06A15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.76 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP06A17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.20 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP06A19

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.03 ft  
Warning Stage: 23.33 ft

Comment:

Node: NP06B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.23 ft  
Warning Stage: 23.83 ft

Comment:

Node: NP06B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.26 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP06B07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.26 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP06B10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.75 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP06C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.77 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP06C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 21.41 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP06C10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 22.03 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP06D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 23.23 ft  
Warning Stage: 24.58 ft

Comment:



Node: NP06D05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 24.40 ft  
Warning Stage: 25.08 ft

Comment:

Node: NP06D10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 25.57 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP06E01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 26.74 ft  
Warning Stage: 27.58 ft

Comment:

Node: NP06E05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 28.03 ft  
Warning Stage: 28.58 ft

Comment:

Node: NP06E07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 28.48 ft  
Warning Stage: 30.08 ft

Comment:

Node: NP06E10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 28.88 ft  
Warning Stage: 30.08 ft

Comment:

Node: NP07A01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.08 ft  
Warning Stage: 22.83 ft

Comment:

Node: NP07A05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.63 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP07A10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.89 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP07A13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.59 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP07A15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.72 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP07B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.84 ft  
Warning Stage: 23.33 ft

Comment:

Node: NP07B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.89 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP07B10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.93 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP07C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.98 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP07C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.02 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP07C10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.73 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP07D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 21.58 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP07D05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 23.43 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP07D10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 25.29 ft  
Warning Stage: 26.08 ft

Comment:

Node: NP07E01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 27.14 ft  
Warning Stage: 28.58 ft

Comment:

Node: NP07E05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 29.29 ft  
Warning Stage: 29.58 ft

Comment:

Node: NP07E07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 29.50 ft  
Warning Stage: 29.58 ft

Comment:

Node: NP07E10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 29.50 ft  
Warning Stage: 29.58 ft

Comment:



Node: NP08A01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.20 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP08A03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.44 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP08A05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.52 ft  
Warning Stage: 22.83 ft

Comment:

Node: NP08A07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.61 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP08A11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.19 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP08A13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.21 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP08A17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.35 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP08A19

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.85 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP08A21

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.03 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP08B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.24 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP08B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.24 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP08B07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.24 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP08B09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.24 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP08C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.70 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP08C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.20 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP08C10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.74 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP08D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.63 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP08D05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 21.52 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP08D10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 22.41 ft  
Warning Stage: 25.08 ft

Comment:

Node: NP08E01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 23.30 ft  
Warning Stage: 27.33 ft

Comment:

Node: NP08E05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 24.19 ft  
Warning Stage: 28.08 ft

Comment:

Node: NP08E10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 24.92 ft  
Warning Stage: 28.08 ft

Comment:

Node: NP09A01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.34 ft  
Warning Stage: 22.08 ft

Comment:

Node: NP09A03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.34 ft  
Warning Stage: 22.08 ft

Comment:



Node: NP09A07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.30 ft  
Warning Stage: 22.08 ft

Comment:

Node: NP09A09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.30 ft  
Warning Stage: 22.08 ft

Comment:

Node: NP09A11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.81 ft  
Warning Stage: 22.08 ft

Comment:

Node: NP09A13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.81 ft  
Warning Stage: 22.08 ft

Comment:

Node: NP09A15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.22 ft  
Warning Stage: 22.08 ft

Comment:

Node: NP09A17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.35 ft  
Warning Stage: 22.08 ft

Comment:

Node: NP09A21

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.79 ft  
Warning Stage: 22.33 ft

Comment:

Node: NP09A23

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.00 ft  
Warning Stage: 22.33 ft

Comment:

Node: NP09A25

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.06 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP09B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.06 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP09B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.06 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP09B07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.06 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP09B09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.06 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP09B11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.06 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP09B13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.34 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP09B15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.34 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP09B17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.34 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP09C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.34 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP09C03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.34 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP09C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.34 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP09C07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.34 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP09C13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.34 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP09D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.75 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP09D05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.49 ft  
Warning Stage: 24.08 ft

Comment:



Node: NP09D10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 21.24 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP09E01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 21.99 ft  
Warning Stage: 25.58 ft

Comment:

Node: NP09E05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 22.73 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP09E10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 23.34 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP10A01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.08 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP10A03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.68 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP10A07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.79 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP10A13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.11 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP10A15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.53 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP10A17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.89 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP10B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.51 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP10B03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.57 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP10B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.66 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP10B07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.66 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP10B09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.66 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP10B11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.66 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP10B13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.66 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP10B17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.65 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP10B19

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.37 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP10C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.37 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP10C03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.37 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP10C07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.37 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP10C13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.62 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP10C15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.77 ft  
Warning Stage: 24.08 ft

Comment:



Node: NP10D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.83 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP10D03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.83 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP10D07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.83 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP10D13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.83 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP10E01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.83 ft  
Warning Stage: 26.08 ft

Comment:

Node: NP10E05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.83 ft  
Warning Stage: 27.08 ft

Comment:

Node: NP10E10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.73 ft  
Warning Stage: 27.08 ft

Comment:

Node: NP11A01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 13.08 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP11A03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.31 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP11A05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.16 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP11A07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.28 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP11A10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.57 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP11A12

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.84 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP11A15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.84 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP11A17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.84 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP11B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.63 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP11B03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.67 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP11B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.67 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP11B07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.67 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP11B10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.67 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP11B12

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.67 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP11B15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.22 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP11B17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.22 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP11B20

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.66 ft  
Warning Stage: 23.08 ft

Comment:



Node: NP11C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.09 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP11C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.56 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP11C07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.61 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP11C10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.61 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP11C12

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.61 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP11D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.62 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP11D05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 21.45 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP11D10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 22.29 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP11E01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 23.21 ft  
Warning Stage: 27.08 ft

Comment:

Node: NP11E05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 24.18 ft  
Warning Stage: 27.58 ft

Comment:

Node: NP11E10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 24.64 ft  
Warning Stage: 27.58 ft

Comment:

Node: NP12A01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.08 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP12A03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.88 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP12A05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.05 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP12A09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.27 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP12A13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.45 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP12A15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.60 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP12B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.04 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP12B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.08 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP12B07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.08 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP12B09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.08 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP12B13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.08 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP12B15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.08 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP12B17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.08 ft  
Warning Stage: 24.08 ft

Comment:



Node: NP12C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.09 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP12C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.11 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP12C10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.12 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP12C15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.63 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP12C17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.68 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP12D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.68 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP12D05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.68 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP12D07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.68 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP12D13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.23 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP12D15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.37 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP12D19

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 21.43 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP12D21

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 21.43 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP12E01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 22.18 ft  
Warning Stage: 26.83 ft

Comment:

Node: NP12E05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 23.41 ft  
Warning Stage: 27.08 ft

Comment:

Node: NP13aA01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.36 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP13aA05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.44 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP13aA07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.77 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP13aA09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.15 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP13aA11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.54 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP13aA13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.54 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP13aA15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.80 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP13aA17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.80 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP13aB01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.80 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP13aB03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.80 ft  
Warning Stage: 24.58 ft

Comment:



Node: NP13aB07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.80 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP13aB09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.80 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP13aB11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.80 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP13aB13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.80 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP13aB15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.80 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP13aB17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.92 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP13aB19

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.92 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP13aB21

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.92 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP13aB23

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.92 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP13aB25

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.92 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP13aC01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.92 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP13aC05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.92 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP13aC07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.97 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP13aD01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.97 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP13bA01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 13.30 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP13bA05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.90 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP13bA09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.50 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP13bA11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.27 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP13bB01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.27 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP13bB05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.27 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP13bB07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.27 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP13bB13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.29 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP13bC01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.29 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP13bC05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.58 ft  
Warning Stage: 24.58 ft

Comment:



Node: NP13bC07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.79 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP13bC13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.57 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP13bD01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.34 ft  
Warning Stage: 25.58 ft

Comment:

Node: NP13bD05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 21.12 ft  
Warning Stage: 27.58 ft

Comment:

Node: NP13bD10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 21.99 ft  
Warning Stage: 27.58 ft

Comment:

Node: NP13bE01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 22.38 ft  
Warning Stage: 27.58 ft

Comment:

Node: NP14A01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 13.08 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP14A05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.66 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP14A07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.66 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP14A09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.86 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP14A11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.98 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP14A13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.98 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP14A15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.98 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP14A17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.98 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP14A19

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.98 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP14A21

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.98 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP14A23

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.98 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP14A25

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.98 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP14A27

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.98 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP14A29

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.98 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP14B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.98 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP14B03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.98 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP14B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.98 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP14B07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.98 ft  
Warning Stage: 23.58 ft

Comment:



Node: NP14B09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.98 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP14B11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.98 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP14B13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.15 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP14B15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.15 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP14B17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.19 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP14B19

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.20 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP14B21

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.66 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP14B23

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.66 ft  
Warning Stage: 23.58 ft

Comment: (converted from manhole to stage/area node)

Node: NP14B25

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.76 ft  
Warning Stage: 23.58 ft

Comment: (converted from manhole to stage/area node)

[Empty text box]

Node: NP14B27

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.76 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP14B31

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.76 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP14B33

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.76 ft

Warning Stage: 23.58 ft

Comment:

Node: NP14B35

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.79 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP14B37

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.79 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP14B39

Scenario: 2016 FWCD Update

Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.81 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP14B41

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.81 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP14B43

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.52 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP14B45

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.52 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP14C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.52 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP14C03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.52 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP14C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.53 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP14C07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.53 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP14C09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.53 ft  
Warning Stage: 24.58 ft

Comment:



Node: NP14C11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.53 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP14C13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.53 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP14C15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.53 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP14C17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.53 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP14C19

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.66 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP14C21

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.66 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP14C23

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.88 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP14C24

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.08 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP14C25

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.88 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP14C27

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.88 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP14D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.04 ft  
Warning Stage: 26.08 ft

Comment:

Node: NP14D05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.04 ft  
Warning Stage: 26.08 ft

Comment:

Node: NP14D07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.04 ft  
Warning Stage: 26.08 ft

Comment:

Node: NP14D09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.04 ft  
Warning Stage: 26.08 ft

Comment:

Node: NP14D13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.04 ft  
Warning Stage: 26.08 ft

Comment:

Node: NP14D19

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.04 ft  
Warning Stage: 26.08 ft

Comment:

Node: NP14D21

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.04 ft  
Warning Stage: 26.08 ft

Comment:

Node: NP14E01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.04 ft  
Warning Stage: 29.08 ft

Comment:

Node: NP14E03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 21.08 ft  
Warning Stage: 29.08 ft

Comment:

Node: NP14E05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 21.58 ft  
Warning Stage: 29.08 ft

Comment:

Node: NP14NBP

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.55 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP15A01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.80 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP15A05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.57 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP15A10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.60 ft  
Warning Stage: 23.08 ft

Comment:



Node: NP15A13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.60 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP15A15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.60 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP15A17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.60 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP15A19

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.60 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP15B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.60 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP15B03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.60 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP15B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.60 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP15B07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.60 ft  
Warning Stage: 24.08 ft

Comment: (converted from manhole to stage/area node)

Node: NP15B09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.60 ft  
Warning Stage: 24.08 ft

Comment: (converted from manhole to stage/area node)

[Empty text box]

Node: NP15B11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.60 ft  
Warning Stage: 24.08 ft

Comment: (converted from manhole to stage/area node)

Node: NP15B13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.60 ft  
Warning Stage: 24.08 ft

Comment: (converted from manhole to stage/area node)

Node: NP15B15

Scenario: 2016 FWCD Update  
Type: Stage/Area

Base Flow: 0.00 cfs  
Initial Stage: 16.60 ft  
Warning Stage: 24.08 ft

Comment: (converted from manhole to stage/area node)

Node: NP15C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.60 ft  
Warning Stage: 24.58 ft

Comment: (converted from manhole to stage/area node)

Node: NP15C03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.60 ft  
Warning Stage: 24.58 ft

Comment: (converted from manhole to stage/area node)

## Node: NP15C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.60 ft  
Warning Stage: 24.58 ft

Comment: (converted from manhole to stage/area node)

## Node: NP15C07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.08 ft  
Warning Stage: 24.58 ft

Comment: (converted from manhole to stage/area node)

## Node: NP15C09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.18 ft  
Warning Stage: 24.58 ft

Comment: (converted from manhole to stage/area node)

Node: NP15C11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.28 ft  
Warning Stage: 24.58 ft

Comment: (converted from manhole to stage/area node)

Node: NP15D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.08 ft  
Warning Stage: 26.08 ft

Comment:

Node: NP15D05

Scenario: 2016 FWCD Update  
Type: Stage/Area

Base Flow: 0.00 cfs  
Initial Stage: 20.08 ft  
Warning Stage: 26.08 ft

Comment:

Node: NP15D07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.08 ft  
Warning Stage: 26.08 ft

Comment:

Node: NP15D09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.08 ft  
Warning Stage: 26.08 ft

Comment:



Node: NP15E01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.81 ft  
Warning Stage: 28.58 ft

Comment:

Node: NP15E05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.81 ft  
Warning Stage: 28.58 ft

Comment:

Node: NP15E10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.81 ft  
Warning Stage: 28.58 ft

Comment:

Node: NP15E15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 21.58 ft  
Warning Stage: 28.58 ft

Comment:

Node: NP15NBPA

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.99 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP15NBPB

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.45 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP15NBPC

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.58 ft  
 Warning Stage: 24.08 ft

Comment:

Node: NP16A01

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 14.08 ft  
 Warning Stage: 23.08 ft

Stage [ft]	Area [ac]	Area [ft2]
14.00	0.0000	0
15.00	0.5000	21780
17.00	1.0000	43560
19.00	2.0000	87120
20.00	4.0000	174240
21.00	5.0000	217800
22.00	6.0000	261360
23.00	15.0000	653400
24.00	20.0000	871200
26.00	212.0000	9234720

Comment:

Node: NP16A03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.01 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP16A05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.15 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP16A07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.78 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP16A09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.38 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP16A11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.47 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP16A12

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.47 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP16A13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.11 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP16A15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.11 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP16A17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.11 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP16B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.11 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP16B03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.11 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP16B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.11 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP16B07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.11 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP16B09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.11 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP16B11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.11 ft  
Warning Stage: 24.08 ft

Comment:



Node: NP16B13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.11 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP16B15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.11 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP16B17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.11 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP16B19

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.11 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP16B21

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.11 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP16B23

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.11 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP16B25

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.11 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP16B27

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.11 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP16C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.11 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP16C03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.11 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP16C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.11 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP16C07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.11 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP16C09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.11 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP16C11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.11 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP16C13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.57 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP16C15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.86 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP16C17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.86 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP16C19

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.86 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP16C21

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.86 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP16C23

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.86 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP16C25

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.86 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP16C27

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.86 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP16C29

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.76 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP16C31

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.83 ft  
Warning Stage: 24.08 ft

Comment:



Node: NP16D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.36 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP16D05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.36 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP16D07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.36 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP16D09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.36 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP16D11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.36 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP16D13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.36 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP16D15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.36 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP16D17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.36 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP16D19

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.36 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP16D21

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.36 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP16D23

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.36 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP16D25

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.36 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP16D27

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.36 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP16E01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.36 ft  
Warning Stage: 28.08 ft

Comment:

Node: NP16E03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.36 ft  
Warning Stage: 28.08 ft

Comment:

Node: NP16E05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.36 ft  
Warning Stage: 28.08 ft

Comment:

Node: NP16E09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.36 ft  
Warning Stage: 28.08 ft

Comment:

Node: NP16E11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.36 ft  
Warning Stage: 28.08 ft

Comment:

Node: NP16E13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.68 ft  
Warning Stage: 28.08 ft

Comment:

Node: NP16SBPA

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.74 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP17A01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.08 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP17A05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.94 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP17A09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.05 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP17A11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.17 ft  
Warning Stage: 24.08 ft

Comment:



Node: NP17A13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.17 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP17A15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.47 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP17B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.63 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP17B03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.78 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP17B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.64 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP17B07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.65 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP17B09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.65 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP17B11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.65 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP17B13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.65 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP17B15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.65 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP17B17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.65 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP17B19

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.76 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP17B21

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.76 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP17B23

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.76 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP17B25

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.76 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP17B27

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.77 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP17B29

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.77 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP17B31

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.77 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP17C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.28 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP17C03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.28 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP17C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.28 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP17C07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.28 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP17C09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.28 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP17C11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.28 ft  
Warning Stage: 24.58 ft

Comment:



Node: NP17C11A

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.28 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP17C12

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.28 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP17C13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.28 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP17C15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.28 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP17C17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.28 ft  
Warning Stage: 25.08 ft

Comment:

Node: NP17C19

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.28 ft  
Warning Stage: 25.08 ft

Comment:

Node: NP17C21

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.28 ft  
Warning Stage: 25.08 ft

Comment:

Node: NP17D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.28 ft  
Warning Stage: 26.08 ft

Comment:

Node: NP17D03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.28 ft  
Warning Stage: 26.08 ft

Comment:

Node: NP17D05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.28 ft  
Warning Stage: 26.08 ft

Comment:

Node: NP17D07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.28 ft  
Warning Stage: 26.08 ft

Comment:

Node: NP17D09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.28 ft  
Warning Stage: 26.08 ft

Comment:

Node: NP17D11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.28 ft  
Warning Stage: 26.08 ft

Comment:

Node: NP17D13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.28 ft  
Warning Stage: 26.08 ft

Comment:

Node: NP17D15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.28 ft  
Warning Stage: 26.08 ft

Comment:

Node: NP17D17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.28 ft  
Warning Stage: 26.33 ft

Comment:

Node: NP17D19

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.28 ft  
Warning Stage: 26.33 ft

Comment:

Node: NP17E01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.28 ft  
Warning Stage: 28.08 ft

Comment:

Node: NP17E03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.28 ft  
Warning Stage: 28.08 ft

Comment:

Node: NP17E07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.28 ft  
Warning Stage: 28.08 ft

Comment:

Node: NP17E09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.28 ft  
Warning Stage: 28.08 ft

Comment:

Node: NP17E11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.66 ft  
Warning Stage: 28.08 ft

Comment:

Node: NP17E13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 21.08 ft  
Warning Stage: 28.08 ft

Comment:

Node: NP17SBP

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.88 ft  
Warning Stage: 25.08 ft

Comment:



Node: NP17SBPA

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 16.99 ft  
 Warning Stage: 25.08 ft

Comment:

Node: NP18A01

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 14.08 ft  
 Warning Stage: 24.08 ft

Stage [ft]	Area [ac]	Area [ft2]
15.00	0.0000	0
16.00	0.5000	21780
17.00	2.5000	108900
20.00	10.0000	435600
21.00	12.0000	522720
22.00	15.0000	653400
23.00	50.0000	2178000
24.00	100.0000	4356000
25.00	250.0000	10890000
26.00	757.0000	32974920

Comment:

Node: NP18A05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.47 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP18A10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.63 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP18B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.31 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP18B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.39 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP18B07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.69 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP18B09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.69 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP18B11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.69 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP18C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.69 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP18C03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.69 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP18C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.69 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP18C07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.69 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP18C09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.69 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP18C11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.69 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP18C13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.69 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP18C15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.69 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP18D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.69 ft  
Warning Stage: 28.08 ft

Comment:

Node: NP18D05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.69 ft  
Warning Stage: 28.08 ft

Comment:

Node: NP18D10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.69 ft  
Warning Stage: 28.08 ft

Comment:

Node: NP18D13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.69 ft  
Warning Stage: 28.08 ft

Comment:

Node: NP18D15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.06 ft  
Warning Stage: 28.08 ft

Comment:

Node: NP18D17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.06 ft  
Warning Stage: 28.08 ft

Comment:



Node: NP18D19

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.06 ft  
Warning Stage: 28.08 ft

Comment:

Node: NP18E01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.06 ft  
Warning Stage: 28.08 ft

Comment:

Node: NP18E03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.06 ft  
Warning Stage: 28.08 ft

Comment:

Node: NP18E05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.23 ft  
Warning Stage: 28.08 ft

Comment:

Node: NP18E09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 21.12 ft  
Warning Stage: 28.08 ft

Comment:

Node: NP18E11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 21.87 ft  
Warning Stage: 28.08 ft

Comment:

Node: NP19A01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.08 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP19A03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.79 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP19A05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.84 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP19A07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.79 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP19A09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.11 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP19A11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.11 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP19A13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.19 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP19A15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.19 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP19B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.19 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP19B03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.59 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP19B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.59 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP19B07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.59 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP19B09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.59 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP19B11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.19 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP19B13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.19 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP19C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.19 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP19C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.19 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP19C07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.15 ft  
Warning Stage: 24.08 ft

Comment:



Node: NP19C09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.15 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP19C11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.15 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP19C13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.15 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP19C15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.28 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP19C17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.28 ft  
Warning Stage: 24.08 ft

Comment:

Node: NP19D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.28 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP19D03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.48 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP19D05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.48 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP19D07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.48 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP19D09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.48 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP19D11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.48 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP19D13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.48 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP19D15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.48 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP19E01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.48 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP19E05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.48 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP19E07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.48 ft  
Warning Stage: 26.58 ft

Comment:

Node: NP20A01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.08 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP20A03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.13 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP20A05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.58 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP20A07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.64 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP20A09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.76 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP20A11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.48 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP20A13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.73 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP20A15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.73 ft  
Warning Stage: 22.58 ft

Comment:



Node: NP20A17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.73 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP20B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.73 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP20B03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.73 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP20B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.73 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP20B07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.73 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP20B09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.73 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP20B11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.96 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP20B13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.96 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP20B15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.51 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP20B17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.51 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP20C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.51 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP20C03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.51 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP20C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.51 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP20C07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.24 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP20C09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.24 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP20C11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.41 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP20C13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.41 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP20C15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.41 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP20C17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.41 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP20C19

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.41 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP20C21

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.41 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP20D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.41 ft  
Warning Stage: 25.58 ft

Comment:

Node: NP20D03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.04 ft  
Warning Stage: 25.58 ft

Comment:

Node: NP20D05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.04 ft  
Warning Stage: 25.58 ft

Comment:



Node: NP20D07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.04 ft  
Warning Stage: 25.58 ft

Comment:

Node: NP20D09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.04 ft  
Warning Stage: 25.58 ft

Comment:

Node: NP20D11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.04 ft  
Warning Stage: 25.58 ft

Comment:

Node: NP20E01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.17 ft  
Warning Stage: 25.58 ft

Comment:

Node: NP20E03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.08 ft  
Warning Stage: 25.58 ft

Comment:

Node: NP20E05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.43 ft  
Warning Stage: 25.58 ft

Comment:

Node: NP20E07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.43 ft  
Warning Stage: 25.58 ft

Comment:

Node: NP21A01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.08 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP21A03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.78 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP21A05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.78 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP21A07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.34 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP21A09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.77 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP21A11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.95 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP21A13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.17 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP21A15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.17 ft  
Warning Stage: 23.08 ft

Comment:

Node: NP21B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.17 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP21B03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.17 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP21B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.35 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP21B07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.35 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP21B09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.35 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP21B11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.35 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP21B13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.35 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP21B15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.92 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP21B17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.92 ft  
Warning Stage: 23.58 ft

Comment:



Node: NP21C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.92 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP21C03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.92 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP21C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.92 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP21C07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.26 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP21C09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.26 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP21C11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.98 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP21C13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.98 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP21C15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.98 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP21C17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.36 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP21C19

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.36 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP21C21

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.36 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP21D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.36 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP21D03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.36 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP21D05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.36 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP21D07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.36 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP21D09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.36 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP21D11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.36 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP21D13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.36 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP21D15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.60 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP21D17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.79 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP21D19

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.81 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP21D21

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.81 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP21D23

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.81 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP21E01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.81 ft  
Warning Stage: 24.58 ft

Comment:



Node: NP21E03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.81 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP21E05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.81 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP21E07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.81 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP21E09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.81 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP21E11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 21.41 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP21E13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 21.78 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP21E15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.93 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP21E17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.93 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP22A01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.08 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP22A03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.14 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP22A05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.62 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP22A07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.62 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP22A09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.62 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP22A11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.02 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP22A13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.02 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP22A15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.02 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP22A17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.02 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP22B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.02 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP22B03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.02 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP22B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.02 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP22B07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.02 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP22B09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.67 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP22B11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.67 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP22B13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.67 ft  
Warning Stage: 22.58 ft

Comment:



Node: NP22B15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.67 ft  
Warning Stage: 22.58 ft

Comment:

Node: NP22C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.67 ft  
Warning Stage: 22.08 ft

Comment:

Node: NP22C03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.67 ft  
Warning Stage: 22.08 ft

Comment:

Node: NP22C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.67 ft  
Warning Stage: 22.08 ft

Comment:

Node: NP22C07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.76 ft  
Warning Stage: 22.08 ft

Comment:

Node: NP22C09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.76 ft  
Warning Stage: 22.08 ft

Comment:

Node: NP22C11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.24 ft  
Warning Stage: 22.08 ft

Comment:

Node: NP22C13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.24 ft  
Warning Stage: 22.08 ft

Comment:

Node: NP22C15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.24 ft  
Warning Stage: 22.08 ft

Comment:

Node: NP22C17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.24 ft  
Warning Stage: 22.08 ft

Comment:

Node: NP22C19

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.24 ft  
Warning Stage: 22.08 ft

Comment:

Node: NP22C21

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.38 ft  
Warning Stage: 22.08 ft

Comment:

Node: NP22D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.70 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP22D03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.32 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP22D05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.32 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP22D07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.32 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP22D09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.32 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP22D11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.32 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP22D13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.32 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP22D15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.32 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP22D17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.32 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP22E01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.47 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP22E03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.54 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP22E05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.77 ft  
Warning Stage: 24.58 ft

Comment:



Node: NP22E07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.84 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP22E09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.78 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP22E11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.58 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP22E13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.58 ft  
Warning Stage: 24.58 ft

Comment:

Node: NP23A01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.33 ft  
Warning Stage: 22.08 ft

Comment:

Node: NP23A03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.61 ft  
Warning Stage: 22.08 ft

Comment:

Node: NP23A05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.75 ft  
Warning Stage: 22.08 ft

Comment:

Node: NP23A10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.75 ft  
Warning Stage: 22.08 ft

Comment:

Node: NP23B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.75 ft  
Warning Stage: 22.08 ft

Comment:

Node: NP23B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.75 ft  
Warning Stage: 22.08 ft

Comment:

Node: NP23B10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.75 ft  
Warning Stage: 22.08 ft

Comment:

Node: NP23C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.75 ft  
Warning Stage: 20.58 ft

Comment:

Node: NP23C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.75 ft  
Warning Stage: 20.58 ft

Comment:

Node: NP23C07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.57 ft  
Warning Stage: 20.58 ft

Comment:

Node: NP23C09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.12 ft  
Warning Stage: 20.58 ft

Comment:

Node: NP23C11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.12 ft  
Warning Stage: 20.58 ft

Comment:

Node: NP23C13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.12 ft  
Warning Stage: 20.58 ft

Comment:

Node: NP23C15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.12 ft  
Warning Stage: 20.58 ft

Comment:

Node: NP23C17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.12 ft  
Warning Stage: 20.58 ft

Comment:

Node: NP23D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.12 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP23D03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.12 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP23D05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.12 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP23D07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.12 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP23D09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.39 ft  
Warning Stage: 23.58 ft

Comment:



Node: NP23D11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.61 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP23D13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.61 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP23D15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.69 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP23D17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.78 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP23D19

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.41 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP23E01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.41 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP23E03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.41 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP23E05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.41 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP23E07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.41 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP23E09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.41 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP23E11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.41 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP24A01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.58 ft  
Warning Stage: 22.08 ft

Comment:

Node: NP24A05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.52 ft  
Warning Stage: 22.08 ft

Comment:

Node: NP24A10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.76 ft  
Warning Stage: 22.08 ft

Comment:

Node: NP24B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.99 ft  
Warning Stage: 21.08 ft

Comment:

Node: NP24B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.23 ft  
Warning Stage: 21.08 ft

Comment:

Node: NP24B10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.66 ft  
Warning Stage: 21.08 ft

Comment:

Node: NP24C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.19 ft  
Warning Stage: 19.58 ft

Comment:

Node: NP24C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.72 ft  
Warning Stage: 19.58 ft

Comment:

Node: NP24C07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.98 ft  
Warning Stage: 19.58 ft

Comment:

Node: NP24C09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.33 ft  
Warning Stage: 19.58 ft

Comment:

Node: NP24D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.33 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP24D05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.33 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP24D10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.33 ft  
Warning Stage: 23.58 ft

Comment:



Node: NP24E01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.33 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP24E05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.77 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP24E07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.74 ft  
Warning Stage: 23.58 ft

Comment:

Node: NP24E09

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 18.77 ft  
 Warning Stage: 23.58 ft

Comment:

Node: NPL1-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 21.08 ft  
 Warning Stage: 24.08 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0000	0
19.50	0.4400	19166
20.00	0.7270	31668
20.50	1.1120	48439
21.00	2.9090	126716
21.50	5.7640	251080
22.00	15.2140	662722
22.50	33.7310	1469322
23.00	58.5860	2552006
23.50	67.1070	2923181
24.00	69.3950	3022846
24.50	70.5760	3074291
25.00	71.6920	3122904
25.50	72.1130	3141242

Stage [ft]	Area [ac]	Area [ft2]
26.00	72.5750	3161367
26.50	72.7990	3171124
27.00	72.9840	3179183
27.50	73.4150	3197957
28.00	73.4630	3200048
28.50	73.4980	3201573
29.00	73.5310	3203010
29.50	73.5720	3204796
30.00	73.6130	3206582
30.50	73.6350	3207541
31.00	73.6560	3208455
31.50	73.6660	3208891
32.00	73.6800	3209501
32.50	73.6930	3210067
33.00	73.7110	3210851
33.50	73.7260	3211505
34.00	73.7530	3212681

Comment:

Node: NPL1-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.58 ft  
 Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
20.50	0.0000	0
21.00	0.7850	34195
21.50	2.4060	104805

Stage [ft]	Area [ac]	Area [ft2]
22.00	4.8520	211353
22.50	10.2850	448015
23.00	25.0410	1090786
23.50	47.8840	2085827
24.00	63.2780	2756390
24.50	72.3110	3149867
25.00	78.5530	3421769
25.50	81.3470	3543475
26.00	82.7740	3605635
26.50	83.0880	3619313
27.00	83.1700	3622885
27.50	83.1870	3623626
28.00	83.2010	3624236

Comment:

Node: NPL1-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.08 ft  
 Warning Stage: 26.08 ft

Stage [ft]	Area [ac]	Area [ft2]
21.50	0.0000	0
22.00	0.3140	13678
22.50	3.5960	156642
23.00	10.3450	450628
23.50	19.7750	861399
24.00	33.4410	1456690
24.50	45.6810	1989864

Stage [ft]	Area [ac]	Area [ft2]
25.00	57.5870	2508490
25.50	68.7370	2994184
26.00	76.6030	3336827
26.50	81.1640	3535504
27.00	83.2490	3626326
27.50	83.9680	3657646
28.00	84.2180	3668536
28.50	84.4450	3678424
29.00	84.6050	3685394
29.50	84.8200	3694759
30.00	84.8420	3695718
30.50	84.8540	3696240
31.00	84.8640	3696676
31.50	84.8710	3696981
32.00	84.8810	3697416
32.50	84.8820	3697460

Comment:

Node: NPL1-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 25.08 ft  
 Warning Stage: 26.08 ft

Stage [ft]	Area [ac]	Area [ft2]
22.00	0.0000	0
22.50	0.0810	3528
23.00	1.2500	54450
23.50	4.5660	198895

Stage [ft]	Area [ac]	Area [ft2]
24.00	11.2930	491923
24.50	20.2740	883135
25.00	31.4220	1368742
25.50	47.1900	2055596
26.00	57.3220	2496946
26.50	62.7280	2732432
27.00	65.9070	2870909
27.50	68.7780	2995970
28.00	70.2210	3058827
28.50	71.3400	3107570
29.00	72.4830	3157359
29.50	73.0740	3183103
30.00	73.3640	3195736
30.50	73.4640	3200092
31.00	73.5240	3202705
31.50	73.5970	3205885
32.00	73.6470	3208063
32.50	73.6780	3209414

Comment:

Node: NPL10-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 17.58 ft  
 Warning Stage: 22.58 ft

Stage [ft]	Area [ac]	Area [ft2]
19.50	0.0000	0
20.00	0.1840	8015

Stage [ft]	Area [ac]	Area [ft2]
20.50	1.0000	43560
21.00	5.2510	228734
21.50	22.4090	976136
22.00	40.9970	1785829
22.50	52.0970	2269345
23.00	57.3480	2498079
23.50	59.6170	2596917
24.00	60.3770	2630022
24.50	60.8600	2651062
25.00	61.1340	2662997
25.50	61.3610	2672885
26.00	61.6210	2684211
26.50	61.8250	2693097

Comment:

Node: NPL10-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 18.58 ft  
 Warning Stage: 23.58 ft

Stage [ft]	Area [ac]	Area [ft2]
20.00	0.0000	0
20.50	0.1600	6970
21.00	1.6700	72745
21.50	4.6410	202162
22.00	12.5020	544587
22.50	27.9720	1218460
23.00	45.5990	1986292

Stage [ft]	Area [ac]	Area [ft2]
23.50	53.1350	2314561
24.00	57.0100	2483356
24.50	57.9830	2525739
25.00	58.3740	2542771
25.50	58.6160	2553313
26.00	58.9040	2565858
26.50	59.4850	2591167
27.00	59.7310	2601882

Comment:

Node: NPL10-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 21.08 ft  
 Warning Stage: 24.08 ft

Stage [ft]	Area [ac]	Area [ft2]
21.00	0.0000	0
21.50	0.9830	42819
22.00	2.6130	113822
22.50	7.8780	343166
23.00	28.5240	1242505
23.50	65.6820	2861108
24.00	75.3110	3280547
24.50	77.8740	3392191
25.00	78.5270	3420636
25.50	78.8580	3435054
26.00	79.2710	3453045
26.50	79.3650	3457139



Stage [ft]	Area [ac]	Area [ft2]
27.00	79.6100	3467812

Comment:

Node: NPL10-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.58 ft  
 Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
21.50	0.0000	0
22.00	0.9630	41948
22.50	2.8590	124538
23.00	8.9480	389775
23.50	30.8000	1341648
24.00	58.3450	2541508
24.50	68.0730	2965260
25.00	74.1890	3231673
25.50	77.9490	3395458
26.00	79.1530	3447905
26.50	79.8800	3479573
27.00	79.9850	3484147
27.50	80.0070	3485105

Comment:

Node: NPL10-E

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.50 ft  
 Warning Stage: 27.08 ft

Stage [ft]	Area [ac]	Area [ft2]
23.00	0.0000	0
23.50	2.4940	108639
24.00	7.7660	338287
24.50	17.9750	782991
25.00	26.4640	1152772
25.50	33.3810	1454076
26.00	39.3730	1715088
26.50	47.0860	2051066
27.00	59.9370	2610856
27.50	67.7290	2950275
28.00	71.1530	3099425
28.50	71.9430	3133837
29.00	72.2790	3148473
29.50	72.3990	3153700
30.00	72.6380	3164111

Comment:

Node: NPL11-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.58 ft  
 Warning Stage: 22.58 ft

Stage [ft]	Area [ac]	Area [ft2]
19.50	0.0000	0
20.00	0.9630	41948
20.50	1.7340	75533
21.00	5.8600	255262
21.50	19.6270	854952
22.00	37.8440	1648485
22.50	47.7720	2080948
23.00	52.8780	2303366
23.50	56.9040	2478738
24.00	58.2100	2535628
24.50	59.2340	2580233
25.00	59.7270	2601708
25.50	60.1990	2622268
26.00	60.2330	2623749
26.50	60.3460	2628672
27.00	60.3550	2629064

Comment:

Node: NPL11-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 18.08 ft  
 Warning Stage: 23.08 ft

Stage [ft]	Area [ac]	Area [ft2]
20.00	0.0000	0
20.50	0.0350	1525
21.00	1.7750	77319
21.50	4.9810	216972

Stage [ft]	Area [ac]	Area [ft2]
22.00	16.8970	736033
22.50	40.9230	1782606
23.00	52.1100	2269912
23.50	56.3160	2453125
24.00	57.6240	2510101
24.50	58.1430	2532709
25.00	58.6530	2554925
25.50	58.9740	2568907
26.00	59.1370	2576008
26.50	59.3060	2583369

Comment:

Node: NPL11-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.58 ft  
 Warning Stage: 23.58 ft

Stage [ft]	Area [ac]	Area [ft2]
20.50	0.0000	0
21.00	0.0560	2439
21.50	0.7840	34151
22.00	1.9770	86118
22.50	9.4980	413733
23.00	34.8700	1518937
23.50	59.9460	2611248
24.00	73.0160	3180577
24.50	76.2210	3320187
25.00	78.3970	3414973

Stage [ft]	Area [ac]	Area [ft2]
25.50	79.0820	3444812
26.00	79.3130	3454874
26.50	79.5830	3466635
27.00	80.0040	3484974
27.50	80.5970	3510805
28.00	80.6950	3515074

Comment:

Node: NPL11-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 21.58 ft  
 Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
22.00	0.0000	0
22.50	0.7280	31712
23.00	5.3240	231913
23.50	26.4420	1151814
24.00	60.1880	2621789
24.50	72.1210	3141591
25.00	78.7330	3429609
25.50	81.9120	3568087
26.00	83.0920	3619488
26.50	83.8210	3651243
27.00	84.1540	3665748
27.50	84.5850	3684523

Comment:

Node: NPL11-E

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.00 ft  
 Warning Stage: 27.58 ft

Stage [ft]	Area [ac]	Area [ft2]
22.50	0.0000	0
23.00	0.3830	16683
23.50	6.4120	279307
24.00	18.8640	821716
24.50	27.0890	1179997
25.00	34.4060	1498725
25.50	41.3640	1801816
26.00	47.8000	2082168
26.50	52.1870	2273266
27.00	56.7470	2471899
27.50	61.8420	2693838
28.00	68.3120	2975671
28.50	73.3830	3196563
29.00	75.8480	3303939
29.50	76.3520	3325893
30.00	76.5480	3334431
30.50	76.6630	3339440

Comment:

Node: NPL12-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs

Initial Stage: 18.58 ft  
 Warning Stage: 23.58 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0000	0
19.50	0.4680	20386
20.00	0.7670	33411
20.50	1.2230	53274
21.00	5.4210	236139
21.50	24.0160	1046137
22.00	43.7550	1905968
22.50	52.7600	2298226
23.00	57.1750	2490543
23.50	59.0390	2571739
24.00	59.7680	2603494
24.50	60.4050	2631242
25.00	60.6990	2644048
25.50	60.7690	2647098
26.00	60.9620	2655505
26.50	60.9670	2655723
27.00	60.9900	2656724

Comment:

Node: NPL12-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.08 ft  
 Warning Stage: 24.08 ft

Stage [ft]	Area [ac]	Area [ft2]
18.50	0.0000	0
19.00	0.4370	19036
19.50	1.0330	44997
20.00	1.3790	60069
20.50	1.7840	77711
21.00	3.0230	131682
21.50	6.2450	272032
22.00	14.9330	650481
22.50	38.8160	1690825
23.00	51.3710	2237721
23.50	55.1870	2403946
24.00	56.8320	2475602
24.50	57.8470	2519815
25.00	58.4700	2546953
25.50	58.9970	2569909
26.00	59.3340	2584589
26.50	59.6870	2599966
27.00	59.8430	2606761
27.50	60.0620	2616301
28.00	60.3650	2629499
28.50	60.3700	2629717
29.00	60.3750	2629935
29.50	60.3790	2630109
30.00	60.3840	2630327
30.50	60.3870	2630458
31.00	60.3910	2630632
31.50	60.3950	2630806
32.00	60.3990	2630980
32.50	60.4020	2631111
33.00	60.4050	2631242
33.50	60.4090	2631416
34.00	60.4120	2631547
34.50	60.4150	2631677
35.00	60.4190	2631852



Stage [ft]	Area [ac]	Area [ft2]
35.50	60.4220	2631982
36.00	60.4240	2632069
36.50	60.4270	2632200
37.00	60.4290	2632287
37.50	60.4320	2632418
38.00	60.4340	2632505
38.50	60.4370	2632636
39.00	60.4400	2632766
39.50	60.4550	2633420

Comment:

Node: NPL12-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.58 ft  
 Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
20.50	0.0000	0
21.00	1.5350	66865
21.50	5.5930	243631
22.00	11.9410	520150
22.50	19.3900	844628
23.00	34.1950	1489534
23.50	59.0150	2570693
24.00	71.6450	3120856
24.50	75.7960	3301674
25.00	79.2230	3450954
25.50	81.4980	3550053

Stage [ft]	Area [ac]	Area [ft2]
26.00	81.8690	3566214

Comment:

Node: NPL12-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.00 ft  
 Warning Stage: 26.58 ft

Stage [ft]	Area [ac]	Area [ft2]
20.50	0.0000	0
21.00	0.1370	5968
21.50	0.3850	16771
22.00	0.6680	29098
22.50	2.2190	96660
23.00	5.5900	243500
23.50	15.5220	676138
24.00	37.6080	1638204
24.50	52.9370	2305936
25.00	61.7050	2687870
25.50	68.2790	2974233
26.00	75.1410	3273142
26.50	84.1210	3664311
27.00	94.2690	4106358
27.50	100.9470	4397251
28.00	102.2110	4452311
28.50	102.4010	4460588
29.00	102.4310	4461894

Comment:

Node: NPL12-E

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.00 ft  
 Warning Stage: 27.08 ft

Stage [ft]	Area [ac]	Area [ft2]
22.50	0.0000	0
23.00	0.4010	17468
23.50	1.7560	76491
24.00	14.7290	641595
24.50	27.5580	1200426
25.00	34.6050	1507394
25.50	40.6140	1769146
26.00	46.3040	2017002
26.50	50.4390	2197123
27.00	53.3010	2321792
27.50	54.9380	2393099
28.00	56.0900	2443280
28.50	56.7050	2470070
29.00	57.0200	2483791
29.50	57.1260	2488409
30.00	57.2730	2494812
30.50	57.2960	2495814

Comment:

Node: NPL13-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 17.58 ft  
 Warning Stage: 22.58 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0000	0
19.50	0.1270	5532
20.00	0.5220	22738
20.50	1.0050	43778
21.00	1.8970	82633
21.50	8.0500	350658
22.00	25.4840	1110083
22.50	39.8240	1734733
23.00	45.1050	1964774
23.50	46.9100	2043400
24.00	47.7180	2078596
24.50	47.7400	2079554
25.00	47.8230	2083170
25.50	47.8250	2083257
26.00	47.8260	2083301
26.50	47.8300	2083475

Comment:

Node: NPL13-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.58 ft

Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
18.50	0.0000	0
19.00	0.1620	7057
19.50	0.5080	22128
20.00	0.8650	37679
20.50	1.5520	67605
21.00	2.7250	118701
21.50	5.3120	231391
22.00	9.0200	392911
22.50	22.9860	1001270
23.00	35.4150	1542677
23.50	39.0430	1700713
24.00	41.4220	1804342
24.50	43.3650	1888979
25.00	44.4340	1935545
25.50	44.9890	1959721
26.00	45.4240	1978669
26.50	45.8620	1997749
27.00	46.2760	2015783
27.50	46.4430	2023057
28.00	46.6410	2031682
28.50	46.8260	2039741
29.00	46.9460	2044968
29.50	47.1350	2053201
30.00	47.1990	2055988
30.50	47.2540	2058384
31.00	47.2680	2058994
31.50	47.2820	2059604
32.00	47.2960	2060214
32.50	47.3080	2060736
33.00	47.3210	2061303
33.50	47.3330	2061825
34.00	47.3450	2062348

Stage [ft]	Area [ac]	Area [ft2]
34.50	47.3560	2062827
35.00	47.3670	2063307
35.50	47.3780	2063786
36.00	47.3880	2064221
36.50	47.3980	2064657
37.00	47.4070	2065049
37.50	47.4170	2065485
38.00	47.4260	2065877
38.50	47.4350	2066269
39.00	47.4440	2066661
39.50	47.4540	2067096
40.00	47.4640	2067532
40.50	47.4740	2067967
41.00	47.4850	2068447
41.50	47.4940	2068839
42.00	47.5270	2070276
42.50	47.5300	2070407
43.00	47.5330	2070537
43.50	47.5360	2070668
44.00	47.5390	2070799
44.50	47.5410	2070886
45.00	47.5440	2071017
45.50	47.5470	2071147
46.00	47.5490	2071234
46.50	47.5520	2071365
47.00	47.5550	2071496
47.50	47.5580	2071626
48.00	47.5690	2072106

Comment:

Node: NPL13-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.58 ft  
 Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
21.00	0.0000	0
21.50	0.2010	8756
22.00	2.4390	106243
22.50	13.0070	566585
23.00	30.0490	1308934
23.50	48.6480	2119107
24.00	61.1840	2665175
24.50	63.4140	2762314
25.00	63.7420	2776602
25.50	63.8640	2781916
26.00	63.8780	2782526
26.50	63.8910	2783092
27.00	63.9040	2783658
27.50	63.9180	2784268
28.00	63.9310	2784834
28.50	63.9700	2786533
29.00	63.9790	2786925

Comment:

Node: NPL13b-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs

Initial Stage: 21.58 ft  
 Warning Stage: 22.58 ft

Stage [ft]	Area [ac]	Area [ft2]
20.00	0.0000	0
20.50	0.0070	305
21.00	0.1930	8407
21.50	1.7220	75010
22.00	5.4740	238447
22.50	10.0600	438214
23.00	11.6560	507735
23.50	12.3920	539796
24.00	13.3060	579609
24.50	13.9140	606094
25.00	14.2050	618770
25.50	14.4200	628135
26.00	14.5180	632404
26.50	14.5540	633972

Comment:

Node: NPL13b-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.00 ft  
 Warning Stage: 23.58 ft

Stage [ft]	Area [ac]	Area [ft2]
21.50	0.0000	0
22.00	0.5150	22433
22.50	5.8930	256699



Stage [ft]	Area [ac]	Area [ft2]
23.00	13.3140	579958
23.50	16.4390	716083
24.00	17.3030	753719
24.50	17.9080	780072
25.00	19.5680	852382
25.50	20.2820	883484
26.00	20.4820	892196

Comment:

Node: NPL13b-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.00 ft  
 Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
21.50	0.0000	0
22.00	0.4500	19602
22.50	4.4470	193711
23.00	16.6760	726407
23.50	22.1190	963504
24.00	23.4010	1019348
24.50	24.5740	1070443
25.00	26.3250	1146717
25.50	26.6100	1159132
26.00	26.9340	1173245
26.50	27.1460	1182480

Comment:

Node: NPL13b-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.50 ft  
 Warning Stage: 27.58 ft

Stage [ft]	Area [ac]	Area [ft2]
22.50	0.0000	0
23.00	0.5610	24437
23.50	2.4470	106591
24.00	4.1270	179772
24.50	5.3190	231696
25.00	7.3300	319295
25.50	9.2590	403322
26.00	9.8490	429022
26.50	10.0860	439346
27.00	10.1030	440087

Comment:

Node: NPL14-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 17.58 ft  
 Warning Stage: 22.58 ft

Stage [ft]	Area [ac]	Area [ft2]
20.00	0.0000	0
20.50	1.4080	61332
21.00	3.5480	154551

Stage [ft]	Area [ac]	Area [ft2]
21.50	11.1060	483777
22.00	26.7130	1163618
22.50	41.0650	1788791
23.00	45.2160	1969609
23.50	46.6320	2031290
24.00	47.1840	2055335
24.50	47.5880	2072933
25.00	47.9960	2090706
25.50	48.1380	2096891

Comment:

Node: NPL14-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.00 ft  
 Warning Stage: 23.58 ft

Stage [ft]	Area [ac]	Area [ft2]
21.00	0.0000	0
21.50	0.4490	19558
22.00	3.1680	137998
22.50	29.0620	1265941
23.00	56.0820	2442932
23.50	65.4320	2850218
24.00	68.9830	3004899
24.50	70.8970	3088273
25.00	73.5070	3201965
25.50	75.1010	3271400
26.00	75.5030	3288911

Stage [ft]	Area [ac]	Area [ft2]
26.50	75.6380	3294791

Comment:

Node: NPL14-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.50 ft  
 Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
21.50	0.0000	0
22.00	0.0400	1742
22.50	4.2470	184999
23.00	24.8150	1080941
23.50	42.7430	1861885
24.00	49.6000	2160576
24.50	53.0690	2311686
25.00	55.0300	2397107
25.50	57.2940	2495727
26.00	59.1030	2574527
26.50	59.4750	2590731
27.00	59.6260	2597309

Comment:

Node: NPL14-D

Scenario: 2016 FWCD Update

Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.08 ft  
 Warning Stage: 26.08 ft

Stage [ft]	Area [ac]	Area [ft2]
21.00	0.0000	0
21.50	0.3300	14375
22.00	1.4670	63903
22.50	3.1240	136081
23.00	7.2550	316028
23.50	19.5530	851729
24.00	37.0110	1612199
24.50	53.8750	2346795
25.00	65.5380	2854835
25.50	71.4050	3110402
26.00	74.7790	3257373
26.50	75.2830	3279327
27.00	75.4890	3288301
27.50	75.5660	3291655
28.00	75.7420	3299322
28.50	75.9270	3307380

Comment:

Node: NPL14-E

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.50 ft  
 Warning Stage: 29.08 ft

Stage [ft]	Area [ac]	Area [ft2]
21.00	0.0000	0
21.50	0.0300	1307
22.00	0.7440	32409
22.50	3.0630	133424
23.00	5.8250	253737
23.50	8.7140	379582
24.00	23.0480	1003971
24.50	36.0570	1570643
25.00	45.0300	1961507
25.50	48.4810	2111832
26.00	52.8730	2303148
26.50	59.7980	2604801
27.00	64.3830	2804523
27.50	66.1030	2879447
28.00	68.4050	2979722
28.50	68.7760	2995883
29.00	68.8720	3000064
29.50	68.9610	3003941
30.00	69.0660	3008515
30.50	69.1670	3012915
31.00	69.2750	3017619
31.50	69.3960	3022890
32.00	69.5640	3030208
32.50	70.0930	3053251

Comment:

Node: NPL15-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs

Initial Stage: 18.08 ft  
Warning Stage: 23.08 ft

Stage [ft]	Area [ac]	Area [ft2]
20.00	0.0000	0
20.50	0.7430	32365
21.00	2.9780	129722
21.50	7.8520	342033
22.00	27.6140	1202866
22.50	42.7820	1863584
23.00	48.5430	2114533
23.50	49.3890	2151385
24.00	49.8420	2171118
24.50	50.3810	2194596
25.00	50.6900	2208056
25.50	50.7740	2211715

Comment:

Node: NPL15-B

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 21.08 ft  
Warning Stage: 24.08 ft

Stage [ft]	Area [ac]	Area [ft2]
20.50	0.0000	0
21.00	0.1290	5619
21.50	0.6260	27269
22.00	3.6080	157164
22.50	19.4390	846763

Stage [ft]	Area [ac]	Area [ft2]
23.00	44.1940	1925091
23.50	60.1580	2620482
24.00	69.7890	3040009
24.50	74.6030	3249707
25.00	78.0830	3401295
25.50	80.6530	3513245
26.00	82.1120	3576799
26.50	82.6740	3601279

Comment:

Node: NPL15-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 21.58 ft  
 Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
20.50	0.1280	5576
21.00	0.3100	13504
21.50	0.5220	22738
22.00	1.3010	56672
22.50	7.5450	328660
23.00	28.2990	1232704
23.50	55.4690	2416230
24.00	73.7170	3211113
24.50	82.6700	3601105
25.00	85.1970	3711181
25.50	87.2330	3799869
26.00	89.6680	3905938



Stage [ft]	Area [ac]	Area [ft2]
26.50	91.0720	3967096
27.00	91.8680	4001770
27.50	92.1710	4014969
28.00	92.4470	4026991
28.50	92.5670	4032219

Comment:

Node: NPL15-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.08 ft  
 Warning Stage: 26.08 ft

Stage [ft]	Area [ac]	Area [ft2]
20.00	0.0000	0
20.50	0.7600	33106
21.00	1.1650	50747
21.50	1.5790	68781
22.00	2.0180	87904
22.50	2.4340	106025
23.00	3.2330	140829
23.50	6.7440	293769
24.00	17.1200	745747
24.50	27.4310	1194894
25.00	35.2580	1535838
25.50	39.2290	1708815
26.00	41.2790	1798113
26.50	41.8360	1822376

Comment:

Node: NPL15-E

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.00 ft  
 Warning Stage: 28.58 ft

Stage [ft]	Area [ac]	Area [ft2]
19.50	0.0000	0
20.00	0.1240	5401
20.50	0.4190	18252
21.00	0.6850	29839
21.50	1.0100	43996
22.00	1.4150	61637
22.50	2.3310	101538
23.00	3.5510	154682
23.50	6.3480	276519
24.00	14.0780	613238
24.50	23.6430	1029889
25.00	32.3220	1407946
25.50	36.8670	1605927
26.00	43.1190	1878264
26.50	52.6360	2292824
27.00	58.4220	2544862
27.50	58.6900	2556536
28.00	58.9340	2567165
28.50	59.1040	2574570
29.00	59.2980	2583021
29.50	59.4810	2590992
30.00	59.5880	2595653

Stage [ft]	Area [ac]	Area [ft2]
30.50	59.6490	2598310
31.00	59.7040	2600706
31.50	59.7140	2601142
32.00	59.7240	2601577
32.50	59.7340	2602013
33.00	59.7460	2602536
33.50	59.7600	2603146
34.00	59.7700	2603581
34.50	59.7800	2604017
35.00	59.7890	2604409
35.50	59.7980	2604801
36.00	59.8080	2605236
36.50	59.8170	2605629
37.00	59.8260	2606021
37.50	59.8360	2606456
38.00	59.8450	2606848
38.50	60.3730	2629848

Comment:

Node: NPL16-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.08 ft  
 Warning Stage: 23.08 ft

Stage [ft]	Area [ac]	Area [ft2]
20.00	0.0000	0
20.50	0.0150	653
21.00	0.7750	33759

Stage [ft]	Area [ac]	Area [ft2]
21.50	11.3090	492620
22.00	32.0510	1396142
22.50	43.2980	1886061
23.00	49.3880	2151341
23.50	52.6690	2294262
24.00	53.9660	2350759
24.50	54.2850	2364655
25.00	54.4090	2370056
25.50	54.4910	2373628
26.00	54.5280	2375240
26.50	54.5640	2376808
27.00	54.6040	2378550
27.50	54.6810	2381904

Comment:

Node: NPL16-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 21.50 ft  
 Warning Stage: 24.08 ft

Stage [ft]	Area [ac]	Area [ft2]
21.00	0.0000	0
21.50	0.7250	31581
22.00	5.0820	221372
22.50	18.3190	797976
23.00	37.3670	1627707
23.50	51.0400	2223302
24.00	57.1230	2488278

Stage [ft]	Area [ac]	Area [ft2]
24.50	60.4640	2633812
25.00	62.9240	2740969
25.50	64.6850	2817679
26.00	65.3830	2848083
26.50	65.7220	2862850
27.00	65.7500	2864070
27.50	65.8650	2869079

Comment:

Node: NPL16-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.00 ft  
 Warning Stage: 24.08 ft

Stage [ft]	Area [ac]	Area [ft2]
21.50	0.0000	0
22.00	1.4770	64338
22.50	8.0330	349917
23.00	20.5220	893938
23.50	31.7100	1381288
24.00	42.6350	1857181
24.50	50.1550	2184752
25.00	54.8680	2390050
25.50	59.0170	2570781
26.00	63.2520	2755257
26.50	65.0640	2834188
27.00	65.8120	2866771
27.50	66.1900	2883236

Comment:

Node: NPL16-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.50 ft  
 Warning Stage: 26.58 ft

Stage [ft]	Area [ac]	Area [ft2]
21.00	0.0000	0
21.50	0.7730	33672
22.00	1.8650	81239
22.50	4.3420	189138
23.00	13.0340	567761
23.50	34.3990	1498420
24.00	58.1520	2533101
24.50	72.0080	3136668
25.00	78.2510	3408614
25.50	81.7640	3561640
26.00	84.7930	3693583
26.50	87.7010	3820256
27.00	88.3990	3850660
27.50	89.0100	3877276
28.00	89.2900	3889472
28.50	89.4370	3895876
29.00	89.7210	3908247

Comment:

Node: NPL16-E

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.50 ft  
 Warning Stage: 28.08 ft

Stage [ft]	Area [ac]	Area [ft2]
20.50	0.0000	0
21.00	0.3830	16683
21.50	1.6590	72266
22.00	2.9630	129068
22.50	4.9820	217016
23.00	9.6990	422488
23.50	27.6200	1203127
24.00	57.7560	2515851
24.50	85.5880	3728213
25.00	105.1460	4580160
25.50	116.4230	5071386
26.00	121.1220	5276074
26.50	124.0880	5405273
27.00	125.1850	5453059
27.50	125.5940	5470875
28.00	125.7580	5478018
28.50	125.9980	5488473
29.00	126.0030	5488691
29.50	126.0160	5489257

Comment:

Node: NPL17-A

Scenario: 2016 FWCD Update

Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 21.08 ft  
 Warning Stage: 24.08 ft

Stage [ft]	Area [ac]	Area [ft2]
19.50	0.0000	0
20.00	0.0050	218
20.50	0.1590	6926
21.00	0.4390	19123
21.50	7.5560	329139
22.00	26.4180	1150768
22.50	36.0330	1569597
23.00	40.4400	1761566
23.50	44.3130	1930274
24.00	47.1070	2051981
24.50	48.3790	2107389
25.00	49.0550	2136836
25.50	49.3590	2150078
26.00	49.4740	2155087
26.50	49.5590	2158790
27.00	49.6500	2162754
27.50	49.7720	2168068
28.00	49.8080	2169636

Comment:

Node: NPL17-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.00 ft



Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
21.50	0.0000	0
22.00	1.2290	53535
22.50	15.6970	683761
23.00	36.7050	1598870
23.50	49.9610	2176301
24.00	56.7890	2473729
24.50	61.6810	2686824
25.00	64.8000	2822688
25.50	66.3030	2888159
26.00	66.9420	2915994
26.50	67.3000	2931588
27.00	67.6400	2946398
27.50	67.6780	2948054

Comment:

Node: NPL17-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.50 ft  
 Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
22.00	0.0000	0
22.50	1.2910	56236
23.00	8.8640	386116
23.50	25.5230	1111782
24.00	44.7810	1950660

Stage [ft]	Area [ac]	Area [ft2]
24.50	56.8520	2476473
25.00	66.2310	2885022
25.50	73.7710	3213465
26.00	80.6040	3511110
26.50	84.2460	3669756
27.00	86.4310	3764934
27.50	87.3110	3803267

Comment:

Node: NPL17-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.50 ft  
 Warning Stage: 26.08 ft

Stage [ft]	Area [ac]	Area [ft2]
21.00	0.0000	0
21.50	0.3920	17076
22.00	1.8490	80542
22.50	3.3880	147581
23.00	9.6680	421138
23.50	21.6870	944686
24.00	42.2840	1841891
24.50	55.1060	2400417
25.00	61.4330	2676021
25.50	65.2170	2840853
26.00	67.2460	2929236
26.50	68.5070	2984165
27.00	68.7760	2995883

Stage [ft]	Area [ac]	Area [ft2]
27.50	69.0190	3006468

Comment:

Node: NPL17-E

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.50 ft  
 Warning Stage: 28.08 ft

Stage [ft]	Area [ac]	Area [ft2]
20.00	0.0000	0
20.50	0.4510	19646
21.00	0.7600	33106
21.50	1.4710	64077
22.00	2.9620	129025
22.50	6.0870	265150
23.00	14.3210	623823
23.50	32.8030	1428899
24.00	50.3710	2194161
24.50	67.5410	2942086
25.00	80.1280	3490376
25.50	84.5630	3683564
26.00	87.0850	3793423
26.50	88.2750	3845259
27.00	89.2090	3885944
27.50	89.3190	3890736
28.00	89.5570	3901103

Comment:

Node: NPL18-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 21.50 ft  
 Warning Stage: 24.08 ft

Stage [ft]	Area [ac]	Area [ft2]
20.50	0.0000	0
21.00	0.0940	4095
21.50	0.6270	27312
22.00	10.0270	436776
22.50	26.7040	1163226
23.00	45.0040	1960374
23.50	56.3030	2452559
24.00	64.5400	2811362
24.50	69.0760	3008951
25.00	70.9830	3092019
25.50	71.8070	3127913
26.00	72.2550	3147428
26.50	72.4680	3156706
27.00	72.5770	3161454

Comment:

Node: NPL18-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.08 ft  
 Warning Stage: 23.08 ft

Stage [ft]	Area [ac]	Area [ft2]
18.50	0.0000	0
19.00	1.4210	61899
19.50	2.5090	109292
20.00	2.9550	128720
20.50	3.5720	155596
21.00	4.5830	199635
21.50	5.6530	246245
22.00	7.2400	315374
22.50	17.3580	756114
23.00	33.9190	1477512
23.50	49.5610	2158877
24.00	60.8520	2650713
24.50	68.9880	3005117
25.00	72.8740	3174391
25.50	74.6060	3249837
26.00	76.0590	3313130
26.50	76.9810	3353292
27.00	77.1350	3360001
27.50	77.1500	3360654
28.00	77.1680	3361438

Comment:

Node: NPL18-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.50 ft  
 Warning Stage: 23.58 ft

Stage [ft]	Area [ac]	Area [ft2]
20.50	0.0000	0
21.00	0.4760	20735
21.50	0.9470	41251
22.00	1.5990	69652
22.50	3.6160	157513
23.00	8.2970	361417
23.50	23.3530	1017257
24.00	49.0860	2138186
24.50	67.3700	2934637
25.00	73.3670	3195867
25.50	76.9120	3350287
26.00	80.3350	3499393
26.50	81.8810	3566736
27.00	83.8690	3653334
27.50	84.1310	3664746
28.00	84.3120	3672631
28.50	84.4340	3677945

Comment:

Node: NPL18-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.50 ft  
 Warning Stage: 28.08 ft

Stage [ft]	Area [ac]	Area [ft2]
20.50	0.0000	0
21.00	0.7010	30536
21.50	1.2300	53579

Stage [ft]	Area [ac]	Area [ft2]
22.00	2.0300	88427
22.50	5.9450	258964
23.00	14.3870	626698
23.50	33.1320	1443230
24.00	56.7050	2470070
24.50	78.2540	3408744
25.00	96.3900	4198748
25.50	103.6900	4516736
26.00	106.9290	4657827
26.50	109.0730	4751220
27.00	110.3700	4807717
27.50	110.6180	4818520
28.00	110.9410	4832590
28.50	111.2340	4845353

Comment:

Node: NPL19-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.08 ft  
 Warning Stage: 23.08 ft

Stage [ft]	Area [ac]	Area [ft2]
20.00	0.0000	0
20.50	0.2300	10019
21.00	1.1360	49484
21.50	3.6700	159865
22.00	19.0830	831255
22.50	39.6080	1725324

Stage [ft]	Area [ac]	Area [ft2]
23.00	49.5080	2156568
23.50	55.1180	2400940
24.00	57.5250	2505789
24.50	59.1890	2578273
25.00	60.1520	2620221
25.50	60.7900	2648012
26.00	61.1130	2662082
26.50	61.1530	2663825
27.00	61.2040	2666046
27.50	61.2310	2667222

Comment:

Node: NPL19-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.58 ft  
 Warning Stage: 23.58 ft

Stage [ft]	Area [ac]	Area [ft2]
19.50	0.0000	0
20.00	0.1800	7841
20.50	1.1500	50094
21.00	2.8690	124974
21.50	5.2000	226512
22.00	10.6760	465047
22.50	34.5650	1505651
23.00	51.9260	2261897
23.50	59.9160	2609941
24.00	64.4800	2808749



Stage [ft]	Area [ac]	Area [ft2]
24.50	67.5170	2941041
25.00	69.6000	3031776
25.50	70.5550	3073376
26.00	71.3190	3106656
26.50	71.9910	3135928
27.00	72.3540	3151740
27.50	73.0570	3182363
28.00	73.2660	3191467

Comment:

Node: NPL19-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 21.08 ft  
 Warning Stage: 24.08 ft

Stage [ft]	Area [ac]	Area [ft2]
20.50	0.0000	0
21.00	0.2010	8756
21.50	1.4350	62509
22.00	2.5500	111078
22.50	11.2010	487916
23.00	37.6600	1640470
23.50	68.1620	2969137
24.00	87.4830	3810759
24.50	95.6220	4165294
25.00	99.7550	4345328
25.50	102.0530	4445429
26.00	103.3280	4500968

Stage [ft]	Area [ac]	Area [ft2]
26.50	104.3220	4544266
27.00	105.0970	4578025
27.50	105.7790	4607733
28.00	106.0430	4619233

Comment:

Node: NPL19-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 21.58 ft  
 Warning Stage: 26.58 ft

Stage [ft]	Area [ac]	Area [ft2]
21.00	0.0000	0
21.50	0.7970	34717
22.00	2.6460	115260
22.50	9.7890	426409
23.00	23.1720	1009372
23.50	45.9590	2001974
24.00	72.7130	3167378
24.50	98.3970	4286173
25.00	112.3210	4892703
25.50	114.5770	4990974
26.00	115.7760	5043203
26.50	116.4740	5073607
27.00	117.5020	5118387
27.50	117.7830	5130627
28.00	117.8600	5133982
28.50	118.0210	5140995

Stage [ft]	Area [ac]	Area [ft2]
29.00	118.0490	5142214

Comment:

Node: NPL2-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 21.08 ft  
 Warning Stage: 24.08 ft

Stage [ft]	Area [ac]	Area [ft2]
19.50	0.0000	0
20.00	0.4140	18034
20.50	0.7470	32539
21.00	1.9130	83330
21.50	2.7460	119616
22.00	5.4810	238752
22.50	11.5070	501245
23.00	21.1570	921599
23.50	29.7860	1297478
24.00	34.2440	1491669
24.50	35.2110	1533791
25.00	35.7700	1558141
25.50	36.3210	1582143
26.00	36.7640	1601440
26.50	36.8670	1605927
27.00	36.9050	1607582
27.50	36.9350	1608889
28.00	36.9500	1609542
28.50	36.9540	1609716

Stage [ft]	Area [ac]	Area [ft2]
29.00	36.9570	1609847
29.50	36.9610	1610021
30.00	36.9640	1610152
30.50	36.9810	1610892

Comment:

Node: NPL2-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.08 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
21.00	0.0000	0
21.50	0.5700	24829
22.00	4.0960	178422
22.50	9.4650	412295
23.00	13.8910	605092
23.50	27.4040	1193718
24.00	40.3480	1757559
24.50	52.9280	2305544
25.00	62.1550	2707472
25.50	66.8500	2911986
26.00	69.2900	3018272
26.50	70.0390	3050899
27.00	70.4540	3068976
27.50	70.6090	3075728
28.00	70.6490	3077470
28.50	70.6870	3079126

Comment:

Node: NPL2-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.58 ft  
 Warning Stage: 25.58 ft

Stage [ft]	Area [ac]	Area [ft2]
22.00	0.0000	0
22.50	0.8600	37462
23.00	7.3090	318380
23.50	15.9690	695610
24.00	27.8630	1213712
24.50	41.3530	1801337
25.00	53.5940	2334555
25.50	61.5060	2679201
26.00	66.6090	2901488
26.50	68.3170	2975889
27.00	69.1320	3011390
27.50	69.5430	3029293
28.00	69.7730	3039312
28.50	70.1040	3053730

Comment:

Node: NPL2-D

Scenario: 2016 FWCD Update

Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 27.58 ft  
 Warning Stage: 28.58 ft

Stage [ft]	Area [ac]	Area [ft2]
22.50	0.0000	0
23.00	1.7770	77406
23.50	5.1810	225684
24.00	9.8580	429414
24.50	16.5090	719132
25.00	22.6970	988681
25.50	28.8240	1255573
26.00	38.4610	1675361
26.50	45.4650	1980455
27.00	49.5000	2156220
27.50	52.4350	2284069
28.00	54.9820	2395016
28.50	57.0800	2486405
29.00	58.9270	2566860
29.50	60.7900	2648012
30.00	63.2010	2753036
30.50	66.3730	2891208
31.00	70.5920	3074988
31.50	76.4350	3329509
32.00	90.0680	3923362
32.50	99.7970	4347157
33.00	102.4950	4464682
33.50	102.9640	4485112
34.00	103.0600	4489294

Comment:

Node: NPL20-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.58 ft  
 Warning Stage: 22.58 ft

Stage [ft]	Area [ac]	Area [ft2]
19.50	0.0000	0
20.00	0.4390	19123
20.50	1.6050	69914
21.00	3.0410	132466
21.50	4.7510	206954
22.00	21.9730	957144
22.50	51.8410	2258194
23.00	64.3560	2803347
23.50	70.4310	3067974
24.00	74.4160	3241561
24.50	77.7740	3387835
25.00	79.4610	3461321
25.50	80.5090	3506972
26.00	81.6200	3555367
26.50	82.1750	3579543
27.00	82.4320	3590738
27.50	82.4620	3592045

Comment:

Node: NPL20-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs

Initial Stage: 20.58 ft  
Warning Stage: 23.58 ft

Stage [ft]	Area [ac]	Area [ft2]
20.00	0.0000	0
20.50	0.2990	13024
21.00	0.6610	28793
21.50	2.8250	123057
22.00	6.4440	280701
22.50	19.6390	855475
23.00	36.4850	1589287
23.50	50.2830	2190327
24.00	62.4610	2720801
24.50	72.0430	3138193
25.00	76.6620	3339397
25.50	78.8390	3434227
26.00	80.1960	3493338
26.50	81.1560	3535155
27.00	81.7580	3561378
27.50	82.3640	3587776
28.00	82.5600	3596314

Comment:

Node: NPL20-C

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.08 ft  
Warning Stage: 23.08 ft



Stage [ft]	Area [ac]	Area [ft2]
20.00	0.0000	0
20.50	0.1500	6534
21.00	0.4900	21344
21.50	0.7300	31799
22.00	1.1200	48787
22.50	5.3960	235050
23.00	34.7360	1513100
23.50	52.6340	2292737
24.00	60.9630	2655548
24.50	65.8750	2869515
25.00	68.2810	2974320
25.50	69.6470	3033823
26.00	70.4670	3069543
26.50	70.9170	3089145
27.00	71.3090	3106220
27.50	71.7520	3125517

Comment:

Node: NPL20-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.58 ft  
 Warning Stage: 25.58 ft

Stage [ft]	Area [ac]	Area [ft2]
21.00	0.0000	0
21.50	1.4580	63510
22.00	4.1790	182037
22.50	10.8120	470971

Stage [ft]	Area [ac]	Area [ft2]
23.00	30.4080	1324572
23.50	63.4140	2762314
24.00	95.7300	4169999
24.50	114.9970	5009269
25.00	124.5580	5425746
25.50	126.7980	5523321
26.00	127.4220	5550502
26.50	127.9130	5571890
27.00	128.5550	5599856
27.50	128.7920	5610180
28.00	128.8660	5613403

Comment:

Node: NPL21-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.08 ft  
 Warning Stage: 23.08 ft

Stage [ft]	Area [ac]	Area [ft2]
18.50	0.0000	0
19.00	0.0540	2352
19.50	0.3150	13721
20.00	1.1500	50094
20.50	1.7540	76404
21.00	2.3970	104413
21.50	4.1900	182516
22.00	22.3000	971388
22.50	49.3840	2151167

Stage [ft]	Area [ac]	Area [ft2]
23.00	61.4800	2678069
23.50	68.0260	2963213
24.00	73.6210	3206931
24.50	75.9770	3309558
25.00	77.3180	3367972
25.50	78.1910	3406000
26.00	79.3210	3455223
26.50	79.8450	3478048
27.00	79.8860	3479834
27.50	79.9420	3482274
28.00	79.9780	3483842
28.50	80.0360	3486368

Comment:

Node: NPL21-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.58 ft  
 Warning Stage: 23.58 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0000	0
19.50	0.4740	20647
20.00	0.7050	30710
20.50	0.9170	39945
21.00	1.9790	86205
21.50	3.8530	167837
22.00	6.0880	265193
22.50	22.3270	972564

Stage [ft]	Area [ac]	Area [ft2]
23.00	51.1290	2227179
23.50	66.6120	2901619
24.00	72.3190	3150216
24.50	75.1600	3273970
25.00	76.4650	3330815
25.50	77.4190	3372372
26.00	78.5550	3421856
26.50	79.3980	3458577
27.00	79.9900	3484364
27.50	80.3070	3498173
28.00	80.3210	3498783

Comment:

Node: NPL21-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.58 ft  
 Warning Stage: 22.58 ft

Stage [ft]	Area [ac]	Area [ft2]
20.00	0.0000	0
20.50	0.0450	1960
21.00	0.5660	24655
21.50	1.8290	79671
22.00	3.6150	157469
22.50	5.8040	252822
23.00	26.9090	1172156
23.50	54.7460	2384736
24.00	67.8830	2956983

Stage [ft]	Area [ac]	Area [ft2]
24.50	73.8830	3218343
25.00	76.8680	3348370
25.50	78.0950	3401818
26.00	78.9570	3439367
26.50	79.4060	3458925
27.00	79.9270	3481620
27.50	80.5940	3510675

Comment:

Node: NPL21-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 21.58 ft  
 Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0750	3267
19.50	0.8120	35371
20.00	1.8970	82633
20.50	2.4890	108421
21.00	3.7090	161564
21.50	5.4850	238927
22.00	6.3070	274733
22.50	8.5850	373963
23.00	19.2770	839706
23.50	52.7480	2297703
24.00	90.9070	3959909
24.50	106.2020	4626159
25.00	112.0880	4882553

Stage [ft]	Area [ac]	Area [ft2]
25.50	114.7420	4998162
26.00	116.3500	5068206
26.50	117.3180	5110372
27.00	118.6110	5166695
27.50	118.8580	5177454
28.00	119.0230	5184642
28.50	119.3010	5196752
29.00	119.3950	5200846

Comment:

Node: NPL22-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.58 ft  
 Warning Stage: 22.58 ft

Stage [ft]	Area [ac]	Area [ft2]
18.50	0.0000	0
19.00	0.2700	11761
19.50	0.8560	37287
20.00	1.0770	46914
20.50	1.6940	73791
21.00	2.9300	127631
21.50	5.2420	228342
22.00	25.5830	1114395
22.50	48.3380	2105603
23.00	63.4450	2763664
23.50	71.0640	3095548
24.00	74.3840	3240167

Stage [ft]	Area [ac]	Area [ft2]
24.50	75.9080	3306552
25.00	77.1180	3359260
25.50	78.2910	3410356
26.00	79.2760	3453263
26.50	79.7440	3473649
27.00	80.1600	3491770
27.50	80.3580	3500394

Comment:

Node: NPL22-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.58 ft  
 Warning Stage: 22.58 ft

Stage [ft]	Area [ac]	Area [ft2]
19.50	0.0000	0
20.00	0.6250	27225
20.50	1.6790	73137
21.00	2.2980	100101
21.50	4.1600	181210
22.00	9.9230	432246
22.50	25.5460	1112784
23.00	48.7360	2122940
23.50	65.8450	2868208
24.00	71.3490	3107962
24.50	73.8130	3215294
25.00	75.6210	3294051
25.50	76.8780	3348806

Stage [ft]	Area [ac]	Area [ft2]
26.00	77.9150	3393977
26.50	79.4500	3460842
27.00	79.8670	3479007
27.50	80.1970	3493381

Comment:

Node: NPL22-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.08 ft  
 Warning Stage: 22.08 ft

Stage [ft]	Area [ac]	Area [ft2]
20.50	0.0000	0
21.00	0.3550	15464
21.50	0.9980	43473
22.00	3.9450	171844
22.50	12.9720	565060
23.00	31.8060	1385469
23.50	55.5420	2419410
24.00	67.8150	2954021
24.50	73.3860	3196694
25.00	77.1150	3359129
25.50	78.3240	3411793
26.00	78.9100	3437320
26.50	79.5670	3465939
27.00	80.4970	3506449

Comment:



Node: NPL22-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 21.58 ft  
 Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
20.50	0.0000	0
21.00	1.6610	72353
21.50	2.2800	99317
22.00	3.2250	140481
22.50	5.0780	221198
23.00	13.1910	574600
23.50	36.5840	1593599
24.00	76.3790	3327069
24.50	99.4750	4333131
25.00	109.9410	4789030
25.50	113.4360	4941272
26.00	114.6890	4995853
26.50	115.4690	5029830
27.00	116.0420	5054790
27.50	116.7830	5087067
28.00	116.8250	5088897

Comment:

Node: NPL23-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.08 ft

Warning Stage: 22.08 ft

Stage [ft]	Area [ac]	Area [ft2]
19.50	0.0000	0
20.00	1.3830	60243
20.50	1.8450	80368
21.00	3.6320	158210
21.50	9.1010	396440
22.00	30.5550	1330976
22.50	58.2900	2539112
23.00	68.0850	2965783
23.50	73.0960	3184062
24.00	76.1000	3314916
24.50	77.4580	3374070
25.00	78.5960	3423642
25.50	79.5900	3466940
26.00	80.3820	3501440
26.50	80.5540	3508932
27.00	80.5990	3510892
27.50	80.6350	3512461
28.00	80.6490	3513070
28.50	80.6650	3513767
29.00	80.6800	3514421
29.50	80.7050	3515510

Comment:

Node: NPL23-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.08 ft

Warning Stage: 22.08 ft

Stage [ft]	Area [ac]	Area [ft2]
19.50	0.0000	0
20.00	0.9090	39596
20.50	1.8380	80063
21.00	3.2890	143269
21.50	6.0170	262101
22.00	14.1570	616679
22.50	47.1800	2055161
23.00	62.5470	2724547
23.50	69.2450	3016312
24.00	73.0270	3181056
24.50	75.0020	3267087
25.00	76.5610	3334997
25.50	77.9990	3397636
26.00	79.2630	3452696
26.50	79.9240	3481489
27.00	80.2490	3495646
27.50	80.2760	3496823
28.00	80.2840	3497171
28.50	80.2900	3497432
29.00	80.3140	3498478

Comment:

Node: NPL23-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 17.58 ft  
 Warning Stage: 20.58 ft

Stage [ft]	Area [ac]	Area [ft2]
20.00	0.0000	0
20.50	1.2390	53971
21.00	2.2150	96485
21.50	4.0250	175329
22.00	6.8910	300172
22.50	18.0420	785910
23.00	49.3700	2150557
23.50	68.4080	2979852
24.00	73.9310	3220434
24.50	76.2000	3319272
25.00	77.1980	3362745
25.50	78.0310	3399030
26.00	79.1730	3448776
26.50	79.8380	3477743
27.00	80.4860	3505970
27.50	80.4890	3506101
28.00	80.4920	3506232
28.50	80.5100	3507016

Comment:

Node: NPL23-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.58 ft  
 Warning Stage: 23.58 ft

Stage [ft]	Area [ac]	Area [ft2]
19.50	0.0000	0

Stage [ft]	Area [ac]	Area [ft2]
20.00	1.8190	79236
20.50	2.7850	121315
21.00	3.4880	151937
21.50	5.3690	233874
22.00	7.6020	331143
22.50	15.4370	672436
23.00	39.9810	1741572
23.50	62.3550	2716184
24.00	82.0840	3575579
24.50	98.1210	4274151
25.00	106.8160	4652905
25.50	110.6530	4820045
26.00	112.7700	4912261
26.50	114.3310	4980258
27.00	115.9480	5050695
27.50	116.8680	5090770
28.00	117.0060	5096781
28.50	117.0340	5098001
29.00	117.0620	5099221

Comment:

Node: NPL24-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.08 ft  
 Warning Stage: 22.08 ft

Stage [ft]	Area [ac]	Area [ft2]
20.00	0.0000	0

Stage [ft]	Area [ac]	Area [ft2]
20.50	0.2890	12589
21.00	0.7800	33977
21.50	3.1210	135951
22.00	16.7830	731067
22.50	25.6530	1117445
23.00	30.4040	1324398
23.50	34.0880	1484873
24.00	36.1180	1573300
24.50	37.2570	1622915
25.00	37.7680	1645174
25.50	38.0880	1659113
26.00	38.6110	1681895
26.50	38.8570	1692611
27.00	38.8760	1693439
27.50	38.9070	1694789
28.00	38.9270	1695660
28.50	38.9680	1697446
29.00	38.9930	1698535

Comment:

Node: NPL24-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 18.08 ft  
 Warning Stage: 21.08 ft

Stage [ft]	Area [ac]	Area [ft2]
20.50	0.0000	0
21.00	0.3760	16379

Stage [ft]	Area [ac]	Area [ft2]
21.50	4.6890	204253
22.00	10.8220	471406
22.50	18.4160	802201
23.00	25.8160	1124545
23.50	29.7620	1296433
24.00	32.2420	1404462
24.50	32.8640	1431556
25.00	33.2140	1446802
25.50	33.4720	1458040
26.00	33.8940	1476423
26.50	33.9250	1477773

Comment:

Node: NPL24-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 16.58 ft  
 Warning Stage: 19.58 ft

Stage [ft]	Area [ac]	Area [ft2]
21.00	0.0000	0
21.50	0.2920	12720
22.00	2.8340	123449
22.50	8.6940	378711
23.00	16.8120	732331
23.50	29.2290	1273215
24.00	33.6110	1464095
24.50	36.3220	1582186
25.00	37.6640	1640644

Stage [ft]	Area [ac]	Area [ft2]
25.50	38.1930	1663687
26.00	38.4420	1674534
26.50	38.6970	1685641
27.00	38.8960	1694310
27.50	38.9150	1695137

Comment:

Node: NPL24-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.58 ft  
 Warning Stage: 23.58 ft

Stage [ft]	Area [ac]	Area [ft2]
20.50	0.0000	0
21.00	0.6510	28358
21.50	1.4870	64774
22.00	3.1260	136169
22.50	9.0910	396004
23.00	15.7420	685722
23.50	28.1560	1226475
24.00	48.0140	2091490
24.50	53.4070	2326409
25.00	56.8510	2476430
25.50	59.4560	2589903
26.00	60.6100	2640172
26.50	61.2900	2669792
27.00	61.7440	2689569
27.50	62.0690	2703726



Stage [ft]	Area [ac]	Area [ft2]
28.00	62.4490	2720278
28.50	62.4840	2721803
29.00	62.5000	2722500
29.50	62.5260	2723633
30.00	62.6270	2728032

Comment:

Node: NPL3-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.08 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
21.50	0.0000	0
22.00	0.7990	34804
22.50	4.9510	215666
23.00	15.1550	660152
23.50	25.1330	1094793
24.00	38.7760	1689083
24.50	55.9730	2438184
25.00	67.0420	2920350
25.50	70.5900	3074900
26.00	72.2830	3148647
26.50	73.3630	3195692
27.00	74.0200	3224311
27.50	74.4670	3243783
28.00	74.7190	3254760
28.50	74.7370	3255544

Comment:

Node: NPL3-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.08 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
22.00	0.0000	0
22.50	2.6200	114127
23.00	6.7020	291939
23.50	13.3570	581831
24.00	19.0750	830907
24.50	29.7370	1295344
25.00	48.5330	2114097
25.50	58.7520	2559237
26.00	62.7910	2735176
26.50	64.6580	2816502
27.00	66.0540	2877312
27.50	66.8700	2912857
28.00	67.1030	2923007
28.50	67.1340	2924357

Comment:

Node: NPL3-D

Scenario: 2016 FWCD Update

Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 28.08 ft  
 Warning Stage: 29.08 ft

Stage [ft]	Area [ac]	Area [ft2]
23.00	0.0000	0
23.50	0.3980	17337
24.00	5.3240	231913
24.50	10.6240	462781
25.00	16.6240	724141
25.50	27.8860	1214714
26.00	37.8530	1648877
26.50	43.9920	1916292
27.00	47.3630	2063132
27.50	49.4190	2152692
28.00	51.0720	2224696
28.50	53.4570	2328587
29.00	56.6010	2465540
29.50	59.3940	2587203
30.00	61.9160	2697061
30.50	66.6870	2904886
31.00	76.1180	3315700
31.50	85.7120	3733615
32.00	107.9480	4702215
32.50	126.4820	5509556
33.00	135.3740	5896891
33.50	136.3450	5939188
34.00	136.9880	5967197
34.50	137.3050	5981006
35.00	137.7420	6000042

Comment:

Node: NPL4-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 21.58 ft  
 Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
22.00	0.0000	0
22.50	2.6540	115608
23.00	7.0750	308187
23.50	12.5850	548203
24.00	32.0710	1397013
24.50	48.2770	2102946
25.00	55.6200	2422807
25.50	59.5050	2592038
26.00	60.2300	2623619
26.50	60.7210	2645007
27.00	60.9880	2656637
27.50	61.3360	2671796
28.00	61.4050	2674802
28.50	61.4570	2677067
29.00	61.4940	2678679

Comment:

Node: NPL4-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.58 ft  
 Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
22.00	0.0000	0
22.50	1.5260	66473
23.00	13.4570	586187
23.50	23.7870	1036162
24.00	33.3630	1453292
24.50	42.6420	1857486
25.00	57.2320	2493026
25.50	70.7750	3082959
26.00	77.8990	3393280
26.50	80.1810	3492684
27.00	80.7560	3517731
27.50	81.2390	3538771
28.00	81.4510	3548006
28.50	81.5730	3553320

Comment:

Node: NPL4-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.58 ft  
 Warning Stage: 27.58 ft

Stage [ft]	Area [ac]	Area [ft2]
23.00	0.0000	0
23.50	0.6380	27791
24.00	8.4970	370129
24.50	20.5200	893851
25.00	28.3680	1235710

Stage [ft]	Area [ac]	Area [ft2]
25.50	39.1300	1704503
26.00	47.7160	2078509
26.50	52.5280	2288120
27.00	55.4190	2414052
27.50	57.8030	2517899
28.00	60.2460	2624316
28.50	62.4050	2718362
29.00	64.9530	2829353
29.50	66.9600	2916778
30.00	68.9540	3003636
30.50	71.3790	3109269
31.00	75.0520	3269265
31.50	78.9360	3438452
32.00	80.5340	3508061
32.50	81.0240	3529405
33.00	81.4340	3547265
33.50	81.5660	3553015
34.00	81.5890	3554017
34.50	81.6250	3555585

Comment:

Node: NPL4-E

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 29.08 ft  
 Warning Stage: 30.08 ft

Stage [ft]	Area [ac]	Area [ft2]
28.00	0.0000	0

Stage [ft]	Area [ac]	Area [ft2]
28.50	0.5540	24132
29.00	2.1300	92783
29.50	4.9890	217321
30.00	8.1520	355101
30.50	12.9070	562229
31.00	20.4220	889582
31.50	35.1610	1531613
32.00	58.3390	2541247
32.50	75.2600	3278326
33.00	79.1160	3446293
33.50	80.3060	3498129
34.00	80.9750	3527271
34.50	81.3230	3542430
35.00	81.7460	3560856
35.50	82.0180	3572704
36.00	82.0460	3573924

Comment:

Node: NPL5-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.08 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
21.50	0.0000	0
22.00	0.2660	11587
22.50	2.5810	112428
23.00	7.6280	332276

Stage [ft]	Area [ac]	Area [ft2]
23.50	26.8890	1171285
24.00	50.7010	2208536
24.50	56.5230	2462142
25.00	59.1270	2575572
25.50	60.3080	2627016
26.00	60.4820	2634596
26.50	60.6380	2641391
27.00	60.7470	2646139
27.50	60.9970	2657029

Comment:

Node: NPL5-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.58 ft  
 Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
22.00	0.0000	0
22.50	2.0410	88906
23.00	13.4970	587929
23.50	25.3750	1105335
24.00	36.4740	1588807
24.50	50.3670	2193987
25.00	63.3580	2759874
25.50	73.1350	3185761
26.00	78.2440	3408309
26.50	80.1450	3491116
27.00	80.8640	3522436



Stage [ft]	Area [ac]	Area [ft2]
27.50	81.2360	3538640
28.00	81.4480	3547875

Comment:

Node: NPL5-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 26.08 ft  
 Warning Stage: 27.08 ft

Stage [ft]	Area [ac]	Area [ft2]
23.00	0.0000	0
23.50	0.5840	25439
24.00	6.6420	289326
24.50	20.1540	877908
25.00	32.6090	1420448
25.50	46.4160	2021881
26.00	53.9070	2348189
26.50	58.0990	2530792
27.00	60.6550	2642132
27.50	63.4460	2763708
28.00	67.4020	2936031
28.50	70.0820	3052772
29.00	72.1770	3144030
29.50	74.1570	3230279
30.00	75.7920	3301500
30.50	77.9770	3396678
31.00	79.7820	3475304
31.50	80.6460	3512940

Stage [ft]	Area [ac]	Area [ft2]
32.00	80.8780	3523046

Comment:

Node: NPL5-E

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 29.58 ft  
 Warning Stage: 30.58 ft

Stage [ft]	Area [ac]	Area [ft2]
27.50	0.0000	0
28.00	1.0120	44083
28.50	2.6660	116131
29.00	4.2960	187134
29.50	5.7020	248379
30.00	8.1850	356539
30.50	14.3930	626959
31.00	27.0080	1176468
31.50	48.8620	2128429
32.00	71.3740	3109051
32.50	77.4810	3375072
33.00	79.6060	3467637
33.50	80.5980	3510849
34.00	80.8990	3523960
34.50	81.0720	3531496
35.00	81.1000	3532716

Comment:

Node: NPL6-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.08 ft  
 Warning Stage: 23.08 ft

Stage [ft]	Area [ac]	Area [ft2]
18.50	0.0000	0
19.00	0.1070	4661
19.50	0.2650	11543
20.00	0.4580	19950
20.50	0.6350	27661
21.00	0.8370	36460
21.50	2.0520	89385
22.00	10.7510	468314
22.50	24.6670	1074495
23.00	28.3340	1234229
23.50	29.5120	1285543
24.00	30.2210	1316427
24.50	30.3090	1320260

Comment:

Node: NPL6-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 21.08 ft  
 Warning Stage: 24.08 ft

Stage [ft]	Area [ac]	Area [ft2]
21.00	0.0000	0
21.50	0.9000	39204
22.00	1.5120	65863
22.50	7.5620	329401
23.00	17.1230	745878
23.50	37.2730	1623612
24.00	52.4840	2286203
24.50	56.2430	2449945
25.00	58.0850	2530183
25.50	58.9220	2566642
26.00	59.3270	2584284
26.50	59.7310	2601882
27.00	60.3530	2628977

Comment:

Node: NPL6-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.58 ft  
 Warning Stage: 23.58 ft

Stage [ft]	Area [ac]	Area [ft2]
22.00	0.0000	0
22.50	2.3160	100885
23.00	13.0870	570070
23.50	32.7330	1425849
24.00	53.0450	2310640
24.50	66.8110	2910287
25.00	75.0400	3268742

Stage [ft]	Area [ac]	Area [ft2]
25.50	79.1870	3449386
26.00	80.7030	3515423
26.50	81.4230	3546786
27.00	81.8020	3563295
27.50	81.8780	3566606
28.00	81.9620	3570265
28.50	82.0260	3573053

Comment:

Node: NPL6-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.08 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
22.50	0.0000	0
23.00	0.0570	2483
23.50	4.4950	195802
24.00	19.6830	857391
24.50	37.7820	1645784
25.00	51.1310	2227266
25.50	59.7860	2604278
26.00	65.7870	2865682
26.50	69.9970	3049069
27.00	73.1150	3184889
27.50	74.8430	3260161
28.00	76.7970	3345277
28.50	78.3290	3412011

Stage [ft]	Area [ac]	Area [ft2]
29.00	79.9420	3482274
29.50	81.0090	3528752
30.00	81.3380	3543083
30.50	81.4070	3546089
31.00	81.4330	3547221
31.50	81.4450	3547744

Comment:

Node: NPL6-E

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 29.08 ft  
 Warning Stage: 30.08 ft

Stage [ft]	Area [ac]	Area [ft2]
27.00	0.0000	0
27.50	0.3350	14593
28.00	1.7510	76274
28.50	3.2310	140742
29.00	4.8850	212791
29.50	8.2770	360546
30.00	12.6830	552471
30.50	17.8710	778461
31.00	27.9770	1218678
31.50	39.7050	1729550
32.00	56.1600	2446330
32.50	70.0160	3049897
33.00	76.7050	3341270
33.50	78.7310	3429522

Stage [ft]	Area [ac]	Area [ft2]
34.00	79.6490	3469510
34.50	80.0690	3487806
35.00	80.2980	3497781
35.50	80.4770	3505578
36.00	80.5350	3508105

Comment:

Node: NPL7-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.08 ft  
 Warning Stage: 23.08 ft

Stage [ft]	Area [ac]	Area [ft2]
16.00	0.0000	0
16.50	0.0270	1176
17.00	0.2590	11282
17.50	0.7750	33759
18.00	1.0380	45215
18.50	1.2890	56149
19.00	1.5880	69173
19.50	2.1430	93349
20.00	2.5580	111426
20.50	3.4070	148409
21.00	9.3420	406938
21.50	24.3450	1060468
22.00	41.5130	1808306
22.50	52.1430	2271349
23.00	58.5430	2550133

Stage [ft]	Area [ac]	Area [ft2]
23.50	59.8260	2606021
24.00	60.7350	2645617
24.50	61.1270	2662692
25.00	61.3520	2672493
25.50	61.6570	2685779
26.00	61.8660	2694883

Comment:

Node: NPL7-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.58 ft  
 Warning Stage: 23.58 ft

Stage [ft]	Area [ac]	Area [ft2]
20.50	0.0000	0
21.00	0.3960	17250
21.50	1.2020	52359
22.00	10.5470	459427
22.50	30.4060	1324485
23.00	49.7600	2167546
23.50	57.2050	2491850
24.00	59.0220	2570998
24.50	59.7380	2602187
25.00	60.1210	2618871
25.50	60.2870	2626102
26.00	60.4070	2631329
26.50	60.6280	2640956
27.00	60.8520	2650713



Stage [ft]	Area [ac]	Area [ft2]
27.50	60.8600	2651062
28.00	60.8670	2651367
28.50	60.8740	2651671
29.00	60.8940	2652543
29.50	60.8980	2652717
30.00	60.9030	2652935
30.50	60.9130	2653370
31.00	60.9160	2653501
31.50	60.9360	2654372

Comment:

Node: NPL7-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.08 ft  
 Warning Stage: 24.08 ft

Stage [ft]	Area [ac]	Area [ft2]
21.50	0.0000	0
22.00	0.3100	13504
22.50	3.4520	150369
23.00	13.7430	598645
23.50	40.3090	1755860
24.00	55.8850	2434351
24.50	69.4250	3024153
25.00	75.5380	3290435
25.50	79.3390	3456007
26.00	81.2330	3538509
26.50	81.9170	3568305

Stage [ft]	Area [ac]	Area [ft2]
27.00	82.0500	3574098
27.50	82.1360	3577844

Comment:

Node: NPL7-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.58 ft  
 Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
22.50	0.0000	0
23.00	1.6300	71003
23.50	11.8040	514182
24.00	37.4850	1632847
24.50	49.1670	2141715
25.00	60.9480	2654895
25.50	70.0340	3050681
26.00	75.4630	3287168
26.50	77.8680	3391930
27.00	79.5400	3464762
27.50	80.6950	3515074
28.00	81.4150	3546437
28.50	81.6720	3557632
29.00	81.7980	3563121

Comment:

Node: NPL7-E

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 28.58 ft  
 Warning Stage: 29.58 ft

Stage [ft]	Area [ac]	Area [ft2]
25.50	0.0000	0
26.00	0.3410	14854
26.50	1.4380	62639
27.00	2.6930	117307
27.50	4.1300	179903
28.00	6.4040	278958
28.50	8.5950	374398
29.00	11.9080	518712
29.50	16.4610	717041
30.00	23.4260	1020437
30.50	31.0830	1353975
31.00	41.0920	1789968
31.50	51.3490	2236762
32.00	62.9890	2743801
32.50	73.9860	3222830
33.00	79.2400	3451694
33.50	79.9320	3481838
34.00	80.1800	3492641
34.50	80.3680	3500830

Comment:

Node: NPL8-A

Scenario: 2016 FWCD Update

Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.58 ft  
 Warning Stage: 22.58 ft

Stage [ft]	Area [ac]	Area [ft2]
17.50	0.0000	0
18.00	1.0290	44823
18.50	1.5070	65645
19.00	1.7930	78103
19.50	2.0880	90953
20.00	2.6160	113953
20.50	3.1970	139261
21.00	7.4170	323085
21.50	25.0810	1092528
22.00	44.5030	1938551
22.50	56.7890	2473729
23.00	59.9150	2609897
23.50	61.0000	2657160
24.00	61.1210	2662431
24.50	61.2270	2667048

Comment:

Node: NPL8-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.08 ft  
 Warning Stage: 24.08 ft

Stage [ft]	Area [ac]	Area [ft2]
21.00	0.0000	0
21.50	2.3660	103063
22.00	5.3490	233002
22.50	20.7410	903478
23.00	39.6930	1729027
23.50	46.8500	2040786
24.00	51.2750	2233539
24.50	55.3740	2412091
25.00	58.1530	2533145
25.50	59.6730	2599356
26.00	60.1400	2619698
26.50	60.2600	2624926
27.00	60.2780	2625710

Comment:

Node: NPL8-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.58 ft  
 Warning Stage: 23.58 ft

Stage [ft]	Area [ac]	Area [ft2]
21.50	0.0000	0
22.00	3.7630	163916
22.50	11.0640	481948
23.00	37.9300	1652231
23.50	62.1390	2706775
24.00	70.5450	3072940
24.50	75.7200	3298363

Stage [ft]	Area [ac]	Area [ft2]
25.00	78.5710	3422553
25.50	79.9550	3482840
26.00	80.3530	3500177
26.50	80.4360	3503792
27.00	80.4990	3506536
27.50	80.5890	3510457
28.00	80.6070	3511241

Comment:

Node: NPL8-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.58 ft  
 Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
22.50	0.0000	0
23.00	0.5990	26092
23.50	5.0950	221938
24.00	25.6870	1118926
24.50	46.8820	2042180
25.00	61.3330	2671665
25.50	72.3890	3153265
26.00	77.9100	3393760
26.50	79.8620	3478789
27.00	81.0910	3532324
27.50	81.5980	3554409
28.00	81.7540	3561204
28.50	81.8130	3563774

Comment:

Node: NPL8-E

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.00 ft  
 Warning Stage: 28.08 ft

Stage [ft]	Area [ac]	Area [ft2]
23.00	0.0000	0
23.50	0.8810	38376
24.00	3.6870	160606
24.50	9.5600	416434
25.00	15.0580	655926
25.50	20.4070	888929
26.00	26.4980	1154253
26.50	32.5580	1418226
27.00	40.3940	1759563
27.50	51.5470	2245387
28.00	58.7320	2558366
28.50	63.8100	2779564
29.00	68.5410	2985646
29.50	71.9720	3135100
30.00	74.9570	3265127
30.50	77.2860	3366578
31.00	79.7290	3472995
31.50	81.5630	3552884
32.00	82.0940	3576015
32.50	82.1590	3578846

Comment:

Node: NPL9-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.08 ft  
 Warning Stage: 22.08 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0000	0
19.50	0.0380	1655
20.00	0.5980	26049
20.50	1.2840	55931
21.00	4.8650	211919
21.50	21.1960	923298
22.00	43.6260	1900349
22.50	55.4920	2417232
23.00	59.7110	2601011
23.50	61.0150	2657813
24.00	61.6060	2683557
24.50	62.0940	2704815
25.00	62.2420	2711262

Comment:

Node: NPL9-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs



Initial Stage: 19.08 ft  
 Warning Stage: 24.08 ft

Stage [ft]	Area [ac]	Area [ft2]
20.50	0.0000	0
21.00	0.5490	23914
21.50	2.1100	91912
22.00	4.8300	210395
22.50	18.4930	805555
23.00	43.8820	1911500
23.50	55.0690	2398806
24.00	58.4720	2547040
24.50	59.6970	2600401
25.00	60.3170	2627409
25.50	60.4640	2633812
26.00	60.6410	2641522
26.50	60.9070	2653109

Comment:

Node: NPL9-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.58 ft  
 Warning Stage: 23.58 ft

Stage [ft]	Area [ac]	Area [ft2]
21.00	0.0000	0
21.50	0.1310	5706
22.00	0.8780	38246
22.50	3.4660	150979

Stage [ft]	Area [ac]	Area [ft2]
23.00	22.4070	976049
23.50	54.9090	2391836
24.00	69.4130	3023630
24.50	75.8780	3305246
25.00	79.5920	3467028
25.50	80.8090	3520040
26.00	81.4060	3546045
26.50	81.6470	3556543
27.00	81.7620	3561553
27.50	81.9660	3570439

Comment:

Node: NPL9-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.08 ft  
 Warning Stage: 24.08 ft

Stage [ft]	Area [ac]	Area [ft2]
22.00	0.0000	0
22.50	0.0840	3659
23.00	3.8620	168229
23.50	13.5230	589062
24.00	53.3210	2322663
24.50	69.1980	3014265
25.00	76.6050	3336914
25.50	80.4670	3505143
26.00	82.3990	3589300
26.50	83.2280	3625412

Stage [ft]	Area [ac]	Area [ft2]
27.00	83.5260	3638393
27.50	83.5730	3640440
28.00	83.6200	3642487

Comment:

Node: NPL9-E

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.50 ft  
 Warning Stage: 26.58 ft

Stage [ft]	Area [ac]	Area [ft2]
22.50	0.0000	0
23.00	0.0010	44
23.50	2.1550	93872
24.00	8.6190	375444
24.50	23.7300	1033679
25.00	34.5730	1506000
25.50	45.4550	1980020
26.00	53.5900	2334380
26.50	61.5620	2681641
27.00	70.1570	3056039
27.50	75.6220	3294094
28.00	79.2870	3453742
28.50	80.9270	3525180
29.00	81.9950	3571702
29.50	82.4700	3592393
30.00	82.7500	3604590
30.50	82.8560	3609207

Stage [ft]	Area [ac]	Area [ft2]
31.00	82.9310	3612474
31.50	82.9460	3613128

Comment:

Node: NS1

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.58 ft  
 Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0001	4
26.00	0.0001	5

Comment:

Node: NS10

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.08 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
21.50	0.0001	4
26.50	0.0001	5

Comment:

Node: NS10A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.58 ft  
 Warning Stage: 27.08 ft

Stage [ft]	Area [ac]	Area [ft2]
20.80	0.0001	4
26.50	0.0001	5

Comment:

Node: NS10N

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 21.98 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.1500	6534
19.50	0.1670	7275
20.00	0.1890	8233
20.50	0.2150	9365
21.00	0.2440	10629
21.50	0.2780	12110
22.00	0.8550	37244

Stage [ft]	Area [ac]	Area [ft2]
22.50	2.2090	96224
23.00	3.4270	149280
23.50	6.2750	273339
24.00	8.0680	351442
24.50	8.7850	382675
25.00	9.2010	400796
25.50	9.2920	404760
26.00	9.5370	415432
26.50	9.9980	435513
27.00	10.1880	443789
27.50	10.3190	449496
28.00	10.5470	459427
28.50	10.5730	460560

Comment:

Node: NS11

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.38 ft  
 Warning Stage: 26.08 ft

Stage [ft]	Area [ac]	Area [ft2]
21.80	0.0001	4
26.50	0.0001	5

Comment:

Node: NS12

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.83 ft  
 Warning Stage: 26.58 ft

Stage [ft]	Area [ac]	Area [ft2]
21.25	0.0001	4
26.50	0.0001	5

Comment:

Node: NS13

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 21.08 ft  
 Warning Stage: 27.08 ft

Stage [ft]	Area [ac]	Area [ft2]
23.00	0.0000	0
23.50	0.0430	1873
24.00	11.9390	520063
24.50	23.3070	1015253
25.00	29.3040	1276482
25.50	32.6840	1423715
26.00	35.1510	1531178
26.50	36.1350	1574041
27.00	37.5410	1635286
27.50	39.0410	1700626
28.00	41.1840	1793975

Stage [ft]	Area [ac]	Area [ft2]
28.50	41.9770	1828518

Comment:

Node: NS14

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.08 ft  
 Warning Stage: 27.58 ft

Stage [ft]	Area [ac]	Area [ft2]
23.50	0.0001	4
27.50	0.0001	5

Comment:

Node: NS15

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.08 ft  
 Warning Stage: 27.58 ft

Stage [ft]	Area [ac]	Area [ft2]
22.50	0.0000	0
23.00	0.3380	14723
23.50	1.6210	70611
24.00	16.6220	724054



Stage [ft]	Area [ac]	Area [ft2]
24.50	38.9330	1695921
25.00	47.5630	2071844
25.50	53.7430	2341045
26.00	58.4650	2546735
26.50	61.2740	2669095
27.00	63.0810	2747808
27.50	64.0640	2790628
28.00	64.6900	2817896
28.50	64.8740	2825911
29.00	64.9570	2829527
29.50	65.0180	2832184

Comment:

Node: NS1N

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 21.98 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
23.00	0.0090	392
23.50	0.2000	8712
24.00	1.0370	45172
24.50	1.5930	69391
25.00	1.9840	86423
25.50	2.0560	89559
26.00	2.0980	91389

Comment:

Node: NS1S

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.38 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
22.00	0.0000	0
22.50	0.0090	392
23.00	0.0460	2004
23.50	0.2030	8843
24.00	0.5410	23566
24.50	0.7750	33759
25.00	0.8540	37200
25.50	1.0380	45215

Comment:

Node: NS2

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.58 ft  
 Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
19.10	0.0001	4
26.00	0.0001	5

Comment:

Node: NS2N

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.98 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
23.00	0.0100	436
23.50	0.1600	6970
24.00	0.3490	15202
24.50	0.4110	17903
25.00	0.4260	18557
25.50	0.4280	18644
26.00	0.4280	18644

Comment:

Node: NS2S

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.98 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
22.00	0.0020	87
22.50	0.0100	436
23.00	0.0240	1045
23.50	0.2110	9191
24.00	0.5720	24916
24.50	0.8760	38159

Stage [ft]	Area [ac]	Area [ft2]
25.00	0.9430	41077
25.50	0.9910	43168
26.00	1.0880	47393
26.50	1.1600	50530

Comment:

Node: NS3

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.58 ft  
 Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
19.20	0.0001	4
26.00	0.0001	5

Comment:

Node: NS3N

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 21.98 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
23.50	0.5740	25003

Stage [ft]	Area [ac]	Area [ft2]
24.00	1.4360	62552
24.50	1.9800	86249
25.00	2.1260	92609
25.50	2.1690	94482
26.00	2.3230	101190

Comment:

Node: NS3S

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.18 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
22.50	0.0000	0
23.00	0.0420	1830
23.50	0.1730	7536
24.00	0.3110	13547
24.50	0.5920	25788
25.00	0.6010	26180
25.50	0.6070	26441
26.00	0.6190	26964
26.50	0.6290	27399

Comment:

Node: NS4

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.58 ft  
 Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
19.30	0.0001	4
26.00	0.0001	5

Comment:

Node: NS4N

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 21.68 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
23.00	0.0160	697
23.50	0.1550	6752
24.00	0.2340	10193
24.50	0.2680	11674

Comment:

Node: NS4S

Scenario: 2016 FWCD Update  
 Type: Stage/Area

Base Flow: 0.00 cfs  
 Initial Stage: 22.88 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
23.00	0.0270	1176
23.50	0.2250	9801
24.00	0.5800	25265
24.50	0.6460	28140

Comment:

Node: NS5

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.58 ft  
 Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
19.30	0.0001	4
26.00	0.0001	5

Comment:

Node: NS5N

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.88 ft

Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
23.00	0.0090	392
23.50	0.3250	14157
24.00	1.3520	58893
24.50	2.1670	94395
25.00	2.4900	108464
25.50	2.5460	110904

Comment:

Node: NS5S

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.88 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
23.00	0.1010	4400
23.50	0.3920	17076
24.00	0.6290	27399
24.50	0.7030	30623

Comment:

Node: NS6

Scenario: 2016 FWCD Update  
 Type: Stage/Area



Base Flow: 0.00 cfs  
 Initial Stage: 19.58 ft  
 Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
19.40	0.0001	4
26.00	0.0001	5

Comment:

Node: NS6N

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 21.58 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
22.00	0.0000	0
22.50	0.0010	44
23.00	0.0560	2439
23.50	0.7070	30797
24.00	1.7190	74880
24.50	2.5360	110468
25.00	2.6510	115478
25.50	2.7020	117699
26.00	2.7840	121271

Comment:

Node: NS6S

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.98 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
22.50	0.0000	0
23.00	0.0280	1220
23.50	0.1780	7754
24.00	0.5400	23522
24.50	0.6100	26572
25.00	0.6850	29839
25.50	0.7100	30928

Comment:

Node: NS7S

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.08 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
23.00	0.0760	3311
23.50	0.5470	23827
24.00	1.0500	45738
24.50	1.1450	49876

Comment:

Node: NS8S

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.08 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
22.50	0.0020	87
23.00	0.0540	2352
23.50	0.2920	12720
24.00	0.6460	28140
24.50	0.6630	28880

Comment:

Node: NSDIV

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.58 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
17.50	0.0001	4
26.00	0.0001	5

Comment: (converted from manhole to stage/area node)

Node: NSDIVOUT

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.58 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
17.50	0.0001	4
26.00	0.0001	5

Comment: (converted from manhole to stage/area node)

Node: NSL1

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.83 ft  
 Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
18.50	0.0001	4
26.00	0.0001	5

Comment: (converted from manhole to stage/area node)

Node: NSL2

Scenario: 2016 FWCD Update

Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.83 ft  
 Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0001	4
26.00	0.0001	5

Comment: (converted from manhole to stage/area node)

Node: NSL3

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.83 ft  
 Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
19.50	0.0001	4
26.00	0.0001	5

Comment: (converted from manhole to stage/area node)

Node: NSL4

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs

Initial Stage: 19.83 ft  
Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
17.50	0.0001	4
26.00	0.0001	5

Comment: (converted from manhole to stage/area node)

Node: NSL5

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.83 ft  
Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	0.0001	4
26.00	0.0001	5

Comment: (converted from manhole to stage/area node)

Node: NSL6

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.83 ft  
Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
18.00	0.0001	4
26.00	0.0001	5

Comment: (converted from manhole to stage/area node)

Node: NSL7

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 21.38 ft  
 Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
21.80	0.0001	4
26.00	0.0001	5

Comment: (converted from manhole to stage/area node)

Node: NSL8

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 21.58 ft  
 Warning Stage: 24.58 ft

Stage [ft]	Area [ac]	Area [ft2]
22.00	0.0001	4
26.00	0.0001	5

Comment: (converted from manhole to stage/area node)

Node: NU-10

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 11.08 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NU-100

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 11.38 ft  
 Warning Stage: 31.58 ft

Comment:



Node: NU-10A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 15.58 ft  
 Warning Stage: 22.58 ft

Stage [ft]	Area [ac]	Area [ft2]
18.00	0.0000	0
18.50	0.3000	13068
19.00	3.9080	170232
19.50	10.5650	460211
20.00	23.0550	1004276
20.50	39.9960	1742226
21.00	62.4300	2719451
21.50	80.5420	3508410
22.00	85.0380	3704255
22.50	86.3240	3760273
23.00	86.9930	3789415
23.50	87.3770	3806142
24.00	87.4770	3810498
24.50	87.4910	3811108

Comment:

Node: NU-10S

Scenario: 2016 FWCD Update  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 26.58 ft  
 Warning Stage: 26.58 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	28.00
0	0	0	120.0000	28.00

Comment:

Node: NU-110

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 11.38 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NU-110S

Scenario: 2016 FWCD Update  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 26.58 ft  
 Warning Stage: 26.58 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	28.00
0	0	0	120.0000	28.00

Comment:

Node: NU-120

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 11.38 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NU-130

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 11.38 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NU-130S

Scenario: 2016 FWCD Update  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 26.58 ft  
 Warning Stage: 26.58 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	28.00

Year	Month	Day	Hour	Stage [ft]
0	0	0	120.0000	28.00

Comment:

Node: NU-140

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 11.38 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NU-150

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 11.38 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NU-150S

Scenario: 2016 FWCD Update

Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 26.58 ft  
 Warning Stage: 26.58 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	28.00
0	0	0	120.0000	28.00

Comment:

Node: NU-160

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 11.48 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NU-170

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 11.48 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NU-170S

Scenario: 2016 FWCD Update  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 26.58 ft  
 Warning Stage: 26.58 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	28.00
0	0	0	120.0000	28.00

Comment:

Node: NU-180

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 11.48 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NU-190

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 11.48 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NU-190S

Scenario: 2016 FWCD Update  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 26.58 ft  
 Warning Stage: 26.58 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	28.00
0	0	0	120.0000	28.00

Comment:

Node: NU-20

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 11.18 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NU-200

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 11.48 ft  
Warning Stage: 31.58 ft

Comment:

Node: NU-205

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 13.50 ft  
Warning Stage: 30.00 ft

Comment:

Node: NU-20A

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs



Initial Stage: 15.58 ft  
 Warning Stage: 22.58 ft

Stage [ft]	Area [ac]	Area [ft2]
18.00	0.0000	0
18.50	1.3590	59198
19.00	6.3810	277956
19.50	15.3380	668123
20.00	30.6510	1335158
20.50	49.7480	2167023
21.00	67.5320	2941694
21.50	73.4430	3199177
22.00	74.5940	3249315
22.50	74.7450	3255892
23.00	74.9550	3265040
23.50	74.9840	3266303

Comment:

Node: NU-20B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 15.58 ft  
 Warning Stage: 25.58 ft

Comment:

Node: NU-20M1

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 17.58 ft  
 Warning Stage: 22.58 ft

Stage [ft]	Area [ac]	Area [ft2]
17.00	0.0780	3398
17.50	0.9080	39552
18.00	3.7740	164395
18.50	7.8560	342207
19.00	9.2770	404106
19.50	10.0770	438954
20.00	10.3580	451194
20.50	10.4860	456770
21.00	10.5700	460429
21.50	10.6020	461823
22.00	10.6410	463522
22.50	10.6710	464829

Comment:

Node: NU-20M2

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 17.58 ft  
 Warning Stage: 22.58 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	0.0000	0
17.00	0.2960	12894

Stage [ft]	Area [ac]	Area [ft2]
17.50	0.8580	37374
18.00	1.5930	69391
18.50	2.8220	122926
19.00	3.6090	157208
19.50	3.9960	174066
20.00	4.2720	186088
20.50	4.5700	199069
21.00	4.8080	209436
21.50	4.8200	209959

Comment:

Node: NU-210S

Scenario: 2016 FWCD Update  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 26.58 ft  
 Warning Stage: 26.58 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	28.00
0	0	0	120.0000	28.00

Comment:

Node: NU-230

Scenario: 2016 FWCD Update  
 Type: Stage/Area

Base Flow: 0.00 cfs  
Initial Stage: 13.50 ft  
Warning Stage: 30.00 ft

Comment:

Node: NU-235

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 13.50 ft  
Warning Stage: 30.00 ft

Comment:

Node: NU-30

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 11.18 ft  
Warning Stage: 31.58 ft

Comment:

Node: NU-30A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 14.58 ft  
 Warning Stage: 22.58 ft

Stage [ft]	Area [ac]	Area [ft2]
17.50	0.0000	0
18.00	0.7630	33236
18.50	7.6480	333147
19.00	17.8110	775847
19.50	32.7930	1428463
20.00	53.9440	2349801
20.50	64.8960	2826870
21.00	66.3450	2889988
21.50	67.0190	2919348
22.00	67.4200	2936815
22.50	67.4980	2940213
23.00	67.4980	2940213

Comment:

Node: NU-30S

Scenario: 2016 FWCD Update  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 26.58 ft  
 Warning Stage: 26.58 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	28.00
0	0	0	120.0000	28.00

Comment:

Node: NU-40

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 11.28 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NU-40A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 14.58 ft  
 Warning Stage: 22.58 ft

Stage [ft]	Area [ac]	Area [ft2]
14.50	0.0000	0
17.00	0.0000	0
17.50	0.6770	29490
18.00	4.7800	208217
18.50	12.9700	564973
19.00	23.9820	1044656

Stage [ft]	Area [ac]	Area [ft2]
19.50	44.6450	1944736
20.00	63.6210	2771331
20.50	66.8430	2911681
21.00	67.7110	2949491
21.50	68.1700	2969485
22.00	68.2320	2972186
22.50	68.2810	2974320
23.00	68.3240	2976193
23.50	68.3560	2977587
24.00	68.3760	2978459
24.50	68.3910	2979112
25.00	68.4040	2979678
25.50	68.4270	2980680

Comment:

Node: NU-50

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 11.28 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NU-50A

Scenario: 2016 FWCD Update  
 Type: Stage/Area

Base Flow: 0.00 cfs  
 Initial Stage: 14.58 ft  
 Warning Stage: 22.58 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	0.0000	0
17.00	0.2410	10498
17.50	2.0970	91345
18.00	6.9030	300695
18.50	15.6740	682759
19.00	30.8710	1344741
19.50	51.8900	2260328
20.00	64.3490	2803042
20.50	67.1470	2924923
21.00	67.7380	2950667
21.50	67.8880	2957201

Comment:

Node: NU-50S

Scenario: 2016 FWCD Update  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 26.58 ft  
 Warning Stage: 26.58 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	28.00
0	0	0	120.0000	28.00

Comment:



Node: NU-60

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 11.28 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NU-60A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 13.58 ft  
 Warning Stage: 21.58 ft

Stage [ft]	Area [ac]	Area [ft2]
15.50	0.0000	0
16.00	0.1430	6229
16.50	2.5970	113125
17.00	6.6240	288541
17.50	12.8010	557612
18.00	22.6680	987418
18.50	36.1210	1573431
19.00	47.6600	2076070
19.50	59.5440	2593737
20.00	66.7750	2908719
20.50	67.7350	2950537

Comment:

Node: NU-70

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 11.33 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NU-70A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 13.58 ft  
 Warning Stage: 22.58 ft

Stage [ft]	Area [ac]	Area [ft2]
14.50	0.0000	0
15.00	0.0150	653
15.50	0.2740	11935
16.00	0.8360	36416
16.50	2.6730	116436
17.00	6.3570	276911
17.50	12.5020	544587
18.00	21.2690	926478
18.50	32.4130	1411910
19.00	45.1600	1967170
19.50	53.5950	2334598
20.00	60.2050	2622530
20.50	65.5040	2853354
21.00	67.7570	2951495

Stage [ft]	Area [ac]	Area [ft2]
21.50	68.1450	2968396

Comment:

Node: NU-70S

Scenario: 2016 FWCD Update  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 26.58 ft  
 Warning Stage: 26.58 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	28.00
0	0	0	120.0000	28.00

Comment:

Node: NU-80

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 11.33 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NU-80A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 13.58 ft  
 Warning Stage: 22.58 ft

Stage [ft]	Area [ac]	Area [ft2]
12.50	0.0620	2701
13.00	0.0740	3223
13.50	0.0870	3790
14.00	0.1090	4748
14.50	0.4420	19254
15.00	0.9870	42994
15.50	1.2350	53797
16.00	1.5660	68215
16.50	2.0510	89342
17.00	2.9860	130070
17.50	4.3990	191620
18.00	7.6090	331448
18.50	22.8960	997350
19.00	54.4810	2373192
19.50	70.1310	3054906
20.00	75.5950	3292918
20.50	77.0520	3356385
21.00	77.7850	3388315
21.50	78.0560	3400119
22.00	78.2730	3409572
22.50	78.4660	3417979
23.00	78.7520	3430437
23.50	78.9540	3439236
24.00	79.0370	3442852
24.50	79.2220	3450910
25.00	79.3370	3455920
25.50	79.4750	3461931

Comment:

Node: NU-90

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 11.38 ft  
 Warning Stage: 31.58 ft

Comment:

Node: NU-90S

Scenario: 2016 FWCD Update  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 26.58 ft  
 Warning Stage: 26.58 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	28.00
0	0	0	120.0000	28.00

Comment:

Node: NU-FJV-BWPOND1

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 17.50 ft  
 Warning Stage: 21.71 ft

Stage [ft]	Area [ac]	Area [ft2]
17.50	0.8060	35109
20.75	1.0300	44867
21.50	1.0840	47219
21.70	1.0990	47872

Comment:

Node: NU-FJV-BWPOND2

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 17.50 ft  
 Warning Stage: 21.71 ft

Stage [ft]	Area [ac]	Area [ft2]
17.50	0.8150	35501
20.75	1.1200	48787
21.50	1.1500	50094
21.70	1.2790	55713

Comment:

Node: NU-FJV-BWSWALE

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 17.50 ft  
 Warning Stage: 21.71 ft

Stage [ft]	Area [ac]	Area [ft2]
20.50	0.0000	0
21.25	0.0330	1437
22.00	0.0690	3006

Comment:

Node: NU-FJV-FOADRYA

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.30 ft  
 Warning Stage: 23.50 ft

Stage [ft]	Area [ac]	Area [ft2]
19.30	3.4000	148104
19.80	3.7000	161172
20.30	4.0100	174676
20.80	4.3200	188179
21.30	4.6300	201683
21.80	4.7500	206910
22.30	4.7500	206910
22.80	4.7500	206910
23.30	4.7500	206910
23.80	4.7500	206910

Stage [ft]	Area [ac]	Area [ft2]
24.30	4.7500	206910

Comment:

Node: NU-FJV-FOADRYB

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.30 ft  
 Warning Stage: 23.50 ft

Stage [ft]	Area [ac]	Area [ft2]
19.30	11.1400	485258
19.80	11.5800	504425
20.30	12.0200	523591
20.80	12.4700	543193
21.30	12.9200	562795
21.80	13.0900	570200
22.30	13.0900	570200
22.80	13.0900	570200
23.30	13.0900	570200
23.80	13.0900	570200
24.30	13.0900	570200

Comment:

Node: NU-FJV-FOAWETA

Scenario: 2016 FWCD Update  
 Type: Stage/Area



Base Flow: 0.00 cfs  
 Initial Stage: 18.30 ft  
 Warning Stage: 23.50 ft

Stage [ft]	Area [ac]	Area [ft2]
18.30	1.9900	86684
18.80	2.0600	89734
19.30	2.1300	92783
19.80	2.2100	96268
20.30	2.2900	99752
20.80	2.3700	103237
21.30	2.4400	106286
21.80	2.4800	108029
22.30	2.4800	108029
22.80	2.4800	108029
23.30	2.4800	108029

Comment:

Node: NU-FJV-FOAWETB

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 18.30 ft  
 Warning Stage: 23.50 ft

Stage [ft]	Area [ac]	Area [ft2]
18.30	3.5900	156380
18.80	3.7700	164221
19.30	3.9700	172933
19.80	4.1600	181210
20.30	4.3500	189486

Stage [ft]	Area [ac]	Area [ft2]
20.80	4.5500	198198
21.30	4.7400	206474
21.80	4.8200	209959
22.30	4.8200	209959
22.80	4.8200	209959
23.30	4.8200	209959
23.80	4.8200	209959
24.30	4.8200	209959

Comment:

Node: NU-FJVN

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 18.50 ft  
 Warning Stage: 30.00 ft

Stage [ft]	Area [ac]	Area [ft2]
17.00	0.0000	0
17.50	0.8370	36460
18.00	1.5450	67300
18.50	6.9450	302524
19.00	9.5010	413864
19.50	44.3950	1933846
20.00	85.2870	3715102
20.50	358.3280	15608768
21.00	430.2190	18740340
21.50	641.5580	27946266
22.00	674.2000	29368152
22.50	770.6540	33569688

Stage [ft]	Area [ac]	Area [ft2]
23.00	776.7260	33834185
23.50	794.5570	34610903
24.00	796.6000	34699896
24.50	803.4380	34997759
25.00	804.4250	35040753
25.50	807.8700	35190817
26.00	808.2510	35207414
26.50	810.2510	35294534
27.00	810.3530	35298977
27.50	810.4640	35303812
28.00	810.5580	35307906
28.50	810.6820	35313308
29.00	810.7620	35316793
29.50	811.1040	35331690
30.00	811.1240	35332561
30.50	811.2660	35338747

Comment:

Node: NU-FJVS

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 16.50 ft  
 Warning Stage: 30.00 ft

Stage [ft]	Area [ac]	Area [ft2]
13.50	3.5600	155074
14.00	3.8910	169492
14.50	4.2230	183954
15.00	4.4230	192666

Stage [ft]	Area [ac]	Area [ft2]
15.50	5.1360	223724
16.00	5.4960	239406
16.50	14.2010	618596
17.00	15.2740	665335
17.50	18.6740	813439
18.00	20.1030	875687
18.50	24.7650	1078763
19.00	26.9600	1174378
19.50	52.1420	2271306
20.00	88.1380	3839291
20.50	392.6050	17101874
21.00	516.5440	22500657
21.50	987.1630	43000820
22.00	1045.0960	45524382
22.50	1138.1040	49575810
23.00	1145.5650	49900811
23.50	1159.8960	50525070
24.00	1162.5930	50642551
24.50	1168.0410	50879866
25.00	1168.6100	50904652
25.50	1169.4350	50940589
26.00	1169.5810	50946948
26.50	1169.7090	50952524
27.00	1169.8080	50956836
27.50	1169.9960	50965026
28.00	1170.0620	50967901
28.50	1170.1420	50971386
29.00	1170.1700	50972605
29.50	1170.2110	50974391
30.00	1170.2110	50974391
30.50	1170.2110	50974391

Comment:

Node: NU09-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 18.58 ft  
 Warning Stage: 19.58 ft

Stage [ft]	Area [ac]	Area [ft2]
16.00	0.0000	0
16.50	0.4050	17642
17.00	1.8560	80847
17.50	4.1780	181994
18.00	14.3880	626741
18.50	41.3340	1800509
19.00	57.5160	2505397
19.50	60.4780	2634422
20.00	61.3710	2673321
20.50	62.0210	2701635
21.00	62.6300	2728163
21.50	62.9030	2740055
22.00	63.1240	2749681

Comment:

Node: NU09-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 18.58 ft  
 Warning Stage: 19.58 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	0.0000	0
17.00	0.6140	26746
17.50	2.3570	102671
18.00	4.0480	176331
18.50	10.9550	477200
19.00	40.6390	1770235
19.50	59.5600	2594434
20.00	61.6130	2683862
20.50	63.1870	2752426
21.00	63.8540	2781480
21.50	64.1510	2794418
22.00	64.3160	2801605
22.50	64.4640	2808052
23.00	64.7810	2821860
23.50	65.0650	2834231

Comment:

Node: NU09-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.08 ft  
 Warning Stage: 20.08 ft

Stage [ft]	Area [ac]	Area [ft2]
17.00	0.0000	0
17.50	0.0510	2222
18.00	0.8440	36765
18.50	2.3840	103847
19.00	13.1520	572901

Stage [ft]	Area [ac]	Area [ft2]
19.50	47.8760	2085479
20.00	60.7820	2647664
20.50	62.8540	2737920
21.00	63.8400	2780870
21.50	64.0310	2789190
22.00	64.1690	2795202
22.50	64.2850	2800255
23.00	64.3980	2805177
23.50	64.5070	2809925
24.00	64.6060	2814237
24.50	65.0620	2834101

Comment:

Node: NU09-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 15.58 ft  
 Warning Stage: 20.58 ft

Stage [ft]	Area [ac]	Area [ft2]
18.50	0.0000	0
19.00	1.6360	71264
19.50	6.7990	296164
20.00	26.8490	1169542
20.50	44.2700	1928401
21.00	56.2400	2449814
21.50	59.5510	2594042
22.00	60.9720	2655940
22.50	62.2800	2712917

Stage [ft]	Area [ac]	Area [ft2]
23.00	62.9730	2743104
23.50	63.3670	2760267
24.00	63.8140	2779738
24.50	63.9620	2786185
25.00	64.0090	2788232

Comment:

Node: NU09A01

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 11.38 ft  
 Warning Stage: 19.58 ft

Comment:

Node: NU09A03

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 11.71 ft  
 Warning Stage: 19.58 ft

Comment:



Node: NU09A05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 13.49 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU09A09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 13.71 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU09A13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 13.98 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU09B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.25 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU09B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.52 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU09B10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.79 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU09C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.06 ft  
Warning Stage: 20.08 ft

Comment:

Node: NU09C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.33 ft  
Warning Stage: 20.08 ft

Comment:

Node: NU09C09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.33 ft  
Warning Stage: 20.08 ft

Comment:

Node: NU09C11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.57 ft  
Warning Stage: 20.08 ft

Comment:

Node: NU09D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.95 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU09D05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.28 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU10-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 18.08 ft  
 Warning Stage: 19.08 ft

Stage [ft]	Area [ac]	Area [ft2]
15.50	0.0000	0
16.00	0.0460	2004
16.50	2.0700	90169
17.00	4.5390	197719
17.50	10.8550	472844
18.00	30.6300	1334243
18.50	51.6380	2249351
19.00	60.0210	2614515
19.50	60.8860	2652194
20.00	61.5510	2681162
20.50	62.1040	2705250
21.00	62.4310	2719494
21.50	62.6290	2728119
22.00	62.8150	2736221
22.50	62.8410	2737354
23.00	62.8730	2738748
23.50	62.8850	2739271
24.00	62.8900	2739488

Comment:

Node: NU10-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area

Base Flow: 0.00 cfs  
 Initial Stage: 18.58 ft  
 Warning Stage: 19.58 ft

Stage [ft]	Area [ac]	Area [ft2]
17.00	0.0000	0
17.50	0.6470	28183
18.00	3.1450	136996
18.50	25.6620	1117837
19.00	56.1660	2446591
19.50	64.2660	2799427
20.00	65.1380	2837411

Comment:

Node: NU10-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.08 ft  
 Warning Stage: 20.08 ft

Stage [ft]	Area [ac]	Area [ft2]
17.50	0.0000	0
18.00	0.4520	19689
18.50	1.5910	69304
19.00	31.5150	1372793
19.50	59.9750	2612511
20.00	63.9780	2786882
20.50	64.8690	2825694
21.00	65.1350	2837281

Comment:

Node: NU10-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.58 ft  
 Warning Stage: 20.58 ft

Stage [ft]	Area [ac]	Area [ft2]
18.50	0.0000	0
19.00	1.0990	47872
19.50	5.3160	231565
20.00	22.5580	982626
20.50	43.7670	1906491
21.00	55.0630	2398544
21.50	58.6310	2553966
22.00	60.2430	2624185
22.50	61.5090	2679332
23.00	62.4980	2722413
23.50	63.2260	2754125
24.00	63.6570	2772899
24.50	63.9940	2787579
25.00	64.0420	2789670
25.50	64.1040	2792370

Comment:

Node: NU10A01

Scenario: 2016 FWCD Update

Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 11.21 ft  
Warning Stage: 19.08 ft

Comment:

Node: NU10A03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 11.69 ft  
Warning Stage: 19.08 ft

Comment:

Node: NU10A05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 12.43 ft  
Warning Stage: 19.08 ft

Comment:



Node: NU10A09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 12.48 ft  
Warning Stage: 19.08 ft

Comment:

Node: NU10A13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 12.55 ft  
Warning Stage: 19.08 ft

Comment:

Node: NU10B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 12.62 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU10B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 12.69 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU10B10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 13.01 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU10C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.02 ft  
Warning Stage: 20.08 ft

Comment:

Node: NU10C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.03 ft  
Warning Stage: 20.08 ft

Comment:

Node: NU10C10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.05 ft  
Warning Stage: 20.08 ft

Comment:

Node: NU10D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.06 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU10D05

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 17.68 ft  
 Warning Stage: 20.58 ft

Comment:

Node: NU11-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 18.08 ft  
 Warning Stage: 19.08 ft

Stage [ft]	Area [ac]	Area [ft2]
16.00	0.0000	0
16.50	0.5650	24611
17.00	2.0940	91215
17.50	8.7560	381411
18.00	33.8970	1476553
18.50	56.0050	2439578
19.00	60.4780	2634422
19.50	61.2530	2668181
20.00	61.6680	2686258
20.50	61.8430	2693881
21.00	61.9070	2696669
21.50	61.9370	2697976
22.00	61.9550	2698760
22.50	61.9620	2699065

Stage [ft]	Area [ac]	Area [ft2]
23.00	61.9650	2699195
23.50	61.9650	2699195

Comment:

Node: NU11-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 18.58 ft  
 Warning Stage: 19.58 ft

Stage [ft]	Area [ac]	Area [ft2]
16.00	0.0000	0
16.50	0.1300	5663
17.00	1.1800	51401
17.50	3.5010	152504
18.00	6.4240	279829
18.50	30.5990	1332892
19.00	58.7950	2561110
19.50	63.0580	2746806
20.00	63.8300	2780435
20.50	64.0360	2789408

Comment:

Node: NU11-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area

Base Flow: 0.00 cfs  
 Initial Stage: 18.58 ft  
 Warning Stage: 19.58 ft

Stage [ft]	Area [ac]	Area [ft2]
18.00	0.0000	0
18.50	1.5540	67692
19.00	14.3550	625304
19.50	54.2140	2361562
20.00	62.3990	2718100
20.50	63.4070	2762009
21.00	64.1420	2794026
21.50	64.1990	2796508

Comment:

Node: NU11-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 17.08 ft  
 Warning Stage: 20.08 ft

Stage [ft]	Area [ac]	Area [ft2]
18.50	0.0000	0
19.00	0.8890	38725
19.50	6.4680	281746
20.00	22.8040	993342
20.50	48.2920	2103600
21.00	57.9570	2524607
21.50	60.3990	2630980
22.00	61.1390	2663215

Stage [ft]	Area [ac]	Area [ft2]
22.50	61.6080	2683644
23.00	61.9050	2696582
23.50	62.2570	2711915
24.00	62.5560	2724939
24.50	62.8740	2738791
25.00	63.0540	2746632
25.50	63.0960	2748462
26.00	63.0990	2748592
26.50	63.1140	2749246

Comment:

Node: NU11A01

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 11.39 ft  
 Warning Stage: 19.08 ft

Comment:

Node: NU11A03

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 11.79 ft  
 Warning Stage: 19.08 ft

Comment:

Node: NU11A07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 12.25 ft  
Warning Stage: 19.08 ft

Comment:

Node: NU11A13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 12.73 ft  
Warning Stage: 19.08 ft

Comment:

Node: NU11B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs



Initial Stage: 13.20 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU11B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 13.68 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU11B10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.35 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU11C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.85 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU11C03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.67 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU11C07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.67 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU11C13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.67 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU11D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.67 ft  
Warning Stage: 20.08 ft

Comment:

Node: NU11D05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.67 ft  
Warning Stage: 20.08 ft

Comment:

Node: NU12-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 18.08 ft  
 Warning Stage: 19.08 ft

Stage [ft]	Area [ac]	Area [ft2]
16.00	0.0000	0
16.50	0.3050	13286
17.00	0.9990	43516
17.50	2.5320	110294
18.00	10.7390	467791
18.50	31.7120	1381375
19.00	58.6970	2556841
19.50	62.4470	2720191
20.00	63.0680	2747242
20.50	63.4800	2765189
21.00	64.1980	2796465
21.50	64.3730	2804088
22.00	64.4370	2806876
22.50	64.5020	2809707
23.00	64.5920	2813628
23.50	64.6060	2814237
24.00	64.6150	2814629

Comment:

Node: NU12-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs

Initial Stage: 16.58 ft  
 Warning Stage: 19.58 ft

Stage [ft]	Area [ac]	Area [ft2]
17.00	0.0000	0
17.50	1.5710	68433
18.00	3.6990	161128
18.50	15.7680	686854
19.00	50.4230	2196426
19.50	60.8060	2648709
20.00	63.5330	2767497
20.50	64.9860	2830790
21.00	65.4060	2849085
21.50	65.6330	2858973
22.00	65.9500	2872782
22.50	66.3510	2890250
23.00	66.3910	2891992
23.50	66.4760	2895695
24.00	66.4830	2895999
24.50	66.4910	2896348
25.00	66.4980	2896653
25.50	66.5060	2897001
26.00	66.5130	2897306
26.50	66.5210	2897655
27.00	66.5290	2898003
27.50	66.5590	2899310

Comment:

Node: NU12-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area

Base Flow: 0.00 cfs  
 Initial Stage: 16.58 ft  
 Warning Stage: 19.58 ft

Stage [ft]	Area [ac]	Area [ft2]
17.00	0.0000	0
17.50	1.2110	52751
18.00	2.6220	114214
18.50	3.6360	158384
19.00	9.8580	429414
19.50	30.5960	1332762
20.00	52.1210	2270391
20.50	59.7170	2601273
21.00	63.1520	2750901
21.50	64.9220	2828002
22.00	65.3050	2844686
22.50	65.7310	2863242
23.00	65.8870	2870038
23.50	66.0250	2876049
24.00	66.4130	2892950

Comment:

Node: NU12-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 17.58 ft  
 Warning Stage: 20.58 ft

Stage [ft]	Area [ac]	Area [ft2]
18.00	0.0000	0

Stage [ft]	Area [ac]	Area [ft2]
18.50	0.2670	11631
19.00	0.8580	37374
19.50	2.5060	109161
20.00	13.3840	583007
20.50	34.0030	1481171
21.00	54.0710	2355333
21.50	59.9570	2611727
22.00	61.5240	2679985
22.50	62.3810	2717316
23.00	63.2040	2753166
23.50	64.0250	2788929
24.00	64.5160	2810317
24.50	64.7800	2821817
25.00	64.8930	2826739
25.50	64.9080	2827392
26.00	64.9310	2828394

Comment:

Node: NU12A01

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 13.93 ft  
 Warning Stage: 19.08 ft

Comment:

Node: NU12A03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.57 ft  
Warning Stage: 19.08 ft

Comment:

Node: NU12A05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.57 ft  
Warning Stage: 19.08 ft

Comment:

Node: NU12A09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.57 ft  
Warning Stage: 19.08 ft

Comment:



Node: NU12A13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.57 ft  
Warning Stage: 19.08 ft

Comment:

Node: NU12B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.57 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU12B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.57 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU12B10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.13 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU12C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.58 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU12C03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.58 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU12C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.59 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU12C07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.80 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU12C09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.80 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU12C11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.06 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU12C13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.20 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU12C15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.20 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU12C17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.23 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU12C19

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.47 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU12C21

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.47 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU12C23

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.47 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU12C25

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.50 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU12C27

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.66 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU12C29

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.66 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU12C31

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.66 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU12D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.36 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU12D05

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 18.36 ft  
 Warning Stage: 20.58 ft

Comment:

Node: NU12D10

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 18.08 ft  
 Warning Stage: 20.58 ft

Comment:

Node: NU13-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 18.58 ft  
 Warning Stage: 19.58 ft

Stage [ft]	Area [ac]	Area [ft2]
14.50	0.0000	0
15.00	0.1100	4792



Stage [ft]	Area [ac]	Area [ft2]
15.50	0.4820	20996
16.00	0.9570	41687
16.50	1.6500	71874
17.00	3.6000	156816
17.50	5.9120	257527
18.00	8.9210	388599
18.50	18.7670	817491
19.00	48.0580	2093406
19.50	58.9210	2566599
20.00	60.0120	2614123
20.50	60.6480	2641827
21.00	61.1860	2665262
21.50	61.5770	2682294
22.00	62.0100	2701156
22.50	62.5200	2723371
23.00	62.8720	2738704
23.50	63.0680	2747242
24.00	63.2310	2754342
24.50	63.3450	2759308
25.00	63.3650	2760179
25.50	63.3670	2760267
26.00	63.3790	2760789

Comment:

Node: NU13-B

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.08 ft  
Warning Stage: 19.08 ft

Stage [ft]	Area [ac]	Area [ft2]
16.00	0.0000	0
16.50	0.0050	218
17.00	0.3310	14418
17.50	0.7980	34761
18.00	3.9970	174109
18.50	6.6770	290850
19.00	21.1130	919682
19.50	56.1560	2446155
20.00	59.7060	2600793
20.50	60.6370	2641348
21.00	61.5130	2679506
21.50	62.0090	2701112
22.00	62.5520	2724765
22.50	62.9800	2743409
23.00	63.2750	2756259
23.50	63.6560	2772855
24.00	64.0890	2791717
24.50	64.4250	2806353
25.00	64.5710	2812713
25.50	64.6310	2815326

Comment:

Node: NU13-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 17.58 ft  
 Warning Stage: 20.58 ft

Stage [ft]	Area [ac]	Area [ft2]
17.00	0.0000	0
17.50	0.6880	29969
18.00	1.5630	68084
18.50	3.1330	136473
19.00	4.8430	210961
19.50	12.8970	561793
20.00	33.6780	1467014
20.50	52.2280	2275052
21.00	58.5900	2552180
21.50	60.0510	2615822
22.00	60.6910	2643700
22.50	61.4880	2678417
23.00	61.8780	2695406
23.50	62.1660	2707951
24.00	62.4650	2720975
24.50	62.9220	2740882
25.00	63.2630	2755736
25.50	63.4620	2764405
26.00	63.5340	2767541
26.50	63.6890	2774293
27.00	63.6950	2774554

Comment:

Node: NU13-D

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.58 ft  
Warning Stage: 20.58 ft

Stage [ft]	Area [ac]	Area [ft2]
14.00	0.0000	0
14.50	0.1800	7841
15.00	0.3780	16466
15.50	0.8620	37549
16.00	1.0590	46130
16.50	1.4790	64425
17.00	1.7540	76404
17.50	2.0350	88645
18.00	2.7300	118919
18.50	3.6510	159038
19.00	5.0040	217974
19.50	6.7280	293072
20.00	11.3270	493404
20.50	24.3630	1061252
21.00	46.3210	2017743
21.50	56.4680	2459746
22.00	59.6080	2596524
22.50	61.0190	2657988
23.00	62.0970	2704945
23.50	63.1620	2751337
24.00	63.6860	2774162
24.50	64.1310	2793546
25.00	64.4450	2807224
25.50	64.6250	2815065
26.00	64.6490	2816110
26.50	64.6850	2817679
27.00	64.7380	2819987

Comment:

Node: NU13A01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 11.21 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU13A03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 11.84 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU13A05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 11.84 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU13A09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 11.84 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU13A13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 12.81 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU13A17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 13.86 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU13A19

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 13.86 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU13B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 13.86 ft  
Warning Stage: 19.08 ft

Comment:

Node: NU13B03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 13.86 ft  
Warning Stage: 19.08 ft

Comment:

Node: NU13B07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 13.86 ft  
Warning Stage: 19.08 ft

Comment:

Node: NU13B09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 13.86 ft  
Warning Stage: 19.08 ft

Comment:

Node: NU13B11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 13.86 ft  
Warning Stage: 19.08 ft

Comment:



Node: NU13C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 13.86 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU13C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.18 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU13C10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.19 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU13D01

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 16.19 ft  
 Warning Stage: 20.58 ft

Comment:

Node: NU14-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 18.58 ft  
 Warning Stage: 19.58 ft

Stage [ft]	Area [ac]	Area [ft2]
17.00	0.0000	0
17.50	1.8680	81370
18.00	5.2560	228951
18.50	24.3620	1061209
19.00	50.6880	2207969
19.50	59.0260	2571173
20.00	59.7580	2603058
20.50	60.1800	2621441
21.00	60.5740	2638603
21.50	60.9410	2654590
22.00	61.1900	2665436
22.50	61.2740	2669095
23.00	61.3800	2673713
23.50	61.4700	2677633

Stage [ft]	Area [ac]	Area [ft2]
24.00	61.5230	2679942
24.50	61.5640	2681728
25.00	61.6040	2683470
25.50	61.6610	2685953
26.00	61.6670	2686215

Comment:

Node: NU14-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.58 ft  
 Warning Stage: 20.58 ft

Stage [ft]	Area [ac]	Area [ft2]
17.50	0.0000	0
18.00	0.3810	16596
18.50	1.9430	84637
19.00	13.6370	594028
19.50	44.4530	1936373
20.00	61.8270	2693184
20.50	62.4760	2721455
21.00	62.9970	2744149
21.50	63.4780	2765102
22.00	63.7370	2776384
22.50	63.7820	2778344

Comment:

Node: NU14-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 18.58 ft  
 Warning Stage: 21.58 ft

Stage [ft]	Area [ac]	Area [ft2]
17.50	0.0000	0
18.00	0.2350	10237
18.50	0.5600	24394
19.00	1.4280	62204
19.50	5.3380	232523
20.00	18.9470	825331
20.50	42.9960	1872906
21.00	56.0450	2441320
21.50	59.7300	2601839
22.00	61.5130	2679506
22.50	62.3450	2715748
23.00	62.7200	2732083
23.50	63.3720	2760484
24.00	63.8290	2780391
24.50	64.1670	2795115

Comment:

Node: NU14-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.08 ft  
 Warning Stage: 22.08 ft

Stage [ft]	Area [ac]	Area [ft2]
18.00	0.0000	0
18.50	0.2880	12545
19.00	0.7590	33062
19.50	1.2400	54014
20.00	2.8020	122055
20.50	12.7580	555738
21.00	39.9890	1741921
21.50	53.8870	2347318
22.00	57.2760	2494943
22.50	59.6210	2597091
23.00	60.6890	2643613
23.50	61.6900	2687216
24.00	62.2300	2710739
24.50	62.7600	2733826
25.00	62.9500	2742102

Comment:

Node: NU14A03

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 13.69 ft  
 Warning Stage: 19.58 ft

Comment:

Node: NU14A05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.37 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU14A09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.37 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU14A13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.37 ft  
Warning Stage: 19.58 ft

Comment:

Node: NU14B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.37 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU14B03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.41 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU14B07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.41 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU14B13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.41 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU14B15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.06 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU14B17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.06 ft  
Warning Stage: 20.58 ft

Comment:



Node: NU14C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.56 ft  
Warning Stage: 21.58 ft

Comment:

Node: NU14C03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.63 ft  
Warning Stage: 21.58 ft

Comment:

Node: NU14C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.63 ft  
Warning Stage: 21.58 ft

Comment:

Node: NU14C07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.63 ft  
Warning Stage: 21.58 ft

Comment:

Node: NU14C09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.63 ft  
Warning Stage: 21.58 ft

Comment:

Node: NU14C11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.90 ft  
Warning Stage: 21.58 ft

Comment:

Node: NU14C15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.90 ft  
Warning Stage: 21.58 ft

Comment:

Node: NU14C17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.90 ft  
Warning Stage: 21.58 ft

Comment:

Node: NU14C19

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.90 ft  
Warning Stage: 21.58 ft

Comment:

Node: NU14C21

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.90 ft  
Warning Stage: 21.58 ft

Comment:

Node: NU14D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.31 ft  
Warning Stage: 22.08 ft

Comment:

Node: NU14D03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.79 ft  
Warning Stage: 22.08 ft

Comment:

Node: NU14D07

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 17.79 ft  
 Warning Stage: 22.08 ft

Comment:

Node: NU15-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 17.58 ft  
 Warning Stage: 20.58 ft

Stage [ft]	Area [ac]	Area [ft2]
17.00	0.0000	0
17.50	0.7990	34804
18.00	1.9980	87033
18.50	4.3220	188266
19.00	14.2700	621601
19.50	46.1910	2012080
20.00	57.8830	2521383
20.50	60.8410	2650234
21.00	61.6200	2684167
21.50	62.0070	2701025
22.00	62.1710	2708169
22.50	62.3700	2716837
23.00	62.5480	2724591
23.50	62.8620	2738269

Stage [ft]	Area [ac]	Area [ft2]
24.00	62.9170	2740665
24.50	62.9590	2742494
25.00	63.0210	2745195
25.50	63.0750	2747547
26.00	63.0830	2747895

Comment:

Node: NU15-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 18.08 ft  
 Warning Stage: 21.08 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	0.0000	0
17.00	0.0920	4008
17.50	0.7340	31973
18.00	1.0880	47393
18.50	1.6330	71133
19.00	2.7640	120400
19.50	15.4230	671826
20.00	46.1770	2011470
20.50	58.5980	2552529
21.00	61.0810	2660688
21.50	62.4390	2719843
22.00	63.0570	2746763
22.50	63.4190	2762532
23.00	63.8920	2783136
23.50	64.2020	2796639

Stage [ft]	Area [ac]	Area [ft2]
24.00	64.8820	2826260
24.50	65.0300	2832707
25.00	65.3240	2845513
25.50	65.3320	2845862
26.00	65.3470	2846515
26.50	65.3510	2846690
27.00	65.3540	2846820
27.50	65.3630	2847212

Comment:

Node: NU15-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 18.08 ft  
 Warning Stage: 21.08 ft

Stage [ft]	Area [ac]	Area [ft2]
17.50	0.0000	0
18.00	0.2870	12502
18.50	0.7520	32757
19.00	1.8540	80760
19.50	5.2960	230694
20.00	34.7210	1512447
20.50	54.0880	2356073
21.00	62.0290	2701983
21.50	63.9210	2784399
22.00	64.6160	2814673
22.50	64.9840	2830703
23.00	65.2510	2842334

Stage [ft]	Area [ac]	Area [ft2]
23.50	65.3810	2847996
24.00	65.6580	2860062
24.50	65.6800	2861021
25.00	65.6950	2861674
25.50	65.7110	2862371
26.00	65.7370	2863504
26.50	65.7620	2864593
27.00	65.7680	2864854
27.50	65.8060	2866509

Comment:

Node: NU15-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 18.58 ft  
 Warning Stage: 21.58 ft

Stage [ft]	Area [ac]	Area [ft2]
19.50	0.0000	0
20.00	0.4030	17555
20.50	8.7920	382980
21.00	36.0760	1571471
21.50	51.1270	2227092
22.00	58.4660	2546779
22.50	61.7880	2691485
23.00	62.4450	2720104
23.50	62.7740	2734435
24.00	63.0910	2748244
24.50	63.4130	2762270



Stage [ft]	Area [ac]	Area [ft2]
25.00	63.8950	2783266
25.50	64.2150	2797205
26.00	64.2950	2800690

Comment:

Node: NU15A01

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 13.10 ft  
 Warning Stage: 20.58 ft

Comment:

Node: NU15A03

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 14.28 ft  
 Warning Stage: 20.58 ft

Comment:

Node: NU15A07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.28 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU15A13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.28 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU15A17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.28 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU15A19

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.28 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU15B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.33 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU15B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.70 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU15B07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.70 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU15B09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.08 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU15B11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.08 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU15B13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.08 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU15B15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.08 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU15B17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.08 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU15C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.08 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU15C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.15 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU15C07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.12 ft  
Warning Stage: 22.08 ft

Comment:

Node: NU15C09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.62 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU15C11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.62 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU15C13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.62 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU15C15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.68 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU15C19

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.61 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU15C21

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.33 ft  
Warning Stage: 21.08 ft

Comment:



Node: NU15C23

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.39 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU15D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.08 ft  
Warning Stage: 21.58 ft

Comment:

Node: NU15D05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 19.58 ft  
Warning Stage: 21.58 ft

Comment:

Node: NU16-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 17.58 ft  
 Warning Stage: 20.58 ft

Stage [ft]	Area [ac]	Area [ft2]
17.00	0.0000	0
17.50	0.1120	4879
18.00	0.5110	22259
18.50	1.0340	45041
19.00	9.5930	417871
19.50	41.9350	1826689
20.00	59.1470	2576443
20.50	60.8580	2650974
21.00	61.4230	2675586
21.50	61.9860	2700110
22.00	62.2100	2709868
22.50	62.3040	2713962
23.00	62.4160	2718841
23.50	62.6280	2728076
24.00	62.6860	2730602
24.50	62.7130	2731778
25.00	62.7310	2732562
25.50	62.7330	2732649

Comment:

Node: NU16-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area

Base Flow: 0.00 cfs  
 Initial Stage: 17.58 ft  
 Warning Stage: 20.58 ft

Stage [ft]	Area [ac]	Area [ft2]
17.50	0.0000	0
18.00	0.5350	23305
18.50	1.3270	57804
19.00	3.4620	150805
19.50	23.1110	1006715
20.00	44.9910	1959808
20.50	60.0780	2616998
21.00	62.9480	2742015
21.50	63.4930	2765755
22.00	63.8990	2783440
22.50	64.1170	2792937
23.00	64.3420	2802738
23.50	64.7470	2820379
24.00	64.9050	2827262

Comment:

Node: NU16-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 17.58 ft  
 Warning Stage: 20.58 ft

Stage [ft]	Area [ac]	Area [ft2]
18.00	0.0000	0
18.50	0.4710	20517

Stage [ft]	Area [ac]	Area [ft2]
19.00	2.3580	102714
19.50	4.7050	204950
20.00	28.7830	1253787
20.50	51.1840	2229575
21.00	60.2900	2626232
21.50	62.3290	2715051
22.00	63.3320	2758742
22.50	63.7420	2776602
23.00	64.0550	2790236
23.50	64.7550	2820728
24.00	64.9750	2830311
24.50	65.1530	2838065

Comment:

Node: NU16-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 18.58 ft  
 Warning Stage: 21.58 ft

Stage [ft]	Area [ac]	Area [ft2]
17.50	0.0000	0
18.00	0.1430	6229
18.50	0.6220	27094
19.00	1.1700	50965
19.50	1.6920	73704
20.00	2.7020	117699
20.50	11.6590	507866
21.00	41.2730	1797852

Stage [ft]	Area [ac]	Area [ft2]
21.50	56.1410	2445502
22.00	60.8120	2648971
22.50	62.6820	2730428
23.00	63.3520	2759613
23.50	63.7200	2775643
24.00	64.0720	2790976
24.50	64.5330	2811057
25.00	64.6570	2816459
25.50	64.8660	2825563

Comment:

Node: NU16A01

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 15.70 ft  
 Warning Stage: 20.58 ft

Comment:

Node: NU16A03

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 15.70 ft  
 Warning Stage: 20.58 ft

Comment:

Node: NU16A05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.70 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU16A07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.05 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU16A11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs

Initial Stage: 16.80 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU16A13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.07 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU16A15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.07 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU16B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.07 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU16B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.07 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU16B07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.07 ft  
Warning Stage: 20.58 ft

Comment:



Node: NU16B11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.07 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU16B13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.07 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU16B15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.07 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU16B17

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.07 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU16C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.07 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU16C03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.07 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU16C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.07 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU16C07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.07 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU16C09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.07 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU16C11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.07 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU16C15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.07 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU16D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.07 ft  
Warning Stage: 21.58 ft

Comment:

Node: NU16D03

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 17.07 ft  
 Warning Stage: 21.58 ft

Comment:

Node: NU16D05

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 17.15 ft  
 Warning Stage: 21.58 ft

Comment:

Node: NU17-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.08 ft  
 Warning Stage: 21.08 ft

Stage [ft]	Area [ac]	Area [ft2]
18.50	0.0000	0
19.00	0.2420	10542

Stage [ft]	Area [ac]	Area [ft2]
19.50	8.1440	354753
20.00	26.9880	1175597
20.50	50.1580	2184882
21.00	59.7110	2601011
21.50	60.9060	2653065
22.00	61.6750	2686563
22.50	62.7350	2732737
23.00	63.2120	2753515
23.50	63.3070	2757653
24.00	63.3480	2759439
24.50	63.3930	2761399
25.00	63.4350	2763229
25.50	63.4780	2765102
26.00	63.5160	2766757
26.50	63.5380	2767715
27.00	63.5460	2768064
27.50	63.5490	2768194
28.00	63.5530	2768369
28.50	63.5670	2768979

Comment:

Node: NU17-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 18.08 ft  
 Warning Stage: 21.08 ft

Stage [ft]	Area [ac]	Area [ft2]
18.00	0.0000	0

Stage [ft]	Area [ac]	Area [ft2]
18.50	0.0960	4182
19.00	1.1590	50486
19.50	9.1380	398051
20.00	32.5260	1416833
20.50	52.0350	2266645
21.00	61.6030	2683427
21.50	64.0400	2789582
22.00	65.0890	2835277
22.50	65.8830	2869863
23.00	65.9850	2874307
23.50	66.0070	2875265
24.00	66.0480	2877051
24.50	66.0680	2877922

Comment:

Node: NU17-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.08 ft  
 Warning Stage: 21.08 ft

Stage [ft]	Area [ac]	Area [ft2]
19.50	0.0000	0
20.00	16.5060	719001
20.50	41.0450	1787920
21.00	62.0070	2701025
21.50	64.2050	2796770
22.00	65.1270	2836932
22.50	65.8460	2868252

Stage [ft]	Area [ac]	Area [ft2]
23.00	66.1570	2881799
23.50	66.1760	2882627

Comment:

Node: NU17-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 21.08 ft  
 Warning Stage: 22.08 ft

Stage [ft]	Area [ac]	Area [ft2]
19.50	0.0000	0
20.00	0.8790	38289
20.50	3.1080	135384
21.00	28.3620	1235449
21.50	52.9970	2308549
22.00	58.4060	2544165
22.50	60.9270	2653980
23.00	62.7580	2733738
23.50	63.6190	2771244
24.00	64.0410	2789626
24.50	64.2260	2797685
25.00	64.3640	2803696
25.50	64.4900	2809184
26.00	64.6140	2814586
26.50	64.7110	2818811
27.00	64.8030	2822819
27.50	64.9760	2830355



Comment:

Node: NU17A01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 13.19 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU17A03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 13.91 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU17A05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.87 ft

Warning Stage: 21.08 ft

Comment:

Node: NU17A09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.03 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU17A13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.25 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU17B01

Scenario: 2016 FWCD Update

Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.46 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU17B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.67 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU17B10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.88 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU17C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.18 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU17C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.48 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU17C10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.78 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU17D01

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 17.06 ft  
 Warning Stage: 22.08 ft

Comment:

Node: NU17D05

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 17.48 ft  
 Warning Stage: 22.08 ft

Comment:

Node: NU18-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.58 ft  
 Warning Stage: 20.58 ft

Stage [ft]	Area [ac]	Area [ft2]
17.50	0.0000	0
18.00	0.0670	2919

Stage [ft]	Area [ac]	Area [ft2]
18.50	0.3560	15507
19.00	1.3580	59154
19.50	11.1910	487480
20.00	26.4590	1152554
20.50	38.7180	1686556
21.00	55.6750	2425203
21.50	60.3970	2630893
22.00	61.9440	2698281
22.50	62.3040	2713962
23.00	62.5040	2722674
23.50	62.6010	2726900
24.00	62.6910	2730820
24.50	62.7810	2734740
25.00	63.0030	2744411

Comment:

Node: NU18-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.08 ft  
 Warning Stage: 20.08 ft

Stage [ft]	Area [ac]	Area [ft2]
18.00	0.0000	0
18.50	0.2300	10019
19.00	0.8340	36329
19.50	2.2990	100144
20.00	19.3860	844454
20.50	41.9910	1829128

Stage [ft]	Area [ac]	Area [ft2]
21.00	59.2420	2580582
21.50	62.3030	2713919
22.00	63.5200	2766931
22.50	63.8600	2781742
23.00	64.1750	2795463
23.50	64.3990	2805220
24.00	64.6680	2816938
24.50	65.0400	2833142
25.00	65.2510	2842334

Comment:

Node: NU18-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.08 ft  
 Warning Stage: 21.08 ft

Stage [ft]	Area [ac]	Area [ft2]
18.50	0.0000	0
19.00	0.4330	18861
19.50	1.4920	64992
20.00	11.2740	491095
20.50	41.8310	1822158
21.00	57.4440	2502261
21.50	61.3380	2671883
22.00	63.5130	2766626
22.50	64.1430	2794069
23.00	64.4050	2805482
23.50	64.5920	2813628

Stage [ft]	Area [ac]	Area [ft2]
24.00	64.9230	2828046
24.50	64.9460	2829048
25.00	64.9710	2830137
25.50	65.0010	2831444
26.00	65.0440	2833317
26.50	65.1890	2839633

Comment:

Node: NU18-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 21.08 ft  
 Warning Stage: 22.08 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0000	0
19.50	0.5590	24350
20.00	1.3540	58980
20.50	4.0460	176244
21.00	19.5840	853079
21.50	45.6200	1987207
22.00	56.8180	2474992
22.50	60.1710	2621049
23.00	62.6900	2730776
23.50	63.4130	2762270
24.00	63.8910	2783092
24.50	64.0180	2788624
25.00	64.1400	2793938
25.50	64.2640	2799340



Stage [ft]	Area [ac]	Area [ft2]
26.00	64.3160	2801605
26.50	64.3550	2803304
27.00	64.3820	2804480
27.50	64.3990	2805220

Comment:

Node: NU18A01

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 12.73 ft  
 Warning Stage: 20.58 ft

Comment:

Node: NU18A03

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 12.73 ft  
 Warning Stage: 20.58 ft

Comment:

Node: NU18A05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.94 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU18A09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.08 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU18A13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.30 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU18B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.51 ft  
Warning Stage: 20.08 ft

Comment:

Node: NU18B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.73 ft  
Warning Stage: 20.08 ft

Comment:

Node: NU18B10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.95 ft  
Warning Stage: 20.08 ft

Comment:

Node: NU18C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.08 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU18C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.08 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU18C10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.08 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU18C13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.08 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU18C15

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.08 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU18D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.10 ft  
Warning Stage: 22.08 ft

Comment:

Node: NU18D05

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.35 ft  
 Warning Stage: 22.08 ft

Comment:

Node: NU19-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.58 ft  
 Warning Stage: 20.58 ft

Stage [ft]	Area [ac]	Area [ft2]
18.00	0.0000	0
18.50	0.4270	18600
19.00	1.6760	73007
19.50	12.0860	526466
20.00	33.0180	1438264
20.50	49.5220	2157178
21.00	57.2080	2491980
21.50	58.5210	2549175
22.00	59.6280	2597396
22.50	60.5640	2638168
23.00	61.2220	2666830
23.50	61.4950	2678722
24.00	61.9080	2696712
24.50	62.0040	2700894

Stage [ft]	Area [ac]	Area [ft2]
25.00	62.1240	2706121
25.50	62.3590	2716358

Comment:

Node: NU19-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.58 ft  
 Warning Stage: 20.58 ft

Stage [ft]	Area [ac]	Area [ft2]
18.50	0.0000	0
19.00	0.5580	24306
19.50	2.4630	107288
20.00	10.6710	464829
20.50	32.4330	1412781
21.00	58.3020	2539635
21.50	60.9120	2653327
22.00	62.1070	2705381
22.50	63.0090	2744672
23.00	63.7860	2778518
23.50	64.4640	2808052
24.00	65.0810	2834928

Comment:

Node: NU19-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.08 ft  
 Warning Stage: 21.08 ft

Stage [ft]	Area [ac]	Area [ft2]
18.00	0.0000	0
18.50	0.0950	4138
19.00	0.7380	32147
19.50	2.1060	91737
20.00	7.4420	324174
20.50	26.6660	1161571
21.00	51.5300	2244647
21.50	58.8300	2562635
22.00	60.7140	2644702
22.50	62.2650	2712263
23.00	64.7320	2819726
23.50	64.9510	2829266
24.00	65.0060	2831661
24.50	65.0620	2834101
25.00	65.1100	2836192
25.50	65.1620	2838457
26.00	65.3830	2848083

Comment:

Node: NU19-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 21.08 ft



Warning Stage: 22.08 ft

Stage [ft]	Area [ac]	Area [ft2]
19.50	0.0000	0
20.00	0.1460	6360
20.50	3.3120	144271
21.00	23.6940	1032111
21.50	50.9540	2219556
22.00	57.9000	2522124
22.50	62.0870	2704510
23.00	63.7900	2778692
23.50	63.9670	2786403
24.00	64.0560	2790279
24.50	64.1640	2794984
25.00	64.4160	2805961
25.50	64.6360	2815544
26.00	64.6570	2816459
26.50	64.6680	2816938
27.00	64.6770	2817330
27.50	64.6840	2817635
28.00	64.6970	2818201

Comment:

Node: NU19A01

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 12.59 ft  
 Warning Stage: 20.58 ft

Comment:

Node: NU19A03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 12.59 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU19A05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.08 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU19A09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.25 ft

Warning Stage: 20.58 ft

Comment:

Node: NU19A13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.58 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU19B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.74 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU19B05

Scenario: 2016 FWCD Update

Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.98 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU19B10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.23 ft  
Warning Stage: 20.58 ft

Comment:

Node: NU19C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.14 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU19C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.42 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU19C07

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.42 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU19C11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.60 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU19D01

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 18.79 ft  
 Warning Stage: 22.08 ft

Comment:

Node: NU19D05

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.47 ft  
 Warning Stage: 22.08 ft

Comment:

Node: NU20-A

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.08 ft  
 Warning Stage: 21.08 ft

Stage [ft]	Area [ac]	Area [ft2]
18.50	0.0000	0
19.00	0.6410	27922

Stage [ft]	Area [ac]	Area [ft2]
19.50	2.4480	106635
20.00	15.9020	692691
20.50	26.3700	1148677
21.00	29.1720	1270732
21.50	30.1210	1312071
22.00	31.2130	1359638
22.50	31.8810	1388736
23.00	31.9940	1393659

Comment:

Node: NU20-B

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.08 ft  
 Warning Stage: 21.08 ft

Stage [ft]	Area [ac]	Area [ft2]
19.50	0.0000	0
20.00	11.1010	483560
20.50	20.8070	906353
21.00	29.9440	1304361
21.50	32.2640	1405420
22.00	32.9460	1435128
22.50	33.7220	1468930
23.00	33.9900	1480604

Comment:

Node: NU20-C

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.58 ft  
 Warning Stage: 21.58 ft

Stage [ft]	Area [ac]	Area [ft2]
18.50	0.0000	0
19.00	0.2510	10934
19.50	0.8100	35284
20.00	2.5990	113212
20.50	9.8400	428630
21.00	21.4950	936322
21.50	28.0290	1220943
22.00	30.3300	1321175
22.50	32.0400	1395662
23.00	33.6580	1466142
23.50	34.0430	1482913
24.00	34.2780	1493150
24.50	34.3640	1496896
25.00	34.4390	1500163
25.50	34.6770	1510530

Comment:

Node: NU20-D

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 19.08 ft  
 Warning Stage: 22.08 ft



Stage [ft]	Area [ac]	Area [ft2]
20.00	0.0000	0
20.50	0.4910	21388
21.00	7.4690	325350
21.50	20.8750	909315
22.00	28.8700	1257577
22.50	30.9860	1349750
23.00	31.6640	1379284
23.50	32.1670	1401195
24.00	32.4190	1412172
24.50	32.5420	1417530
25.00	32.6430	1421929
25.50	32.7310	1425762
26.00	32.7920	1428420
26.50	32.8030	1428899

Comment:

Node: NU20A01

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 13.61 ft  
 Warning Stage: 21.08 ft

Comment:

Node: NU20A03

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 13.61 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU20A09

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 13.88 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU20A13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 14.56 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU20B01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.23 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU20B05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 15.90 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU20B11

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.55 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU20B13

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.58 ft  
Warning Stage: 21.08 ft

Comment:

Node: NU20C01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.58 ft  
Warning Stage: 21.58 ft

Comment:

Node: NU20C05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.58 ft  
Warning Stage: 21.58 ft

Comment:

Node: NU20C10

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.58 ft  
Warning Stage: 21.58 ft

Comment:

Node: NU20D01

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 17.95 ft  
Warning Stage: 22.08 ft

Comment:

Node: NU20D05

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 18.31 ft  
Warning Stage: 22.08 ft

Comment:

Node: NU23FJV1

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 13.50 ft  
Warning Stage: 30.00 ft

Comment:

Node: NU23FJV2

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.50 ft  
Warning Stage: 30.00 ft

Comment:

Node: NU23FJV3

Scenario: 2016 FWCD Update  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 16.50 ft  
Warning Stage: 30.00 ft

Comment:

Node: NU23FJV4

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 16.50 ft  
 Warning Stage: 30.00 ft

Comment:

Node: NWETLND

Scenario: 2016 FWCD Update  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.18 ft  
 Warning Stage: 25.08 ft

Stage [ft]	Area [ac]	Area [ft2]
20.50	0.0030	131
21.00	0.0670	2919
21.50	0.2040	8886
22.00	0.4350	18949
22.50	0.7100	30928
23.00	1.2520	54537
23.50	1.9370	84376
24.00	2.9300	127631
24.50	3.1840	138695
25.00	3.3430	145621
25.50	3.3740	146971
26.00	3.4300	149411

Comment:

Node: SEEPAGE

Scenario: 2016 FWCD Update  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 26.58 ft  
 Warning Stage: 26.58 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	28.00
0	0	0	120.0000	28.00

Comment:

Rating Curve Link: FJVE-Pump

Scenario: 2016 FWCD Update  
 From Node: NP-FJVE  
 To Node: NFJVSDITCH  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
FJVE-PUMP	16.51	NP-FJVE	16.50	NP-FJVE

Comment:

Pipe Link: RBCUL1

Scenario: 2016 FWCD Update  
 From Node: NB1  
 To Node: NB2  
 Link Count: 1

	Upstream	Downstream
Invert:	20.88 ft	20.78 ft
Manning's N:	0.0120	0.0120
Geometry:	Circular	Circular
Max Depth:	1.25 ft	1.25 ft



Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length:	285.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RBCUL2		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 20.78 ft	Invert: 20.08 ft
From Node:	NB2	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	NB3	Geometry: Circular	
Link Count:	1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.25 ft	Default: 0.25 ft
Length:	159.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RBCUL3		Upstream	Downstream
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Scenario:	2016 FWCD Update	Invert:	19.81 ft	Invert:	19.82 ft
From Node:	NB3	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	NBG	Geometry:	Circular	Geometry:	Circular
Link Count:	1	Max Depth:	1.50 ft	Max Depth:	1.50 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.25 ft	Default:	0.25 ft
Length:	206.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0120	Manning's N:	0.0120
Exit Loss Coef:	0.95	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0120	Manning's N:	0.0120

Comment:

Pipe Link: RBCUL4

	Upstream	Downstream			
Scenario:	2016 FWCD Update	Invert:	16.58 ft	Invert:	15.48 ft
From Node:	NB4	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	NB3	Geometry:	Circular	Geometry:	Circular
Link Count:	1	Max Depth:	1.50 ft	Max Depth:	1.50 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.25 ft	Default:	0.25 ft
Length:	162.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0120	Manning's N:	0.0120
Exit Loss Coef:	0.95	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0120	Manning's N:	0.0120

Comment:

Pipe Link: RBCUL5	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.88 ft	Invert: 20.68 ft
From Node: NB5	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NB4	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.25 ft	Max Depth: 1.25 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 298.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120
Comment:		

Pipe Link: RBCULG	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.82 ft	Invert: 19.75 ft
From Node: NBG	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NBOU	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.25 ft	Default: 0.25 ft
Length: 264.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RBOUT

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NBOUT	
To Node:	NSDIV	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	8.00 ft	
FHWA Code:	1	
Entr Loss Coef:	0.50	
Exit Loss Coef:	0.95	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 19.84 ft	Invert: 19.78 ft
	Manning's N: 0.0120	Manning's N: 0.0120
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.50 ft	Max Depth: 1.50 ft
	Bottom Clip	
	Default: 0.25 ft	Default: 0.25 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Weir Link: RF-10

Scenario:	2016 FWCD Update	
From Node:	NF-20	
To Node:	NF-10	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Weir Type:	Sharp Crested Vertical	
Geometry Type:	Rectangular	
Invert:	0.83 ft	
Control Elevation:	0.83 ft	
	Bottom Clip	
	Default: 0.00 ft	
	Op Table:	
	Ref Node:	
	Top Clip	
	Default: 0.00 ft	
	Op Table:	
	Ref Node:	
	Discharge Coefficients	
	Weir Default: 3.200	

Max Depth: 999.00 ft  
 Max Width: 59.00 ft  
 Fillet: 0.00 ft

Weir Table:  
 Orifice Default: 0.600  
 Orifice Table:

Comment:

Channel Link: RF-15	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: -1.42 ft	Invert: -2.42 ft
From Node: NF-25	Manning's N: 0.0500	Manning's N: 0.0500
To Node: NF-20	Geometry: Irregular	Geometry: Irregular
Link Count: 1	Cross Section: RF15	Cross Section: RF15
Flow Direction: Both		
Damping: 0.0000 ft		
Length: 300.00 ft		
Contraction Coef: 0.00		
Expansion Coef: 0.30		
Entr Loss Coef: 0.00		
Exit Loss Coef: 0.00		
Bend Loss Coef: 0.00		
Bend Location: 0.00 dec		
Energy Switch: Energy		

Comment:

Channel Link: RF-20	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 2.08 ft	Invert: -1.42 ft
From Node: NF-30	Manning's N: 0.0500	Manning's N: 0.0500
To Node: NF-25	Geometry: Irregular	Geometry: Irregular
Link Count: 1	Cross Section: RF20-40	Cross Section: RF20-40
Flow Direction: Both		
Damping: 0.0000 ft		

Length: 7500.00 ft  
 Contraction Coef: 0.00  
 Expansion Coef: 0.30  
 Entr Loss Coef: 0.00  
 Exit Loss Coef: 0.00  
 Bend Loss Coef: 0.00  
 Bend Location: 0.00 dec  
 Energy Switch: Energy

Comment:

Channel Link: RF-30	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 2.58 ft	Invert: 2.08 ft
From Node: NF-40	Manning's N: 0.0500	Manning's N: 0.0500
To Node: NF-30	Geometry: Irregular	Geometry: Irregular
Link Count: 1	Cross Section: RF20-40	Cross Section: RF20-40
Flow Direction: Both		
Damping: 0.0000 ft		
Length: 1580.00 ft		
Contraction Coef: 0.00		
Expansion Coef: 0.10		
Entr Loss Coef: 0.00		
Exit Loss Coef: 0.00		
Bend Loss Coef: 0.00		
Bend Location: 0.00 dec		
Energy Switch: Energy		

Comment:

Channel Link: RF-40	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 3.08 ft	Invert: 2.58 ft
From Node: NF-50	Manning's N: 0.0500	Manning's N: 0.0500

To Node:	NF-40	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: RF20-40	Cross Section: RF20-40
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	3040.00 ft		
Contraction Coef:	0.10		
Expansion Coef:	0.30		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: RF-50

		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 3.58 ft	Invert: 3.08 ft
From Node:	NF-60	Manning's N: 0.0500	Manning's N: 0.0500
To Node:	NF-50	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: RF50	Cross Section: RF50
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	3828.00 ft		
Contraction Coef:	0.10		
Expansion Coef:	0.30		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: RF-60	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 4.58 ft	Invert: 3.58 ft
From Node: NF-70	Manning's N: 0.0500	Manning's N: 0.0500
To Node: NF-60	Geometry: Irregular	Geometry: Irregular
Link Count: 1	Cross Section: RF60-70	Cross Section: RF60-70
Flow Direction: Both		
Damping: 0.0000 ft		
Length: 7520.00 ft		
Contraction Coef: 0.10		
Expansion Coef: 0.30		
Entr Loss Coef: 0.00		
Exit Loss Coef: 0.00		
Bend Loss Coef: 0.00		
Bend Location: 0.00 dec		
Energy Switch: Energy		

Comment:

Channel Link: RF-70	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 4.58 ft	Invert: 4.58 ft
From Node: NF-80	Manning's N: 0.0500	Manning's N: 0.0500
To Node: NF-70	Geometry: Irregular	Geometry: Irregular
Link Count: 1	Cross Section: RF60-70	Cross Section: RF60-70
Flow Direction: Both		
Damping: 0.0000 ft		
Length: 2112.00 ft		
Contraction Coef: 0.10		
Expansion Coef: 0.30		
Entr Loss Coef: 0.00		
Exit Loss Coef: 0.00		
Bend Loss Coef: 0.00		
Bend Location: 0.00 dec		
Energy Switch: Energy		



Comment:

Channel Link: RF-80

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NF-85	NF-85
To Node:	NF-80	NF-80
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	3250.00 ft	3250.00 ft
Contraction Coef:	0.10	0.10
Expansion Coef:	0.30	0.30
Entr Loss Coef:	0.00	0.00
Exit Loss Coef:	0.00	0.00
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 5.68 ft	Invert: 4.58 ft
	Manning's N: 0.0500	Manning's N: 0.0500
	Geometry: Irregular	Geometry: Irregular
	Cross Section: RF80-85	Cross Section: RF80-85

Comment:

Channel Link: RF-85

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NF-90	NF-90
To Node:	NF-85	NF-85
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	5460.00 ft	5460.00 ft
Contraction Coef:	0.10	0.10
Expansion Coef:	0.30	0.30
Entr Loss Coef:	0.00	0.00
	Invert: 7.58 ft	Invert: 5.68 ft
	Manning's N: 0.0500	Manning's N: 0.0500
	Geometry: Irregular	Geometry: Irregular
	Cross Section: RF80-85	Cross Section: RF80-85

Exit Loss Coef: 0.00  
 Bend Loss Coef: 0.00  
 Bend Location: 0.00 dec  
 Energy Switch: Energy

Comment:

Pipe Link: RI-05	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 10.58 ft	Invert: 10.58 ft
From Node: NI-05	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NF-85	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 80.00 ft	Op Table:	Op Table:
FHWA Code: 6	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 1.00	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RI-10	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 12.58 ft	Invert: 10.58 ft
From Node: NI-10	Manning's N: 0.0500	Manning's N: 0.0500
To Node: NI-05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9986.42 ft	Max Depth: 9988.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft

Length: 740.00 ft	Left Slope: 1.000 (h:v)	Left Slope: 1.000 (h:v)
Contraction Coef: 0.00	Right Slope: 1.000 (h:v)	Right Slope: 1.000 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0500	Manning's N: 0.0500
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0500	Manning's N: 0.0500

Comment:

Drop Structure Link: RI-10W	Upstream Pipe	Downstream Pipe
Scenario: 2016 FWCD Update	Invert: 14.58 ft	Invert: 14.58 ft
From Node: NI-10W	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NI-10	Geometry: Circular	
Link Count: 1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction: Both	Bottom Clip	
Solution: Combine	Default: 0.00 ft	Default: 0.00 ft
Increments: 10	Op Table:	Op Table:
Pipe Count: 1	Ref Node:	Ref Node:
Damping: 0.0000 ft	Manning's N: 0.0240	Manning's N: 0.0240
Length: 40.00 ft	Top Clip	
FHWA Code: 4	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.50	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0240	Manning's N: 0.0240
Bend Location: 0.00 dec		
Energy Switch: Energy		

Pipe Comment:

Weir Component	
Weir: 1	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 15.58 ft	Op Table:
Control Elevation: 15.58 ft	Ref Node:
Max Depth: 999.00 ft	Discharge Coefficients
Max Width: 4.00 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Drop Structure Comment:

Channel Link: RI-20	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 12.58 ft	Invert: 12.58 ft
From Node: NI-20	Manning's N: 0.0500	Manning's N: 0.0500
To Node: NI-10	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9986.42 ft	Max Depth: 9986.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 1300.00 ft	Left Slope: 1.000 (h:v)	Left Slope: 1.000 (h:v)
Contraction Coef: 0.00	Right Slope: 1.000 (h:v)	Right Slope: 1.000 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:

Bend Location: 0.00 dec	Manning's N: 0.0500	Manning's N: 0.0500
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0500	Manning's N: 0.0500

Comment:

Pipe Link: RI-20A	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.58 ft	Invert: 16.58 ft
From Node: NI-20A	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NI-20	Geometry: Circular	
Link Count: 1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.33 ft	Default: 0.33 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Drop Structure Link: RI-20W	Upstream Pipe	Downstream Pipe
Scenario: 2016 FWCD Update	Invert: 14.58 ft	Invert: 14.58 ft
From Node: NI-20W	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NI-22	Geometry: Circular	
Link Count: 1	Max Depth: 1.50 ft	Max Depth: 1.50 ft

Flow Direction: Both	Bottom Clip	
Solution: Combine	Default: 0.00 ft	Default: 0.00 ft
Increments: 10	Op Table:	Op Table:
Pipe Count: 1	Ref Node:	Ref Node:
Damping: 0.0000 ft	Manning's N: 0.0240	Manning's N: 0.0240
Length: 40.00 ft	Top Clip	
FHWA Code: 4	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.50	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0240	Manning's N: 0.0240
Bend Location: 0.00 dec		
Energy Switch: Energy		

Pipe Comment:

Weir Component

Weir: 1	Bottom Clip	
Weir Count: 1	Default: 0.00 ft	
Weir Flow Direction: Both	Op Table:	
Damping: 0.0000 ft	Ref Node:	
Weir Type: Sharp Crested Vertical	Top Clip	
Geometry Type: Rectangular	Default: 0.00 ft	
Invert: 15.58 ft	Op Table:	
Control Elevation: 15.58 ft	Ref Node:	
Max Depth: 999.00 ft	Discharge Coefficients	
Max Width: 4.00 ft	Weir Default: 3.200	
Fillet: 0.00 ft	Weir Table:	
	Orifice Default: 0.600	
	Orifice Table:	

Weir Comment:

Drop Structure Comment:

Weir Link: RI-21		
Scenario:	2016 FWCD Update	Bottom Clip
From Node:	NI-21	Default: 0.00 ft
To Node:	NI-20	Op Table:
Link Count:	1	Ref Node:
Flow Direction:	Both	Top Clip
Damping:	0.0000 ft	Default: 0.00 ft
Weir Type:	Sharp Crested Vertical	Op Table:
Geometry Type:	Rectangular	Ref Node:
Invert:	13.58 ft	Discharge Coefficients
Control Elevation:	13.58 ft	Weir Default: 3.200
Max Depth:	999.00 ft	Weir Table:
Max Width:	20.00 ft	Orifice Default: 0.600
Fillet:	0.00 ft	Orifice Table:
Comment: INTERNAL DITCH MAIN WEIR		

Channel Link: RI-22		
	Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 12.58 ft
From Node:	NI-22	Manning's N: 0.0500
To Node:	NI-21	Manning's N: 0.0500
Link Count:	1	Geometry: Trapezoidal
Flow Direction:	Both	Max Depth: 9986.42 ft
Damping:	0.0000 ft	Extrapolation: Normal
Length:	600.00 ft	Bottom Width: 15.00 ft
Contraction Coef:	0.00	Left Slope: 1.000 (h:v)
Expansion Coef:	0.00	Right Slope: 1.000 (h:v)
Entr Loss Coef:	0.00	Bottom Clip
Exit Loss Coef:	0.00	Default: 0.00 ft
Bend Loss Coef:	0.00	Op Table:
Bend Location:	0.00 dec	Ref Node:
Energy Switch:	Energy	Manning's N: 0.0500
		Top Clip
	Default: 0.00 ft	Default: 0.00 ft

Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0500	Manning's N: 0.0500

Comment:

Pipe Link: RI-24

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 12.58 ft	Invert: 12.58 ft
From Node: NI-24	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NI-22	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 60.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RI-25

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 12.58 ft	Invert: 12.58 ft
From Node: NI-25	Manning's N: 0.0500	Manning's N: 0.0500
To Node: NI-24	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9986.42 ft	Max Depth: 9986.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 15.00 ft	Bottom Width: 15.00 ft
Length: 600.00 ft	Left Slope: 1.000 (h:v)	Left Slope: 1.000 (h:v)



Contraction Coef: 0.00	Right Slope: 1.000 (h:v)	Right Slope: 1.000 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0500	Manning's N: 0.0500
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0500	Manning's N: 0.0500

Comment:

Drop Structure Link: RI-25A	Upstream Pipe	Downstream Pipe
Scenario: 2016 FWCD Update	Invert: 14.58 ft	Invert: 14.58 ft
From Node: NI-25A	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NI-25	Geometry: Circular	
Link Count: 1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction: Both	Bottom Clip	
Solution: Combine	Default: 0.00 ft	Default: 0.00 ft
Increments: 10	Op Table:	Op Table:
Pipe Count: 1	Ref Node:	Ref Node:
Damping: 0.0000 ft	Manning's N: 0.0240	Manning's N: 0.0240
Length: 40.00 ft	Top Clip	
FHWA Code: 4	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.50	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0240	Manning's N: 0.0240
Bend Location: 0.00 dec		
Energy Switch: Energy		

Pipe Comment:

Weir Component	
Weir: 1	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 15.58 ft	Op Table:
Control Elevation: 15.58 ft	Ref Node:
Max Depth: 999.00 ft	Discharge Coefficients
Max Width: 4.00 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Drop Structure Comment:

Channel Link: RI-25B	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.58 ft	Invert: 14.58 ft
From Node: NI-25B	Manning's N: 0.0500	Manning's N: 0.0500
To Node: NI-25A	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9984.42 ft	Max Depth: 9984.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 4.00 ft	Bottom Width: 4.00 ft
Length: 2000.00 ft	Left Slope: 1.000 (h:v)	Left Slope: 1.000 (h:v)
Contraction Coef: 0.00	Right Slope: 1.000 (h:v)	Right Slope: 1.000 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0500	Manning's N: 0.0500

Energy Switch: Energy

Top Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0500	Manning's N: 0.0500

Comment:

Drop Structure Link: RI-25C

Upstream Pipe

Downstream Pipe

Scenario: 2016 FWCD Update	Invert: 15.58 ft	Invert: 15.58 ft
From Node: NI-25C	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NI-25B	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction: Both	Bottom Clip	
Solution: Combine	Default: 0.00 ft	Default: 0.00 ft
Increments: 10	Op Table:	Op Table:
Pipe Count: 1	Ref Node:	Ref Node:
Damping: 0.0000 ft	Manning's N: 0.0240	Manning's N: 0.0240
Length: 40.00 ft	Top Clip	
FHWA Code: 4	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.50	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0240	Manning's N: 0.0240
Bend Location: 0.00 dec		
Energy Switch: Energy		

Pipe Comment:

Weir Component

Weir: 1	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip

Geometry Type: Rectangular  
 Invert: 16.58 ft  
 Control Elevation: 16.58 ft  
 Max Depth: 999.00 ft  
 Max Width: 4.00 ft  
 Fillet: 0.00 ft

Default: 0.00 ft

Op Table:

Ref Node:

Discharge Coefficients

Weir Default: 3.200

Weir Table:

Orifice Default: 0.600

Orifice Table:

Weir Comment:

Drop Structure Comment:

Channel Link: RI-30

Scenario: 2016 FWCD Update  
 From Node: NI-30  
 To Node: NI-25  
 Link Count: 1  
 Flow Direction: Both  
 Damping: 0.0000 ft  
 Length: 660.00 ft  
 Contraction Coef: 0.00  
 Expansion Coef: 0.00  
 Entr Loss Coef: 0.00  
 Exit Loss Coef: 0.00  
 Bend Loss Coef: 0.00  
 Bend Location: 0.00 dec  
 Energy Switch: Energy

Upstream

Invert: 12.58 ft

Manning's N: 0.0500

Geometry: Trapezoidal

Max Depth: 9986.42 ft

Extrapolation: Normal

Bottom Width: 15.00 ft

Left Slope: 1.000 (h:v)

Right Slope: 1.000 (h:v)

Downstream

Invert: 12.58 ft

Manning's N: 0.0500

Geometry: Trapezoidal

Max Depth: 9986.42 ft

Extrapolation: Normal

Bottom Width: 15.00 ft

Left Slope: 1.000 (h:v)

Right Slope: 1.000 (h:v)

Bottom Clip

Default: 0.00 ft

Op Table:

Ref Node:

Manning's N: 0.0500

Default: 0.00 ft

Op Table:

Ref Node:

Manning's N: 0.0500

Top Clip

Default: 0.00 ft

Op Table:

Ref Node:

Manning's N: 0.0500

Default: 0.00 ft

Op Table:

Ref Node:

Manning's N: 0.0500

Comment:

Drop Structure Link: RI-30W		Upstream Pipe	Downstream Pipe
Scenario:	2016 FWCD Update	Invert: 13.58 ft	Invert: 13.58 ft
From Node:	NI-30W	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NI-30	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction:	Both	Bottom Clip	
Solution:	Combine	Default: 0.00 ft	Default: 0.00 ft
Increments:	10	Op Table:	Op Table:
Pipe Count:	1	Ref Node:	Ref Node:
Damping:	0.0000 ft	Manning's N: 0.0240	Manning's N: 0.0240
Length:	40.00 ft	Top Clip	
FHWA Code:	4	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef:	0.50	Op Table:	Op Table:
Exit Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Loss Coef:	0.00	Manning's N: 0.0240	Manning's N: 0.0240
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Pipe Comment:

Weir Component		
Weir:	1	Bottom Clip
Weir Count:	1	Default: 0.00 ft
Weir Flow Direction:	Both	Op Table:
Damping:	0.0000 ft	Ref Node:
Weir Type:	Sharp Crested Vertical	Top Clip
Geometry Type:	Rectangular	Default: 0.00 ft
Invert:	14.58 ft	Op Table:
Control Elevation:	14.58 ft	Ref Node:
Max Depth:	999.00 ft	Discharge Coefficients
Max Width:	4.00 ft	Weir Default: 3.200

Fillet: 0.00 ft

Weir Table:  
Orifice Default: 0.600  
Orifice Table:

Weir Comment:

Drop Structure Comment:

Channel Link: RI-40

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NI-40	
To Node:	NI-30	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	1320.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 12.58 ft	Invert: 12.58 ft
	Manning's N: 0.0500	Manning's N: 0.0500
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9986.42 ft	Max Depth: 9986.42 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 15.00 ft	Bottom Width: 15.00 ft
	Left Slope: 1.000 (h:v)	Left Slope: 1.000 (h:v)
	Right Slope: 1.000 (h:v)	Right Slope: 1.000 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0500	Manning's N: 0.0500
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0500	Manning's N: 0.0500

Comment:

Drop Structure Link: RI-40A

Upstream Pipe

Downstream Pipe

Scenario:	2016 FWCD Update	Invert:	13.58 ft	Invert:	13.58 ft
From Node:	NI-40A	Manning's N:	0.0240	Manning's N:	0.0240
To Node:	NI-40	Geometry:	Circular	Geometry:	Circular
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	10	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0000 ft	Manning's N:	0.0240	Manning's N:	0.0240
Length:	40.00 ft	Top Clip			
FHWA Code:	4	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0240	Manning's N:	0.0240
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component

Weir:	1	Bottom Clip			
Weir Count:	1	Default:	0.00 ft		
Weir Flow Direction:	Both	Op Table:			
Damping:	0.0000 ft	Ref Node:			
Weir Type:	Sharp Crested Vertical	Top Clip			
Geometry Type:	Rectangular	Default:	0.00 ft		
Invert:	14.58 ft	Op Table:			
Control Elevation:	14.58 ft	Ref Node:			
Max Depth:	999.00 ft	Discharge Coefficients			
Max Width:	4.00 ft	Weir Default:	3.200		
Fillet:	0.00 ft	Weir Table:			
		Orifice Default:	0.600		
		Orifice Table:			

Weir Comment:

Drop Structure Comment:

Channel Link: RI-40B		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 14.58 ft	Invert: 14.58 ft
From Node:	NI-40B	Manning's N: 0.0500	Manning's N: 0.0500
To Node:	NI-40A	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9984.42 ft	Max Depth: 9984.42 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 4.00 ft	Bottom Width: 4.00 ft
Length:	2000.00 ft	Left Slope: 1.000 (h:v)	Left Slope: 1.000 (h:v)
Contraction Coef:	0.00	Right Slope: 1.000 (h:v)	Right Slope: 1.000 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0500	Manning's N: 0.0500
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0500	Manning's N: 0.0500
Comment:			

Drop Structure Link: RI-40C		Upstream Pipe	Downstream Pipe
Scenario:	2016 FWCD Update	Invert: 15.58 ft	Invert: 15.58 ft
From Node:	NI-40C	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NI-40B	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction:	Both	Bottom Clip	
Solution:	Combine	Default: 0.00 ft	Default: 0.00 ft
Increments:	10	Op Table:	Op Table:
Pipe Count:	1	Ref Node:	Ref Node:
Damping:	0.0000 ft	Manning's N: 0.0240	Manning's N: 0.0240
Length:	40.00 ft	Top Clip	



FHWA Code: 4	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.50	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0240	Manning's N: 0.0240
Bend Location: 0.00 dec		
Energy Switch: Energy		

Pipe Comment:

Weir Component

Weir: 1	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 16.58 ft	Op Table:
Control Elevation: 16.58 ft	Ref Node:
Max Depth: 999.00 ft	Discharge Coefficients
Max Width: 4.00 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Drop Structure Comment:

Pipe Link: RI-40M

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.58 ft	Invert: 16.58 ft
From Node: NI-40B	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NI-40M	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction: Positive	Bottom Clip	

Damping: 0.0000 ft	Default: 0.25 ft	Default: 0.25 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment: CULVERT TO WETLAND #1

Drop Structure Link: RI-40W

	Upstream Pipe	Downstream Pipe
Scenario: 2016 FWCD Update	Invert: 13.58 ft	Invert: 13.58 ft
From Node: NI-40W	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NI-40	Geometry: Circular	
Link Count: 1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction: Both	Bottom Clip	
Solution: Combine	Default: 0.00 ft	Default: 0.00 ft
Increments: 10	Op Table:	Op Table:
Pipe Count: 1	Ref Node:	Ref Node:
Damping: 0.0000 ft	Manning's N: 0.0240	Manning's N: 0.0240
Length: 40.00 ft	Top Clip	
FHWA Code: 4	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.50	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0240	Manning's N: 0.0240
Bend Location: 0.00 dec		
Energy Switch: Energy		

Pipe Comment:

Weir Component

Weir: 1

Bottom Clip

Weir Count:	1	
Weir Flow Direction:	Both	Default: 0.00 ft
Damping:	0.0000 ft	Op Table:
Weir Type:	Sharp Crested Vertical	Ref Node:
Geometry Type:	Rectangular	Top Clip
Invert:	14.58 ft	Default: 0.00 ft
Control Elevation:	14.58 ft	Op Table:
Max Depth:	999.00 ft	Ref Node:
Max Width:	4.00 ft	Discharge Coefficients
Fillet:	0.00 ft	Weir Default: 3.200
		Weir Table:
		Orifice Default: 0.600
		Orifice Table:

Weir Comment:

Drop Structure Comment:

Channel Link: RI-49	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 12.58 ft	Invert: 12.58 ft
From Node: NI-49	Manning's N: 0.0500	Manning's N: 0.0500
To Node: NI-40	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9986.42 ft	Max Depth: 9986.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 15.00 ft	Bottom Width: 15.00 ft
Length: 1233.00 ft	Left Slope: 1.000 (h:v)	Left Slope: 1.000 (h:v)
Contraction Coef: 0.00	Right Slope: 1.000 (h:v)	Right Slope: 1.000 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0500	Manning's N: 0.0500
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0500	Manning's N: 0.0500

Comment:

Pipe Link: RI-50

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 12.58 ft	Invert: 12.58 ft
From Node: NI-50	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NI-49	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 60.00 ft	Op Table:	Op Table:
FHWA Code: 6	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Drop Structure Link: RI-50A

	Upstream Pipe	Downstream Pipe
Scenario: 2016 FWCD Update	Invert: 13.58 ft	Invert: 13.58 ft
From Node: NI-50A	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NI-50	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction: Both	Bottom Clip	
Solution: Combine	Default: 0.00 ft	Default: 0.00 ft

Increments: 10	Op Table:	Op Table:
Pipe Count: 1	Ref Node:	Ref Node:
Damping: 0.0000 ft	Manning's N: 0.0240	Manning's N: 0.0240
Length: 40.00 ft	Top Clip	
FHWA Code: 4	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.50	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0240	Manning's N: 0.0240
Bend Location: 0.00 dec		
Energy Switch: Energy		

Pipe Comment:

Weir Component

Weir: 1	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 14.58 ft	Op Table:
Control Elevation: 14.58 ft	Ref Node:
Max Depth: 999.00 ft	Discharge Coefficients
Max Width: 4.00 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Drop Structure Comment:

Channel Link: RI-50B	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 12.58 ft	Invert: 12.58 ft

From Node: NI-50B	Manning's N: 0.0500	Manning's N: 0.0500
To Node: NI-50A	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9986.42 ft	Max Depth: 9986.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 4.00 ft	Bottom Width: 4.00 ft
Length: 2000.00 ft	Left Slope: 1.000 (h:v)	Left Slope: 1.000 (h:v)
Contraction Coef: 0.00	Right Slope: 1.000 (h:v)	Right Slope: 1.000 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0500	Manning's N: 0.0500
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0500	Manning's N: 0.0500

Comment:

Drop Structure Link: RI-50C	Upstream Pipe	Downstream Pipe
Scenario: 2016 FWCD Update	Invert: 15.58 ft	Invert: 15.58 ft
From Node: NI-50C	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NI-50B	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction: Both	Bottom Clip	
Solution: Combine	Default: 0.00 ft	Default: 0.00 ft
Increments: 10	Op Table:	Op Table:
Pipe Count: 1	Ref Node:	Ref Node:
Damping: 0.0000 ft	Manning's N: 0.0240	Manning's N: 0.0240
Length: 40.00 ft	Top Clip	
FHWA Code: 4	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.50	Op Table:	Op Table:

Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0240	Manning's N: 0.0240
Bend Location: 0.00 dec		
Energy Switch: Energy		

Pipe Comment:

Weir Component	
Weir: 1	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 16.58 ft	Op Table:
Control Elevation: 16.58 ft	Ref Node:
Max Depth: 999.00 ft	Discharge Coefficients
Max Width: 4.00 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Drop Structure Comment:

Drop Structure Link: RI-50W	Upstream Pipe	Downstream Pipe
Scenario: 2016 FWCD Update	Invert: 13.58 ft	Invert: 13.58 ft
From Node: NI-50W	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NI-50	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction: Both	Bottom Clip	
Solution: Combine	Default: 0.00 ft	Default: 0.00 ft
Increments: 10	Op Table:	Op Table:

Pipe Count: 1	Ref Node:	Ref Node:
Damping: 0.0000 ft	Manning's N: 0.0240	Manning's N: 0.0240
Length: 40.00 ft	Top Clip	
FHWA Code: 4	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.50	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0240	Manning's N: 0.0240
Bend Location: 0.00 dec		
Energy Switch: Energy		

Pipe Comment:

Weir Component

Weir: 1	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 14.58 ft	Op Table:
Control Elevation: 14.58 ft	Ref Node:
Max Depth: 999.00 ft	Discharge Coefficients
Max Width: 4.00 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Drop Structure Comment:

Channel Link: RI-60	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 12.58 ft	Invert: 12.58 ft
From Node: NI-60	Manning's N: 0.0500	Manning's N: 0.0500



To Node: NI-50	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9986.42 ft	Max Depth: 9986.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 15.00 ft	Bottom Width: 15.00 ft
Length: 1340.00 ft	Left Slope: 1.000 (h:v)	Left Slope: 1.000 (h:v)
Contraction Coef: 0.00	Right Slope: 1.000 (h:v)	Right Slope: 1.000 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0500	Manning's N: 0.0500
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0500	Manning's N: 0.0500

Comment:

Drop Structure Link: RI-60A	Upstream Pipe	Downstream Pipe
Scenario: 2016 FWCD Update	Invert: 13.58 ft	Invert: 13.58 ft
From Node: NI-60A	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NI-60	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction: Both	Bottom Clip	
Solution: Combine	Default: 0.00 ft	Default: 0.00 ft
Increments: 10	Op Table:	Op Table:
Pipe Count: 1	Ref Node:	Ref Node:
Damping: 0.0000 ft	Manning's N: 0.0240	Manning's N: 0.0240
Length: 40.00 ft	Top Clip	
FHWA Code: 4	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.50	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:



Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0500	Manning's N: 0.0500
Energy Switch:	Energy	Top Clip	

Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0500	Manning's N:	0.0500

Comment:

Drop Structure Link: RI-60C		Upstream Pipe		Downstream Pipe	
Scenario:	2016 FWCD Update	Invert:	15.58 ft	Invert:	15.58 ft
From Node:	NI-60C	Manning's N:	0.0240	Manning's N:	0.0240
To Node:	NI-60B	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	1.50 ft	Max Depth:	1.50 ft
Flow Direction:	Both	Bottom Clip			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	10	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0000 ft	Manning's N:	0.0240	Manning's N:	0.0240
Length:	40.00 ft	Top Clip			
FHWA Code:	4	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0240	Manning's N:	0.0240
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component

Weir: 1 Weir Count: 1 Weir Flow Direction: Both Damping: 0.0000 ft Weir Type: Sharp Crested Vertical Geometry Type: Rectangular Invert: 16.58 ft Control Elevation: 16.58 ft Max Depth: 999.00 ft Max Width: 4.00 ft Fillet: 0.00 ft	<table border="0"> <tr><td colspan="2" style="background-color: #cccccc;">Bottom Clip</td></tr> <tr><td>Default:</td><td>0.00 ft</td></tr> <tr><td>Op Table:</td><td></td></tr> <tr><td>Ref Node:</td><td></td></tr> <tr><td colspan="2" style="background-color: #cccccc;">Top Clip</td></tr> <tr><td>Default:</td><td>0.00 ft</td></tr> <tr><td>Op Table:</td><td></td></tr> <tr><td>Ref Node:</td><td></td></tr> <tr><td colspan="2" style="background-color: #cccccc;">Discharge Coefficients</td></tr> <tr><td>Weir Default:</td><td>3.200</td></tr> <tr><td>Weir Table:</td><td></td></tr> <tr><td>Orifice Default:</td><td>0.600</td></tr> <tr><td>Orifice Table:</td><td></td></tr> </table>	Bottom Clip		Default:	0.00 ft	Op Table:		Ref Node:		Top Clip		Default:	0.00 ft	Op Table:		Ref Node:		Discharge Coefficients		Weir Default:	3.200	Weir Table:		Orifice Default:	0.600	Orifice Table:	
Bottom Clip																											
Default:	0.00 ft																										
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Ref Node:																											
Discharge Coefficients																											
Weir Default:	3.200																										
Weir Table:																											
Orifice Default:	0.600																										
Orifice Table:																											

Weir Comment:

Drop Structure Comment:

Drop Structure Link: RI-60W		Upstream Pipe	Downstream Pipe
Scenario:	2016 FWCD Update	Invert: 12.58 ft	Invert: 12.58 ft
From Node:	NI-60W	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NI-60	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction:	Both	Bottom Clip	
Solution:	Combine	Default: 0.00 ft	Default: 0.00 ft
Increments:	10	Op Table:	Op Table:
Pipe Count:	1	Ref Node:	Ref Node:
Damping:	0.0000 ft	Manning's N: 0.0240	Manning's N: 0.0240
Length:	40.00 ft	Top Clip	
FHWA Code:	4	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef:	0.50	Op Table:	Op Table:
Exit Loss Coef:	0.00	Ref Node:	Ref Node:



Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0500	Manning's N: 0.0500
Energy Switch:	Energy	Top Clip	

Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0500	Manning's N:	0.0500

Comment:

Drop Structure Link: RI-70A		Upstream Pipe		Downstream Pipe	
Scenario:	2016 FWCD Update	Invert:	13.58 ft	Invert:	13.58 ft
From Node:	NI-70A	Manning's N:	0.0240	Manning's N:	0.0240
To Node:	NI-70	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	10	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0000 ft	Manning's N:	0.0240	Manning's N:	0.0240
Length:	40.00 ft	Top Clip			
FHWA Code:	4	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0240	Manning's N:	0.0240
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component

Weir: 1 Weir Count: 1 Weir Flow Direction: Both Damping: 0.0000 ft Weir Type: Sharp Crested Vertical Geometry Type: Rectangular Invert: 14.58 ft Control Elevation: 14.58 ft Max Depth: 999.00 ft Max Width: 4.00 ft Fillet: 0.00 ft	<table border="0"> <tr><td colspan="2" style="background-color: #cccccc;">Bottom Clip</td></tr> <tr><td>Default:</td><td>0.00 ft</td></tr> <tr><td>Op Table:</td><td></td></tr> <tr><td>Ref Node:</td><td></td></tr> <tr><td colspan="2" style="background-color: #cccccc;">Top Clip</td></tr> <tr><td>Default:</td><td>0.00 ft</td></tr> <tr><td>Op Table:</td><td></td></tr> <tr><td>Ref Node:</td><td></td></tr> <tr><td colspan="2" style="background-color: #cccccc;">Discharge Coefficients</td></tr> <tr><td>Weir Default:</td><td>3.200</td></tr> <tr><td>Weir Table:</td><td></td></tr> <tr><td>Orifice Default:</td><td>0.600</td></tr> <tr><td>Orifice Table:</td><td></td></tr> </table>	Bottom Clip		Default:	0.00 ft	Op Table:		Ref Node:		Top Clip		Default:	0.00 ft	Op Table:		Ref Node:		Discharge Coefficients		Weir Default:	3.200	Weir Table:		Orifice Default:	0.600	Orifice Table:	
Bottom Clip																											
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Discharge Coefficients																											
Weir Default:	3.200																										
Weir Table:																											
Orifice Default:	0.600																										
Orifice Table:																											

Weir Comment:

Drop Structure Comment:

Channel Link: RI-70B	Upstream	Downstream																																												
Scenario: 2016 FWCD Update From Node: NI-70B To Node: NI-70A Link Count: 1 Flow Direction: Both Damping: 0.0000 ft Length: 2000.00 ft Contraction Coef: 0.00 Expansion Coef: 0.00 Entr Loss Coef: 0.00 Exit Loss Coef: 0.00 Bend Loss Coef: 0.00 Bend Location: 0.00 dec	Invert: 13.58 ft Manning's N: 0.0500 <table border="0" style="background-color: #cccccc;"> <tr><td colspan="2" style="text-align: center;">Geometry: Trapezoidal</td></tr> <tr><td>Max Depth:</td><td>9985.42 ft</td></tr> <tr><td>Extrapolation:</td><td>Normal</td></tr> <tr><td>Bottom Width:</td><td>4.00 ft</td></tr> <tr><td>Left Slope:</td><td>1.000 (h:v)</td></tr> <tr><td>Right Slope:</td><td>1.000 (h:v)</td></tr> </table> <table border="0" style="background-color: #cccccc;"> <tr><td colspan="2" style="text-align: center;">Bottom Clip</td></tr> <tr><td>Default:</td><td>0.00 ft</td></tr> <tr><td>Op Table:</td><td></td></tr> <tr><td>Ref Node:</td><td></td></tr> <tr><td>Manning's N:</td><td>0.0500</td></tr> </table>	Geometry: Trapezoidal		Max Depth:	9985.42 ft	Extrapolation:	Normal	Bottom Width:	4.00 ft	Left Slope:	1.000 (h:v)	Right Slope:	1.000 (h:v)	Bottom Clip		Default:	0.00 ft	Op Table:		Ref Node:		Manning's N:	0.0500	Invert: 13.58 ft Manning's N: 0.0500 <table border="0" style="background-color: #cccccc;"> <tr><td colspan="2" style="text-align: center;">Geometry: Trapezoidal</td></tr> <tr><td>Max Depth:</td><td>9985.42 ft</td></tr> <tr><td>Extrapolation:</td><td>Normal</td></tr> <tr><td>Bottom Width:</td><td>4.00 ft</td></tr> <tr><td>Left Slope:</td><td>1.000 (h:v)</td></tr> <tr><td>Right Slope:</td><td>1.000 (h:v)</td></tr> </table> <table border="0" style="background-color: #cccccc;"> <tr><td colspan="2" style="text-align: center;">Bottom Clip</td></tr> <tr><td>Default:</td><td>0.00 ft</td></tr> <tr><td>Op Table:</td><td></td></tr> <tr><td>Ref Node:</td><td></td></tr> <tr><td>Manning's N:</td><td>0.0500</td></tr> </table>	Geometry: Trapezoidal		Max Depth:	9985.42 ft	Extrapolation:	Normal	Bottom Width:	4.00 ft	Left Slope:	1.000 (h:v)	Right Slope:	1.000 (h:v)	Bottom Clip		Default:	0.00 ft	Op Table:		Ref Node:		Manning's N:	0.0500
Geometry: Trapezoidal																																														
Max Depth:	9985.42 ft																																													
Extrapolation:	Normal																																													
Bottom Width:	4.00 ft																																													
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Bottom Clip																																														
Default:	0.00 ft																																													
Op Table:																																														
Ref Node:																																														
Manning's N:	0.0500																																													

Energy Switch: Energy

Top Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0500	Manning's N: 0.0500

Comment:

Drop Structure Link: RI-70C

Upstream Pipe

Downstream Pipe

Scenario: 2016 FWCD Update	Invert: 14.58 ft	Invert: 14.58 ft
From Node: NI-70C	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NI-70B	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction: Both	Bottom Clip	
Solution: Combine	Default: 0.00 ft	Default: 0.00 ft
Increments: 10	Op Table:	Op Table:
Pipe Count: 1	Ref Node:	Ref Node:
Damping: 0.0000 ft	Manning's N: 0.0240	Manning's N: 0.0240
Length: 40.00 ft	Top Clip	
FHWA Code: 4	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.50	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0240	Manning's N: 0.0240
Bend Location: 0.00 dec		
Energy Switch: Energy		

Pipe Comment:

Weir Component

Weir: 1	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip



Geometry Type:	Rectangular	
Invert:	15.58 ft	Default: 0.00 ft
Control Elevation:	15.58 ft	Op Table:
Max Depth:	999.00 ft	Ref Node:
Max Width:	4.00 ft	Discharge Coefficients
Fillet:	0.00 ft	Weir Default: 3.200
		Weir Table:
		Orifice Default: 0.600
		Orifice Table:

Weir Comment:

Drop Structure Comment:

Drop Structure Link: RI-70W	Upstream Pipe	Downstream Pipe
Scenario: 2016 FWCD Update	Invert: 12.58 ft	Invert: 12.58 ft
From Node: NI-70W	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NI-70	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction: Both	Bottom Clip	
Solution: Combine	Default: 0.00 ft	Default: 0.00 ft
Increments: 10	Op Table:	Op Table:
Pipe Count: 1	Ref Node:	Ref Node:
Damping: 0.0000 ft	Manning's N: 0.0240	Manning's N: 0.0240
Length: 40.00 ft	Top Clip	
FHWA Code: 4	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.50	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0240	Manning's N: 0.0240
Bend Location: 0.00 dec		
Energy Switch: Energy		

Pipe Comment:

Weir Component	
Weir: 1	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 13.58 ft	Op Table:
Control Elevation: 13.58 ft	Ref Node:
Max Depth: 999.00 ft	Discharge Coefficients
Max Width: 4.00 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Drop Structure Comment:

Drop Structure Link: RI-75A	Upstream Pipe	Downstream Pipe
Scenario: 2016 FWCD Update	Invert: 12.58 ft	Invert: 12.58 ft
From Node: NI-75A	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NI-80	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction: Both	Bottom Clip	
Solution: Combine	Default: 0.00 ft	Default: 0.00 ft
Increments: 10	Op Table:	Op Table:
Pipe Count: 1	Ref Node:	Ref Node:
Damping: 0.0000 ft	Manning's N: 0.0240	Manning's N: 0.0240
Length: 40.00 ft	Top Clip	
FHWA Code: 4	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.50	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:



Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment: CULVERT TO WETLAND #4

Channel Link: RI-80	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 12.58 ft	Invert: 12.58 ft
From Node: NI-80	Manning's N: 0.0500	Manning's N: 0.0500
To Node: NI-70	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9986.42 ft	Max Depth: 9986.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 15.00 ft	Bottom Width: 15.00 ft
Length: 660.00 ft	Left Slope: 1.000 (h:v)	Left Slope: 1.000 (h:v)
Contraction Coef: 0.00	Right Slope: 1.000 (h:v)	Right Slope: 1.000 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0500	Manning's N: 0.0500
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0500	Manning's N: 0.0500

Comment:

Drop Structure Link: RLAKEOVR	Upstream Pipe	Downstream Pipe
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Scenario:	2016 FWCD Update	Invert:	15.58 ft	Invert:	18.58 ft
From Node:	NLAKE	Manning's N:	0.0220	Manning's N:	0.0220
To Node:	NS10A	Geometry:	Circular	Geometry:	Circular
Link Count:	1	Max Depth:	2.50 ft	Max Depth:	2.50 ft
Flow Direction:	Both	Bottom Clip			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	10	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0000 ft	Manning's N:	0.0220	Manning's N:	0.0220
Length:	50.00 ft	Top Clip			
FHWA Code:	4	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.25	Op Table:		Op Table:	
Exit Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0220	Manning's N:	0.0220
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component

Weir:	1	Bottom Clip			
Weir Count:	1	Default:	0.00 ft		
Weir Flow Direction:	Both	Op Table:			
Damping:	0.0000 ft	Ref Node:			
Weir Type:	Sharp Crested Vertical	Top Clip			
Geometry Type:	Circular	Default:	0.00 ft		
Invert:	19.83 ft	Op Table:			
Control Elevation:	19.83 ft	Ref Node:			
Max Depth:	0.67 ft	Discharge Coefficients			
		Weir Default:	3.200		
		Weir Table:			
		Orifice Default:	0.600		
		Orifice Table:			

Weir Comment:

Weir Component

Weir: 2  
 Weir Count: 1  
 Weir Flow Direction: Both  
 Damping: 0.0000 ft  
 Weir Type: Sharp Crested Vertical  
 Geometry Type: Rectangular  
 Invert: 21.33 ft  
 Control Elevation: 21.33 ft  
 Max Depth: 1.00 ft  
 Max Width: 3.00 ft  
 Fillet: 0.00 ft

Bottom Clip  
 Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Top Clip  
 Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Discharge Coefficients  
 Weir Default: 3.200  
 Weir Table:  
 Orifice Default: 0.600  
 Orifice Table:

Weir Comment:

Weir Component

Weir: 3  
 Weir Count: 1  
 Weir Flow Direction: Both  
 Damping: 0.0000 ft  
 Weir Type: Horizontal  
 Geometry Type: Rectangular  
 Invert: 22.33 ft  
 Control Elevation: 22.33 ft  
 Max Depth: 2.00 ft  
 Max Width: 3.00 ft  
 Fillet: 0.00 ft

Bottom Clip  
 Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Top Clip  
 Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Discharge Coefficients  
 Weir Default: 3.200  
 Weir Table:  
 Orifice Default: 0.600  
 Orifice Table:

Weir Comment:

Drop Structure Comment:

Pipe Link: RLCUL1	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.28 ft	Invert: 20.08 ft
From Node: NL1	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NL2	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.25 ft	Max Depth: 1.25 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 429.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120
Comment:		

Pipe Link: RLCUL2N	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.44 ft	Invert: 19.78 ft
From Node: NL2	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NLDIV	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.25 ft	Default: 0.25 ft
Length: 158.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RLCUL2S	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.84 ft	Invert: 19.64 ft
From Node: NLDIVOVR	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NLOUT	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.25 ft	Default: 0.25 ft
Length: 128.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RLCUL3	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.18 ft	Invert: 20.08 ft
From Node: NL3	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NL2	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.25 ft	Default: 0.25 ft
Length: 356.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	



Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RLCUL4

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.08 ft	Invert: 20.18 ft
From Node: NL4	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NL3	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.25 ft	Max Depth: 1.25 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 318.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Weir Link: RLDIVW

Scenario: 2016 FWCD Update	Bottom Clip
From Node: NLDIV	Default: 0.00 ft
To Node: NLDIVOVR	Op Table:
Link Count: 1	Ref Node:
Flow Direction: Both	Top Clip
Damping: 0.0000 ft	Default: 0.00 ft

Weir Type:	Sharp Crested Vertical	
Geometry Type:	Rectangular	Op Table:
Invert:	21.33 ft	Ref Node:
Control Elevation:	21.33 ft	Discharge Coefficients
Max Depth:	1.25 ft	Weir Default: 3.200
Max Width:	2.00 ft	Weir Table:
Fillet:	0.00 ft	Orifice Default: 0.600
		Orifice Table:

Comment:

Weir Link: RLDIVWA

Scenario:	2016 FWCD Update	Bottom Clip
From Node:	NLDIV	Default: 0.00 ft
To Node:	NLDIVOVR	Op Table:
Link Count:	1	Ref Node:
Flow Direction:	Both	Top Clip
Damping:	0.0000 ft	Default: 0.00 ft
Weir Type:	Horizontal	Op Table:
Geometry Type:	Rectangular	Ref Node:
Invert:	22.61 ft	Discharge Coefficients
Control Elevation:	22.61 ft	Weir Default: 3.200
Max Depth:	1.50 ft	Weir Table:
Max Width:	2.00 ft	Orifice Default: 0.600
Fillet:	0.00 ft	Orifice Table:

Comment:

Pipe Link: RLLCUL

	Upstream	Downstream
Scenario:	2016 FWCD Update	
	Invert: 19.38 ft	Invert: 15.83 ft
From Node:	NL4	Manning's N: 0.0120
To Node:	NLAKE	Manning's N: 0.0120
	Geometry: Circular	Geometry: Circular

Link Count:	1	Max Depth:	1.25 ft	Max Depth:	1.25 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000	Default:	0.17 ft	Default:	0.17 ft
Length:	88.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0120	Manning's N:	0.0120
Exit Loss Coef:	0.90	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0120	Manning's N:	0.0120

Comment:

Pipe Link:	RLOUT	Upstream		Downstream	
Scenario:	2016 FWCD Update	Invert:	19.68 ft	Invert:	19.58 ft
From Node:	NLOUT	Manning's N:	0.0220	Manning's N:	0.0220
To Node:	NP13bC13	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000	Default:	0.33 ft	Default:	0.33 ft
Length:	40.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0220	Manning's N:	0.0220
Exit Loss Coef:	0.90	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0220	Manning's N:	0.0220

Comment:

Weir Link: ROADI-05

Scenario:	2016 FWCD Update	Bottom Clip
From Node:	NI-05	Default: 0.00 ft
To Node:	NF-85	Op Table:
Link Count:	1	Ref Node:
Flow Direction:	Both	Top Clip
Damping:	0.0000 ft	Default: 0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:
Geometry Type:	Rectangular	Ref Node:
Invert:	24.58 ft	Discharge Coefficients
Control Elevation:	24.58 ft	Weir Default: 2.800
Max Depth:	999.00 ft	Weir Table:
Max Width:	30.00 ft	Orifice Default: 0.600
Fillet:	0.00 ft	Orifice Table:

Comment: INTERNAL LATERAL OUTFALL

Weir Link: ROADI-20A

Scenario:	2016 FWCD Update	Bottom Clip
From Node:	NI-20A	Default: 0.00 ft
To Node:	NI-20	Op Table:
Link Count:	1	Ref Node:
Flow Direction:	Both	Top Clip
Damping:	0.0000 ft	Default: 0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:
Geometry Type:	Rectangular	Ref Node:
Invert:	24.58 ft	Discharge Coefficients
Control Elevation:	24.58 ft	Weir Default: 2.800
Max Depth:	999.00 ft	Weir Table:
Max Width:	30.00 ft	Orifice Default: 0.600
Fillet:	0.00 ft	Orifice Table:

Comment:

Weir Link: ROADI-25

Scenario:	2016 FWCD Update	Bottom Clip
From Node:	NI-25	Default: 0.00 ft
To Node:	NI-24	Op Table:
Link Count:	1	Ref Node:
Flow Direction:	Both	Top Clip
Damping:	0.0000 ft	Default: 0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:
Geometry Type:	Rectangular	Ref Node:
Invert:	23.58 ft	Discharge Coefficients
Control Elevation:	23.58 ft	Weir Default: 2.800
Max Depth:	999.00 ft	Weir Table:
Max Width:	30.00 ft	Orifice Default: 0.600
Fillet:	0.00 ft	Orifice Table:

Comment:

Weir Link: ROADI-50

Scenario:	2016 FWCD Update	Bottom Clip
From Node:	NI-50	Default: 0.00 ft
To Node:	NI-49	Op Table:
Link Count:	1	Ref Node:
Flow Direction:	Both	Top Clip
Damping:	0.0000 ft	Default: 0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:
Geometry Type:	Rectangular	Ref Node:
Invert:	23.58 ft	Discharge Coefficients
Control Elevation:	23.58 ft	Weir Default: 2.800
Max Depth:	999.00 ft	Weir Table:
Max Width:	30.00 ft	Orifice Default: 0.600
Fillet:	0.00 ft	Orifice Table:

Comment:

Weir Link: ROADP-10A

Scenario:	2016 FWCD Update	Bottom Clip
From Node:	NP01A05	Default: 0.00 ft
To Node:	NP-10	Op Table:
Link Count:	1	Ref Node:
Flow Direction:	Both	Top Clip
Damping:	0.0000 ft	Default: 0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:
Geometry Type:	Rectangular	Ref Node:
Invert:	23.68 ft	Discharge Coefficients
Control Elevation:	23.68 ft	Weir Default: 2.800
Max Depth:	999.00 ft	Weir Table:
Max Width:	30.00 ft	Orifice Default: 0.600
Fillet:	0.00 ft	Orifice Table:

Comment:

Weir Link: ROADP-10W

Scenario:	2016 FWCD Update	Bottom Clip
From Node:	NP-10W	Default: 0.00 ft
To Node:	NP-10	Op Table:
Link Count:	1	Ref Node:
Flow Direction:	Both	Top Clip
Damping:	0.0000 ft	Default: 0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:
Geometry Type:	Rectangular	Ref Node:
Invert:	23.88 ft	Discharge Coefficients
Control Elevation:	23.88 ft	Weir Default: 2.800
Max Depth:	999.00 ft	Weir Table:
Max Width:	30.00 ft	Orifice Default: 0.600
Fillet:	0.00 ft	Orifice Table:

Comment:

Weir Link: ROADP-30A

Scenario:	2016 FWCD Update	Bottom Clip
From Node:	NP03A05	Default: 0.00 ft
To Node:	NP-30	Op Table:
Link Count:	1	Ref Node:
Flow Direction:	Both	Top Clip
Damping:	0.0000 ft	Default: 0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:
Geometry Type:	Rectangular	Ref Node:
Invert:	24.48 ft	Discharge Coefficients
Control Elevation:	24.48 ft	Weir Default: 2.800
Max Depth:	999.00 ft	Weir Table:
Max Width:	30.00 ft	Orifice Default: 0.600
Fillet:	0.00 ft	Orifice Table:

Comment:

Weir Link: ROADP-30W

Scenario:	2016 FWCD Update	Bottom Clip
From Node:	NP-30W	Default: 0.00 ft
To Node:	NP-30	Op Table:
Link Count:	1	Ref Node:
Flow Direction:	Both	Top Clip
Damping:	0.0000 ft	Default: 0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:
Geometry Type:	Rectangular	Ref Node:
Invert:	28.58 ft	Discharge Coefficients
Control Elevation:	28.58 ft	Weir Default: 2.800
Max Depth:	999.00 ft	Weir Table:
Max Width:	50.00 ft	Orifice Default: 0.600
Fillet:	0.00 ft	Orifice Table:

Comment:

Weir Link: ROADP-40A

Scenario:	2016 FWCD Update	Bottom Clip
From Node:	NP04A01	Default: 0.00 ft
To Node:	NP-40	Op Table:
Link Count:	1	Ref Node:
Flow Direction:	Both	Top Clip
Damping:	0.0000 ft	Default: 0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:
Geometry Type:	Rectangular	Ref Node:
Invert:	22.98 ft	Discharge Coefficients
Control Elevation:	22.98 ft	Weir Default: 2.800
Max Depth:	999.00 ft	Weir Table:
Max Width:	30.00 ft	Orifice Default: 0.600
Fillet:	0.00 ft	Orifice Table:

Comment:

Weir Link: ROADP-50A

Scenario:	2016 FWCD Update	Bottom Clip
From Node:	NP05A03	Default: 0.00 ft
To Node:	NP-50	Op Table:
Link Count:	1	Ref Node:
Flow Direction:	Both	Top Clip
Damping:	0.0000 ft	Default: 0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:
Geometry Type:	Rectangular	Ref Node:
Invert:	22.18 ft	Discharge Coefficients
Control Elevation:	22.18 ft	Weir Default: 2.800
Max Depth:	999.00 ft	Weir Table:
Max Width:	30.00 ft	Orifice Default: 0.600
Fillet:	0.00 ft	Orifice Table:

Comment:



Weir Link: ROADP-80W

Scenario:	2016 FWCD Update	Bottom Clip
From Node:	NP-80W	Default: 0.00 ft
To Node:	NP-80	Op Table:
Link Count:	1	Ref Node:
Flow Direction:	Both	Top Clip
Damping:	0.0000 ft	Default: 0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:
Geometry Type:	Rectangular	Ref Node:
Invert:	22.48 ft	Discharge Coefficients
Control Elevation:	22.48 ft	Weir Default: 2.800
Max Depth:	999.00 ft	Weir Table:
Max Width:	30.00 ft	Orifice Default: 0.600
Fillet:	0.00 ft	Orifice Table:

Comment:

Weir Link: ROADP205

Scenario:	2016 FWCD Update	Bottom Clip
From Node:	NP02A05	Default: 0.00 ft
To Node:	NP-20	Op Table:
Link Count:	1	Ref Node:
Flow Direction:	Both	Top Clip
Damping:	0.0000 ft	Default: 0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:
Geometry Type:	Rectangular	Ref Node:
Invert:	23.78 ft	Discharge Coefficients
Control Elevation:	23.78 ft	Weir Default: 2.800
Max Depth:	999.00 ft	Weir Table:
Max Width:	30.00 ft	Orifice Default: 0.600
Fillet:	0.00 ft	Orifice Table:

Comment:

Weir Link: ROADU-50A

Scenario:	2016 FWCD Update	Bottom Clip
From Node:	NU-50A	Default: 0.00 ft
To Node:	NU-50	Op Table:
Link Count:	1	Ref Node:
Flow Direction:	Both	Top Clip
Damping:	0.0000 ft	Default: 0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:
Geometry Type:	Rectangular	Ref Node:
Invert:	20.78 ft	Discharge Coefficients
Control Elevation:	20.78 ft	Weir Default: 2.800
Max Depth:	999.00 ft	Weir Table:
Max Width:	30.00 ft	Orifice Default: 0.600
Fillet:	0.00 ft	Orifice Table:

Comment:

Weir Link: ROADU-60A

Scenario:	2016 FWCD Update	Bottom Clip
From Node:	NU-60A	Default: 0.00 ft
To Node:	NU-60	Op Table:
Link Count:	1	Ref Node:
Flow Direction:	Both	Top Clip
Damping:	0.0000 ft	Default: 0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:
Geometry Type:	Rectangular	Ref Node:
Invert:	20.18 ft	Discharge Coefficients
Control Elevation:	20.18 ft	Weir Default: 2.800
Max Depth:	999.00 ft	Weir Table:
Max Width:	30.00 ft	Orifice Default: 0.600
Fillet:	0.00 ft	Orifice Table:

Comment:

Channel Link: RP-10	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 5.08 ft	Invert: 5.08 ft
From Node: NP-10	Manning's N: 0.0350	Manning's N: 0.0350
To Node: NF-80	Geometry: Irregular	Geometry: Irregular
Link Count: 1	Cross Section: RP25'	Cross Section: RP25'
Flow Direction: Both		
Damping: 0.0000 ft		
Length: 1320.00 ft		
Contraction Coef: 0.10		
Expansion Coef: 0.30		
Entr Loss Coef: 0.00		
Exit Loss Coef: 1.00		
Bend Loss Coef: 0.00		
Bend Location: 0.00 dec		
Energy Switch: Energy		

Comment:

Channel Link: RP-100	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 8.58 ft	Invert: 8.08 ft
From Node: NP-100	Manning's N: 0.0350	Manning's N: 0.0350
To Node: NP-90	Geometry: Irregular	Geometry: Irregular
Link Count: 1	Cross Section: RP25'-1.8	Cross Section: RP25'-1.8
Flow Direction: Both		
Damping: 0.0000 ft		
Length: 1320.00 ft		
Contraction Coef: 0.10		
Expansion Coef: 0.30		
Entr Loss Coef: 0.00		
Exit Loss Coef: 0.00		
Bend Loss Coef: 0.00		
Bend Location: 0.00 dec		
Energy Switch: Energy		

Comment:

Pipe Link: RP-10W

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP-10W	
To Node:	NP-10	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	112.00 ft	
FHWA Code:	4	
Entr Loss Coef:	0.50	
Exit Loss Coef:	0.95	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 11.12 ft	Invert: 11.04 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 3.00 ft	Max Depth: 3.00 ft
	Bottom Clip	
	Default: 0.67 ft	Default: 0.67 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP-110

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP-110	
To Node:	NP-100	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	1320.00 ft	
Contraction Coef:	0.10	
Expansion Coef:	0.30	
Entr Loss Coef:	0.00	
	Invert: 9.08 ft	Invert: 8.58 ft
	Manning's N: 0.0350	Manning's N: 0.0350
	Geometry: Irregular	Geometry: Irregular
	Cross Section: RP25'-1.8	Cross Section: RP25'-1.8

Exit Loss Coef: 0.00  
 Bend Loss Coef: 0.00  
 Bend Location: 0.00 dec  
 Energy Switch: Energy

Comment:

Channel Link: RP-120		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 9.58 ft	Invert: 9.08 ft
From Node:	NP-120	Manning's N: 0.0350	Manning's N: 0.0350
To Node:	NP-110	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: RP25'-1.8	Cross Section: RP25'-1.8
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	1320.00 ft		
Contraction Coef:	0.10		
Expansion Coef:	0.30		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: RP-130		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 9.58 ft	Invert: 9.58 ft
From Node:	NP-130	Manning's N: 0.0350	Manning's N: 0.0350
To Node:	NP-120	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: RP20'-1.8	Cross Section: RP20'-1.8
Flow Direction:	Both		
Damping:	0.0000 ft		

Length: 1320.00 ft  
 Contraction Coef: 0.10  
 Expansion Coef: 0.30  
 Entr Loss Coef: 0.00  
 Exit Loss Coef: 0.00  
 Bend Loss Coef: 0.00  
 Bend Location: 0.00 dec  
 Energy Switch: Energy

Comment:

Channel Link: RP-135	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 9.58 ft	Invert: 9.58 ft
From Node: NP-135	Manning's N: 0.0350	Manning's N: 0.0350
To Node: NP-130	Geometry: Irregular	Geometry: Irregular
Link Count: 1	Cross Section: RP20'-1.8	Cross Section: RP20'-1.8
Flow Direction: Both		
Damping: 0.0000 ft		
Length: 600.00 ft		
Contraction Coef: 0.10		
Expansion Coef: 0.30		
Entr Loss Coef: 0.00		
Exit Loss Coef: 0.00		
Bend Loss Coef: 0.00		
Bend Location: 0.00 dec		
Energy Switch: Energy		

Comment:

Channel Link: RP-140	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 9.58 ft	Invert: 9.58 ft
From Node: NP-140	Manning's N: 0.0350	Manning's N: 0.0350

To Node:	NP-135	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: RP20'-1.8	Cross Section: RP20'-1.8
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	720.00 ft		
Contraction Coef:	0.10		
Expansion Coef:	0.30		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link:	RP-150	Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 10.08 ft	Invert: 9.58 ft
From Node:	NP-150	Manning's N: 0.0350	Manning's N: 0.0350
To Node:	NP-140	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: RP20'-1.8	Cross Section: RP20'-1.8
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	1320.00 ft		
Contraction Coef:	0.10		
Expansion Coef:	0.30		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: RP-160	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 10.58 ft	Invert: 10.08 ft
From Node: NP-160	Manning's N: 0.0350	Manning's N: 0.0350
To Node: NP-150	Geometry: Irregular	Geometry: Irregular
Link Count: 1	Cross Section: RP20'-1.8	Cross Section: RP20'-1.8
Flow Direction: Both		
Damping: 0.0000 ft		
Length: 1320.00 ft		
Contraction Coef: 0.10		
Expansion Coef: 0.30		
Entr Loss Coef: 0.00		
Exit Loss Coef: 0.00		
Bend Loss Coef: 0.00		
Bend Location: 0.00 dec		
Energy Switch: Energy		

Comment:

Channel Link: RP-170	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 10.58 ft	Invert: 10.58 ft
From Node: NP-170	Manning's N: 0.0350	Manning's N: 0.0350
To Node: NP-160	Geometry: Irregular	Geometry: Irregular
Link Count: 1	Cross Section: RP20'-1.8	Cross Section: RP20'-1.8
Flow Direction: Both		
Damping: 0.0000 ft		
Length: 1320.00 ft		
Contraction Coef: 0.10		
Expansion Coef: 0.30		
Entr Loss Coef: 0.00		
Exit Loss Coef: 0.00		
Bend Loss Coef: 0.00		
Bend Location: 0.00 dec		
Energy Switch: Energy		



Comment:

Channel Link: RP-180

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP-180	NP-170
To Node:	NP-170	NP-180
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	1320.00 ft	1320.00 ft
Contraction Coef:	0.10	0.10
Expansion Coef:	0.30	0.30
Entr Loss Coef:	0.00	0.00
Exit Loss Coef:	0.00	0.00
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 10.58 ft	Invert: 10.58 ft
	Manning's N: 0.0350	Manning's N: 0.0350
	Geometry: Irregular	Geometry: Irregular
	Cross Section: RP20'	Cross Section: RP20'

Comment:

Channel Link: RP-190

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP-190	NP-180
To Node:	NP-180	NP-190
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	1320.00 ft	1320.00 ft
Contraction Coef:	0.10	0.10
Expansion Coef:	0.30	0.30
Entr Loss Coef:	0.00	0.00
	Invert: 11.08 ft	Invert: 11.08 ft
	Manning's N: 0.0350	Manning's N: 0.0350
	Geometry: Irregular	Geometry: Irregular
	Cross Section: RP20'	Cross Section: RP20'

Exit Loss Coef: 0.00  
 Bend Loss Coef: 0.00  
 Bend Location: 0.00 dec  
 Energy Switch: Energy

Comment:

Channel Link: RP-20		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 5.38 ft	Invert: 5.08 ft
From Node:	NP-20	Manning's N: 0.0350	Manning's N: 0.0350
To Node:	NP-10	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: RP25'	Cross Section: RP25'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	1320.00 ft		
Contraction Coef:	0.10		
Expansion Coef:	0.30		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: RP-200		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 11.58 ft	Invert: 11.08 ft
From Node:	NP-200	Manning's N: 0.0350	Manning's N: 0.0350
To Node:	NP-190	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: RP20'-1.8	Cross Section: RP20'-1.8
Flow Direction:	Both		
Damping:	0.0000 ft		

Length: 1320.00 ft  
 Contraction Coef: 0.10  
 Expansion Coef: 0.30  
 Entr Loss Coef: 0.00  
 Exit Loss Coef: 0.00  
 Bend Loss Coef: 0.00  
 Bend Location: 0.00 dec  
 Energy Switch: Energy

Comment:

Channel Link: RP-210		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 12.08 ft	Invert: 11.58 ft
From Node:	NP-210	Manning's N: 0.0350	Manning's N: 0.0350
To Node:	NP-200	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: RP20'-1.8	Cross Section: RP20'-1.8
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	1320.00 ft		
Contraction Coef:	0.10		
Expansion Coef:	0.30		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: RP-220		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 12.58 ft	Invert: 12.08 ft
From Node:	NP-220	Manning's N: 0.0350	Manning's N: 0.0350

To Node:	NP-210	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: RP20'-1.8	Cross Section: RP20'-1.8
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	1320.00 ft		
Contraction Coef:	0.10		
Expansion Coef:	0.30		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: RP-230

		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 13.08 ft	Invert: 12.58 ft
From Node:	NP-230	Manning's N: 0.0350	Manning's N: 0.0350
To Node:	NP-220	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: RP20'-1.8	Cross Section: RP20'-1.8
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	1320.00 ft		
Contraction Coef:	0.10		
Expansion Coef:	0.30		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: RP-240	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 13.58 ft	Invert: 13.08 ft
From Node: NP-240	Manning's N: 0.0350	Manning's N: 0.0350
To Node: NP-230	Geometry: Irregular	Geometry: Irregular
Link Count: 1	Cross Section: RP20'	Cross Section: RP20'
Flow Direction: Both		
Damping: 0.0000 ft		
Length: 1320.00 ft		
Contraction Coef: 0.10		
Expansion Coef: 0.30		
Entr Loss Coef: 0.00		
Exit Loss Coef: 0.00		
Bend Loss Coef: 0.00		
Bend Location: 0.00 dec		
Energy Switch: Energy		

Comment:

Channel Link: RP-25	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 5.58 ft	Invert: 5.38 ft
From Node: NP-25	Manning's N: 0.0350	Manning's N: 0.0350
To Node: NP-20	Geometry: Irregular	Geometry: Irregular
Link Count: 1	Cross Section: RP25'	Cross Section: RP25'
Flow Direction: Both		
Damping: 0.0000 ft		
Length: 660.00 ft		
Contraction Coef: 0.10		
Expansion Coef: 0.30		
Entr Loss Coef: 0.00		
Exit Loss Coef: 0.00		
Bend Loss Coef: 0.00		
Bend Location: 0.00 dec		
Energy Switch: Energy		

Comment:

Drop Structure Link: RP-25A		Upstream Pipe	Downstream Pipe
Scenario:	2016 FWCD Update	Invert: 17.58 ft	Invert: 17.58 ft
From Node:	NP-25A	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP-25	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction:	Both	Bottom Clip	
Solution:	Combine	Default: 0.00 ft	Default: 0.00 ft
Increments:	10	Op Table:	Op Table:
Pipe Count:	1	Ref Node:	Ref Node:
Damping:	0.0000 ft	Manning's N: 0.0240	Manning's N: 0.0240
Length:	40.00 ft	Top Clip	
FHWA Code:	4	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef:	0.50	Op Table:	Op Table:
Exit Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Loss Coef:	0.00	Manning's N: 0.0240	Manning's N: 0.0240
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Pipe Comment:

Weir Component		
Weir:	1	Bottom Clip
Weir Count:	1	Default: 0.00 ft
Weir Flow Direction:	Both	Op Table:
Damping:	0.0000 ft	Ref Node:
Weir Type:	Sharp Crested Vertical	Top Clip
Geometry Type:	Rectangular	Default: 0.00 ft
Invert:	18.58 ft	Op Table:
Control Elevation:	18.58 ft	Ref Node:
Max Depth:	999.00 ft	Discharge Coefficients
Max Width:	4.00 ft	Weir Default: 3.200

Fillet: 0.00 ft

Weir Table:  
 Orifice Default: 0.600  
 Orifice Table:

Weir Comment:

Drop Structure Comment:

Channel Link: RP-30

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP-30	NP-25
To Node:	NP-25	NP-30
Link Count:	1	1
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	660.00 ft	
Contraction Coef:	0.10	
Expansion Coef:	0.30	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	

Comment:

Pipe Link: RP-30W

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP-30W	NP-30
To Node:	NP-30	NP-30W
Link Count:	1	1
Invert:	14.58 ft	14.58 ft
Manning's N:	0.0240	0.0240
Geometry:	Circular	Circular
Max Depth:	3.00 ft	3.00 ft

Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 120.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP-30W2	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.58 ft	Invert: 14.58 ft
From Node: NP-30W2	Manning's N: 0.0600	Manning's N: 0.0600
To Node: NP-30W	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9983.42 ft	Max Depth: 9984.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 4.00 ft	Bottom Width: 4.00 ft
Length: 1872.00 ft	Left Slope: 1.000 (h:v)	Left Slope: 1.000 (h:v)
Contraction Coef: 0.00	Right Slope: 1.000 (h:v)	Right Slope: 1.000 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0600	Manning's N: 0.0600
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0600	Manning's N: 0.0600

Comment:



Channel Link: RP-35		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 5.98 ft	Invert: 5.78 ft
From Node:	NP-35	Manning's N: 0.0350	Manning's N: 0.0350
To Node:	NP-30	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: RP25'	Cross Section: RP25'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	660.00 ft		
Contraction Coef:	0.10		
Expansion Coef:	0.30		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Drop Structure Link: RP-35A		Upstream Pipe	Downstream Pipe
Scenario:	2016 FWCD Update	Invert: 17.58 ft	Invert: 17.58 ft
From Node:	NP-35A	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP-35	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction:	Both	Bottom Clip	
Solution:	Combine	Default: 0.00 ft	Default: 0.00 ft
Increments:	10	Op Table:	Op Table:
Pipe Count:	1	Ref Node:	Ref Node:
Damping:	0.0000 ft	Manning's N: 0.0240	Manning's N: 0.0240
Length:	40.00 ft	Top Clip	
FHWA Code:	4	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef:	0.50	Op Table:	Op Table:
Exit Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Loss Coef:	0.00	Manning's N: 0.0240	Manning's N: 0.0240

Bend Location: 0.00 dec

Energy Switch: Energy

Pipe Comment:

Weir Component	
Weir: 1	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 18.58 ft	Op Table:
Control Elevation: 18.58 ft	Ref Node:
Max Depth: 999.00 ft	Discharge Coefficients
Max Width: 4.00 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Drop Structure Comment:

Channel Link: RP-40	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 6.18 ft	Invert: 5.98 ft
From Node: NP-40	Manning's N: 0.0350	Manning's N: 0.0350
To Node: NP-35	Geometry: Irregular	Geometry: Irregular
Link Count: 1	Cross Section: RP25'	Cross Section: RP25'
Flow Direction: Both		
Damping: 0.0000 ft		
Length: 660.00 ft		
Contraction Coef: 0.10		
Expansion Coef: 0.30		

Entr Loss Coef: 0.00  
 Exit Loss Coef: 0.00  
 Bend Loss Coef: 0.00  
 Bend Location: 0.00 dec  
 Energy Switch: Energy

Comment:

Channel Link: RP-45		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 6.33 ft	Invert: 6.18 ft
From Node:	NP-45	Manning's N: 0.0350	Manning's N: 0.0350
To Node:	NP-40	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: RP25'	Cross Section: RP25'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	660.00 ft		
Contraction Coef:	0.10		
Expansion Coef:	0.30		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Drop Structure Link: RP-45A		Upstream Pipe	Downstream Pipe
Scenario:	2016 FWCD Update	Invert: 16.58 ft	Invert: 16.58 ft
From Node:	NP-45A	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP-45	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction:	Both	Bottom Clip	

Solution: Combine	Default: 0.00 ft	Default: 0.00 ft
Increments: 10	Op Table:	Op Table:
Pipe Count: 1	Ref Node:	Ref Node:
Damping: 0.0000 ft	Manning's N: 0.0240	Manning's N: 0.0240
Length: 40.00 ft	Top Clip	
FHWA Code: 4	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.50	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0240	Manning's N: 0.0240
Bend Location: 0.00 dec		
Energy Switch: Energy		

Pipe Comment:

Weir Component

Weir: 1	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 17.58 ft	Op Table:
Control Elevation: 17.58 ft	Ref Node:
Max Depth: 999.00 ft	Discharge Coefficients
Max Width: 4.00 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Drop Structure Comment:

Channel Link: RP-50

Upstream

Downstream

Scenario:	2016 FWCD Update	Invert:	6.48 ft	Invert:	6.33 ft
From Node:	NP-50	Manning's N:	0.0350	Manning's N:	0.0350
To Node:	NP-45	Geometry:	Irregular	Geometry:	Irregular
Link Count:	1	Cross Section:	RP25'	Cross Section:	RP25'
Flow Direction:	Both				
Damping:	0.0000 ft				
Length:	660.00 ft				
Contraction Coef:	0.10				
Expansion Coef:	0.30				
Entr Loss Coef:	0.00				
Exit Loss Coef:	0.00				
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Comment:

Channel Link: RP-55	Upstream	Downstream			
Scenario:	2016 FWCD Update	Invert:	6.68 ft	Invert:	6.48 ft
From Node:	NP-55	Manning's N:	0.0350	Manning's N:	0.0350
To Node:	NP-50	Geometry:	Irregular	Geometry:	Irregular
Link Count:	1	Cross Section:	RP25'	Cross Section:	RP25'
Flow Direction:	Both				
Damping:	0.0000 ft				
Length:	660.00 ft				
Contraction Coef:	0.10				
Expansion Coef:	0.30				
Entr Loss Coef:	0.00				
Exit Loss Coef:	0.00				
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Comment:

Drop Structure Link: RP-55A		Upstream Pipe	Downstream Pipe
Scenario:	2016 FWCD Update	Invert: 16.58 ft	Invert: 16.58 ft
From Node:	NP-55A	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP-55	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction:	Both	Bottom Clip	
Solution:	Combine	Default: 0.00 ft	Default: 0.00 ft
Increments:	10	Op Table:	Op Table:
Pipe Count:	1	Ref Node:	Ref Node:
Damping:	0.0000 ft	Manning's N: 0.0240	Manning's N: 0.0240
Length:	40.00 ft	Top Clip	
FHWA Code:	4	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef:	0.50	Op Table:	Op Table:
Exit Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Loss Coef:	0.00	Manning's N: 0.0240	Manning's N: 0.0240
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default: 0.00 ft	
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default: 0.00 ft	
Geometry Type:	Rectangular	Op Table:	
Invert:	17.58 ft	Ref Node:	
Control Elevation:	17.58 ft	Discharge Coefficients	
Max Depth:	999.00 ft	Weir Default: 3.200	
Max Width:	4.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default: 0.600	
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Channel Link: RP-60

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP-60	NP-55
To Node:	NP-55	NP-60
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	660.00 ft	660.00 ft
Contraction Coef:	0.10	0.10
Expansion Coef:	0.30	0.30
Entr Loss Coef:	0.00	0.00
Exit Loss Coef:	0.00	0.00
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 6.88 ft	Invert: 6.68 ft
	Manning's N: 0.0350	Manning's N: 0.0350
	Geometry: Irregular	Geometry: Irregular
	Cross Section: RP25'	Cross Section: RP25'

Comment:

Channel Link: RP-70

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP-70	NP-60
To Node:	NP-60	NP-70
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	1320.00 ft	1320.00 ft
Contraction Coef:	0.10	0.10
Expansion Coef:	0.30	0.30
Entr Loss Coef:	0.00	0.00
	Invert: 7.18 ft	Invert: 6.88 ft
	Manning's N: 0.0350	Manning's N: 0.0350
	Geometry: Irregular	Geometry: Irregular
	Cross Section: RP25'	Cross Section: RP25'

Exit Loss Coef: 0.00  
 Bend Loss Coef: 0.00  
 Bend Location: 0.00 dec  
 Energy Switch: Energy

Comment:

Channel Link: RP-80		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 7.58 ft	Invert: 7.18 ft
From Node:	NP-80	Manning's N: 0.0350	Manning's N: 0.0350
To Node:	NP-70	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: RP25'-1.8	Cross Section: RP25'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	1320.00 ft		
Contraction Coef:	0.10		
Expansion Coef:	0.30		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Pipe Link: RP-80W		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 14.62 ft	Invert: 14.43 ft
From Node:	NP-80W	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP-80	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft



Length: 32.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP-90

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 8.08 ft	Invert: 7.58 ft
From Node: NP-90	Manning's N: 0.0350	Manning's N: 0.0350
To Node: NP-80	Geometry: Irregular	
Link Count: 1	Cross Section: RP25'-1.8	Cross Section: RP25'-1.8
Flow Direction: Both		
Damping: 0.0000 ft		
Length: 1320.00 ft		
Contraction Coef: 0.10		
Expansion Coef: 0.30		
Entr Loss Coef: 0.00		
Exit Loss Coef: 0.00		
Bend Loss Coef: 0.00		
Bend Location: 0.00 dec		
Energy Switch: Energy		

Comment:

Pipe Link: RP-FJVE

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 13.62 ft	Invert: 13.19 ft
From Node: NP-FJVE	Manning's N: 0.0220	Manning's N: 0.0220

To Node:	NP-240	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction:	Positive	Bottom Clip	
Damping:	0.0000	Default: 0.00 ft	Default: 0.00 ft
Length:	52.00 ft	Op Table:	Op Table:
FHWA Code:	4	Ref Node:	Ref Node:
Entr Loss Coef:	0.00	Manning's N: 0.0220	Manning's N: 0.0220
Exit Loss Coef:	1.00	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0220	Manning's N: 0.0220

Comment:

Pipe Link:	RP01A05	Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 13.10 ft	Invert: 9.92 ft
From Node:	NP01A05	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP-10	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000	Default: 0.67 ft	Default: 0.67 ft
Length:	54.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP01A07		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.61 ft	Invert: 13.10 ft
From Node:	NP01A07	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP01A05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9982.39 ft	Max Depth: 9985.90 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	658.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Pipe Link: RP01A09		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.72 ft	Invert: 16.61 ft
From Node:	NP01A09	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP01A07	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP01A13

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.79 ft	Invert: 16.72 ft
From Node: NP01A13	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP01A09	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.21 ft	Max Depth: 9982.28 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 980.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP01A15

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.12 ft	Invert: 17.79 ft
From Node: NP01A15	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NP01A13	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.88 ft	Max Depth: 9981.21 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 305.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP01A17	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.32 ft	Invert: 18.12 ft
From Node: NP01A17	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP01A15	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 60.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:

Manning's N: 0.0240

Manning's N: 0.0240

Comment:

Channel Link: RP01B01

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP01B01	NP01A17
To Node:	NP01A17	NP01B01
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	674.00 ft	674.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
Entr Loss Coef:	0.00	0.00
Exit Loss Coef:	0.00	0.00
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 19.06 ft	Invert: 18.32 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9979.94 ft	Max Depth: 9980.68 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP01B03

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP01B03	NP01B03
To Node:	NP01B01	NP01B01
Link Count:	1	1
Flow Direction:	Both	Both
	Invert: 19.06 ft	Invert: 19.06 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 3.50 ft	Max Depth: 3.50 ft
	Bottom Clip	

Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP01B07

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.75 ft	Invert: 19.06 ft
From Node: NP01B07	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP01B03	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.25 ft	Max Depth: 9979.94 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 695.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP01B09		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 19.23 ft	Invert: 18.75 ft
From Node:	NP01B09	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP01B07	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.50 ft	Max Depth: 3.50 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240
Comment:			

Channel Link: RP01B13		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 19.19 ft	Invert: 19.23 ft
From Node:	NP01B13	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP01B09	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9979.81 ft	Max Depth: 9979.77 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	826.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	



Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP01B15

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.19 ft	Invert: 19.20 ft
From Node: NP01B15	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP01B13	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9979.81 ft	Max Depth: 9979.80 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 381.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP01B17

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.15 ft	Invert: 19.19 ft
From Node: NP01B17	Manning's N: 0.0240	Manning's N: 0.0240

To Node:	NP01B15	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.50 ft	Max Depth: 3.50 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000	Default: 0.67 ft	Default: 0.67 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP01B21

		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.87 ft	Invert: 19.15 ft
From Node:	NP01B21	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP01B17	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9980.13 ft	Max Depth: 9979.85 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	281.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Pipe Link: RP01B23

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP01B23	NP01B21
To Node:	NP01B21	NP01B23
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	40.00 ft	40.00 ft
FHWA Code:	1	1
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 19.15 ft	Invert: 18.87 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 3.50 ft	Max Depth: 3.50 ft
	Bottom Clip	Bottom Clip
	Default: 0.67 ft	Default: 0.67 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	Top Clip
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP01C01

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP01C01	NP01B23
To Node:	NP01B23	NP01C01
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	400.00 ft	400.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
	Invert: 18.55 ft	Invert: 19.15 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9980.45 ft	Max Depth: 9979.85 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	Bottom Clip

Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP01C03

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.82 ft	Invert: 18.55 ft
From Node: NP01C03	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP01C01	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.50 ft	Max Depth: 3.50 ft

Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240

Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP01C07

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.49 ft	Invert: 18.82 ft

From Node: NP01C07	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP01C03	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.51 ft	Max Depth: 9980.18 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 593.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP01C09	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.74 ft	Invert: 18.49 ft
From Node: NP01C09	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP01C07	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.50 ft	Max Depth: 3.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:

Energy Switch: Energy

Ref Node:  
Manning's N: 0.0240

Ref Node:  
Manning's N: 0.0240

Comment:

Channel Link: RP01C13

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP01C13	
To Node:	NP01C09	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	635.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 20.12 ft	Invert: 18.74 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9978.88 ft	Max Depth: 9980.26 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP01C15

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP01C15	
To Node:	NP01C13	
Link Count:	1	
	Invert: 20.10 ft	Invert: 20.12 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 3.00 ft	Max Depth: 3.00 ft

Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 24.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP01D01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.49 ft	Invert: 20.10 ft
From Node: NP01D01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP01C15	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9978.51 ft	Max Depth: 9978.90 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 1160.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP01D03			Upstream	Downstream
Scenario:	2016 FWCD Update		Invert: 20.41 ft	Invert: 20.49 ft
From Node:	NP01D03		Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP01D01		Geometry: Circular	Geometry: Circular
Link Count:	1		Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction:	Both		Bottom Clip	
Damping:	0.0000 ft		Default: 0.33 ft	Default: 0.33 ft
Length:	40.00 ft		Op Table:	Op Table:
FHWA Code:	1		Ref Node:	Ref Node:
Entr Loss Coef:	0.50		Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95		Top Clip	
Bend Loss Coef:	0.00		Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec		Op Table:	Op Table:
Energy Switch:	Energy		Ref Node:	Ref Node:
			Manning's N: 0.0240	Manning's N: 0.0240
Comment:				

Channel Link: RP01E01			Upstream	Downstream
Scenario:	2016 FWCD Update		Invert: 20.78 ft	Invert: 20.41 ft
From Node:	NP01E01		Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP01D03		Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1		Max Depth: 9978.22 ft	Max Depth: 9978.59 ft
Flow Direction:	Both		Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft		Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	1035.00 ft		Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00		Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00		Bottom Clip	
Entr Loss Coef:	0.00		Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00		Op Table:	Op Table:
Bend Loss Coef:	0.00		Ref Node:	Ref Node:
Bend Location:	0.00 dec		Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy		Top Clip	



Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP02A05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.27 ft	Invert: 15.54 ft
From Node: NP02A05	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP-20	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.50 ft	Max Depth: 3.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 39.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP02A09

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.05 ft	Invert: 16.27 ft
From Node: NP02A09	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP02A05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.95 ft	Max Depth: 9982.73 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft

Length: 810.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP02A15

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.21 ft	Invert: 17.05 ft
From Node: NP02A15	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP02A09	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9980.79 ft	Max Depth: 9981.95 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Channel Link: RP02A17

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP02A17	NP02A15
To Node:	NP02A15	NP02A17
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	307.00 ft	307.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
Entr Loss Coef:	0.00	0.00
Exit Loss Coef:	0.00	0.00
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 18.61 ft	Invert: 18.21 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9980.39 ft	Max Depth: 9980.79 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP02A19

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP02A19	NP02A17
To Node:	NP02A17	NP02A19
Link Count:	1	1
Flow Direction:	Both	Both
	Invert: 18.91 ft	Invert: 18.61 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 4.00 ft	Max Depth: 4.00 ft
	Bottom Clip	

Damping:	0.0000 ft	Default:	0.67 ft	Default:	0.67 ft
Length:	60.00 ft	Op Table:		Op Table:	
FHWA Code:	4	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0240	Manning's N:	0.0240
Exit Loss Coef:	0.95	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0240	Manning's N:	0.0240

Comment:

Channel Link: RP02B01

	Upstream	Downstream	
Scenario:	2016 FWCD Update	Invert: 18.17 ft	
From Node:	NP02B01	Manning's N: 0.0700	
To Node:	NP02A19	Manning's N: 0.0700	
Link Count:	1	Geometry: Trapezoidal	
Flow Direction:	Both	Max Depth: 9980.83 ft	
Damping:	0.0000 ft	Extrapolation: Normal	
Length:	513.00 ft	Bottom Width: 6.00 ft	
Contraction Coef:	0.00	Left Slope: 1.500 (h:v)	
Expansion Coef:	0.00	Right Slope: 1.500 (h:v)	
Entr Loss Coef:	0.00	Bottom Clip	
Exit Loss Coef:	0.00	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:	
Bend Location:	0.00 dec	Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0700
		Top Clip	
		Default:	0.00 ft
		Op Table:	
		Ref Node:	
		Manning's N:	0.0700

Comment:

Channel Link: RP02B05		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.54 ft	Invert: 18.17 ft
From Node:	NP02B05	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP02B01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9980.46 ft	Max Depth: 9980.83 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Channel Link: RP02B10		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.90 ft	Invert: 18.54 ft
From Node:	NP02B10	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP02B05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9980.10 ft	Max Depth: 9980.46 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP02C01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.27 ft	Invert: 18.90 ft
From Node: NP02C01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP02B10	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9979.73 ft	Max Depth: 9980.10 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)

Bottom Clip

Expansion Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.00	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700
Bend Location: 0.00 dec	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP02C05		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.94 ft	Invert: 19.27 ft
From Node:	NP02C05	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP02C01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9980.06 ft	Max Depth: 9979.73 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Channel Link: RP02C11		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.65 ft	Invert: 18.94 ft
From Node:	NP02C11	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP02C05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9980.35 ft	Max Depth: 9980.06 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	684.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP02C13

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.69 ft	Invert: 18.65 ft
From Node: NP02C13	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP02C11	Geometry: Circular	
Link Count: 1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.50 ft	Default: 0.50 ft
Length: 28.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP02D01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 21.28 ft	Invert: 18.69 ft
From Node: NP02D01	Manning's N: 0.0700	Manning's N: 0.0700



To Node: NP02C13	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9977.72 ft	Extrapolation: Normal	Max Depth: 9980.31 ft	Extrapolation: Normal
Flow Direction: Both	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)
Damping: 0.0000 ft	Right Slope: 1.500 (h:v)	Bottom Clip		
Length: 1048.00 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Contraction Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Expansion Coef: 0.00	Top Clip			
Entr Loss Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Bend Loss Coef: 0.00	Op Table:	Op Table:		
Bend Location: 0.00 dec	Ref Node:	Ref Node:		
Energy Switch: Energy	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP02D05	Upstream		Downstream	
Scenario: 2016 FWCD Update	Invert: 25.01 ft	Manning's N: 0.0700	Invert: 21.28 ft	Manning's N: 0.0700
From Node: NP02D05	Geometry: Trapezoidal		Geometry: Trapezoidal	
To Node: NP02D01	Max Depth: 9973.99 ft	Extrapolation: Normal	Max Depth: 9977.72 ft	Extrapolation: Normal
Link Count: 1	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)
Flow Direction: Both	Right Slope: 1.500 (h:v)	Bottom Clip		
Damping: 0.0000 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Length: 880.00 ft	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Contraction Coef: 0.00	Top Clip			
Expansion Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Entr Loss Coef: 0.00	Ref Node:	Ref Node:		
Exit Loss Coef: 0.00	Op Table:	Op Table:		
Bend Loss Coef: 0.00	Ref Node:	Ref Node:		
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700

Energy Switch: Energy

Top Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP02D11

Upstream

Downstream

Scenario: 2016 FWCD Update  
 From Node: NP02D11  
 To Node: NP02D05  
 Link Count: 1  
 Flow Direction: Both  
 Damping: 0.0000 ft  
 Length: 779.00 ft  
 Contraction Coef: 0.00  
 Expansion Coef: 0.00  
 Entr Loss Coef: 0.00  
 Exit Loss Coef: 0.00  
 Bend Loss Coef: 0.00  
 Bend Location: 0.00 dec  
 Energy Switch: Energy

Invert: 28.31 ft	Invert: 25.01 ft
Manning's N: 0.0700	Manning's N: 0.0700
Geometry: Trapezoidal	Geometry: Trapezoidal
Max Depth: 9970.69 ft	Max Depth: 9973.99 ft
Extrapolation: Normal	Extrapolation: Normal
Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)

Bottom Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Top Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP02D13

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 28.74 ft	Invert: 28.31 ft
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From Node:	NP02D13	Manning's N:	0.0150	Manning's N:	0.0150
To Node:	NP02D11	Geometry:	Circular	Geometry:	Circular
Link Count:	1	Max Depth:	1.50 ft	Max Depth:	1.50 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000	Default:	0.25 ft	Default:	0.25 ft
Length:	18.00 ft	Op Table:		Op Table:	
FHWA Code:	4	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0150	Manning's N:	0.0150
Exit Loss Coef:	0.95	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0150	Manning's N:	0.0150

Comment:

Channel Link: RP02D15

	Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 27.78 ft
From Node:	NP02D15	Invert: 28.74 ft
To Node:	NP02D13	Manning's N: 0.0700
Link Count:	1	Manning's N: 0.0700
Flow Direction:	Both	Geometry: Trapezoidal
Damping:	0.0000	Geometry: Trapezoidal
Length:	88.00 ft	Max Depth: 9971.22 ft
Contraction Coef:	0.00	Max Depth: 9970.26 ft
Expansion Coef:	0.00	Extrapolation: Normal
Entr Loss Coef:	0.00	Extrapolation: Normal
Exit Loss Coef:	0.00	Bottom Width: 6.00 ft
Bend Loss Coef:	0.00	Bottom Width: 6.00 ft
Bend Location:	0.00 dec	Left Slope: 1.500 (h:v)
Energy Switch:	Energy	Left Slope: 1.500 (h:v)
		Right Slope: 1.500 (h:v)
		Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default:	0.00 ft
	Op Table:	
	Ref Node:	
	Manning's N:	0.0700
	Top Clip	
	Default:	0.00 ft
	Op Table:	

Ref Node: Ref Node:  
 Manning's N: 0.0700 Manning's N: 0.0700

Comment:

Pipe Link: RP02D17

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 27.78 ft	Invert: 27.82 ft
From Node: NP02D17	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP02D15	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.33 ft	Default: 0.33 ft
Length: 22.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP02E01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 26.58 ft	Invert: 27.78 ft
From Node: NP02E01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP02D17	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9972.42 ft	Max Depth: 9971.22 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 651.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)

Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP03A05	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.16 ft	Invert: 14.48 ft
From Node: NP03A05	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP-30	Geometry: Circular	
Link Count: 1	Max Depth: 3.50 ft	Max Depth: 3.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 59.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP03A09	Upstream	Downstream
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Scenario: 2016 FWCD Update	Invert: 17.03 ft	Invert: 15.16 ft
From Node: NP03A09	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP03A05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.97 ft	Max Depth: 9983.84 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 797.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP03A13	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.67 ft	Invert: 17.03 ft
From Node: NP03A13	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP03A09	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.33 ft	Max Depth: 9981.97 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:

Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP03A15	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.24 ft	Invert: 18.67 ft
From Node: NP03A15	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP03A13	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9979.76 ft	Max Depth: 9980.33 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 307.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP03A17	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.23 ft	Invert: 19.24 ft
From Node: NP03A17	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP03A15	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 60.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
Comment:		

Channel Link: RP03B01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.71 ft	Invert: 19.23 ft
From Node: NP03B01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP03A17	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.29 ft	Max Depth: 9979.77 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 512.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	



Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP03B05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.92 ft	Invert: 18.71 ft
From Node: NP03B05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP03B01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.08 ft	Max Depth: 9980.29 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP03B10

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.13 ft	Invert: 18.92 ft
From Node: NP03B10	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NP03B05	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9979.87 ft	Extrapolation: Normal	Max Depth: 9980.08 ft	Extrapolation: Normal
Flow Direction: Both	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)
Damping: 0.0000 ft	Right Slope: 1.500 (h:v)	Bottom Clip		
Length: 880.00 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Contraction Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Expansion Coef: 0.00	Top Clip			
Entr Loss Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Bend Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700
Bend Location: 0.00 dec				
Energy Switch: Energy				

Comment:

Channel Link: RP03C01	Upstream		Downstream	
Scenario: 2016 FWCD Update	Invert: 19.66 ft	Manning's N: 0.0700	Invert: 19.13 ft	Manning's N: 0.0700
From Node: NP03C01	Geometry: Trapezoidal		Geometry: Trapezoidal	
To Node: NP03B10	Max Depth: 9979.34 ft	Extrapolation: Normal	Max Depth: 9979.87 ft	Extrapolation: Normal
Link Count: 1	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)
Flow Direction: Both	Right Slope: 1.500 (h:v)	Bottom Clip		
Damping: 0.0000 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Length: 880.00 ft	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Contraction Coef: 0.00	Top Clip			
Expansion Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Entr Loss Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Exit Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700
Bend Loss Coef: 0.00				
Bend Location: 0.00 dec				

Energy Switch: Energy

Top Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP03C05

Upstream

Downstream

Scenario: 2016 FWCD Update  
 From Node: NP03C05  
 To Node: NP03C01  
 Link Count: 1  
 Flow Direction: Both  
 Damping: 0.0000 ft  
 Length: 880.00 ft  
 Contraction Coef: 0.00  
 Expansion Coef: 0.00  
 Entr Loss Coef: 0.00  
 Exit Loss Coef: 0.00  
 Bend Loss Coef: 0.00  
 Bend Location: 0.00 dec  
 Energy Switch: Energy

Invert: 20.51 ft	Invert: 19.66 ft
Manning's N: 0.0700	Manning's N: 0.0700
Geometry: Trapezoidal	Geometry: Trapezoidal
Max Depth: 9978.49 ft	Max Depth: 9979.34 ft
Extrapolation: Normal	Extrapolation: Normal
Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)

Bottom Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Top Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP03C09

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 21.19 ft	Invert: 20.51 ft
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From Node: NP03C09	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP03C05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9977.81 ft	Max Depth: 9978.49 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 702.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP03C11

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.90 ft	Invert: 21.19 ft
From Node: NP03C11	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP03C09	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 18.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:

Energy Switch: Energy

Ref Node:  
Manning's N: 0.0240

Ref Node:  
Manning's N: 0.0240

Comment:

Channel Link: RP03D01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 21.52 ft	Invert: 20.90 ft
From Node: NP03D01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP03C11	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9977.48 ft	Max Depth: 9978.10 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 1040.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP03D05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 23.59 ft	Invert: 21.52 ft
From Node: NP03D05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP03D01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9975.41 ft	Max Depth: 9977.48 ft

Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP03D10	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 25.67 ft	Invert: 23.59 ft
From Node: NP03D10	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP03D05	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9973.33 ft	Max Depth: 9975.41 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft

Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP03D13

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 26.75 ft	Invert: 25.67 ft
From Node: NP03D13	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP03D10	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9972.25 ft	Max Depth: 9973.33 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 458.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP03D15

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 28.43 ft	Invert: 26.75 ft
From Node: NP03D15	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP03D13	Geometry: Circular	Geometry: Circular

Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.33 ft	Default:	0.33 ft
Length:	22.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0240	Manning's N:	0.0240
Exit Loss Coef:	0.95	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0240	Manning's N:	0.0240

Comment:

Channel Link: RP03E01

	Upstream	Downstream	
Scenario:	2016 FWCD Update	Invert: 26.38 ft	
From Node:	NP03E01	Invert: 28.43 ft	
To Node:	NP03D15	Manning's N: 0.0700	
Link Count:	1	Manning's N: 0.0700	
Flow Direction:	Both	Geometry: Trapezoidal	
Damping:	0.0000 ft	Max Depth: 9972.62 ft	
Length:	400.00 ft	Max Depth: 9970.57 ft	
Contraction Coef:	0.00	Extrapolation: Normal	
Expansion Coef:	0.00	Bottom Width: 6.00 ft	
Entr Loss Coef:	0.00	Left Slope: 1.500 (h:v)	
Exit Loss Coef:	0.00	Right Slope: 1.500 (h:v)	
Bend Loss Coef:	0.00	Right Slope: 1.500 (h:v)	
Bend Location:	0.00 dec	Bottom Clip	
Energy Switch:	Energy	Default:	0.00 ft
		Op Table:	
		Ref Node:	
		Manning's N:	0.0700
		Top Clip	
		Default:	0.00 ft
		Op Table:	
		Ref Node:	
		Manning's N:	0.0700



Comment:

Channel Link: RP03E05

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP03E05	
To Node:	NP03E01	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	1120.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 27.08 ft	Invert: 26.38 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9971.92 ft	Max Depth: 9972.62 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP04A01

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP04A01	
To Node:	NP-40	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
	Invert: 13.95 ft	Invert: 12.58 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 3.50 ft	Max Depth: 3.50 ft
	Bottom Clip	
	Default: 0.67 ft	Default: 0.67 ft

Length: 60.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP04A05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.16 ft	Invert: 13.95 ft
From Node: NP04A05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP04A01	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9982.84 ft	Max Depth: 9985.05 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 780.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP04A10		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.46 ft	Invert: 16.16 ft
From Node:	NP04A10	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP04A05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9981.54 ft	Max Depth: 9982.84 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Channel Link: RP04A13		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.92 ft	Invert: 17.46 ft
From Node:	NP04A13	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP04A10	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9981.08 ft	Max Depth: 9981.54 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	307.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP04A15

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.36 ft	Invert: 17.92 ft
From Node: NP04A15	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP04A13	Geometry: Circular	
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 60.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP04B01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.68 ft	Invert: 18.36 ft
From Node: NP04B01	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NP04A15	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9980.32 ft	Extrapolation: Normal	Max Depth: 9980.64 ft	Extrapolation: Normal
Flow Direction: Both	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)
Damping: 0.0000 ft	Right Slope: 1.500 (h:v)	Bottom Clip		
Length: 513.00 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Contraction Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Expansion Coef: 0.00	Top Clip			
Entr Loss Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Bend Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700
Bend Location: 0.00 dec				
Energy Switch: Energy				

Comment:

Channel Link: RP04B05	Upstream		Downstream	
Scenario: 2016 FWCD Update	Invert: 19.08 ft	Manning's N: 0.0700	Invert: 18.68 ft	Manning's N: 0.0700
From Node: NP04B05	Geometry: Trapezoidal		Geometry: Trapezoidal	
To Node: NP04B01	Max Depth: 9979.92 ft	Extrapolation: Normal	Max Depth: 9980.32 ft	Extrapolation: Normal
Link Count: 1	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)
Flow Direction: Both	Right Slope: 1.500 (h:v)	Bottom Clip		
Damping: 0.0000 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Length: 880.00 ft	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Contraction Coef: 0.00	Top Clip			
Expansion Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Entr Loss Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Exit Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700
Bend Loss Coef: 0.00				
Bend Location: 0.00 dec				

Energy Switch: Energy

Top Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP04B10

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 19.48 ft	Invert: 19.08 ft
From Node: NP04B10	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP04B05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9979.52 ft	Max Depth: 9979.92 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP04B15

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 19.41 ft	Invert: 19.48 ft
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From Node: NP04B15	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP04B10	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9979.59 ft	Max Depth: 9979.52 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP04C01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.27 ft	Invert: 19.41 ft
From Node: NP04C01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP04B15	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9979.73 ft	Max Depth: 9979.59 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:

Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP04C05	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.13 ft	Invert: 19.27 ft
From Node: NP04C05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP04C01	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9979.87 ft	Max Depth: 9979.73 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP04D01	Upstream	Downstream
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Scenario: 2016 FWCD Update	Invert: 20.91 ft	Invert: 19.13 ft
From Node: NP04D01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP04C05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9978.09 ft	Max Depth: 9979.87 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP04D05	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 22.72 ft	Invert: 20.91 ft
From Node: NP04D05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP04D01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9976.28 ft	Max Depth: 9978.09 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:

Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP04E01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 24.53 ft	Invert: 22.72 ft
From Node: NP04E01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP04D05	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9974.47 ft	Max Depth: 9976.28 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP04E05		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 26.45 ft	Invert: 24.53 ft
From Node:	NP04E05	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP04E01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9972.55 ft	Max Depth: 9974.47 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	934.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Pipe Link: RP04E07		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 26.43 ft	Invert: 26.45 ft
From Node:	NP04E07	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP04E05	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.33 ft	Default: 0.33 ft
Length:	25.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP04E10

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 25.08 ft	Invert: 26.43 ft
From Node: NP04E10	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP04E07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9973.92 ft	Max Depth: 9972.57 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 1578.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP05A03

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 13.59 ft	Invert: 13.14 ft
From Node: NP05A03	Manning's N: 0.0240	Manning's N: 0.0240

To Node:	NP-50	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.50 ft	Max Depth: 3.50 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000	Default: 0.67 ft	Default: 0.67 ft
Length:	99.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP05A05

		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.05 ft	Invert: 13.59 ft
From Node:	NP05A05	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP05A03	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9982.95 ft	Max Depth: 9985.41 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	804.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Channel Link: RP05A10

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP05A10	NP05A05
To Node:	NP05A05	NP05A10
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	880.00 ft	880.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
Entr Loss Coef:	0.00	0.00
Exit Loss Coef:	0.00	0.00
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 17.52 ft	Invert: 16.05 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9981.48 ft	Max Depth: 9982.95 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP05A13

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP05A13	NP05A10
To Node:	NP05A10	NP05A13
Link Count:	1	1
Flow Direction:	Both	Both
	Invert: 18.04 ft	Invert: 17.52 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9980.96 ft	Max Depth: 9981.48 ft
	Extrapolation: Normal	Extrapolation: Normal

Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 309.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP05A15	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.01 ft	Invert: 18.04 ft
From Node: NP05A15	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP05A13	Geometry: Circular	
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 58.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP05B01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.37 ft	Invert: 18.01 ft
From Node: NP05B01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP05A15	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.63 ft	Max Depth: 9980.99 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 671.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
Comment:		

Pipe Link: RP05B03	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.98 ft	Invert: 16.37 ft
From Node: NP05B03	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP05B01	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 41.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	



Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP05B05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.23 ft	Invert: 16.98 ft
From Node: NP05B05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP05B03	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.77 ft	Max Depth: 9982.02 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 623.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP05B07

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.58 ft	Invert: 17.23 ft
From Node: NP05B07	Manning's N: 0.0240	Manning's N: 0.0240

To Node: NP05B05	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000	Default: 0.50 ft	Default: 0.50 ft
Length: 39.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP05B09	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.68 ft	Invert: 17.58 ft
From Node: NP05B09	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP05B07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.32 ft	Max Depth: 9981.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 584.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Pipe Link: RP05B11

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP05B11	NP05B09
To Node:	NP05B09	NP05B11
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	30.00 ft	30.00 ft
FHWA Code:	6	6
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 18.69 ft	Invert: 18.68 ft
	Manning's N: 0.0120	Manning's N: 0.0120
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.50 ft	Max Depth: 1.50 ft
	Bottom Clip	Bottom Clip
	Default: 0.25 ft	Default: 0.25 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120
	Top Clip	Top Clip
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Channel Link: RP05B13

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP05B13	NP05B11
To Node:	NP05B11	NP05B13
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	286.00 ft	286.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
	Invert: 18.46 ft	Invert: 18.69 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9980.54 ft	Max Depth: 9980.31 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	Bottom Clip

Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP05C01

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 18.18 ft	Invert: 18.46 ft
From Node: NP05C01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP05B13	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.82 ft	Max Depth: 9980.54 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)

Bottom Clip

Expansion Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.00	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700
Bend Location: 0.00 dec	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP05C05		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.39 ft	Invert: 18.18 ft
From Node:	NP05C05	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP05C01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9980.61 ft	Max Depth: 9980.82 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Channel Link: RP05C10		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.61 ft	Invert: 18.39 ft
From Node:	NP05C10	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP05C05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9980.39 ft	Max Depth: 9980.61 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	948.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP05D01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.53 ft	Invert: 18.61 ft
From Node: NP05D01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP05C10	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9978.47 ft	Max Depth: 9980.39 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 812.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)

Bottom Clip

Expansion Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.00	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700
Bend Location: 0.00 dec	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP05D05		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 22.61 ft	Invert: 20.53 ft
From Node:	NP05D05	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP05D01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9976.39 ft	Max Depth: 9978.47 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Channel Link: RP05D10		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 24.68 ft	Invert: 22.61 ft
From Node:	NP05D10	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP05D05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9974.32 ft	Max Depth: 9976.39 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP05E01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 26.76 ft	Invert: 24.68 ft
From Node: NP05E01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP05D10	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9972.24 ft	Max Depth: 9974.32 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)

Bottom Clip

Expansion Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.00	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700
Bend Location: 0.00 dec	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:



Channel Link: RP05E05		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 27.95 ft	Invert: 26.76 ft
From Node:	NP05E05	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP05E01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9971.05 ft	Max Depth: 9972.24 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	503.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Pipe Link: RP05E07		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 28.36 ft	Invert: 27.95 ft
From Node:	NP05E07	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP05E05	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.33 ft	Default: 0.33 ft
Length:	19.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP05E10

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 26.78 ft	Invert: 28.36 ft
From Node: NP05E10	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP05E07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9972.22 ft	Max Depth: 9970.64 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 1203.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP06A01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 8.66 ft	Invert: 8.46 ft
From Node: NP06A01	Manning's N: 0.0240	Manning's N: 0.0240

To Node: NP-60	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000	Default: 0.67 ft	Default: 0.67 ft
Length: 59.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP06A05	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.40 ft	Invert: 8.66 ft
From Node: NP06A05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP06A01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9984.60 ft	Max Depth: 9990.34 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 461.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Pipe Link: RP06A07

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP06A07	NP06A05
To Node:	NP06A05	NP06A07
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	30.00 ft	30.00 ft
FHWA Code:	1	1
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 14.91 ft	Invert: 14.40 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 5.00 ft	Max Depth: 5.00 ft
	Bottom Clip	Bottom Clip
	Default: 0.67 ft	Default: 0.67 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	Top Clip
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP06A09

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP06A09	NP06A07
To Node:	NP06A07	NP06A09
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	185.00 ft	185.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
	Invert: 14.84 ft	Invert: 14.91 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9984.16 ft	Max Depth: 9984.09 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	Bottom Clip

Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP06A11

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.92 ft	Invert: 14.84 ft
From Node: NP06A11	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP06A09	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft

Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240

Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP06A15

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.26 ft	Invert: 14.92 ft

From Node: NP06A15	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP06A11	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.74 ft	Max Depth: 9984.08 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 952.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP06A17	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.70 ft	Invert: 16.26 ft
From Node: NP06A17	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP06A15	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.30 ft	Max Depth: 9982.74 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 308.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:

Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP06A19	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.53 ft	Invert: 16.70 ft
From Node: NP06A19	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP06A17	Geometry: Circular	
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 60.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP06B01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.73 ft	Invert: 17.53 ft
From Node: NP06B01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP06A19	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9981.27 ft	Max Depth: 9981.47 ft

Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 511.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP06B05	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.76 ft	Invert: 17.73 ft
From Node: NP06B05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP06B01	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9981.24 ft	Max Depth: 9981.27 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 816.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft



Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP06B07

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.60 ft	Invert: 17.76 ft
From Node: NP06B07	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NP06B05	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 49.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Channel Link: RP06B10

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.25 ft	Invert: 17.60 ft
From Node: NP06B10	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP06B07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9979.75 ft	Max Depth: 9981.40 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 895.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)

Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP06C01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.27 ft	Invert: 19.25 ft
From Node: NP06C01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP06B10	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9978.73 ft	Max Depth: 9979.75 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP06C05

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP06C05	
To Node:	NP06C01	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	880.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 20.91 ft	Invert: 20.27 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9978.09 ft	Max Depth: 9978.73 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP06C10

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP06C10	
To Node:	NP06C05	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
	Invert: 21.53 ft	Invert: 20.91 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9977.47 ft	Max Depth: 9978.09 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft

Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP06D01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 22.73 ft	Invert: 21.53 ft
From Node: NP06D01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP06C10	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9976.27 ft	Max Depth: 9977.47 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Channel Link: RP06D05

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP06D05	
To Node:	NP06D01	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	880.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 23.90 ft	Invert: 22.73 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9975.10 ft	Max Depth: 9976.27 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP06D10

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP06D10	
To Node:	NP06D05	
Link Count:	1	
Flow Direction:	Both	
	Invert: 25.07 ft	Invert: 23.90 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9973.93 ft	Max Depth: 9975.10 ft
	Extrapolation: Normal	Extrapolation: Normal

Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP06E01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 26.24 ft	Invert: 25.07 ft
From Node: NP06E01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP06D10	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9972.76 ft	Max Depth: 9973.93 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:

Ref Node: Ref Node:  
 Manning's N: 0.0700 Manning's N: 0.0700

Comment:

Channel Link: RP06E05

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP06E05	NP06E01
To Node:	NP06E01	NP06E05
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	973.00 ft	973.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
Entr Loss Coef:	0.00	0.00
Exit Loss Coef:	0.00	0.00
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 27.53 ft	Invert: 26.24 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9971.47 ft	Max Depth: 9972.76 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP06E07

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP06E07	NP06E05
To Node:	NP06E05	NP06E07
Link Count:	1	1
	Invert: 27.98 ft	Invert: 27.53 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 2.00 ft	Max Depth: 2.00 ft

Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.33 ft	Default: 0.33 ft
Length: 21.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP06E10	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 28.38 ft	Invert: 27.98 ft
From Node: NP06E10	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP06E07	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9970.62 ft	Max Depth: 9971.02 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 729.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:



Channel Link: RP07A01		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 13.58 ft	Invert: 12.58 ft
From Node:	NP07A01	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP-70	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9985.42 ft	Max Depth: 9986.42 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	300.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	1.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Channel Link: RP07A05		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 15.13 ft	Invert: 13.58 ft
From Node:	NP07A05	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP07A01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9983.87 ft	Max Depth: 9985.42 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	406.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP07A10

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.39 ft	Invert: 15.13 ft
From Node: NP07A10	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP07A05	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9982.61 ft	Max Depth: 9983.87 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)

Bottom Clip

Expansion Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.00	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700
Bend Location: 0.00 dec	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP07A13		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.09 ft	Invert: 16.39 ft
From Node:	NP07A13	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP07A10	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9981.91 ft	Max Depth: 9982.61 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	485.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Pipe Link: RP07A15		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.22 ft	Invert: 17.09 ft
From Node:	NP07A15	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP07A13	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	60.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP07B01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.34 ft	Invert: 17.22 ft
From Node: NP07B01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP07A15	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.66 ft	Max Depth: 9981.78 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 922.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP07B05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.39 ft	Invert: 18.34 ft
From Node: NP07B05	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NP07B01	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9980.61 ft	Extrapolation: Normal	Max Depth: 9980.66 ft	Extrapolation: Normal
Flow Direction: Both	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)
Damping: 0.0000 ft	Right Slope: 1.500 (h:v)	Bottom Clip		
Length: 880.00 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Contraction Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Expansion Coef: 0.00	Top Clip			
Entr Loss Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Bend Loss Coef: 0.00	Op Table:	Op Table:		
Bend Location: 0.00 dec	Ref Node:	Ref Node:		
Energy Switch: Energy	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP07B10	Upstream		Downstream	
Scenario: 2016 FWCD Update	Invert: 18.43 ft	Manning's N: 0.0700	Invert: 18.39 ft	Manning's N: 0.0700
From Node: NP07B10	Geometry: Trapezoidal		Geometry: Trapezoidal	
To Node: NP07B05	Max Depth: 9980.57 ft	Extrapolation: Normal	Max Depth: 9980.61 ft	Extrapolation: Normal
Link Count: 1	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)
Flow Direction: Both	Right Slope: 1.500 (h:v)	Bottom Clip		
Damping: 0.0000 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Length: 880.00 ft	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Contraction Coef: 0.00	Top Clip			
Expansion Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Entr Loss Coef: 0.00	Ref Node:	Ref Node:		
Exit Loss Coef: 0.00	Op Table:	Op Table:		
Bend Loss Coef: 0.00	Ref Node:	Ref Node:		
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700

Energy Switch: Energy

Top Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP07C01

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 18.48 ft	Invert: 18.43 ft
From Node: NP07C01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP07B10	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.52 ft	Max Depth: 9980.57 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP07C05

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 18.52 ft	Invert: 18.48 ft
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From Node: NP07C05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP07C01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.48 ft	Max Depth: 9980.52 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP07C10	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.23 ft	Invert: 18.52 ft
From Node: NP07C10	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP07C05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9979.77 ft	Max Depth: 9980.48 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:

Bend Location: 0.00 dec  
Energy Switch: Energy

Manning's N: 0.0700

Manning's N: 0.0700

Top Clip

Default: 0.00 ft

Default: 0.00 ft

Op Table:

Op Table:

Ref Node:

Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Channel Link: RP07D01

Upstream

Downstream

Scenario: 2016 FWCD Update

Invert: 21.08 ft

Invert: 19.23 ft

From Node: NP07D01

Manning's N: 0.0700

Manning's N: 0.0700

To Node: NP07C10

Geometry: Trapezoidal

Link Count: 1

Max Depth: 9977.92 ft

Max Depth: 9979.77 ft

Flow Direction: Both

Extrapolation: Normal

Extrapolation: Normal

Damping: 0.0000 ft

Bottom Width: 6.00 ft

Bottom Width: 6.00 ft

Length: 880.00 ft

Left Slope: 1.500 (h:v)

Left Slope: 1.500 (h:v)

Contraction Coef: 0.00

Right Slope: 1.500 (h:v)

Right Slope: 1.500 (h:v)

Expansion Coef: 0.00

Bottom Clip

Entr Loss Coef: 0.00

Default: 0.00 ft

Default: 0.00 ft

Exit Loss Coef: 0.00

Op Table:

Op Table:

Bend Loss Coef: 0.00

Ref Node:

Ref Node:

Bend Location: 0.00 dec

Manning's N: 0.0700

Manning's N: 0.0700

Energy Switch: Energy

Top Clip

Default: 0.00 ft

Default: 0.00 ft

Op Table:

Op Table:

Ref Node:

Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Channel Link: RP07D05

Upstream

Downstream



Scenario: 2016 FWCD Update	Invert: 22.93 ft	Invert: 21.08 ft
From Node: NP07D05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP07D01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9976.07 ft	Max Depth: 9977.92 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP07D10	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 24.79 ft	Invert: 22.93 ft
From Node: NP07D10	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP07D05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9974.21 ft	Max Depth: 9976.07 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:

Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP07E01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 26.64 ft	Invert: 24.79 ft
From Node: NP07E01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP07D10	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9972.36 ft	Max Depth: 9974.21 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP07E05		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 28.79 ft	Invert: 26.64 ft
From Node:	NP07E05	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP07E01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9970.21 ft	Max Depth: 9972.36 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	1019.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Pipe Link: RP07E07		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 29.00 ft	Invert: 28.79 ft
From Node:	NP07E07	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP07E05	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.33 ft	Default: 0.33 ft
Length:	22.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP07E10

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 29.08 ft	Invert: 29.00 ft
From Node: NP07E10	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP07E07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9969.92 ft	Max Depth: 9970.00 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 260.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP08A01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 13.70 ft	Invert: 12.58 ft
From Node: NP08A01	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NP-80	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9985.30 ft	Max Depth: 9986.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 276.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 1.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP08A03	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 13.94 ft	Invert: 13.70 ft
From Node: NP08A03	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP08A01	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.50 ft	Max Depth: 5.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 39.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:

Manning's N: 0.0240

Manning's N: 0.0240

Comment:

Channel Link: RP08A05

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP08A05	NP08A03
To Node:	NP08A03	NP08A05
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	221.00 ft	221.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
Entr Loss Coef:	0.00	0.00
Exit Loss Coef:	0.00	0.00
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 15.02 ft	Invert: 13.94 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9983.98 ft	Max Depth: 9985.06 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP08A07

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP08A07	NP08A05
To Node:	NP08A05	NP08A07
Link Count:	1	1
Flow Direction:	Both	Both
	Invert: 15.11 ft	Invert: 15.02 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 4.00 ft	Max Depth: 4.00 ft
	Bottom Clip	

Damping:	0.0000 ft	Default:	0.67 ft	Default:	0.67 ft
Length:	29.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0240	Manning's N:	0.0240
Exit Loss Coef:	0.95	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0240	Manning's N:	0.0240

Comment:

Channel Link: RP08A11

	Upstream	Downstream			
Scenario:	2016 FWCD Update	Invert:	15.69 ft	Invert:	15.11 ft
From Node:	NP08A11	Manning's N:	0.0700	Manning's N:	0.0700
To Node:	NP08A07	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	9983.31 ft	Max Depth:	9983.89 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	8.00 ft	Bottom Width:	8.00 ft
Length:	460.00 ft	Left Slope:	1.500 (h:v)	Left Slope:	1.500 (h:v)
Contraction Coef:	0.00	Right Slope:	1.500 (h:v)	Right Slope:	1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0700	Manning's N:	0.0700
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0700	Manning's N:	0.0700

Comment:

Pipe Link: RP08A13	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.71 ft	Invert: 15.69 ft
From Node: NP08A13	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP08A11	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 43.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
Comment:		

Channel Link: RP08A17	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.85 ft	Invert: 15.71 ft
From Node: NP08A17	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP08A13	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.15 ft	Max Depth: 9983.29 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 701.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	



Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP08A19

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.35 ft	Invert: 16.85 ft
From Node: NP08A19	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP08A17	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.65 ft	Max Depth: 9982.15 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 312.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP08A21

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.53 ft	Invert: 17.35 ft
From Node: NP08A21	Manning's N: 0.0240	Manning's N: 0.0240

To Node: NP08A19	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000	Default: 0.67 ft	Default: 0.67 ft
Length: 60.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP08B01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.74 ft	Invert: 17.53 ft
From Node: NP08B01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP08A21	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.26 ft	Max Depth: 9981.47 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 508.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Channel Link: RP08B05

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP08B05	NP08B01
To Node:	NP08B01	NP08B05
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	916.00 ft	916.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
Entr Loss Coef:	0.00	0.00
Exit Loss Coef:	0.00	0.00
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 17.14 ft	Invert: 17.74 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9981.86 ft	Max Depth: 9981.26 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP08B07

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP08B07	NP08B05
To Node:	NP08B05	NP08B07
Link Count:	1	1
Flow Direction:	Both	Both
	Invert: 17.37 ft	Invert: 17.14 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 4.00 ft	Max Depth: 4.00 ft
	Bottom Clip	

Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 60.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP08B09

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.69 ft	Invert: 17.37 ft
From Node: NP08B09	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP08B07	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9981.31 ft	Max Depth: 9981.63 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 814.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP08C01		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.20 ft	Invert: 17.69 ft
From Node:	NP08C01	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP08B09	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9980.80 ft	Max Depth: 9981.31 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Channel Link: RP08C05		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.70 ft	Invert: 18.20 ft
From Node:	NP08C05	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP08C01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9980.30 ft	Max Depth: 9980.80 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP08C10

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 19.24 ft	Invert: 18.70 ft
From Node: NP08C10	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP08C05	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9979.76 ft	Max Depth: 9980.30 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)

Bottom Clip

Expansion Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.00	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700
Bend Location: 0.00 dec	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP08D01		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 20.13 ft	Invert: 19.24 ft
From Node:	NP08D01	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP08C10	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9978.87 ft	Max Depth: 9979.76 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Channel Link: RP08D05		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 21.02 ft	Invert: 20.13 ft
From Node:	NP08D05	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP08D01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9977.98 ft	Max Depth: 9978.87 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP08D10

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 21.91 ft	Invert: 21.02 ft
From Node: NP08D10	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP08D05	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9977.09 ft	Max Depth: 9977.98 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)

Bottom Clip

Expansion Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.00	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700
Bend Location: 0.00 dec	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:



Channel Link: RP08E01		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 22.80 ft	Invert: 21.91 ft
From Node:	NP08E01	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP08D10	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9976.20 ft	Max Depth: 9977.09 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Channel Link: RP08E05		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 23.69 ft	Invert: 22.80 ft
From Node:	NP08E05	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP08E01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9975.31 ft	Max Depth: 9976.20 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP08E10

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 24.42 ft	Invert: 23.69 ft
From Node: NP08E10	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP08E05	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9974.58 ft	Max Depth: 9975.31 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 698.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP09A01		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 14.84 ft	Invert: 12.58 ft
From Node:	NP09A01	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP-90	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9984.16 ft	Max Depth: 9986.42 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	177.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	1.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Pipe Link: RP09A03		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 14.84 ft	Invert: 12.58 ft
From Node:	NP09A03	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP09A01	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	37.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP09A07

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.80 ft	Invert: 14.84 ft
From Node: NP09A07	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP09A03	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9983.20 ft	Max Depth: 9984.16 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 315.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP09A09

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.57 ft	Invert: 15.80 ft
From Node: NP09A09	Manning's N: 0.0240	Manning's N: 0.0240

To Node: NP09A07	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP09A11	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.31 ft	Invert: 15.57 ft
From Node: NP09A11	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP09A09	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.69 ft	Max Depth: 9983.43 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 177.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Pipe Link: RP09A13

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP09A13	NP09A11
To Node:	NP09A11	NP09A13
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	40.00 ft	40.00 ft
FHWA Code:	1	1
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 15.82 ft	Invert: 16.31 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 3.00 ft	Max Depth: 3.00 ft
	Bottom Clip	
	Default: 0.67 ft	Default: 0.67 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP09A15

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP09A15	NP09A13
To Node:	NP09A13	NP09A15
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	299.00 ft	299.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
	Invert: 16.72 ft	Invert: 15.82 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9982.28 ft	Max Depth: 9983.18 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	

Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP09A17

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.85 ft	Invert: 16.72 ft
From Node: NP09A17	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP09A15	Geometry: Circular	
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 33.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP09A21

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.29 ft	Invert: 16.85 ft

From Node: NP09A21	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP09A17	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.71 ft	Max Depth: 9982.15 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 643.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP09A23	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.50 ft	Invert: 17.29 ft
From Node: NP09A23	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP09A21	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.50 ft	Max Depth: 9981.71 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 311.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:



Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP09A25	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.56 ft	Invert: 17.50 ft
From Node: NP09A25	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP09A23	Geometry: Circular	
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 59.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP09B01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.43 ft	Invert: 17.56 ft
From Node: NP09B01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP09A25	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9981.57 ft	Max Depth: 9981.44 ft

Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 510.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP09B05	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.97 ft	Invert: 17.43 ft
From Node: NP09B05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP09B01	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9982.03 ft	Max Depth: 9981.57 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 331.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft

Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP09B07

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.14 ft	Invert: 16.97 ft
From Node: NP09B07	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP09B05	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 29.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP09B09

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.45 ft	Invert: 17.14 ft
From Node: NP09B09	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP09B07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.55 ft	Max Depth: 9981.86 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 416.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)

Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP09B11	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.34 ft	Invert: 17.45 ft
From Node: NP09B11	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP09B09	Geometry: Circular	
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 21.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP09B13		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.84 ft	Invert: 17.34 ft
From Node:	NP09B13	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP09B11	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9980.16 ft	Max Depth: 9981.66 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	676.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Pipe Link: RP09B15		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.84 ft	Invert: 18.84 ft
From Node:	NP09B15	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP09B13	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.50 ft	Max Depth: 3.50 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	34.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP09B17

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.69 ft	Invert: 18.84 ft
From Node: NP09B17	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP09B15	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.31 ft	Max Depth: 9980.16 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 254.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP09C01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.18 ft	Invert: 18.69 ft
From Node: NP09C01	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NP09B17	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9980.82 ft	Extrapolation: Normal	Max Depth: 9980.31 ft	Extrapolation: Normal
Flow Direction: Both	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)
Damping: 0.0000 ft	Right Slope: 1.500 (h:v)	Bottom Clip		
Length: 880.00 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Contraction Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Expansion Coef: 0.00	Top Clip			
Entr Loss Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Bend Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700
Bend Location: 0.00 dec				
Energy Switch: Energy				

Comment:

Channel Link: RP09C03	Upstream		Downstream	
Scenario: 2016 FWCD Update	Invert: 17.97 ft	Manning's N: 0.0700	Invert: 18.18 ft	Manning's N: 0.0700
From Node: NP09C03	Geometry: Trapezoidal		Geometry: Trapezoidal	
To Node: NP09C01	Max Depth: 9981.03 ft	Extrapolation: Normal	Max Depth: 9980.82 ft	Extrapolation: Normal
Link Count: 1	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)
Flow Direction: Both	Right Slope: 1.500 (h:v)	Bottom Clip		
Damping: 0.0000 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Length: 365.00 ft	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Contraction Coef: 0.00	Top Clip			
Expansion Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Entr Loss Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Exit Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700
Bend Loss Coef: 0.00				
Bend Location: 0.00 dec				

Energy Switch: Energy

Top Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP09C05

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 17.93 ft	Invert: 17.97 ft
From Node: NP09C05	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP09C03	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.50 ft	Default: 0.50 ft
Length: 26.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP09C07

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 18.14 ft	Invert: 17.93 ft
From Node: NP09C07	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP09C05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.86 ft	Max Depth: 9981.07 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal



Damping:	0.0000 ft	Bottom Width:	6.00 ft	Bottom Width:	6.00 ft
Length:	490.00 ft	Left Slope:	1.500 (h:v)	Left Slope:	1.500 (h:v)
Contraction Coef:	0.00	Right Slope:	1.500 (h:v)	Right Slope:	1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0700	Manning's N:	0.0700
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0700	Manning's N:	0.0700

Comment:

Channel Link: RP09C13	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.53 ft	Invert: 18.14 ft
From Node: NP09C13	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP09C07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.47 ft	Max Depth: 9980.86 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default:	0.00 ft
Exit Loss Coef: 0.00	Op Table:	
Bend Loss Coef: 0.00	Ref Node:	
Bend Location: 0.00 dec	Manning's N:	0.0700
Energy Switch: Energy	Top Clip	
	Default:	0.00 ft
	Op Table:	

Ref Node: Ref Node:  
 Manning's N: 0.0700 Manning's N: 0.0700

Comment:

Channel Link: RP09D01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.25 ft	Invert: 18.53 ft
From Node: NP09D01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP09C13	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9979.75 ft	Max Depth: 9980.47 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP09D05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.99 ft	Invert: 19.25 ft
From Node: NP09D05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP09D01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9979.01 ft	Max Depth: 9979.75 ft

Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP09D10	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.74 ft	Invert: 19.99 ft
From Node: NP09D10	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP09D05	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9978.26 ft	Max Depth: 9979.01 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft

Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP09E01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 21.49 ft	Invert: 20.74 ft
From Node: NP09E01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP09D10	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9977.51 ft	Max Depth: 9978.26 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP09E05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 22.23 ft	Invert: 21.49 ft
From Node: NP09E05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP09E01	Geometry: Trapezoidal	Geometry: Trapezoidal

Link Count:	1	Max Depth:	9976.77 ft	Max Depth:	9977.51 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	6.00 ft	Bottom Width:	6.00 ft
Length:	880.00 ft	Left Slope:	1.500 (h:v)	Left Slope:	1.500 (h:v)
Contraction Coef:	0.00	Right Slope:	1.500 (h:v)	Right Slope:	1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0700	Manning's N:	0.0700
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0700	Manning's N:	0.0700

Comment:

Channel Link: RP09E10

	Upstream	Downstream	
Scenario:	2016 FWCD Update	Invert: 22.84 ft	
From Node:	NP09E10	Manning's N: 0.0700	
To Node:	NP09E05	Geometry: Trapezoidal	
Link Count:	1	Max Depth: 9976.16 ft	
Flow Direction:	Both	Extrapolation: Normal	
Damping:	0.0000 ft	Bottom Width: 6.00 ft	
Length:	779.00 ft	Left Slope: 1.500 (h:v)	
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:	
Bend Loss Coef:	0.00	Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0700
Energy Switch:	Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP10A01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 13.58 ft	Invert: 12.58 ft
From Node: NP10A01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP-100	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9985.42 ft	Max Depth: 9986.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 300.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 1.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP10A03	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.18 ft	Invert: 13.58 ft
From Node: NP10A03	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NP10A01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9983.82 ft	Max Depth: 9985.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 426.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP10A07	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.29 ft	Invert: 15.18 ft
From Node: NP10A07	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP10A03	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 4.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 34.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:

Manning's N: 0.0240

Manning's N: 0.0240

Comment:

Channel Link: RP10A13

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP10A13	NP10A07
To Node:	NP10A07	NP10A13
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	1001.00 ft	1001.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
Entr Loss Coef:	0.00	0.00
Exit Loss Coef:	0.00	0.00
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 15.61 ft	Invert: 15.29 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9983.39 ft	Max Depth: 9983.71 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP10A15

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP10A15	NP10A13
To Node:	NP10A13	NP10A15
Link Count:	1	1
Flow Direction:	Both	Both
	Invert: 17.03 ft	Invert: 15.61 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9981.97 ft	Max Depth: 9983.39 ft
	Extrapolation: Normal	Extrapolation: Normal



Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 314.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP10A17	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.39 ft	Invert: 17.03 ft
From Node: NP10A17	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP10A15	Geometry: Circular	
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 60.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP10B01		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.01 ft	Invert: 17.39 ft
From Node:	NP10B01	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP10A17	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9980.99 ft	Max Depth: 9981.61 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	507.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Channel Link: RP10B03		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.07 ft	Invert: 18.01 ft
From Node:	NP10B03	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP10B01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9980.93 ft	Max Depth: 9980.99 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	443.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP10B05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.16 ft	Invert: 18.07 ft
From Node: NP10B05	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP10B03	Geometry: Circular	
Link Count: 1	Max Depth: 6.00 ft	Max Depth: 6.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 20.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP10B07

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.02 ft	Invert: 18.16 ft
From Node: NP10B07	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NP10B05	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9980.98 ft	Extrapolation: Normal	Max Depth: 9980.84 ft	Extrapolation: Normal
Flow Direction: Both	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)
Damping: 0.0000 ft	Right Slope: 1.500 (h:v)	Bottom Clip		
Length: 417.00 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Contraction Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Expansion Coef: 0.00	Top Clip			
Entr Loss Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Bend Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700
Bend Location: 0.00 dec				
Energy Switch: Energy				

Comment:

Channel Link: RP10B09	Upstream		Downstream	
Scenario: 2016 FWCD Update	Invert: 17.82 ft	Manning's N: 0.0700	Invert: 18.02 ft	Manning's N: 0.0700
From Node: NP10B09	Geometry: Trapezoidal		Geometry: Trapezoidal	
To Node: NP10B07	Max Depth: 9981.18 ft	Extrapolation: Normal	Max Depth: 9980.98 ft	Extrapolation: Normal
Link Count: 1	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)
Flow Direction: Both	Right Slope: 1.500 (h:v)	Bottom Clip		
Damping: 0.0000 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Length: 589.00 ft	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Contraction Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700
Expansion Coef: 0.00				
Entr Loss Coef: 0.00				
Exit Loss Coef: 0.00				
Bend Loss Coef: 0.00				
Bend Location: 0.00 dec				

Energy Switch: Energy

Top Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP10B11

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 17.41 ft	Invert: 17.82 ft
From Node: NP10B11	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP10B09	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP10B13

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 17.83 ft	Invert: 17.41 ft
From Node: NP10B13	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP10B11	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.17 ft	Max Depth: 9981.59 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal

Damping:	0.0000 ft	Bottom Width:	6.00 ft	Bottom Width:	6.00 ft
Length:	251.00 ft	Left Slope:	1.500 (h:v)	Left Slope:	1.500 (h:v)
Contraction Coef:	0.00	Right Slope:	1.500 (h:v)	Right Slope:	1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0700	Manning's N:	0.0700
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0700	Manning's N:	0.0700

Comment:

Channel Link: RP10B17	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.15 ft	Invert: 17.83 ft
From Node: NP10B17	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP10B13	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9979.85 ft	Max Depth: 9981.17 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 796.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default:	0.00 ft
Exit Loss Coef: 0.00	Op Table:	
Bend Loss Coef: 0.00	Ref Node:	
Bend Location: 0.00 dec	Manning's N:	0.0700
Energy Switch: Energy	Top Clip	
	Default:	0.00 ft
	Op Table:	

Ref Node: Ref Node:  
 Manning's N: 0.0700 Manning's N: 0.0700

Comment:

Pipe Link: RP10B19

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP10B19	NP10B17
To Node:	NP10B17	NP10B19
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	30.00 ft	30.00 ft
FHWA Code:	1	1
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 19.87 ft	Invert: 19.15 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 3.50 ft	Max Depth: 3.50 ft
	Bottom Clip	Bottom Clip
	Default: 0.67 ft	Default: 0.67 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	Top Clip
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP10C01

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP10C01	NP10B19
To Node:	NP10B19	NP10C01
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	284.00 ft	284.00 ft
Contraction Coef:	0.00	0.00
	Invert: 19.40 ft	Invert: 19.87 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9979.60 ft	Max Depth: 9979.13 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)

Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP10C03	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.62 ft	Invert: 19.40 ft
From Node: NP10C03	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP10C01	Geometry: Circular	
Link Count: 1	Max Depth: 4.50 ft	Max Depth: 4.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 24.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP10C07	Upstream	Downstream
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Scenario: 2016 FWCD Update	Invert: 19.33 ft	Invert: 18.62 ft
From Node: NP10C07	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP10C03	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9979.67 ft	Max Depth: 9980.38 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 625.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP10C13	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.12 ft	Invert: 19.33 ft
From Node: NP10C13	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP10C07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9978.88 ft	Max Depth: 9979.67 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 693.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:

Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP10C15	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.27 ft	Invert: 20.12 ft
From Node: NP10C15	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP10C13	Geometry: Circular	
Link Count: 1	Max Depth: 3.50 ft	Max Depth: 3.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 29.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP10D01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.33 ft	Invert: 20.27 ft
From Node: NP10D01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP10C15	Geometry: Trapezoidal	

Link Count:	1	Max Depth:	9978.67 ft	Max Depth:	9978.73 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	6.00 ft	Bottom Width:	6.00 ft
Length:	1166.00 ft	Left Slope:	1.500 (h:v)	Left Slope:	1.500 (h:v)
Contraction Coef:	0.00	Right Slope:	1.500 (h:v)	Right Slope:	1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0700	Manning's N:	0.0700
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0700	Manning's N:	0.0700

Comment:

Pipe Link: RP10D03

	Upstream	Downstream
Scenario:	2016 FWCD Update	
Invert:	20.11 ft	20.33 ft
From Node:	NP10D03	
Manning's N:	0.0240	0.0240
To Node:	NP10D01	
Geometry:	Circular	Circular
Link Count:	1	
Max Depth:	3.50 ft	3.50 ft
Flow Direction:	Both	
Bottom Clip		
Damping:	0.0000 ft	
Default:	0.67 ft	0.67 ft
Length:	17.00 ft	
Op Table:		
FHWA Code:	1	
Ref Node:		
Entr Loss Coef:	0.50	
Manning's N:	0.0240	0.0240
Exit Loss Coef:	0.95	
Top Clip		
Bend Loss Coef:	0.00	
Default:	0.00 ft	0.00 ft
Bend Location:	0.00 dec	
Op Table:		
Energy Switch:	Energy	
Ref Node:		
Manning's N:	0.0240	0.0240

Comment:

Channel Link: RP10D07

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP10D07	
To Node:	NP10D03	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	880.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 20.13 ft	Invert: 20.11 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9978.87 ft	Max Depth: 9978.89 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP10D13

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP10D13	
To Node:	NP10D07	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
	Invert: 20.15 ft	Invert: 20.13 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9978.85 ft	Max Depth: 9978.87 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft

Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP10E01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.17 ft	Invert: 20.15 ft
From Node: NP10E01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP10D13	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9978.83 ft	Max Depth: 9978.85 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Channel Link: RP10E05

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP10E05	NP10E01
To Node:	NP10E01	NP10E05
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	880.00 ft	880.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
Entr Loss Coef:	0.00	0.00
Exit Loss Coef:	0.00	0.00
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 20.18 ft	Invert: 20.17 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9978.82 ft	Max Depth: 9978.83 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP10E10

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP10E10	NP10E05
To Node:	NP10E05	NP10E10
Link Count:	1	1
Flow Direction:	Both	Both
	Invert: 20.23 ft	Invert: 20.18 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9978.77 ft	Max Depth: 9978.82 ft
	Extrapolation: Normal	Extrapolation: Normal

Damping:	0.0000 ft	Bottom Width:	6.00 ft	Bottom Width:	6.00 ft
Length:	457.00 ft	Left Slope:	1.500 (h:v)	Left Slope:	1.500 (h:v)
Contraction Coef:	0.00	Right Slope:	1.500 (h:v)	Right Slope:	1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0700	Manning's N:	0.0700
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0700	Manning's N:	0.0700

Comment:

Channel Link: RP11A01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 12.46 ft	Invert: 12.28 ft
From Node: NP11A01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP-110	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9986.54 ft	Max Depth: 9986.72 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 179.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default:	0.00 ft
Exit Loss Coef: 1.00	Op Table:	
Bend Loss Coef: 0.00	Ref Node:	
Bend Location: 0.00 dec	Manning's N:	0.0700
Energy Switch: Energy	Top Clip	
	Default:	0.00 ft
	Op Table:	

Ref Node: Ref Node:  
 Manning's N: 0.0700 Manning's N: 0.0700

Comment:

Pipe Link: RP11A03

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 13.81 ft	Invert: 12.46 ft
From Node: NP11A03	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP11A01	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 41.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP11A05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.66 ft	Invert: 13.81 ft
From Node: NP11A05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP11A03	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9983.34 ft	Max Depth: 9985.19 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 502.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)



Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	

Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0700	Manning's N:	0.0700

Comment:

Pipe Link: RP11A07	Upstream		Downstream		
Scenario:	2016 FWCD Update	Invert:	15.78 ft	Invert:	15.66 ft
From Node:	NP11A07	Manning's N:	0.0240	Manning's N:	0.0240
To Node:	NP11A05	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	4.00 ft	Max Depth:	4.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.67 ft	Default:	0.67 ft
Length:	39.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0240	Manning's N:	0.0240
Exit Loss Coef:	0.95	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0240	Manning's N:	0.0240

Comment:

Channel Link: RP11A10	Upstream		Downstream	
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Scenario: 2016 FWCD Update	Invert: 17.07 ft	Invert: 15.78 ft
From Node: NP11A10	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP11A07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.93 ft	Max Depth: 9983.22 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 465.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP11A12	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.34 ft	Invert: 17.07 ft
From Node: NP11A12	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP11A10	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft

Bend Location: 0.00 dec  
 Energy Switch: Energy

Op Table:  
 Ref Node:  
 Manning's N: 0.0240

Op Table:  
 Ref Node:  
 Manning's N: 0.0240

Comment:

Channel Link: RP11A15

Scenario: 2016 FWCD Update  
 From Node: NP11A15  
 To Node: NP11A12  
 Link Count: 1  
 Flow Direction: Both  
 Damping: 0.0000 ft  
 Length: 822.00 ft  
 Contraction Coef: 0.00  
 Expansion Coef: 0.00  
 Entr Loss Coef: 0.00  
 Exit Loss Coef: 0.00  
 Bend Loss Coef: 0.00  
 Bend Location: 0.00 dec  
 Energy Switch: Energy

Upstream

Invert: 16.77 ft  
 Manning's N: 0.0700  
 Geometry: Trapezoidal  
 Max Depth: 9982.23 ft  
 Extrapolation: Normal  
 Bottom Width: 8.00 ft  
 Left Slope: 1.500 (h:v)  
 Right Slope: 1.500 (h:v)

Downstream

Invert: 17.34 ft  
 Manning's N: 0.0700  
 Geometry: Trapezoidal  
 Max Depth: 9981.66 ft  
 Extrapolation: Normal  
 Bottom Width: 8.00 ft  
 Left Slope: 1.500 (h:v)  
 Right Slope: 1.500 (h:v)

Bottom Clip

Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0700

Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0700

Top Clip

Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0700

Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0700

Comment:

Pipe Link: RP11A17

Scenario: 2016 FWCD Update  
 From Node: NP11A17  
 To Node: NP11A15

Upstream

Invert: 16.78 ft  
 Manning's N: 0.0240  
 Geometry: Circular

Downstream

Invert: 16.77 ft  
 Manning's N: 0.0240  
 Geometry: Circular

Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 50.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP11B01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.13 ft	Invert: 16.78 ft
From Node: NP11B01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP11A17	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9980.87 ft	Max Depth: 9982.22 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 638.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP11B03

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP11B03	NP11B01
To Node:	NP11B01	NP11B03
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	24.00 ft	24.00 ft
FHWA Code:	1	1
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 18.17 ft	Invert: 18.13 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 4.50 ft	Max Depth: 4.50 ft
	Bottom Clip	
	Default: 0.67 ft	Default: 0.67 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP11B05

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP11B05	NP11B03
To Node:	NP11B03	NP11B05
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	207.00 ft	207.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
Entr Loss Coef:	0.00	0.00
	Invert: 17.62 ft	Invert: 18.17 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9981.38 ft	Max Depth: 9980.83 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP11B07	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.99 ft	Invert: 17.62 ft
From Node: NP11B07	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP11B05	Geometry: Circular	
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 25.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP11B10	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.46 ft	Invert: 17.99 ft
From Node: NP11B10	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NP11B07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.54 ft	Max Depth: 9981.01 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 338.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP11B12	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.10 ft	Invert: 17.46 ft
From Node: NP11B12	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP11B10	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:

Manning's N: 0.0240

Manning's N: 0.0240

Comment:

Channel Link: RP11B15

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP11B15	
To Node:	NP11B12	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	723.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 18.72 ft	Invert: 18.10 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9980.28 ft	Max Depth: 9980.90 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP11B17

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP11B17	
To Node:	NP11B15	
Link Count:	1	
Flow Direction:	Both	
	Invert: 18.72 ft	Invert: 18.72 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 4.00 ft	Max Depth: 4.00 ft
	Bottom Clip	



Damping:	0.0000 ft	Default:	0.67 ft	Default:	0.67 ft
Length:	30.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0240	Manning's N:	0.0240
Exit Loss Coef:	0.95	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0240	Manning's N:	0.0240

Comment:

Channel Link: RP11B20

	Upstream	Downstream	
Scenario:	2016 FWCD Update	Invert: 19.16 ft	
From Node:	NP11B20	Manning's N: 0.0700	
To Node:	NP11B15	Manning's N: 0.0700	
Link Count:	1	Geometry: Trapezoidal	
Flow Direction:	Both	Max Depth: 9979.84 ft	
Damping:	0.0000 ft	Extrapolation: Normal	
Length:	880.00 ft	Bottom Width: 6.00 ft	
Contraction Coef:	0.00	Left Slope: 1.500 (h:v)	
Expansion Coef:	0.00	Right Slope: 1.500 (h:v)	
Entr Loss Coef:	0.00	Bottom Clip	
Exit Loss Coef:	0.00	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:	
Bend Location:	0.00 dec	Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0700
		Top Clip	
		Default:	0.00 ft
		Op Table:	
		Ref Node:	
		Manning's N:	0.0700

Comment:

Channel Link: RP11C01		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 19.59 ft	Invert: 19.16 ft
From Node:	NP11C01	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP11B20	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9979.41 ft	Max Depth: 9979.84 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Channel Link: RP11C05		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 20.06 ft	Invert: 19.59 ft
From Node:	NP11C05	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP11C01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9978.94 ft	Max Depth: 9979.41 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	941.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP11C07

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.11 ft	Invert: 20.06 ft
From Node: NP11C07	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP11C05	Geometry: Circular	
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP11C10

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.30 ft	Invert: 20.11 ft
From Node: NP11C10	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NP11C07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.70 ft	Max Depth: 9978.89 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 234.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP11C12	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.53 ft	Invert: 18.30 ft
From Node: NP11C12	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP11C10	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.50 ft	Max Depth: 3.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 19.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:

Manning's N: 0.0240

Manning's N: 0.0240

Comment:

Channel Link: RP11D01

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP11D01	NP11D01
To Node:	NP11C12	NP11D01
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	880.00 ft	880.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
Entr Loss Coef:	0.00	0.00
Exit Loss Coef:	0.00	0.00
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 20.12 ft	Invert: 18.53 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9978.88 ft	Max Depth: 9980.47 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP11D05

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP11D05	NP11D05
To Node:	NP11D01	NP11D05
Link Count:	1	1
Flow Direction:	Both	Both
	Invert: 20.95 ft	Invert: 20.12 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9978.05 ft	Max Depth: 9978.88 ft
	Extrapolation: Normal	Extrapolation: Normal

Damping:	0.0000 ft	Bottom Width:	6.00 ft	Bottom Width:	6.00 ft
Length:	880.00 ft	Left Slope:	1.500 (h:v)	Left Slope:	1.500 (h:v)
Contraction Coef:	0.00	Right Slope:	1.500 (h:v)	Right Slope:	1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0700	Manning's N:	0.0700
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0700	Manning's N:	0.0700

Comment:

Channel Link: RP11D10	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 21.79 ft	Invert: 20.95 ft
From Node: NP11D10	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP11D05	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9977.21 ft	Max Depth: 9978.05 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:

Ref Node: Ref Node:  
 Manning's N: 0.0700 Manning's N: 0.0700

Comment:

Channel Link: RP11E01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 22.71 ft	Invert: 21.79 ft
From Node: NP11E01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP11D10	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9976.29 ft	Max Depth: 9977.21 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP11E05	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 23.68 ft	Invert: 22.71 ft
From Node: NP11E05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP11E01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9975.32 ft	Max Depth: 9976.29 ft

Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP11E10	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 24.14 ft	Invert: 23.68 ft
From Node: NP11E10	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP11E05	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9974.86 ft	Max Depth: 9975.32 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 701.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft



Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP12A01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 13.58 ft	Invert: 12.58 ft
From Node: NP12A01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP-120	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9985.42 ft	Max Depth: 9986.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 300.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 1.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP12A03

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.38 ft	Invert: 13.58 ft
From Node: NP12A03	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP12A01	Geometry: Trapezoidal	Geometry: Trapezoidal

Link Count:	1	Max Depth:	9984.62 ft	Max Depth:	9985.42 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	8.00 ft	Bottom Width:	8.00 ft
Length:	399.00 ft	Left Slope:	1.500 (h:v)	Left Slope:	1.500 (h:v)
Contraction Coef:	0.00	Right Slope:	1.500 (h:v)	Right Slope:	1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0700	Manning's N:	0.0700
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0700	Manning's N:	0.0700

Comment:

Pipe Link: RP12A05

	Upstream	Downstream
Scenario:	2016 FWCD Update	
Invert:	14.55 ft	14.38 ft
From Node:	NP12A05	
Manning's N:	0.0240	0.0240
To Node:	NP12A03	
Geometry:	Circular	Circular
Link Count:	1	
Max Depth:	4.00 ft	4.00 ft
Flow Direction:	Both	
Bottom Clip		
Damping:	0.0000 ft	
Default:	0.67 ft	0.67 ft
Length:	35.00 ft	
Op Table:		
FHWA Code:	1	
Ref Node:		
Entr Loss Coef:	0.50	
Manning's N:	0.0240	0.0240
Exit Loss Coef:	0.95	
Top Clip		
Bend Loss Coef:	0.00	
Default:	0.00 ft	0.00 ft
Bend Location:	0.00 dec	
Op Table:		
Energy Switch:	Energy	
Ref Node:		
Manning's N:	0.0240	0.0240

Comment:

Channel Link: RP12A09

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP12A09	
To Node:	NP12A05	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	1027.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 15.77 ft	Invert: 14.55 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9983.23 ft	Max Depth: 9984.45 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP12A13

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP12A13	
To Node:	NP12A09	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
	Invert: 16.95 ft	Invert: 15.77 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9982.05 ft	Max Depth: 9983.23 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft

Length: 313.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP12A15	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.10 ft	Invert: 16.95 ft
From Node: NP12A15	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP12A13	Geometry: Circular	
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 60.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP12B01		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.54 ft	Invert: 17.10 ft
From Node:	NP12B01	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP12A15	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9981.46 ft	Max Depth: 9981.90 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	507.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Channel Link: RP12B05		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.58 ft	Invert: 17.54 ft
From Node:	NP12B05	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP12B01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9981.42 ft	Max Depth: 9981.46 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	538.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP12B07

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.58 ft	Invert: 17.58 ft
From Node: NP12B07	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP12B05	Geometry: Circular	
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP12B09

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.58 ft	Invert: 17.58 ft
From Node: NP12B09	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NP12B07	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9981.42 ft	Extrapolation: Normal	Max Depth: 9981.42 ft	Extrapolation: Normal
Flow Direction: Both	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)
Damping: 0.0000 ft	Right Slope: 1.500 (h:v)			
Length: 312.00 ft	Bottom Clip			
Contraction Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Expansion Coef: 0.00	Ref Node:	Ref Node:		
Entr Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700		
Exit Loss Coef: 0.00	Top Clip			
Bend Loss Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Bend Location: 0.00 dec	Ref Node:	Ref Node:		
Energy Switch: Energy	Manning's N: 0.0700	Manning's N: 0.0700		

Comment:

Channel Link: RP12B13	Upstream		Downstream	
Scenario: 2016 FWCD Update	Invert: 17.58 ft	Manning's N: 0.0700	Invert: 17.58 ft	Manning's N: 0.0700
From Node: NP12B13	Geometry: Trapezoidal		Geometry: Trapezoidal	
To Node: NP12B09	Max Depth: 9981.42 ft	Extrapolation: Normal	Max Depth: 9981.42 ft	Extrapolation: Normal
Link Count: 1	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)
Flow Direction: Both	Right Slope: 1.500 (h:v)			
Damping: 0.0000 ft	Bottom Clip			
Length: 601.00 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Contraction Coef: 0.00	Ref Node:	Ref Node:		
Expansion Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700		
Entr Loss Coef: 0.00				
Exit Loss Coef: 0.00				
Bend Loss Coef: 0.00				
Bend Location: 0.00 dec				

Energy Switch: Energy

Top Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP12B15

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 17.58 ft	Invert: 17.58 ft
From Node: NP12B15	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP12B13	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 34.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP12B17

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 17.58 ft	Invert: 17.58 ft
From Node: NP12B17	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP12B15	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.42 ft	Max Depth: 9981.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal



Damping:	0.0000 ft	Bottom Width:	6.00 ft	Bottom Width:	6.00 ft
Length:	245.00 ft	Left Slope:	1.500 (h:v)	Left Slope:	1.500 (h:v)
Contraction Coef:	0.00	Right Slope:	1.500 (h:v)	Right Slope:	1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0700	Manning's N:	0.0700
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0700	Manning's N:	0.0700

Comment:

Channel Link: RP12C01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.59 ft	Invert: 17.58 ft
From Node: NP12C01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP12B17	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.41 ft	Max Depth: 9981.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 636.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:

Ref Node: Manning's N: 0.0700      Ref Node: Manning's N: 0.0700

Comment:

Channel Link: RP12C05

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP12C05	NP12C01
To Node:	NP12C01	NP12C05
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	880.00 ft	880.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
Entr Loss Coef:	0.00	0.00
Exit Loss Coef:	0.00	0.00
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 17.61 ft	Invert: 17.59 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9981.39 ft	Max Depth: 9981.41 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP12C10

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP12C10	NP12C05
To Node:	NP12C05	NP12C10
Link Count:	1	1
	Invert: 17.62 ft	Invert: 17.61 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9981.38 ft	Max Depth: 9981.39 ft

Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP12C15

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.13 ft	Invert: 17.62 ft
From Node: NP12C15	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP12C10	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9980.87 ft	Max Depth: 9981.38 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 727.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft

Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP12C17

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.18 ft	Invert: 18.13 ft
From Node: NP12C17	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP12C15	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.50 ft	Max Depth: 4.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 43.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP12D01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.10 ft	Invert: 18.18 ft
From Node: NP12D01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP12C17	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.90 ft	Max Depth: 9980.82 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 354.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)

Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP12D05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.91 ft	Invert: 18.10 ft
From Node: NP12D05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP12D01	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9981.09 ft	Max Depth: 9980.90 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 910.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP12D07

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP12D07	NP12D05
To Node:	NP12D05	NP12D07
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	187.00 ft	187.00 ft
FHWA Code:	1	1
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 17.75 ft	Invert: 17.91 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 4.00 ft	Max Depth: 4.00 ft
	Bottom Clip	
	Default: 0.67 ft	Default: 0.67 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP12D13

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP12D13	NP12D07
To Node:	NP12D07	NP12D13
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	656.00 ft	656.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
Entr Loss Coef:	0.00	0.00
	Invert: 18.73 ft	Invert: 17.75 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9980.27 ft	Max Depth: 9981.25 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP12D15	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.87 ft	Invert: 18.73 ft
From Node: NP12D15	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP12D13	Geometry: Circular	
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 33.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP12D19	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.93 ft	Invert: 18.87 ft
From Node: NP12D19	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NP12D15	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9978.07 ft	Max Depth: 9980.13 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 585.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP12D21	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.46 ft	Invert: 20.93 ft
From Node: NP12D21	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP12D19	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:



Manning's N: 0.0240

Manning's N: 0.0240

Comment:

Channel Link: RP12E01

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP12E01	NP12D21
To Node:	NP12D21	NP12E01
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	928.00 ft	928.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
Entr Loss Coef:	0.00	0.00
Exit Loss Coef:	0.00	0.00
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 21.68 ft	Invert: 20.46 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9977.32 ft	Max Depth: 9978.54 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP12E05

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP12E05	NP12E01
To Node:	NP12E01	NP12E05
Link Count:	1	1
Flow Direction:	Both	Both
	Invert: 22.91 ft	Invert: 21.68 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9976.09 ft	Max Depth: 9977.32 ft
	Extrapolation: Normal	Extrapolation: Normal

Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 990.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP13aA01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 13.86 ft	Invert: 13.30 ft
From Node: NP13aA01	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP-130	Geometry: Circular	
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 29.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP13aA05		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 15.94 ft	Invert: 13.86 ft
From Node:	NP13aA05	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP13aA01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9983.06 ft	Max Depth: 9985.14 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	445.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP13aA07		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.27 ft	Invert: 15.94 ft
From Node:	NP13aA07	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP13aA05	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	30.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP13aA09

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.65 ft	Invert: 16.27 ft
From Node: NP13aA09	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP13aA07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.35 ft	Max Depth: 9982.73 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 668.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP13aA11

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.04 ft	Invert: 16.65 ft
From Node: NP13aA11	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NP13aA09	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.96 ft	Max Depth: 9982.35 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 668.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP13aA13	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.03 ft	Invert: 17.04 ft
From Node: NP13aA13	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP13aA11	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 60.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:

Manning's N: 0.0240

Manning's N: 0.0240

Comment:

Channel Link: RP13aA15

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP13aA15	
To Node:	NP13aA13	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	160.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 18.30 ft	Invert: 17.03 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9980.70 ft	Max Depth: 9981.97 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP13aA17

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP13aA17	
To Node:	NP13aA15	
Link Count:	1	
Flow Direction:	Both	
	Invert: 17.21 ft	Invert: 18.30 ft
	Manning's N: 0.0120	Manning's N: 0.0120
	Geometry: Circular	Geometry: Circular
	Max Depth: 4.00 ft	Max Depth: 4.00 ft
	Bottom Clip	

Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 49.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Channel Link: RP13aB01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.19 ft	Invert: 17.21 ft
From Node: NP13aB01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP13aA17	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.81 ft	Max Depth: 9981.79 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 657.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP13aB03		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.17 ft	Invert: 17.19 ft
From Node:	NP13aB03	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP13aB01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9981.83 ft	Max Depth: 9981.81 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	550.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Pipe Link: RP13aB07		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.28 ft	Invert: 17.17 ft
From Node:	NP13aB07	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP13aB03	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	20.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	



Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RP13aB09

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.04 ft	Invert: 17.16 ft
From Node: NP13aB09	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP13aB07	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP13aB11

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.16 ft	Invert: 17.04 ft
From Node: NP13aB11	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP13aB09	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.84 ft	Max Depth: 9981.96 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft

Length: 111.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP13aB13	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.14 ft	Invert: 17.16 ft
From Node: NP13aB13	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP13aB11	Geometry: Circular	
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 37.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP13aB15		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.87 ft	Invert: 17.14 ft
From Node:	NP13aB15	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP13aB13	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9981.13 ft	Max Depth: 9981.86 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	75.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Pipe Link: RP13aB17		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.42 ft	Invert: 17.87 ft
From Node:	NP13aB17	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP13aB15	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	30.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP13aB19

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.98 ft	Invert: 18.42 ft
From Node: NP13aB19	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP13aB17	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.02 ft	Max Depth: 9980.58 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 50.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP13aB21

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.47 ft	Invert: 16.98 ft
From Node: NP13aB21	Manning's N: 0.0240	Manning's N: 0.0240

To Node: NP13aB19	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 20.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP13aB23

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.85 ft	Invert: 17.47 ft
From Node: NP13aB23	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP13aB21	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.15 ft	Max Depth: 9981.53 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 179.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Pipe Link: RP13aB25

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP13aB25	NP13aB23
To Node:	NP13aB23	NP13aB25
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	30.00 ft	30.00 ft
FHWA Code:	1	1
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 18.21 ft	Invert: 17.85 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 5.50 ft	Max Depth: 5.50 ft
	Bottom Clip	Bottom Clip
	Default: 0.67 ft	Default: 0.67 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	Top Clip
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP13aC01

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP13aC01	NP13aB25
To Node:	NP13aB25	NP13aC01
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	1241.00 ft	1241.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
	Invert: 17.54 ft	Invert: 18.21 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9981.46 ft	Max Depth: 9980.79 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	Bottom Clip

Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP13aC05

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 18.28 ft	Invert: 17.54 ft
From Node: NP13aC05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP13aC01	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9980.72 ft	Max Depth: 9981.46 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 1025.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)

Bottom Clip

Expansion Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.00	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700
Bend Location: 0.00 dec	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP13aC07	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.47 ft	Invert: 18.28 ft
From Node: NP13aC07	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP13aC05	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.50 ft	Max Depth: 4.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 20.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
Comment:		

Channel Link: RP13aD01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.38 ft	Invert: 18.47 ft
From Node: NP13aD01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP13aC07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.62 ft	Max Depth: 9980.53 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 441.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	



Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP13bA01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 12.80 ft	Invert: 12.58 ft
From Node: NP13bA01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP-135	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9986.20 ft	Max Depth: 9986.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 302.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 1.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP13bA05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.40 ft	Invert: 12.80 ft
From Node: NP13bA05	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NP13bA01	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9984.60 ft	Extrapolation: Normal	Max Depth: 9986.20 ft	Extrapolation: Normal
Flow Direction: Both	Bottom Width: 8.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 8.00 ft	Left Slope: 1.500 (h:v)
Damping: 0.0000 ft	Right Slope: 1.500 (h:v)	Bottom Clip		
Length: 880.00 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Contraction Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Expansion Coef: 0.00	Top Clip			
Entr Loss Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Bend Loss Coef: 0.00	Op Table:	Op Table:		
Bend Location: 0.00 dec	Ref Node:	Ref Node:		
Energy Switch: Energy	Manning's N: 0.0700	Manning's N: 0.0700		

Comment:

Channel Link: RP13bA09	Upstream		Downstream	
Scenario: 2016 FWCD Update	Invert: 16.00 ft	Manning's N: 0.0700	Invert: 14.40 ft	Manning's N: 0.0700
From Node: NP13bA09	Geometry: Trapezoidal		Geometry: Trapezoidal	
To Node: NP13bA05	Max Depth: 9983.00 ft	Extrapolation: Normal	Max Depth: 9984.60 ft	Extrapolation: Normal
Link Count: 1	Bottom Width: 8.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 8.00 ft	Left Slope: 1.500 (h:v)
Flow Direction: Both	Right Slope: 1.500 (h:v)	Bottom Clip		
Damping: 0.0000 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Length: 881.00 ft	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Contraction Coef: 0.00	Top Clip			
Expansion Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Entr Loss Coef: 0.00	Ref Node:	Ref Node:		
Exit Loss Coef: 0.00	Op Table:	Op Table:		
Bend Loss Coef: 0.00	Ref Node:	Ref Node:		
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700		

Energy Switch: Energy

Top Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP13bA11

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 16.77 ft	Invert: 16.00 ft
From Node: NP13bA11	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP13bA09	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 92.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP13bB01

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 16.26 ft	Invert: 16.77 ft
From Node: NP13bB01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP13bA11	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.74 ft	Max Depth: 9982.23 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal

Damping:	0.0000 ft	Bottom Width:	6.00 ft	Bottom Width:	6.00 ft
Length:	1044.00 ft	Left Slope:	1.500 (h:v)	Left Slope:	1.500 (h:v)
Contraction Coef:	0.00	Right Slope:	1.500 (h:v)	Right Slope:	1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0700	Manning's N:	0.0700
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0700	Manning's N:	0.0700

Comment:

Channel Link: RP13bB05

	Upstream	Downstream	
Scenario:	2016 FWCD Update	Invert: 15.95 ft	
From Node:	NP13bB05	Invert: 16.26 ft	
To Node:	NP13bB01	Manning's N: 0.0700	
Link Count:	1	Manning's N: 0.0700	
Flow Direction:	Both	Geometry: Trapezoidal	
Damping:	0.0000 ft	Max Depth: 9983.05 ft	
Length:	920.00 ft	Extrapolation: Normal	
Contraction Coef:	0.00	Bottom Width: 6.00 ft	
Expansion Coef:	0.00	Left Slope: 1.500 (h:v)	
Entr Loss Coef:	0.00	Right Slope: 1.500 (h:v)	
Exit Loss Coef:	0.00	Bottom Clip	
Bend Loss Coef:	0.00	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:	
Energy Switch:	Energy	Ref Node:	
		Manning's N:	0.0700
		Top Clip	
		Default:	0.00 ft
		Op Table:	

Ref Node: Ref Node:  
 Manning's N: 0.0700 Manning's N: 0.0700

Comment:

Pipe Link: RP13bB07

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP13bB07	
To Node:	NP13bB05	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	60.00 ft	
FHWA Code:	1	
Entr Loss Coef:	0.50	
Exit Loss Coef:	0.95	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 16.30 ft	Invert: 15.95 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 6.00 ft	Max Depth: 6.00 ft
	Bottom Clip	
	Default: 0.67 ft	Default: 0.67 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP13bB13

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP13bB13	
To Node:	NP13bB07	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	1073.00 ft	
Contraction Coef:	0.00	
	Invert: 16.79 ft	Invert: 16.30 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9982.21 ft	Max Depth: 9982.70 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)

Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	

Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0700	Manning's N:	0.0700

Comment:

Channel Link: RP13bC01

	Upstream	Downstream	
Scenario:	2016 FWCD Update	Invert: 16.39 ft	
From Node:	NP13bC01	Invert: 16.79 ft	
To Node:	NP13bB13	Manning's N: 0.0700	
Link Count:	1	Manning's N: 0.0700	
Flow Direction:	Both	Geometry: Trapezoidal	
Damping:	0.0000 ft	Max Depth: 9982.61 ft	
Length:	912.00 ft	Extrapolation: Normal	
Contraction Coef:	0.00	Bottom Width: 6.00 ft	
Expansion Coef:	0.00	Left Slope: 1.500 (h:v)	
Entr Loss Coef:	0.00	Right Slope: 1.500 (h:v)	
Exit Loss Coef:	0.00	Right Slope: 1.500 (h:v)	
Bend Loss Coef:	0.00	Bottom Clip	
Bend Location:	0.00 dec	Default: 0.00 ft	Default: 0.00 ft
Energy Switch:	Energy	Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
		Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP13bC05		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.08 ft	Invert: 16.39 ft
From Node:	NP13bC05	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP13bC01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9980.92 ft	Max Depth: 9982.61 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	672.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Pipe Link: RP13bC07		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.02 ft	Invert: 17.02 ft
From Node:	NP13bC07	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	NP13bC05	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	64.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Channel Link: RP13bC13

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.07 ft	Invert: 18.29 ft
From Node: NP13bC13	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP13bC07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9979.93 ft	Max Depth: 9980.71 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP13bD01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.84 ft	Invert: 19.07 ft
From Node: NP13bD01	Manning's N: 0.0700	Manning's N: 0.0700



To Node: NP13bC13	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9979.16 ft	Extrapolation: Normal	Max Depth: 9979.93 ft	Extrapolation: Normal
Flow Direction: Both	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)
Damping: 0.0000 ft	Right Slope: 1.500 (h:v)	Bottom Clip		
Length: 880.00 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Contraction Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Expansion Coef: 0.00	Top Clip			
Entr Loss Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Bend Loss Coef: 0.00	Op Table:	Op Table:		
Bend Location: 0.00 dec	Ref Node:	Ref Node:		
Energy Switch: Energy	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP13bD05	Upstream		Downstream	
Scenario: 2016 FWCD Update	Invert: 20.62 ft	Manning's N: 0.0700	Invert: 19.84 ft	Manning's N: 0.0700
From Node: NP13bD05	Geometry: Trapezoidal		Geometry: Trapezoidal	
To Node: NP13bD01	Max Depth: 9978.38 ft	Extrapolation: Normal	Max Depth: 9979.16 ft	Extrapolation: Normal
Link Count: 1	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)
Flow Direction: Both	Right Slope: 1.500 (h:v)	Bottom Clip		
Damping: 0.0000 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Length: 880.00 ft	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Contraction Coef: 0.00	Top Clip			
Expansion Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Entr Loss Coef: 0.00	Ref Node:	Ref Node:		
Exit Loss Coef: 0.00	Op Table:	Op Table:		
Bend Loss Coef: 0.00	Ref Node:	Ref Node:		
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700

Energy Switch: Energy

Top Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP13bD10

Upstream

Downstream

Scenario: 2016 FWCD Update  
 From Node: NP13bD10  
 To Node: NP13bD05  
 Link Count: 1  
 Flow Direction: Both  
 Damping: 0.0000 ft  
 Length: 983.00 ft  
 Contraction Coef: 0.00  
 Expansion Coef: 0.00  
 Entr Loss Coef: 0.00  
 Exit Loss Coef: 0.00  
 Bend Loss Coef: 0.00  
 Bend Location: 0.00 dec  
 Energy Switch: Energy

Invert: 21.49 ft	Invert: 20.62 ft
Manning's N: 0.0700	Manning's N: 0.0700
Geometry: Trapezoidal	Geometry: Trapezoidal
Max Depth: 9977.51 ft	Max Depth: 9978.38 ft
Extrapolation: Normal	Extrapolation: Normal
Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)

Bottom Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Top Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP13bE01

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 21.88 ft	Invert: 20.98 ft
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From Node: NP13bE01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP13bD10	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9977.12 ft	Max Depth: 9978.02 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 1764.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP14A01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.46 ft	Invert: 12.58 ft
From Node: NP14A01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP-140	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9984.54 ft	Max Depth: 9986.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 169.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 1.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:

Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP14A05	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.35 ft	Invert: 14.46 ft
From Node: NP14A05	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP14A01	Geometry: Circular	
Link Count: 1	Max Depth: 6.00 ft	Max Depth: 6.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP14A07	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.16 ft	Invert: 14.35 ft
From Node: NP14A07	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP14A05	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9982.84 ft	Max Depth: 9984.65 ft

Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 479.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP14A09

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.36 ft	Invert: 16.16 ft
From Node: NP14A09	Manning's N: 0.0160	Manning's N: 0.0160
To Node: NP14A07	Geometry: Circular	
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 20.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0160	Manning's N: 0.0160
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0160	Manning's N: 0.0160

Comment:

Channel Link: RP14A11		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.48 ft	Invert: 16.36 ft
From Node:	NP14A11	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP14A09	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9981.52 ft	Max Depth: 9982.64 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	462.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Pipe Link: RP14A13		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.38 ft	Invert: 17.48 ft
From Node:	NP14A13	Manning's N: 0.0160	Manning's N: 0.0160
To Node:	NP14A11	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 5.50 ft	Max Depth: 5.50 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	21.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0160	Manning's N: 0.0160
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0160	Manning's N: 0.0160

Comment:

Channel Link: RP14A15

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.32 ft	Invert: 17.38 ft
From Node: NP14A15	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP14A13	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.68 ft	Max Depth: 9981.62 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 404.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP14A17

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.48 ft	Invert: 17.32 ft
From Node: NP14A17	Manning's N: 0.0240	Manning's N: 0.0240

To Node: NP14A15	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000	Default: 0.67 ft	Default: 0.67 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP14A19

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.69 ft	Invert: 17.48 ft
From Node: NP14A19	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP14A17	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.31 ft	Max Depth: 9981.52 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 50.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:



Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Pipe Link: RP14A21

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP14A21	NP14A19
To Node:	NP14A19	NP14A21
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	20.00 ft	20.00 ft
FHWA Code:	1	1
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 16.88 ft	Invert: 16.69 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 5.50 ft	Max Depth: 5.50 ft
	Bottom Clip	Bottom Clip
	Default: 0.67 ft	Default: 0.67 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	Top Clip
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP14A23

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP14A23	NP14A23
To Node:	NP14A21	NP14A21
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	173.00 ft	173.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
	Invert: 16.87 ft	Invert: 16.88 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9982.13 ft	Max Depth: 9982.12 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	Bottom Clip

Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP14A25

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.50 ft	Invert: 16.45 ft
From Node: NP14A25	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NP14A23	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft

Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 138.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120

Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Channel Link: RP14A27

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.18 ft	Invert: 16.58 ft

From Node: NP14A27	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP14A25	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.82 ft	Max Depth: 9982.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 350.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP14A29	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.08 ft	Invert: 16.18 ft
From Node: NP14A29	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP14A27	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:

Energy Switch: Energy

Ref Node:  
Manning's N: 0.0240

Ref Node:  
Manning's N: 0.0240

Comment:

Channel Link: RP14B01

Scenario: 2016 FWCD Update  
From Node: NP14B01  
To Node: NP14A29  
Link Count: 1  
Flow Direction: Both  
Damping: 0.0000 ft  
Length: 349.00 ft  
Contraction Coef: 0.00  
Expansion Coef: 0.00  
Entr Loss Coef: 0.00  
Exit Loss Coef: 0.00  
Bend Loss Coef: 0.00  
Bend Location: 0.00 dec  
Energy Switch: Energy

Upstream

Invert: 17.18 ft  
Manning's N: 0.0700  
Geometry: Trapezoidal  
Max Depth: 9981.82 ft  
Extrapolation: Normal  
Bottom Width: 6.00 ft  
Left Slope: 1.500 (h:v)  
Right Slope: 1.500 (h:v)

Downstream

Invert: 16.08 ft  
Manning's N: 0.0700  
Geometry: Trapezoidal  
Max Depth: 9982.92 ft  
Extrapolation: Normal  
Bottom Width: 6.00 ft  
Left Slope: 1.500 (h:v)  
Right Slope: 1.500 (h:v)

Bottom Clip

Default: 0.00 ft  
Op Table:  
Ref Node:  
Manning's N: 0.0700

Default: 0.00 ft  
Op Table:  
Ref Node:  
Manning's N: 0.0700

Top Clip

Default: 0.00 ft  
Op Table:  
Ref Node:  
Manning's N: 0.0700

Default: 0.00 ft  
Op Table:  
Ref Node:  
Manning's N: 0.0700

Comment:

Pipe Link: RP14B03

Scenario: 2016 FWCD Update  
From Node: NP14B03  
To Node: NP14B01  
Link Count: 1

Upstream

Invert: 17.18 ft  
Manning's N: 0.0240  
Geometry: Circular  
Max Depth: 5.00 ft

Downstream

Invert: 17.18 ft  
Manning's N: 0.0240  
Geometry: Circular  
Max Depth: 5.00 ft

Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	30.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link:	RP14B05	Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 15.94 ft	Invert: 17.18 ft
From Node:	NP14B05	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP14B03	Geometry: Trapezoidal	
Link Count:	1	Max Depth: 9983.06 ft	Max Depth: 9981.82 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	351.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP14B07		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.12 ft	Invert: 15.94 ft
From Node:	NP14B07	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP14B05	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	30.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240
Comment:			

Channel Link: RP14B09		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.15 ft	Invert: 16.12 ft
From Node:	NP14B09	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP14B07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9981.85 ft	Max Depth: 9982.88 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	38.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP14B11

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.05 ft	Invert: 17.15 ft
From Node: NP14B11	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP14B09	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 61.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP14B13

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.65 ft	Invert: 17.05 ft
From Node: NP14B13	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP14B11	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.35 ft	Max Depth: 9981.95 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft

Length: 251.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP14B15

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.63 ft	Invert: 17.65 ft
From Node: NP14B15	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP14B13	Geometry: Circular	
Link Count: 1	Max Depth: 4.33 ft	Max Depth: 4.33 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:



Channel Link: RP14B17		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.69 ft	Invert: 16.63 ft
From Node:	NP14B17	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP14B15	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9981.31 ft	Max Depth: 9982.37 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	348.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Pipe Link: RP14B19		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.70 ft	Invert: 17.69 ft
From Node:	NP14B19	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP14B17	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 5.50 ft	Max Depth: 5.50 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	31.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP14B21

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.16 ft	Invert: 17.70 ft
From Node: NP14B21	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP14B19	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.84 ft	Max Depth: 9981.30 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 204.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP14B23

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.16 ft	Invert: 18.16 ft
From Node: NP14B23	Manning's N: 0.0240	Manning's N: 0.0240

To Node: NP14B21	Geometry: Horizontal Ellipse	Geometry: Horizontal Ellipse
Link Count: 1	Max Depth: 3.92 ft	Max Depth: 3.92 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 159.00 ft	Op Table:	Op Table:
FHWA Code: 30	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RP14B25	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.26 ft	Invert: 18.16 ft
From Node: NP14B25	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP14B23	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 39.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RP14B27	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.26 ft	Invert: 18.26 ft
From Node: NP14B27	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP14B25	Geometry: Horizontal Ellipse	Geometry: Horizontal Ellipse
Link Count: 1	Max Depth: 3.92 ft	Max Depth: 3.92 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 104.00 ft	Op Table:	Op Table:
FHWA Code: 30	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
Comment:		

Channel Link: RP14B31	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.11 ft	Invert: 18.26 ft
From Node: NP14B31	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP14B27	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.89 ft	Max Depth: 9980.74 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 194.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP14B33

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.03 ft	Invert: 18.11 ft
From Node: NP14B33	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP14B31	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP14B35

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.29 ft	Invert: 18.03 ft
From Node: NP14B35	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP14B33	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.71 ft	Max Depth: 9980.97 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft

Length: 135.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP14B37	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.04 ft	Invert: 18.29 ft
From Node: NP14B37	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP14B35	Geometry: Circular	
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 20.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP14B39		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.31 ft	Invert: 18.04 ft
From Node:	NP14B39	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP14B37	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9980.69 ft	Max Depth: 9980.96 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	141.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Pipe Link: RP14B41		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.26 ft	Invert: 18.31 ft
From Node:	NP14B41	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP14B39	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.50 ft	Max Depth: 3.50 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	30.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP14B43

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.02 ft	Invert: 18.26 ft
From Node: NP14B43	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP14B41	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9979.98 ft	Max Depth: 9980.74 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 295.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP14B45

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.01 ft	Invert: 19.02 ft
From Node: NP14B45	Manning's N: 0.0240	Manning's N: 0.0240



To Node: NP14B43	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000	Default: 0.67 ft	Default: 0.67 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP14C01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.89 ft	Invert: 19.01 ft
From Node: NP14C01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP14B45	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.11 ft	Max Depth: 9979.99 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 153.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Pipe Link: RP14C03

	Upstream	Downstream
Scenario:	2016 FWCD Update	
	Invert: 18.71 ft	Invert: 18.89 ft
From Node:	NP14C03	Manning's N: 0.0240
	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP14C01	Geometry: Circular
	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft
	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip
	Default: 0.67 ft	Default: 0.67 ft
Damping:	0.0000 ft	Op Table:
	Op Table:	Op Table:
Length:	24.00 ft	Ref Node:
	Ref Node:	Ref Node:
FHWA Code:	1	Manning's N: 0.0240
Entr Loss Coef:	0.50	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip
Bend Loss Coef:	0.00	Default: 0.00 ft
	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:
	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP14C05

	Upstream	Downstream
Scenario:	2016 FWCD Update	
	Invert: 18.77 ft	Invert: 18.71 ft
From Node:	NP14C05	Manning's N: 0.0700
	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP14C03	Geometry: Trapezoidal
	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9980.23 ft
	Max Depth: 9980.23 ft	Max Depth: 9980.29 ft
Flow Direction:	Both	Extrapolation: Normal
	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	118.00 ft	Left Slope: 1.500 (h:v)
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip

Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP14C07

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.83 ft	Invert: 18.77 ft
From Node: NP14C07	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP14C05	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft

Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240

Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP14C09

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.03 ft	Invert: 18.83 ft

From Node: NP14C09	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP14C07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9979.97 ft	Max Depth: 9980.17 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 132.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP14C11

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.94 ft	Invert: 19.03 ft
From Node: NP14C11	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP14C09	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 21.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:

Energy Switch: Energy

Ref Node:  
Manning's N: 0.0240

Ref Node:  
Manning's N: 0.0240

Comment:

Channel Link: RP14C13

Scenario: 2016 FWCD Update  
From Node: NP14C13  
To Node: NP14C11  
Link Count: 1  
Flow Direction: Both  
Damping: 0.0000 ft  
Length: 141.00 ft  
Contraction Coef: 0.00  
Expansion Coef: 0.00  
Entr Loss Coef: 0.00  
Exit Loss Coef: 0.00  
Bend Loss Coef: 0.00  
Bend Location: 0.00 dec  
Energy Switch: Energy

Upstream

Invert: 18.83 ft  
Manning's N: 0.0700  
Geometry: Trapezoidal  
Max Depth: 9980.17 ft  
Extrapolation: Normal  
Bottom Width: 6.00 ft  
Left Slope: 1.500 (h:v)  
Right Slope: 1.500 (h:v)

Downstream

Invert: 18.94 ft  
Manning's N: 0.0700  
Geometry: Trapezoidal  
Max Depth: 9980.06 ft  
Extrapolation: Normal  
Bottom Width: 6.00 ft  
Left Slope: 1.500 (h:v)  
Right Slope: 1.500 (h:v)

Bottom Clip

Default: 0.00 ft  
Op Table:  
Ref Node:  
Manning's N: 0.0700

Default: 0.00 ft  
Op Table:  
Ref Node:  
Manning's N: 0.0700

Top Clip

Default: 0.00 ft  
Op Table:  
Ref Node:  
Manning's N: 0.0700

Default: 0.00 ft  
Op Table:  
Ref Node:  
Manning's N: 0.0700

Comment:

Pipe Link: RP14C15

Scenario: 2016 FWCD Update  
From Node: NP14C15  
To Node: NP14C13  
Link Count: 1

Upstream

Invert: 18.54 ft  
Manning's N: 0.0120  
Geometry: Circular  
Max Depth: 2.50 ft

Downstream

Invert: 18.39 ft  
Manning's N: 0.0120  
Geometry: Circular  
Max Depth: 2.50 ft

Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	48.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Channel Link:	RP14C17	Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 19.03 ft	Invert: 18.85 ft
From Node:	NP14C17	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP14C15	Geometry: Trapezoidal	
Link Count:	1	Max Depth: 9979.97 ft	Max Depth: 9980.15 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	298.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP14C19		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 19.16 ft	Invert: 19.03 ft
From Node:	NP14C19	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP14C17	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	31.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240
Comment:			

Channel Link: RP14C21		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 19.07 ft	Invert: 19.16 ft
From Node:	NP14C21	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP14C19	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9979.93 ft	Max Depth: 9979.84 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	294.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP14C23

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.38 ft	Invert: 19.07 ft
From Node: NP14C23	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP14C21	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.50 ft	Default: 0.50 ft
Length: 31.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP14C24

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.58 ft	Invert: 19.38 ft
From Node: NP14C24	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP14C23	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9979.42 ft	Max Depth: 9979.62 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft



Length: 273.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP14C25	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.64 ft	Invert: 19.05 ft
From Node: NP14C25	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP14NBP	Geometry: Circular	
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 34.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RP14C27	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.89 ft	Invert: 18.88 ft
From Node: NP14C27	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP14C25	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.50 ft	Default: 0.50 ft
Length: 22.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
Comment:		

Channel Link: RP14D01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.54 ft	Invert: 18.89 ft
From Node: NP14D01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP14C27	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9979.46 ft	Max Depth: 9980.11 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 716.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP14D05

Scenario: 2016 FWCD Update  
 From Node: NP14D05  
 To Node: NP14D01  
 Link Count: 1  
 Flow Direction: Both  
 Damping: 0.0000 ft  
 Length: 880.00 ft  
 Contraction Coef: 0.00  
 Expansion Coef: 0.00  
 Entr Loss Coef: 0.00  
 Exit Loss Coef: 0.00  
 Bend Loss Coef: 0.00  
 Bend Location: 0.00 dec  
 Energy Switch: Energy

Upstream

Invert: 19.45 ft  
 Manning's N: 0.0700  
 Geometry: Trapezoidal  
 Max Depth: 9979.55 ft  
 Extrapolation: Normal  
 Bottom Width: 6.00 ft  
 Left Slope: 1.500 (h:v)  
 Right Slope: 1.500 (h:v)

Downstream

Invert: 19.54 ft  
 Manning's N: 0.0700  
 Geometry: Trapezoidal  
 Max Depth: 9979.46 ft  
 Extrapolation: Normal  
 Bottom Width: 6.00 ft  
 Left Slope: 1.500 (h:v)  
 Right Slope: 1.500 (h:v)

Bottom Clip

Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0700

Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0700

Top Clip

Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0700

Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0700

Comment:

Channel Link: RP14D07

Scenario: 2016 FWCD Update  
 From Node: NP14D07

Upstream

Invert: 19.09 ft  
 Manning's N: 0.0700

Downstream

Invert: 19.45 ft  
 Manning's N: 0.0700

To Node: NP14D05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9979.91 ft	Max Depth: 9979.55 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 271.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP14D09	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.98 ft	Invert: 19.09 ft
From Node: NP14D09	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP14D07	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:

Manning's N: 0.0240

Manning's N: 0.0240

Comment:

Channel Link: RP14D13

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP14D13	
To Node:	NP14D09	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	579.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 19.17 ft	Invert: 18.98 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9979.83 ft	Max Depth: 9980.02 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP14D19

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP14D19	
To Node:	NP14D13	
Link Count:	1	
Flow Direction:	Both	
	Invert: 19.34 ft	Invert: 19.17 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9979.66 ft	Max Depth: 9979.83 ft
	Extrapolation: Normal	Extrapolation: Normal

Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 540.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP14D21	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.36 ft	Invert: 19.34 ft
From Node: NP14D21	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP14D19	Geometry: Horizontal Ellipse	Geometry: Horizontal Ellipse
Link Count: 1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.50 ft	Default: 0.50 ft
Length: 39.00 ft	Op Table:	Op Table:
FHWA Code: 30	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP14E01		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.99 ft	Invert: 19.36 ft
From Node:	NP14E01	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP14D21	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9980.01 ft	Max Depth: 9979.64 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	342.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Channel Link: RP14E03		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 20.58 ft	Invert: 18.99 ft
From Node:	NP14E03	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP14E01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9978.42 ft	Max Depth: 9980.01 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP14E05

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 21.08 ft	Invert: 20.58 ft
From Node: NP14E05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP14E03	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9977.92 ft	Max Depth: 9978.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 824.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)

Bottom Clip

Expansion Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.00	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700
Bend Location: 0.00 dec	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:



Channel Link: RP14NBP		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 19.05 ft	Invert: 18.29 ft
From Node:	NP14NBP	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP13bC07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9979.95 ft	Max Depth: 9980.71 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	599.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.10	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.50	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Channel Link: RP15A01		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 14.30 ft	Invert: 12.58 ft
From Node:	NP15A01	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP-150	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9984.70 ft	Max Depth: 9986.42 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	300.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 1.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP15A05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.07 ft	Invert: 14.30 ft
From Node: NP15A05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP15A01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9983.93 ft	Max Depth: 9984.70 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 580.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)

Bottom Clip

Expansion Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.00	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700
Bend Location: 0.00 dec		
Energy Switch: Energy		

Top Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP15A10		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.10 ft	Invert: 15.07 ft
From Node:	NP15A10	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP15A05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9982.90 ft	Max Depth: 9983.93 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	756.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.25	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Channel Link: RP15A13		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 14.83 ft	Invert: 16.10 ft
From Node:	NP15A13	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP15A10	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9984.17 ft	Max Depth: 9982.90 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	454.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP15A15

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.68 ft	Invert: 14.55 ft
From Node: NP15A15	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NP15A13	Geometry: Circular	
Link Count: 1	Max Depth: 5.50 ft	Max Depth: 5.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 72.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Channel Link: RP15A17

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.88 ft	Invert: 14.83 ft
From Node: NP15A17	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NP15A15	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9984.12 ft	Max Depth: 9984.17 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 353.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP15A19	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.88 ft	Invert: 14.88 ft
From Node: NP15A19	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NP15A17	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 6.00 ft	Max Depth: 6.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 24.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:

Manning's N: 0.0120

Manning's N: 0.0120

Comment:

Channel Link: RP15B01

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP15B01	NP15A19
To Node:	NP15A19	NP15B01
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	353.00 ft	353.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
Entr Loss Coef:	0.00	0.00
Exit Loss Coef:	0.00	0.00
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 14.98 ft	Invert: 14.88 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9984.02 ft	Max Depth: 9984.12 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP15B03

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP15B03	NP15B01
To Node:	NP15B01	NP15B03
Link Count:	1	1
Flow Direction:	Both	Both
	Invert: 14.98 ft	Invert: 14.98 ft
	Manning's N: 0.0120	Manning's N: 0.0120
	Geometry: Circular	Geometry: Circular
	Max Depth: 6.00 ft	Max Depth: 6.00 ft
	Bottom Clip	

Damping:	0.0000 ft	Default:	0.67 ft	Default:	0.67 ft
Length:	24.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0120	Manning's N:	0.0120
Exit Loss Coef:	0.95	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0120	Manning's N:	0.0120

Comment:

Channel Link: RP15B05

	Upstream	Downstream	
Scenario:	2016 FWCD Update	Invert: 15.08 ft	
From Node:	NP15B05	Manning's N: 0.0700	
To Node:	NP15B03	Geometry: Trapezoidal	
Link Count:	1	Max Depth: 9983.92 ft	
Flow Direction:	Both	Extrapolation: Normal	
Damping:	0.0000 ft	Bottom Width: 6.00 ft	
Length:	345.00 ft	Left Slope: 1.500 (h:v)	
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:	
Bend Loss Coef:	0.00	Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0700
Energy Switch:	Energy	Top Clip	
		Default:	0.00 ft
		Op Table:	
		Ref Node:	
		Manning's N:	0.0700

Comment:

Pipe Link: RP15B07	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.28 ft	Invert: 15.08 ft
From Node: NP15B07	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NP15B05	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 429.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120
Comment:		

Pipe Link: RP15B09	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.38 ft	Invert: 15.28 ft
From Node: NP15B09	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NP15B07	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 311.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120



Comment:

Pipe Link: RP15B11	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.48 ft	Invert: 15.38 ft
From Node: NP15B11	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NP15B09	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 390.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RP15B13	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.58 ft	Invert: 15.48 ft
From Node: NP15B13	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NP15B11	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 360.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RP15B15

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.68 ft	Invert: 15.58 ft
From Node: NP15B15	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NP15B13	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 319.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RP15C01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.78 ft	Invert: 15.68 ft
From Node: NP15C01	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NP15B15	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.50 ft	Max Depth: 4.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft

Length: 313.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RP15C03

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.88 ft	Invert: 15.78 ft
From Node: NP15C03	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NP15C01	Geometry: Circular	
Link Count: 1	Max Depth: 4.50 ft	Max Depth: 4.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 327.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RP15C05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.98 ft	Invert: 15.88 ft
From Node: NP15C05	Manning's N: 0.0120	Manning's N: 0.0120

To Node:	NP15C03	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 4.50 ft	Max Depth: 4.50 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	381.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link:	RP15C07	Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.58 ft	Invert: 16.48 ft
From Node:	NP15C07	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	NP15C05	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.50 ft	Max Depth: 3.50 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	310.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RP15C09	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.68 ft	Invert: 16.58 ft
From Node: NP15C09	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NP15C07	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.50 ft	Max Depth: 3.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 264.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120
Comment:		

Pipe Link: RP15C11	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.78 ft	Invert: 16.68 ft
From Node: NP15C11	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NP15C09	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 398.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Channel Link: RP15D01

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP15D01	
To Node:	NP15NBPB	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	219.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 18.94 ft	Invert: 19.58 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9980.06 ft	Max Depth: 9979.42 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.000 (h:v)	Left Slope: 1.000 (h:v)
	Right Slope: 1.000 (h:v)	Right Slope: 1.000 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP15D05

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP15D05	
To Node:	NP15D01	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
	Invert: 18.90 ft	Invert: 18.94 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9980.10 ft	Max Depth: 9980.06 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft

Length: 880.00 ft	Left Slope: 1.000 (h:v)	Left Slope: 1.000 (h:v)
Contraction Coef: 0.00	Right Slope: 1.000 (h:v)	Right Slope: 1.000 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP15D07

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.86 ft	Invert: 18.90 ft
From Node: NP15D07	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP15D05	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9980.14 ft	Max Depth: 9980.10 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 874.00 ft	Left Slope: 1.000 (h:v)	Left Slope: 1.000 (h:v)
Contraction Coef: 0.00	Right Slope: 1.000 (h:v)	Right Slope: 1.000 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 1.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Pipe Link: RP15D09

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP15D09	NP15D07
To Node:	NP15D07	NP15D09
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	40.00 ft	40.00 ft
FHWA Code:	1	1
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 18.89 ft	Invert: 19.78 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 3.00 ft	Max Depth: 3.00 ft
	Bottom Clip	Bottom Clip
	Default: 0.67 ft	Default: 0.67 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	Top Clip
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP15E01

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP15E01	NP15D09
To Node:	NP15D09	NP15E01
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	940.00 ft	940.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
	Invert: 20.31 ft	Invert: 18.89 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9978.69 ft	Max Depth: 9980.11 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.000 (h:v)	Left Slope: 1.000 (h:v)
	Right Slope: 1.000 (h:v)	Right Slope: 1.000 (h:v)
	Bottom Clip	Bottom Clip



Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP15E05

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 19.78 ft	Invert: 20.31 ft
From Node: NP15E05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP15E01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9979.22 ft	Max Depth: 9978.69 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 829.00 ft	Left Slope: 1.000 (h:v)	Left Slope: 1.000 (h:v)
Contraction Coef: 0.00	Right Slope: 1.000 (h:v)	Right Slope: 1.000 (h:v)

Bottom Clip

Expansion Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.00	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700
Bend Location: 0.00 dec	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP15E10		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 20.08 ft	Invert: 19.78 ft
From Node:	NP15E10	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP15E05	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	546.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240
Comment:			

Channel Link: RP15E15		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 21.08 ft	Invert: 20.08 ft
From Node:	NP15E15	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP15E10	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9977.92 ft	Max Depth: 9978.92 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	899.00 ft	Left Slope: 1.000 (h:v)	Left Slope: 1.000 (h:v)
Contraction Coef:	0.00	Right Slope: 1.000 (h:v)	Right Slope: 1.000 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP15NBPA

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.49 ft	Invert: 18.78 ft
From Node: NP15NBPA	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP14C25	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP15NBPB

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.95 ft	Invert: 18.49 ft
From Node: NP15NBPB	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP15NBPA	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.05 ft	Max Depth: 9980.51 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft

Length: 1003.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.10	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP15NBPC

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.08 ft	Invert: 18.95 ft
From Node: NP15NBPC	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP15NBPB	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9979.92 ft	Max Depth: 9980.05 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 464.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Channel Link: RP16A01

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP16A01	
To Node:	NP-160	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	300.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
Exit Loss Coef:	1.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 13.58 ft	Invert: 12.58 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9985.42 ft	Max Depth: 9986.42 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP16A03

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP16A03	
To Node:	NP16A01	
Link Count:	1	
Flow Direction:	Both	
	Invert: 14.51 ft	Invert: 13.58 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9984.49 ft	Max Depth: 9985.42 ft
	Extrapolation: Normal	Extrapolation: Normal

Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 47.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP16A05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.65 ft	Invert: 14.51 ft
From Node: NP16A05	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP16A03	Geometry: Circular	
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP16A07		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.28 ft	Invert: 14.65 ft
From Node:	NP16A07	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP16A05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9982.72 ft	Max Depth: 9984.35 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	503.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Channel Link: RP16A09		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.88 ft	Invert: 16.28 ft
From Node:	NP16A09	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP16A07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9982.12 ft	Max Depth: 9982.72 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	351.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP16A11

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.97 ft	Invert: 16.88 ft
From Node: NP16A11	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NP16A09	Geometry: Circular	
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 91.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Channel Link: RP16A12

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.68 ft	Invert: 16.97 ft
From Node: NP16A12	Manning's N: 0.0700	Manning's N: 0.0700



To Node: NP16A11	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9981.32 ft	Extrapolation: Normal	Max Depth: 9982.03 ft	Extrapolation: Normal
Flow Direction: Both	Bottom Width: 8.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 8.00 ft	Left Slope: 1.500 (h:v)
Damping: 0.0000 ft	Right Slope: 1.500 (h:v)	Bottom Clip		
Length: 443.00 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Contraction Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Expansion Coef: 0.00	Top Clip			
Entr Loss Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Bend Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700
Bend Location: 0.00 dec				
Energy Switch: Energy				

Comment:

Channel Link: RP16A13	Upstream		Downstream	
Scenario: 2016 FWCD Update	Invert: 16.48 ft	Manning's N: 0.0700	Invert: 17.68 ft	Manning's N: 0.0700
From Node: NP16A13	Geometry: Trapezoidal		Geometry: Trapezoidal	
To Node: NP16A12	Max Depth: 9982.52 ft	Extrapolation: Normal	Max Depth: 9981.32 ft	Extrapolation: Normal
Link Count: 1	Bottom Width: 8.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 8.00 ft	Left Slope: 1.500 (h:v)
Flow Direction: Both	Right Slope: 1.500 (h:v)	Bottom Clip		
Damping: 0.0000 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Length: 399.00 ft	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Contraction Coef: 0.00	Top Clip			
Expansion Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Entr Loss Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Exit Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700
Bend Loss Coef: 0.00				
Bend Location: 0.00 dec				

Energy Switch: Energy

Top Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP16A15

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 16.06 ft	Invert: 17.61 ft
From Node: NP16A15	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP16A13	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.94 ft	Max Depth: 9981.39 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 558.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP16A17

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 16.01 ft	Invert: 15.51 ft
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From Node:	NP16A17	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	NP16A15	Geometry:	Circular	Geometry:	Circular
Link Count:	1	Max Depth:	5.50 ft	Max Depth:	5.50 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000	Default:	0.67 ft	Default:	0.67 ft
Length:	64.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0120	Manning's N:	0.0120
Exit Loss Coef:	0.95	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0120	Manning's N:	0.0120

Comment:

Channel Link:	RP16B01	Upstream	Downstream		
Scenario:	2016 FWCD Update	Invert:	16.63 ft	Invert:	16.14 ft
From Node:	NP16B01	Manning's N:	0.0700	Manning's N:	0.0700
To Node:	NP16A17	Geometry:	Trapezoidal	Geometry:	Trapezoidal
Link Count:	1	Max Depth:	9982.37 ft	Max Depth:	9982.86 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000	Bottom Width:	6.00 ft	Bottom Width:	6.00 ft
Length:	327.00 ft	Left Slope:	1.500 (h:v)	Left Slope:	1.500 (h:v)
Contraction Coef:	0.00	Right Slope:	1.500 (h:v)	Right Slope:	1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0700	Manning's N:	0.0700
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	

Ref Node: Ref Node:  
 Manning's N: 0.0700 Manning's N: 0.0700

Comment:

Pipe Link: RP16B03

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.68 ft	Invert: 16.56 ft
From Node: NP16B03	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NP16B01	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 70.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Channel Link: RP16B05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.48 ft	Invert: 16.92 ft
From Node: NP16B05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP16B03	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.52 ft	Max Depth: 9982.08 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 326.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)

Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP16B07	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.70 ft	Invert: 16.48 ft
From Node: NP16B07	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP16B05	Geometry: Circular	
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP16B09	Upstream	Downstream
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Scenario: 2016 FWCD Update	Invert: 16.40 ft	Invert: 16.70 ft
From Node: NP16B09	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP16B07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.60 ft	Max Depth: 9982.30 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 341.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP16B11	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.54 ft	Invert: 16.40 ft
From Node: NP16B11	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP16B09	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft

Bend Location: 0.00 dec  
 Energy Switch: Energy

Op Table:  
 Ref Node:  
 Manning's N: 0.0240

Op Table:  
 Ref Node:  
 Manning's N: 0.0240

Comment:

Channel Link: RP16B13

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP16B13	
To Node:	NP16B11	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	340.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 16.57 ft	Invert: 16.54 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9982.43 ft	Max Depth: 9982.46 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP16B15

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP16B15	
To Node:	NP16B13	
	Invert: 16.54 ft	Invert: 16.57 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular

Link Count:	1	Max Depth:	5.00 ft	Max Depth:	5.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000	Default:	0.67 ft	Default:	0.67 ft
Length:	40.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0240	Manning's N:	0.0240
Exit Loss Coef:	0.95	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0240	Manning's N:	0.0240

Comment:

Channel Link: RP16B17

	Upstream	Downstream	
Scenario:	2016 FWCD Update	Invert: 16.68 ft	
From Node:	NP16B17	Invert: 16.54 ft	
To Node:	NP16B15	Manning's N: 0.0700	
Link Count:	1	Manning's N: 0.0700	
Flow Direction:	Both	Geometry: Trapezoidal	
Damping:	0.0000	Max Depth: 9982.32 ft	
Length:	340.00 ft	Max Depth: 9982.46 ft	
Contraction Coef:	0.00	Extrapolation: Normal	
Expansion Coef:	0.00	Bottom Width: 6.00 ft	
Entr Loss Coef:	0.00	Left Slope: 1.500 (h:v)	
Exit Loss Coef:	0.00	Right Slope: 1.500 (h:v)	
Bend Loss Coef:	0.00	Bottom Clip	
Bend Location:	0.00 dec	Default:	0.00 ft
Energy Switch:	Energy	Op Table:	
		Ref Node:	
		Manning's N:	0.0700
		Top Clip	
		Default:	0.00 ft
		Op Table:	
		Ref Node:	
		Manning's N:	0.0700



Comment:

Pipe Link: RP16B19

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP16B19	NP16B17
To Node:	NP16B17	NP16B19
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	30.00 ft	30.00 ft
FHWA Code:	1	1
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 17.14 ft	Invert: 16.68 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 4.50 ft	Max Depth: 4.50 ft
	Bottom Clip	Bottom Clip
	Default: 0.67 ft	Default: 0.67 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	Top Clip
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP16B21

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP16B21	NP16B19
To Node:	NP16B19	NP16B21
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	357.00 ft	357.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
Entr Loss Coef:	0.00	0.00
	Invert: 16.81 ft	Invert: 17.14 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9982.19 ft	Max Depth: 9981.86 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	Bottom Clip
	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP16B23

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.94 ft	Invert: 16.81 ft
From Node: NP16B23	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP16B21	Geometry: Circular	
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP16B25

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.28 ft	Invert: 16.94 ft
From Node: NP16B25	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NP16B23	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.72 ft	Max Depth: 9982.06 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 308.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP16B27	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.07 ft	Invert: 16.90 ft
From Node: NP16B27	Manning's N: 0.0120	Manning's N: 0.0240
To Node: NP16B25	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 48.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:

Manning's N: 0.0120

Manning's N: 0.0240

Comment:

Channel Link: RP16C01

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP16C01	NP16C02
To Node:	NP16B27	NP16C03
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	311.00 ft	311.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
Entr Loss Coef:	0.00	0.00
Exit Loss Coef:	0.00	0.00
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 17.31 ft	Invert: 17.45 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9981.69 ft	Max Depth: 9981.55 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP16C03

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP16C03	NP16C04
To Node:	NP16C01	NP16C02
Link Count:	1	1
Flow Direction:	Both	Both
	Invert: 17.21 ft	Invert: 17.31 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 4.00 ft	Max Depth: 4.00 ft
	Bottom Clip	

Damping:	0.0000 ft	Default:	0.67 ft	Default:	0.67 ft
Length:	30.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0240	Manning's N:	0.0240
Exit Loss Coef:	0.95	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0240	Manning's N:	0.0240

Comment:

Channel Link: RP16C05

	Upstream	Downstream	
Scenario:	2016 FWCD Update	Invert: 16.67 ft	
From Node:	NP16C05	Manning's N: 0.0700	
To Node:	NP16C03	Geometry: Trapezoidal	
Link Count:	1	Max Depth: 9982.33 ft	
Flow Direction:	Both	Extrapolation: Normal	
Damping:	0.0000 ft	Bottom Width: 6.00 ft	
Length:	296.00 ft	Left Slope: 1.500 (h:v)	
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:	
Bend Loss Coef:	0.00	Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0700
Energy Switch:	Energy	Top Clip	
		Default:	0.00 ft
		Op Table:	
		Ref Node:	
		Manning's N:	0.0700

Comment:

Pipe Link: RP16C07		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.25 ft	Invert: 17.30 ft
From Node:	NP16C07	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	NP16C05	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	64.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0120	Manning's N: 0.0120
Comment:			

Channel Link: RP16C09		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.33 ft	Invert: 17.07 ft
From Node:	NP16C09	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP16C07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9981.67 ft	Max Depth: 9981.93 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	299.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP16C11

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.42 ft	Invert: 17.33 ft
From Node: NP16C11	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP16C09	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP16C13

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.07 ft	Invert: 17.42 ft
From Node: NP16C13	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP16C11	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.93 ft	Max Depth: 9981.58 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft

Length: 287.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP16C15

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.36 ft	Invert: 18.07 ft
From Node: NP16C15	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP16C13	Geometry: Circular	
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 37.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:



Channel Link: RP16C17		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.25 ft	Invert: 18.36 ft
From Node:	NP16C17	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP16C15	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9981.75 ft	Max Depth: 9980.64 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	285.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Pipe Link: RP16C19		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.61 ft	Invert: 17.44 ft
From Node:	NP16C19	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	NP16C17	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	64.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Channel Link: RP16C21

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.97 ft	Invert: 17.26 ft
From Node: NP16C21	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP16C19	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.03 ft	Max Depth: 9981.74 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 291.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP16C23

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.00 ft	Invert: 18.05 ft
From Node: NP16C23	Manning's N: 0.0120	Manning's N: 0.0120

To Node:	NP16C21	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000	Default: 0.67 ft	Default: 0.67 ft
Length:	64.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Channel Link: RP16C25

		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.34 ft	Invert: 17.69 ft
From Node:	NP16C25	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP16C23	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9980.66 ft	Max Depth: 9981.31 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	286.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Pipe Link: RP16C27

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP16C27	NP16C25
To Node:	NP16C25	NP16C27
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	64.00 ft	64.00 ft
FHWA Code:	1	1
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 18.15 ft	Invert: 17.98 ft
	Manning's N: 0.0120	Manning's N: 0.0120
	Geometry: Circular	Geometry: Circular
	Max Depth: 2.50 ft	Max Depth: 2.50 ft
	Bottom Clip	Bottom Clip
	Default: 0.67 ft	Default: 0.67 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120
	Top Clip	Top Clip
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Channel Link: RP16C29

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP16C29	NP16C27
To Node:	NP16C27	NP16C29
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	303.00 ft	303.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
	Invert: 19.26 ft	Invert: 18.32 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9979.74 ft	Max Depth: 9980.68 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	Bottom Clip

Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP16C31

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.33 ft	Invert: 19.26 ft
From Node: NP16C31	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP16C29	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft

Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240

Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP16D01SB

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.58 ft	Invert: 18.24 ft

From Node: NP16D01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP16SBPA	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.42 ft	Max Depth: 9980.76 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 1255.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.10	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP16D05	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.06 ft	Invert: 19.86 ft
From Node: NP16D05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP16D01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9979.94 ft	Max Depth: 9979.14 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 664.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:

Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP16D05W Scenario: 2016 FWCD Update From Node: NP16D01 To Node: NP16C31 Link Count: 1 Flow Direction: Both Damping: 0.0000 ft Length: 700.00 ft Contraction Coef: 0.00 Expansion Coef: 0.00 Entr Loss Coef: 0.00 Exit Loss Coef: 0.00 Bend Loss Coef: 0.00 Bend Location: 0.00 dec Energy Switch: Energy	Upstream Invert: 19.86 ft Manning's N: 0.0700 Geometry: Trapezoidal Max Depth: 9979.14 ft Extrapolation: Normal Bottom Width: 6.00 ft Left Slope: 1.500 (h:v) Right Slope: 1.500 (h:v)	Downstream Invert: 19.33 ft Manning's N: 0.0700 Geometry: Trapezoidal Max Depth: 9979.67 ft Extrapolation: Normal Bottom Width: 6.00 ft Left Slope: 1.500 (h:v) Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP16D07	Upstream	Downstream
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Scenario:	2016 FWCD Update	Invert:	19.06 ft	Invert:	18.88 ft
From Node:	NP16D07	Manning's N:	0.0240	Manning's N:	0.0240
To Node:	NP16D05	Geometry:	Circular	Geometry:	Circular
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.67 ft	Default:	0.67 ft
Length:	25.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0240	Manning's N:	0.0240
Exit Loss Coef:	0.95	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0240	Manning's N:	0.0240

Comment:

Channel Link:	RP16D09	Upstream	Downstream		
Scenario:	2016 FWCD Update	Invert:	18.95 ft	Invert:	18.88 ft
From Node:	NP16D09	Manning's N:	0.0700	Manning's N:	0.0700
To Node:	NP16D07	Geometry:	Trapezoidal	Geometry:	Trapezoidal
Link Count:	1	Max Depth:	9980.05 ft	Max Depth:	9980.12 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	6.00 ft	Bottom Width:	6.00 ft
Length:	371.00 ft	Left Slope:	1.500 (h:v)	Left Slope:	1.500 (h:v)
Contraction Coef:	0.00	Right Slope:	1.500 (h:v)	Right Slope:	1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0700	Manning's N:	0.0700
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft



Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP16D11

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.82 ft	Invert: 18.95 ft
From Node: NP16D11	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP16D09	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.50 ft	Default: 0.50 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP16D13

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.99 ft	Invert: 18.82 ft
From Node: NP16D13	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP16D11	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.01 ft	Max Depth: 9980.18 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 248.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)

Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP16D15	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.52 ft	Invert: 17.99 ft
From Node: NP16D15	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP16D13	Geometry: Circular	
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP16D17		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 15.27 ft	Invert: 16.52 ft
From Node:	NP16D17	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP16D15	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9983.73 ft	Max Depth: 9982.48 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	31.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Pipe Link: RP16D19		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 15.50 ft	Invert: 15.27 ft
From Node:	NP16D19	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	NP16D17	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	24.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Channel Link: RP16D21

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.32 ft	Invert: 15.50 ft
From Node: NP16D21	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP16D19	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.68 ft	Max Depth: 9983.50 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 494.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP16D23

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.40 ft	Invert: 18.32 ft
From Node: NP16D23	Manning's N: 0.0240	Manning's N: 0.0240

To Node: NP16D21	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000	Default: 0.67 ft	Default: 0.67 ft
Length: 21.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP16D25

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.88 ft	Invert: 18.40 ft
From Node: NP16D25	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP16D23	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.12 ft	Max Depth: 9980.60 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 266.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Pipe Link: RP16D27

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP16D27	NP16D25
To Node:	NP16D25	NP16D27
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	40.00 ft	40.00 ft
FHWA Code:	1	1
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 19.11 ft	Invert: 18.88 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 2.00 ft	Max Depth: 2.00 ft
	Bottom Clip	Bottom Clip
	Default: 0.33 ft	Default: 0.33 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	Top Clip
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP16E01

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP16E01	NP16D27
To Node:	NP16D27	NP16E01
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	542.00 ft	542.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
	Invert: 19.43 ft	Invert: 19.11 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9979.57 ft	Max Depth: 9979.89 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	Bottom Clip

Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP16E03

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.05 ft	Invert: 19.43 ft
From Node: NP16E03	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP16E01	Geometry: Circular	
Link Count: 1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.33 ft	Default: 0.33 ft
Length: 31.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP16E05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.95 ft	Invert: 19.05 ft

From Node: NP16E05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP16E01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.05 ft	Max Depth: 9979.95 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 694.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP16E09	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.83 ft	Invert: 18.95 ft
From Node: NP16E09	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP16E05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.17 ft	Max Depth: 9980.05 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 714.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:



Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP16E11	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.16 ft	Invert: 18.83 ft
From Node: NP16E11	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP16E09	Geometry: Circular	
Link Count: 1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.33 ft	Default: 0.33 ft
Length: 29.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP16E13	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.18 ft	Invert: 19.16 ft
From Node: NP16E13	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP16E11	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9979.82 ft	Max Depth: 9979.84 ft

Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 806.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP16SBPA	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.24 ft	Invert: 18.53 ft
From Node: NP16SBPA	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP17SBP	Geometry: Circular	
Link Count: 1	Max Depth: 4.50 ft	Max Depth: 4.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 49.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP17A01		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 13.58 ft	Invert: 12.58 ft
From Node:	NP17A01	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP-170	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9985.42 ft	Max Depth: 9986.42 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	300.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	1.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Channel Link: RP17A05		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 15.44 ft	Invert: 13.58 ft
From Node:	NP17A05	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP17A01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9983.56 ft	Max Depth: 9985.42 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	580.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP17A09

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.55 ft	Invert: 15.44 ft
From Node: NP17A09	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP17A05	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9982.45 ft	Max Depth: 9983.56 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 1052.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)

Bottom Clip

Expansion Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.00	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700
Bend Location: 0.00 dec	Top Clip	
Energy Switch: Energy	Default: 0.00 ft	Default: 0.00 ft

Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP17A11		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.29 ft	Invert: 15.85 ft
From Node:	NP17A11	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	NP17A09	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 5.50 ft	Max Depth: 5.50 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	64.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0120	Manning's N: 0.0120
Comment:			

Channel Link: RP17A13		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.58 ft	Invert: 16.67 ft
From Node:	NP17A13	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP17A11	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9982.42 ft	Max Depth: 9982.33 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	304.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP17A15

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.81 ft	Invert: 16.46 ft
From Node: NP17A15	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NP17A13	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 72.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Channel Link: RP17B01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.13 ft	Invert: 16.97 ft
From Node: NP17B01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP17A15	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.87 ft	Max Depth: 9982.03 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft

Length: 338.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP17B03	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.28 ft	Invert: 17.13 ft
From Node: NP17B03	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP17B01	Geometry: Circular	
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP17B05		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.14 ft	Invert: 17.28 ft
From Node:	NP17B05	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP17B03	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9980.86 ft	Max Depth: 9981.72 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	347.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Pipe Link: RP17B07		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.15 ft	Invert: 18.14 ft
From Node:	NP17B07	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP17B05	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	30.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	



Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP17B09

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.95 ft	Invert: 18.15 ft
From Node: NP17B09	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP17B07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.05 ft	Max Depth: 9980.85 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 347.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP17B11

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.94 ft	Invert: 16.95 ft
From Node: NP17B11	Manning's N: 0.0240	Manning's N: 0.0240

To Node: NP17B09	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.50 ft	Max Depth: 5.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP17B13	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.02 ft	Invert: 16.94 ft
From Node: NP17B13	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP17B11	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.98 ft	Max Depth: 9982.06 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 342.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Pipe Link: RP17B15

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP17B15	NP17B13
To Node:	NP17B13	NP17B15
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	30.00 ft	30.00 ft
FHWA Code:	1	1
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 17.40 ft	Invert: 17.02 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 4.50 ft	Max Depth: 4.50 ft
	Bottom Clip	Bottom Clip
	Default: 0.67 ft	Default: 0.67 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	Top Clip
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP17B17

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP17B17	NP17B15
To Node:	NP17B15	NP17B17
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	397.00 ft	397.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
	Invert: 18.01 ft	Invert: 17.40 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9980.99 ft	Max Depth: 9981.60 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	Bottom Clip

Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP17B19

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.26 ft	Invert: 18.01 ft
From Node: NP17B19	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP17B17	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.50 ft	Max Depth: 4.50 ft

Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 20.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240

Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP17B21

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.77 ft	Invert: 18.26 ft

From Node: NP17B21	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP17B19	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.23 ft	Max Depth: 9980.74 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 92.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP17B23	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.67 ft	Invert: 18.27 ft
From Node: NP17B23	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NP17B21	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 48.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:

Energy Switch: Energy

Ref Node:  
Manning's N: 0.0120

Ref Node:  
Manning's N: 0.0120

Comment:

Channel Link: RP17B25

Scenario: 2016 FWCD Update  
From Node: NP17B25  
To Node: NP17B23  
Link Count: 1  
Flow Direction: Both  
Damping: 0.0000 ft  
Length: 313.00 ft  
Contraction Coef: 0.00  
Expansion Coef: 0.00  
Entr Loss Coef: 0.00  
Exit Loss Coef: 0.00  
Bend Loss Coef: 0.00  
Bend Location: 0.00 dec  
Energy Switch: Energy

Upstream

Invert: 18.15 ft  
Manning's N: 0.0700  
Geometry: Trapezoidal  
Max Depth: 9980.85 ft  
Extrapolation: Normal  
Bottom Width: 6.00 ft  
Left Slope: 1.500 (h:v)  
Right Slope: 1.500 (h:v)

Downstream

Invert: 17.77 ft  
Manning's N: 0.0700  
Geometry: Trapezoidal  
Max Depth: 9981.23 ft  
Extrapolation: Normal  
Bottom Width: 6.00 ft  
Left Slope: 1.500 (h:v)  
Right Slope: 1.500 (h:v)

Bottom Clip

Default: 0.00 ft  
Op Table:  
Ref Node:  
Manning's N: 0.0700

Default: 0.00 ft  
Op Table:  
Ref Node:  
Manning's N: 0.0700

Top Clip

Default: 0.00 ft  
Op Table:  
Ref Node:  
Manning's N: 0.0700

Default: 0.00 ft  
Op Table:  
Ref Node:  
Manning's N: 0.0700

Comment:

Pipe Link: RP17B27

Scenario: 2016 FWCD Update  
From Node: NP17B27  
To Node: NP17B25  
Link Count: 1

Upstream

Invert: 18.27 ft  
Manning's N: 0.0240  
Geometry: Circular  
Max Depth: 4.00 ft

Downstream

Invert: 18.15 ft  
Manning's N: 0.0240  
Geometry: Circular  
Max Depth: 4.00 ft

Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	31.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link:	RP17B29	Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.24 ft	Invert: 18.27 ft
From Node:	NP17B29	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP17B27	Geometry: Trapezoidal	
Link Count:	1	Max Depth: 9980.76 ft	Max Depth: 9980.73 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	299.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP17B31	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.75 ft	Invert: 17.46 ft
From Node: NP17B31	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NP17B29	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 64.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120
Comment:		

Channel Link: RP17C01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.78 ft	Invert: 18.15 ft
From Node: NP17C01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP17B31	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9979.22 ft	Max Depth: 9980.85 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 284.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	



Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP17C03

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.44 ft	Invert: 19.78 ft
From Node: NP17C03	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP17C01	Geometry: Horizontal Ellipse	Geometry: Horizontal Ellipse
Link Count: 1	Max Depth: 2.33 ft	Max Depth: 2.33 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 29.00 ft	Op Table:	Op Table:
FHWA Code: 30	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP17C05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.45 ft	Invert: 19.44 ft
From Node: NP17C05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP17C03	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.55 ft	Max Depth: 9979.56 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft

Length: 298.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP17C07	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.90 ft	Invert: 18.45 ft
From Node: NP17C07	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP17C05	Geometry: Circular	
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 39.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP17C09		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 19.09 ft	Invert: 18.90 ft
From Node:	NP17C09	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP17C07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9979.91 ft	Max Depth: 9980.10 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	289.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Pipe Link: RP17C11		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.00 ft	Invert: 17.81 ft
From Node:	NP17C11	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	NP17C09	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	64.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Channel Link: RP17C12

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.01 ft	Invert: 19.14 ft
From Node: NP17C11A	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP17C11	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.99 ft	Max Depth: 9979.86 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 276.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP17C13

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.01 ft	Invert: 18.01 ft
From Node: NP17C12	Manning's N: 0.0120	Manning's N: 0.0120

To Node: NP17C11A	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000	Default: 0.67 ft	Default: 0.67 ft
Length: 64.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Channel Link: RP17C13A	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.63 ft	Invert: 18.01 ft
From Node: NP17C13	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP17C12	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.37 ft	Max Depth: 9980.99 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 276.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Pipe Link: RP17C15

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP17C15	NP17C13
To Node:	NP17C13	NP17C15
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	64.00 ft	64.00 ft
FHWA Code:	1	1
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 18.15 ft	Invert: 18.01 ft
	Manning's N: 0.0120	Manning's N: 0.0120
	Geometry: Circular	Geometry: Circular
	Max Depth: 2.50 ft	Max Depth: 2.50 ft
	Bottom Clip	Bottom Clip
	Default: 0.67 ft	Default: 0.67 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120
	Top Clip	Top Clip
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Channel Link: RP17C17

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP17C17	NP17C15
To Node:	NP17C15	NP17C17
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	284.00 ft	284.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
	Invert: 19.50 ft	Invert: 18.68 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9979.50 ft	Max Depth: 9980.32 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	Bottom Clip

Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP17C19

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.68 ft	Invert: 19.50 ft
From Node: NP17C19	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP17C17	Geometry: Circular	
Link Count: 1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.33 ft	Default: 0.33 ft
Length: 32.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP17C19E

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.68 ft	Invert: 19.78 ft

From Node: NP17C19	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP17C21	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9979.32 ft	Max Depth: 9979.22 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 258.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP17C21	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.78 ft	Invert: 18.38 ft
From Node: NP17C21	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP17SBP	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9979.22 ft	Max Depth: 9980.62 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 517.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:



Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP17D01

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 17.82 ft	Invert: 19.68 ft
From Node: NP17D01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP17SBP	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9981.18 ft	Max Depth: 9979.32 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 208.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP17D03

Upstream

Downstream

Scenario:	2016 FWCD Update	Invert:	19.89 ft	Invert:	17.82 ft
From Node:	NP17D03	Manning's N:	0.0240	Manning's N:	0.0240
To Node:	NP17D01	Geometry:	Circular	Geometry:	Circular
Link Count:	1	Max Depth:	4.00 ft	Max Depth:	4.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.67 ft	Default:	0.67 ft
Length:	40.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0240	Manning's N:	0.0240
Exit Loss Coef:	0.95	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0240	Manning's N:	0.0240

Comment:

Channel Link:	RP17D05	Upstream	Downstream		
Scenario:	2016 FWCD Update	Invert:	19.08 ft	Invert:	18.89 ft
From Node:	NP17D05	Manning's N:	0.0700	Manning's N:	0.0700
To Node:	NP17D03	Geometry:	Trapezoidal	Geometry:	Trapezoidal
Link Count:	1	Max Depth:	9979.92 ft	Max Depth:	9980.11 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	6.00 ft	Bottom Width:	6.00 ft
Length:	423.00 ft	Left Slope:	1.500 (h:v)	Left Slope:	1.500 (h:v)
Contraction Coef:	0.00	Right Slope:	1.500 (h:v)	Right Slope:	1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0700	Manning's N:	0.0700
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft

Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP17D07

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.15 ft	Invert: 19.08 ft
From Node: NP17D07	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP17D05	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.50 ft	Default: 0.50 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP17D09

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.97 ft	Invert: 19.15 ft
From Node: NP17D09	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP17D07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.03 ft	Max Depth: 9979.85 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 443.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)

Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP17D11

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.04 ft	Invert: 19.00 ft
From Node: NP17D11	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP17D09	Geometry: Circular	
Link Count: 1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.50 ft	Default: 0.50 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP17D13		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.97 ft	Invert: 19.04 ft
From Node:	NP17D13	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP17D11	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9980.03 ft	Max Depth: 9979.96 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	528.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Pipe Link: RP17D15		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 19.14 ft	Invert: 18.97 ft
From Node:	NP17D15	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP17D13	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.50 ft	Default: 0.50 ft
Length:	29.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP17D17

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.00 ft	Invert: 19.14 ft
From Node: NP17D17	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP17D15	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.00 ft	Max Depth: 9979.86 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 497.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP17D19

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.37 ft	Invert: 18.00 ft
From Node: NP17D19	Manning's N: 0.0240	Manning's N: 0.0240

To Node: NP17D17	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000	Default: 0.50 ft	Default: 0.50 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP17E01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.24 ft	Invert: 18.37 ft
From Node: NP17E01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP17D19	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9979.76 ft	Max Depth: 9980.63 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 446.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Pipe Link: RP17E03

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP17E03	NP17E01
To Node:	NP17E01	NP17E03
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	49.00 ft	49.00 ft
FHWA Code:	1	1
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 18.51 ft	Invert: 19.24 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 2.50 ft	Max Depth: 2.50 ft
	Bottom Clip	
	Default: 0.50 ft	Default: 0.50 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP17E07

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP17E07	NP17E03
To Node:	NP17E03	NP17E07
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	852.00 ft	852.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
	Invert: 19.10 ft	Invert: 18.51 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9979.90 ft	Max Depth: 9980.49 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	



Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP17E09

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 19.00 ft	Invert: 19.10 ft
From Node: NP17E09	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP17E07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.00 ft	Max Depth: 9979.90 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 462.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)

Bottom Clip

Expansion Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.00	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700
Bend Location: 0.00 dec	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP17E11		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 20.16 ft	Invert: 19.00 ft
From Node:	NP17E11	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP17E09	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.50 ft	Default: 0.50 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240
Comment:			

Channel Link: RP17E13		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 20.58 ft	Invert: 20.16 ft
From Node:	NP17E13	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP17E11	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9978.42 ft	Max Depth: 9978.84 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	653.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP17SBP

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.53 ft	Invert: 16.49 ft
From Node: NP17SBP	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP17SBPA	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.47 ft	Max Depth: 9982.51 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 1275.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.10	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP17SBPA

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.49 ft	Invert: 16.70 ft
From Node: NP17SBPA	Manning's N: 0.0240	Manning's N: 0.0240

To Node: NP18C15	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.50 ft	Max Depth: 5.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000	Default: 0.67 ft	Default: 0.67 ft
Length: 50.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP18A01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.58 ft	Invert: 12.58 ft
From Node: NP18A01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP-180	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9984.42 ft	Max Depth: 9986.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 300.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 1.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Channel Link: RP18A05

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP18A05	NP18A01
To Node:	NP18A01	NP18A05
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	580.00 ft	580.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
Entr Loss Coef:	0.00	0.00
Exit Loss Coef:	0.00	0.00
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 13.97 ft	Invert: 14.58 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9985.03 ft	Max Depth: 9984.42 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP18A10

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP18A10	NP18A05
To Node:	NP18A05	NP18A10
Link Count:	1	1
Flow Direction:	Both	Both
	Invert: 15.13 ft	Invert: 13.97 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9983.87 ft	Max Depth: 9985.03 ft
	Extrapolation: Normal	Extrapolation: Normal

Damping:	0.0000 ft	Bottom Width:	8.00 ft	Bottom Width:	8.00 ft
Length:	880.00 ft	Left Slope:	1.500 (h:v)	Left Slope:	1.500 (h:v)
Contraction Coef:	0.00	Right Slope:	1.500 (h:v)	Right Slope:	1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0700	Manning's N:	0.0700
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0700	Manning's N:	0.0700

Comment:

Channel Link: RP18B01

	Upstream	Downstream	
Scenario:	2016 FWCD Update	Invert: 15.81 ft	
From Node:	NP18B01	Invert: 15.13 ft	
To Node:	NP18A10	Manning's N: 0.0700	
Link Count:	1	Manning's N: 0.0700	
Flow Direction:	Both	Geometry: Trapezoidal	
Damping:	0.0000 ft	Max Depth: 9983.19 ft	
Length:	880.00 ft	Extrapolation: Normal	
Contraction Coef:	0.00	Bottom Width: 6.00 ft	
Expansion Coef:	0.00	Left Slope: 1.500 (h:v)	
Entr Loss Coef:	0.00	Right Slope: 1.500 (h:v)	
Exit Loss Coef:	0.00	Bottom Clip	
Bend Loss Coef:	0.00	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:	
Energy Switch:	Energy	Ref Node:	
		Manning's N:	0.0700
		Top Clip	
		Default:	0.00 ft
		Op Table:	

Ref Node: Ref Node:  
 Manning's N: 0.0700 Manning's N: 0.0700

Comment:

Channel Link: RP18B05

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP18B05	NP18B01
To Node:	NP18B01	NP18B05
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	880.00 ft	880.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
Entr Loss Coef:	0.00	0.00
Exit Loss Coef:	0.00	0.00
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 15.89 ft	Invert: 15.81 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9983.11 ft	Max Depth: 9983.19 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP18B07

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP18B07	NP18B05
To Node:	NP18B05	NP18B07
Link Count:	1	1
	Invert: 18.19 ft	Invert: 15.89 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9980.81 ft	Max Depth: 9983.11 ft

Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 603.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP18B09	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.77 ft	Invert: 18.19 ft
From Node: NP18B09	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP18B07	Geometry: Circular	
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 31.00 ft	Op Table:	Op Table:
FHWA Code: 6	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:



Channel Link: RP18B11		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.12 ft	Invert: 17.77 ft
From Node:	NP18B11	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP18B09	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9981.88 ft	Max Depth: 9981.23 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	247.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Channel Link: RP18C01		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.21 ft	Invert: 17.12 ft
From Node:	NP18C01	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP18B11	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9982.79 ft	Max Depth: 9981.88 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP18C03

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 16.70 ft	Invert: 16.21 ft
From Node: NP18C03	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP18C01	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9982.30 ft	Max Depth: 9982.79 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 885.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP18C05	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.93 ft	Invert: 16.70 ft
From Node: NP18C05	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP18C03	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
Comment:		

Channel Link: RP18C07	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.35 ft	Invert: 16.93 ft
From Node: NP18C07	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP18C05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.65 ft	Max Depth: 9982.07 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 316.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP18C09

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.72 ft	Invert: 17.35 ft
From Node: NP18C09	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP18C07	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP18C11

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.25 ft	Invert: 17.72 ft
From Node: NP18C11	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP18C09	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.75 ft	Max Depth: 9981.28 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft

Length: 298.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP18C13	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.87 ft	Invert: 17.25 ft
From Node: NP18C13	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NP18C11	Geometry: Circular	
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 65.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Channel Link: RP18C15		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.78 ft	Invert: 16.87 ft
From Node:	NP18C15	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP18C13	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9982.22 ft	Max Depth: 9982.13 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	620.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP18D01		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.72 ft	Invert: 16.78 ft
From Node:	NP18D01	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP18C15	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9982.28 ft	Max Depth: 9982.22 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	397.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP18D05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.22 ft	Invert: 16.72 ft
From Node: NP18D05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP18D01	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9981.78 ft	Max Depth: 9982.28 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP18D10		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.72 ft	Invert: 17.22 ft
From Node:	NP18D10	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP18D05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9981.28 ft	Max Depth: 9981.78 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Channel Link: RP18D13		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.07 ft	Invert: 17.72 ft
From Node:	NP18D13	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP18D10	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9980.93 ft	Max Depth: 9981.28 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	458.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft



Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP18D15

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.56 ft	Invert: 18.07 ft
From Node: NP18D15	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP18D13	Geometry: Circular	
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP18D17

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.03 ft	Invert: 18.56 ft
From Node: NP18D17	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NP18D15	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.97 ft	Max Depth: 9980.44 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 85.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP18D19	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.11 ft	Invert: 18.03 ft
From Node: NP18D19	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP18D17	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 39.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:

Manning's N: 0.0240

Manning's N: 0.0240

Comment:

Channel Link: RP18E01

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP18E01	NP18D19
To Node:	NP18D19	NP18E01
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	448.00 ft	448.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
Entr Loss Coef:	0.00	0.00
Exit Loss Coef:	0.00	0.00
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 18.04 ft	Invert: 18.11 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9980.96 ft	Max Depth: 9980.89 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP18E03

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP18E03	NP18E01
To Node:	NP18E01	NP18E03
Link Count:	1	1
Flow Direction:	Both	Both
	Invert: 18.53 ft	Invert: 18.04 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 3.00 ft	Max Depth: 3.00 ft
	Bottom Clip	

Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 39.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP18E05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.73 ft	Invert: 18.53 ft
From Node: NP18E05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP18E03	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9980.27 ft	Max Depth: 9980.47 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 651.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP18E09		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 20.62 ft	Invert: 18.73 ft
From Node:	NP18E09	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP18E05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9978.38 ft	Max Depth: 9980.27 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	750.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Pipe Link: RP18E11		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 21.37 ft	Invert: 20.62 ft
From Node:	NP18E11	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP18E09	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.33 ft	Default: 0.33 ft
Length:	30.00 ft	Op Table:	Op Table:
FHWA Code:	6	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP19A01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 13.58 ft	Invert: 12.58 ft
From Node: NP19A01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP-190	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9985.42 ft	Max Depth: 9986.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 300.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 1.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP19A03

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.29 ft	Invert: 13.58 ft
From Node: NP19A03	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NP19A01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9984.71 ft	Max Depth: 9985.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 78.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP19A05	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.34 ft	Invert: 14.29 ft
From Node: NP19A05	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP19A03	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.50 ft	Max Depth: 5.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 39.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:

Manning's N: 0.0240

Manning's N: 0.0240

Comment:

Channel Link: RP19A07

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP19A07	
To Node:	NP19A05	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	463.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 15.29 ft	Invert: 14.34 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9983.71 ft	Max Depth: 9984.66 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP19A09

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP19A09	
To Node:	NP19A07	
Link Count:	1	
Flow Direction:	Both	
	Invert: 15.61 ft	Invert: 15.29 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9983.39 ft	Max Depth: 9983.71 ft
	Extrapolation: Normal	Extrapolation: Normal



Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 178.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP19A11	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.26 ft	Invert: 15.61 ft
From Node: NP19A11	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP19A09	Geometry: Circular	
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 39.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP19A13		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 15.69 ft	Invert: 15.26 ft
From Node:	NP19A13	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP19A11	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9983.31 ft	Max Depth: 9983.74 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	640.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Pipe Link: RP19A15		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 15.10 ft	Invert: 15.69 ft
From Node:	NP19A15	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP19A13	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	39.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP19B01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.52 ft	Invert: 15.10 ft
From Node: NP19B01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP19A15	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9983.48 ft	Max Depth: 9983.90 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 659.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP19B03

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.09 ft	Invert: 15.52 ft
From Node: NP19B03	Manning's N: 0.0240	Manning's N: 0.0240

To Node:	NP19B01	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000	Default: 0.67 ft	Default: 0.67 ft
Length:	39.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP19B05

		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 15.33 ft	Invert: 16.09 ft
From Node:	NP19B05	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP19B03	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9983.67 ft	Max Depth: 9982.91 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	623.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Pipe Link: RP19B07

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP19B07	NP19B05
To Node:	NP19B05	NP19B07
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	40.00 ft	40.00 ft
FHWA Code:	1	1
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 15.87 ft	Invert: 15.33 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 4.50 ft	Max Depth: 4.50 ft
	Bottom Clip	Bottom Clip
	Default: 0.67 ft	Default: 0.67 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	Top Clip
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP19B09

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP19B09	NP19B07
To Node:	NP19B07	NP19B09
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	383.00 ft	383.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
	Invert: 15.07 ft	Invert: 15.87 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9983.93 ft	Max Depth: 9983.13 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	Bottom Clip

Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP19B11

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 16.69 ft	Invert: 15.07 ft
From Node: NP19B11	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP19B09	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.31 ft	Max Depth: 9983.93 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 936.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)

Bottom Clip

Expansion Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.00	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700
Bend Location: 0.00 dec		
Energy Switch: Energy		

Top Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP19B13		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.57 ft	Invert: 16.69 ft
From Node:	NP19B13	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP19B11	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240
Comment:			

Channel Link: RP19C01		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.20 ft	Invert: 16.57 ft
From Node:	NP19C01	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP19B13	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9982.80 ft	Max Depth: 9982.43 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	784.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP19C05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.78 ft	Invert: 16.20 ft
From Node: NP19C05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP19C01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9983.22 ft	Max Depth: 9982.80 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP19C07

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.65 ft	Invert: 15.78 ft
From Node: NP19C07	Manning's N: 0.0700	Manning's N: 0.0700



To Node: NP19C05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.35 ft	Max Depth: 9983.22 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 679.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP19C09	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.60 ft	Invert: 17.65 ft
From Node: NP19C09	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NP19C07	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 73.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:

Manning's N: 0.0120

Manning's N: 0.0120

Comment:

Channel Link: RP19C11

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP19C11	
To Node:	NP19C09	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	271.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 17.68 ft	Invert: 17.60 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9981.32 ft	Max Depth: 9981.40 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP19C13

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP19C13	
To Node:	NP19C11	
Link Count:	1	
Flow Direction:	Both	
	Invert: 17.58 ft	Invert: 17.58 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 3.00 ft	Max Depth: 3.00 ft
	Bottom Clip	

Damping:	0.0000 ft	Default:	0.67 ft	Default:	0.67 ft
Length:	50.00 ft	Op Table:		Op Table:	
FHWA Code:	4	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0240	Manning's N:	0.0240
Exit Loss Coef:	0.95	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0240	Manning's N:	0.0240

Comment:

Channel Link: RP19C15

	Upstream	Downstream	
Scenario:	2016 FWCD Update	Invert: 17.78 ft	
From Node:	NP19C15	Manning's N: 0.0700	
To Node:	NP19C13	Geometry: Trapezoidal	
Link Count:	1	Max Depth: 9981.22 ft	
Flow Direction:	Both	Extrapolation: Normal	
Damping:	0.0000 ft	Bottom Width: 6.00 ft	
Length:	622.00 ft	Left Slope: 1.500 (h:v)	
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:	
Bend Loss Coef:	0.00	Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0700
Energy Switch:	Energy	Top Clip	
		Default:	0.00 ft
		Op Table:	
		Ref Node:	
		Manning's N:	0.0700

Comment:

Pipe Link: RP19C17		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.54 ft	Invert: 17.78 ft
From Node:	NP19C17	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP19C15	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	49.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240
Comment:			

Channel Link: RP19D01		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.22 ft	Invert: 17.54 ft
From Node:	NP19D01	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP19C17	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9981.78 ft	Max Depth: 9981.46 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	623.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP19D03

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.98 ft	Invert: 17.22 ft
From Node: NP19D03	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP19D01	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 49.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP19D05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.87 ft	Invert: 17.98 ft
From Node: NP19D05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP19D03	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.13 ft	Max Depth: 9981.02 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft

Length: 343.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP19D07	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.21 ft	Invert: 16.87 ft
From Node: NP19D07	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP19D05	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.50 ft	Max Depth: 3.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 100.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP19D09		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.40 ft	Invert: 17.21 ft
From Node:	NP19D09	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP19D07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9981.60 ft	Max Depth: 9981.79 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	357.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP19D11		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.00 ft	Invert: 17.40 ft
From Node:	NP19D11	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP19D09	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	30.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP19D13

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.97 ft	Invert: 17.00 ft
From Node: NP19D13	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP19D11	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.03 ft	Max Depth: 9982.00 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 125.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP19D15

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.16 ft	Invert: 16.97 ft
From Node: NP19D15	Manning's N: 0.0240	Manning's N: 0.0240



To Node: NP19D13	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000	Default: 0.67 ft	Default: 0.67 ft
Length: 50.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP19E01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.59 ft	Invert: 17.16 ft
From Node: NP19E01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP19D15	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.41 ft	Max Depth: 9981.84 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 983.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Channel Link: RP19E05

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP19E05	NP19E01
To Node:	NP19E01	NP19E05
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	880.00 ft	880.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
Entr Loss Coef:	0.00	0.00
Exit Loss Coef:	0.00	0.00
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 17.98 ft	Invert: 17.59 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9981.02 ft	Max Depth: 9981.41 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP19E07

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP19E07	NP19E05
To Node:	NP19E05	NP19E07
Link Count:	1	1
Flow Direction:	Both	Both
	Invert: 18.38 ft	Invert: 17.98 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9980.62 ft	Max Depth: 9981.02 ft
	Extrapolation: Normal	Extrapolation: Normal

Damping:	0.0000 ft	Bottom Width:	6.00 ft	Bottom Width:	6.00 ft
Length:	920.00 ft	Left Slope:	1.500 (h:v)	Left Slope:	1.500 (h:v)
Contraction Coef:	0.00	Right Slope:	1.500 (h:v)	Right Slope:	1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0700	Manning's N:	0.0700
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0700	Manning's N:	0.0700

Comment:

Channel Link: RP20A01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 13.58 ft	Invert: 12.58 ft
From Node: NP20A01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP-200	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9985.42 ft	Max Depth: 9986.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 300.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 1.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:

Ref Node: Ref Node:  
 Manning's N: 0.0700 Manning's N: 0.0700

Comment:

Channel Link: RP20A03	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 13.63 ft	Invert: 13.58 ft
From Node: NP20A03	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP20A01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9985.37 ft	Max Depth: 9985.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 78.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP20A05	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.08 ft	Invert: 13.63 ft
From Node: NP20A05	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP20A03	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft

Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP20A07	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.14 ft	Invert: 14.08 ft
From Node: NP20A07	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP20A05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9983.86 ft	Max Depth: 9984.92 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 643.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP20A09	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.26 ft	Invert: 15.14 ft
From Node: NP20A09	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP20A07	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
Comment:		

Channel Link: RP20A11	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.98 ft	Invert: 15.26 ft
From Node: NP20A11	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP20A09	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9983.02 ft	Max Depth: 9983.74 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 638.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP20A13

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.23 ft	Invert: 15.98 ft
From Node: NP20A13	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP20A11	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 43.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP20A15

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.93 ft	Invert: 16.23 ft
From Node: NP20A15	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP20A13	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9983.07 ft	Max Depth: 9982.77 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft

Length: 652.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP20A17	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.94 ft	Invert: 15.93 ft
From Node: NP20A17	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP20A15	Geometry: Circular	
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:



Channel Link: RP20B01		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 15.96 ft	Invert: 15.94 ft
From Node:	NP20B01	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP20A17	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9983.04 ft	Max Depth: 9983.06 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	628.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Pipe Link: RP20B03		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.19 ft	Invert: 15.96 ft
From Node:	NP20B03	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP20B01	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 4.50 ft	Max Depth: 4.50 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP20B05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.84 ft	Invert: 16.19 ft
From Node: NP20B05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP20B03	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9984.16 ft	Max Depth: 9982.81 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 379.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP20B07

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.07 ft	Invert: 14.84 ft
From Node: NP20B07	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NP20B05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.93 ft	Max Depth: 9984.16 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 261.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP20B09	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.19 ft	Invert: 16.07 ft
From Node: NP20B09	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP20B07	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.50 ft	Max Depth: 4.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:

Manning's N: 0.0240

Manning's N: 0.0240

Comment:

Channel Link: RP20B11

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP20B11	
To Node:	NP20B09	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	640.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 16.46 ft	Invert: 16.19 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9982.54 ft	Max Depth: 9982.81 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP20B13

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP20B13	
To Node:	NP20B11	
Link Count:	1	
Flow Direction:	Both	
	Invert: 16.40 ft	Invert: 16.46 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 4.00 ft	Max Depth: 4.00 ft
	Bottom Clip	

Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP20B15

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.01 ft	Invert: 16.40 ft
From Node: NP20B15	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP20B13	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9981.99 ft	Max Depth: 9982.60 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 639.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP20B17		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.40 ft	Invert: 17.01 ft
From Node:	NP20B17	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP20B15	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240
Comment:			

Channel Link: RP20C01		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 15.82 ft	Invert: 16.40 ft
From Node:	NP20C01	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP20B17	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9983.18 ft	Max Depth: 9982.60 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	640.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP20C03

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.54 ft	Invert: 15.82 ft
From Node: NP20C03	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP20C01	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP20C05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.57 ft	Invert: 15.54 ft
From Node: NP20C05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP20C03	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.43 ft	Max Depth: 9983.46 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft

Length: 301.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP20C07

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.74 ft	Invert: 16.57 ft
From Node: NP20C07	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP20C05	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9981.26 ft	Max Depth: 9982.43 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 341.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:



Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Pipe Link: RP20C09

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP20C09	NP20C07
To Node:	NP20C07	NP20C09
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	40.00 ft	40.00 ft
FHWA Code:	1	1
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 17.64 ft	Invert: 17.74 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 4.00 ft	Max Depth: 4.00 ft
	Default: 0.67 ft	Default: 0.67 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP20C11

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP20C11	NP20C09
To Node:	NP20C09	NP20C11
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	304.00 ft	304.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
	Invert: 17.91 ft	Invert: 17.64 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9981.09 ft	Max Depth: 9981.36 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)

Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP20C13

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.86 ft	Invert: 17.91 ft
From Node: NP20C13	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NP20C11	Geometry: Circular	
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 75.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Channel Link: RP20C15

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.36 ft	Invert: 17.86 ft

From Node: NP20C15	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP20C13	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.64 ft	Max Depth: 9981.14 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 274.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP20C17

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.26 ft	Invert: 17.36 ft
From Node: NP20C17	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP20C15	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 50.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:

Energy Switch: Energy

Ref Node:  
Manning's N: 0.0240

Ref Node:  
Manning's N: 0.0240

Comment:

Channel Link: RP20C19

Scenario: 2016 FWCD Update  
From Node: NP20C19  
To Node: NP20C17  
Link Count: 1  
Flow Direction: Both  
Damping: 0.0000 ft  
Length: 616.00 ft  
Contraction Coef: 0.00  
Expansion Coef: 0.00  
Entr Loss Coef: 0.00  
Exit Loss Coef: 0.00  
Bend Loss Coef: 0.00  
Bend Location: 0.00 dec  
Energy Switch: Energy

Upstream

Invert: 17.48 ft  
Manning's N: 0.0700  
Geometry: Trapezoidal  
Max Depth: 9981.52 ft  
Extrapolation: Normal  
Bottom Width: 6.00 ft  
Left Slope: 1.500 (h:v)  
Right Slope: 1.500 (h:v)

Downstream

Invert: 17.26 ft  
Manning's N: 0.0700  
Geometry: Trapezoidal  
Max Depth: 9981.74 ft  
Extrapolation: Normal  
Bottom Width: 6.00 ft  
Left Slope: 1.500 (h:v)  
Right Slope: 1.500 (h:v)

Bottom Clip

Default: 0.00 ft  
Op Table:  
Ref Node:  
Manning's N: 0.0700

Default: 0.00 ft  
Op Table:  
Ref Node:  
Manning's N: 0.0700

Top Clip

Default: 0.00 ft  
Op Table:  
Ref Node:  
Manning's N: 0.0700

Default: 0.00 ft  
Op Table:  
Ref Node:  
Manning's N: 0.0700

Comment:

Pipe Link: RP20C21

Scenario: 2016 FWCD Update  
From Node: NP20C21  
To Node: NP20C19  
Link Count: 1

Upstream

Invert: 17.58 ft  
Manning's N: 0.0240  
Geometry: Circular  
Max Depth: 3.00 ft

Downstream

Invert: 17.48 ft  
Manning's N: 0.0240  
Geometry: Circular  
Max Depth: 3.00 ft

Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	4	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link:	RP20D01	Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.83 ft	Invert: 17.58 ft
From Node:	NP20D01	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP20C21	Geometry: Trapezoidal	
Link Count:	1	Max Depth: 9981.17 ft	Max Depth: 9981.42 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	637.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP20D03	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.54 ft	Invert: 17.83 ft
From Node: NP20D03	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP20D01	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 50.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
Comment:		

Channel Link: RP20D05	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.91 ft	Invert: 18.54 ft
From Node: NP20D05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP20D03	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.09 ft	Max Depth: 9980.46 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 211.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP20D07

Scenario: 2016 FWCD Update  
 From Node: NP20D07  
 To Node: NP20D05  
 Link Count: 1  
 Flow Direction: Both  
 Damping: 0.0000 ft  
 Length: 302.00 ft  
 Contraction Coef: 0.00  
 Expansion Coef: 0.00  
 Entr Loss Coef: 0.00  
 Exit Loss Coef: 0.00  
 Bend Loss Coef: 0.00  
 Bend Location: 0.00 dec  
 Energy Switch: Energy

Upstream

Invert: 17.00 ft  
 Manning's N: 0.0700  
 Geometry: Trapezoidal  
 Max Depth: 9982.00 ft  
 Extrapolation: Normal  
 Bottom Width: 6.00 ft  
 Left Slope: 1.500 (h:v)  
 Right Slope: 1.500 (h:v)

Downstream

Invert: 17.91 ft  
 Manning's N: 0.0700  
 Geometry: Trapezoidal  
 Max Depth: 9981.09 ft  
 Extrapolation: Normal  
 Bottom Width: 6.00 ft  
 Left Slope: 1.500 (h:v)  
 Right Slope: 1.500 (h:v)

Bottom Clip

Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0700

Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0700

Top Clip

Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0700

Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0700

Comment:

Pipe Link: RP20D09

Scenario: 2016 FWCD Update  
 From Node: NP20D09

Upstream

Invert: 16.77 ft  
 Manning's N: 0.0240

Downstream

Invert: 17.00 ft  
 Manning's N: 0.0240

To Node:	NP20D07	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000	Default: 0.67 ft	Default: 0.67 ft
Length:	30.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP20D11

		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.09 ft	Invert: 16.77 ft
From Node:	NP20D11	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP20D09	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9981.91 ft	Max Depth: 9982.23 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	548.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:



Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Channel Link: RP20E01

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP20E01	NP20D11
To Node:	NP20D11	NP20E01
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	880.00 ft	880.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
Entr Loss Coef:	0.00	0.00
Exit Loss Coef:	0.00	0.00
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 18.67 ft	Invert: 17.09 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9980.33 ft	Max Depth: 9981.91 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP20E03

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP20E03	NP20E01
To Node:	NP20E01	NP20E03
Link Count:	1	1
Flow Direction:	Both	Both
	Invert: 19.58 ft	Invert: 18.67 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9979.42 ft	Max Depth: 9980.33 ft
	Extrapolation: Normal	Extrapolation: Normal

Damping:	0.0000 ft	Bottom Width:	6.00 ft	Bottom Width:	6.00 ft
Length:	504.00 ft	Left Slope:	1.500 (h:v)	Left Slope:	1.500 (h:v)
Contraction Coef:	0.00	Right Slope:	1.500 (h:v)	Right Slope:	1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0700	Manning's N:	0.0700
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0700	Manning's N:	0.0700

Comment:

Pipe Link: RP20E05	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.11 ft	Invert: 19.58 ft
From Node: NP20E05	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP20E03	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP20E07		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 20.18 ft	Invert: 20.11 ft
From Node:	NP20E07	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP20E05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9978.82 ft	Max Depth: 9978.89 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	1051.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Channel Link: RP21A01		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 13.58 ft	Invert: 12.58 ft
From Node:	NP21A01	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP-210	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9985.42 ft	Max Depth: 9986.42 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	300.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 1.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP21A03

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.28 ft	Invert: 13.58 ft
From Node: NP21A03	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP21A01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9983.72 ft	Max Depth: 9985.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 420.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)

Bottom Clip

Expansion Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.00	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700
Bend Location: 0.00 dec	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP21A05	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.78 ft	Invert: 15.28 ft
From Node: NP21A05	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP21A03	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.50 ft	Max Depth: 5.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
Comment:		

Channel Link: RP21A07	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.84 ft	Invert: 14.78 ft
From Node: NP21A07	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP21A05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9983.16 ft	Max Depth: 9984.22 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 678.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP21A09

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.27 ft	Invert: 15.84 ft
From Node: NP21A09	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP21A07	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP21A11

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.45 ft	Invert: 16.27 ft
From Node: NP21A11	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP21A09	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.55 ft	Max Depth: 9982.73 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft

Length: 282.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP21A13

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.67 ft	Invert: 16.45 ft
From Node: NP21A13	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP21A11	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9982.33 ft	Max Depth: 9982.55 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 333.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Pipe Link: RP21A15

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP21A15	NP21A13
To Node:	NP21A13	NP21A15
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	40.00 ft	40.00 ft
FHWA Code:	1	1
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 16.67 ft	Invert: 16.67 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 5.00 ft	Max Depth: 5.00 ft
	Bottom Clip	Bottom Clip
	Default: 0.67 ft	Default: 0.67 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	Top Clip
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP21B01

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP21B01	NP21A15
To Node:	NP21A15	NP21B01
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	586.00 ft	586.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
	Invert: 16.67 ft	Invert: 16.67 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9982.33 ft	Max Depth: 9982.33 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	Bottom Clip



Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP21B03

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.38 ft	Invert: 16.67 ft
From Node: NP21B03	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP21B01	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft

Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240

Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP21B05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.89 ft	Invert: 16.50 ft

From Node:	NP21B05	Manning's N:	0.0700	Manning's N:	0.0700
To Node:	NP21B03	Geometry:	Trapezoidal	Geometry:	Trapezoidal
Link Count:	1	Max Depth:	9983.11 ft	Max Depth:	9982.50 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	6.00 ft	Bottom Width:	6.00 ft
Length:	640.00 ft	Left Slope:	1.500 (h:v)	Left Slope:	1.500 (h:v)
Contraction Coef:	0.00	Right Slope:	1.500 (h:v)	Right Slope:	1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0700	Manning's N:	0.0700
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0700	Manning's N:	0.0700

Comment:

Pipe Link: RP21B07	Upstream	Downstream	
Scenario:	2016 FWCD Update	Invert: 16.50 ft	
From Node:	NP21B07	Manning's N: 0.0240	
To Node:	NP21B05	Geometry: Circular	
Link Count:	1	Max Depth: 4.50 ft	
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default:	0.67 ft
Length:	40.00 ft	Op Table:	
FHWA Code:	1	Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:	

Energy Switch: Energy

Ref Node:  
Manning's N: 0.0240

Ref Node:  
Manning's N: 0.0240

Comment:

Channel Link: RP21B09

Scenario: 2016 FWCD Update  
 From Node: NP21B09  
 To Node: NP21B07  
 Link Count: 1  
 Flow Direction: Both  
 Damping: 0.0000 ft  
 Length: 643.00 ft  
 Contraction Coef: 0.00  
 Expansion Coef: 0.00  
 Entr Loss Coef: 0.00  
 Exit Loss Coef: 0.00  
 Bend Loss Coef: 0.00  
 Bend Location: 0.00 dec  
 Energy Switch: Energy

Upstream

Invert: 15.72 ft  
 Manning's N: 0.0700  
 Geometry: Trapezoidal  
 Max Depth: 9983.28 ft  
 Extrapolation: Normal  
 Bottom Width: 6.00 ft  
 Left Slope: 1.500 (h:v)  
 Right Slope: 1.500 (h:v)

Downstream

Invert: 16.50 ft  
 Manning's N: 0.0700  
 Geometry: Trapezoidal  
 Max Depth: 9982.50 ft  
 Extrapolation: Normal  
 Bottom Width: 6.00 ft  
 Left Slope: 1.500 (h:v)  
 Right Slope: 1.500 (h:v)

Bottom Clip

Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0700

Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0700

Top Clip

Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0700

Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0700

Comment:

Pipe Link: RP21B11

Scenario: 2016 FWCD Update  
 From Node: NP21B11  
 To Node: NP21B09  
 Link Count: 1

Upstream

Invert: 15.89 ft  
 Manning's N: 0.0240  
 Geometry: Circular  
 Max Depth: 4.50 ft

Downstream

Invert: 15.72 ft  
 Manning's N: 0.0240  
 Geometry: Circular  
 Max Depth: 4.50 ft

Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link:	RP21B13	Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.55 ft	Invert: 15.89 ft
From Node:	NP21B13	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP21B11	Geometry: Trapezoidal	
Link Count:	1	Max Depth: 9982.45 ft	Max Depth: 9983.11 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	277.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP21B15		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.42 ft	Invert: 16.55 ft
From Node:	NP21B15	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP21B13	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9981.58 ft	Max Depth: 9982.45 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	363.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Pipe Link: RP21B17		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.90 ft	Invert: 17.42 ft
From Node:	NP21B17	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP21B15	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP21C01      Upstream      Downstream

Scenario: 2016 FWCD Update	Invert: 16.99 ft	Invert: 16.90 ft
From Node: NP21C01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP21B17	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.01 ft	Max Depth: 9982.10 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 477.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP21C03      Upstream      Downstream

Scenario: 2016 FWCD Update	Invert: 17.06 ft	Invert: 16.99 ft
From Node: NP21C03	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NP21C01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.94 ft	Max Depth: 9982.01 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 408.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP21C05	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.99 ft	Invert: 17.06 ft
From Node: NP21C05	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP21C03	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.50 ft	Max Depth: 4.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:

Manning's N: 0.0240

Manning's N: 0.0240

Comment:

Channel Link: RP21C07

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP21C07	NP21C05
To Node:	NP21C05	NP21C07
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	318.00 ft	318.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
Entr Loss Coef:	0.00	0.00
Exit Loss Coef:	0.00	0.00
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 17.76 ft	Invert: 16.99 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9981.24 ft	Max Depth: 9982.01 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP21C09

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP21C09	NP21C07
To Node:	NP21C07	NP21C09
Link Count:	1	1
Flow Direction:	Both	Both
	Invert: 17.37 ft	Invert: 17.76 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 4.50 ft	Max Depth: 4.50 ft
	Bottom Clip	



Damping:	0.0000 ft	Default:	0.67 ft	Default:	0.67 ft
Length:	42.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0240	Manning's N:	0.0240
Exit Loss Coef:	0.95	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0240	Manning's N:	0.0240

Comment:

Channel Link: RP21C11

	Upstream	Downstream	
Scenario:	2016 FWCD Update	Invert: 18.48 ft	
From Node:	NP21C11	Manning's N: 0.0700	
To Node:	NP21C09	Manning's N: 0.0700	
Link Count:	1	Geometry: Trapezoidal	
Flow Direction:	Both	Max Depth: 9980.52 ft	
Damping:	0.0000 ft	Extrapolation: Normal	
Length:	136.00 ft	Bottom Width: 6.00 ft	
Contraction Coef:	0.00	Left Slope: 1.500 (h:v)	
Expansion Coef:	0.00	Right Slope: 1.500 (h:v)	
Entr Loss Coef:	0.00	Bottom Clip	
Exit Loss Coef:	0.00	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:	
Bend Location:	0.00 dec	Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0700
		Top Clip	
		Default:	0.00 ft
		Op Table:	
		Ref Node:	
		Manning's N:	0.0700

Comment:

Pipe Link: RP21C13	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.94 ft	Invert: 18.48 ft
From Node: NP21C13	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP21C11	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
Comment:		

Channel Link: RP21C15	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.30 ft	Invert: 17.94 ft
From Node: NP21C15	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP21C13	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.70 ft	Max Depth: 9981.06 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 560.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP21C17

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.86 ft	Invert: 18.30 ft
From Node: NP21C17	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NP21C15	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 129.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Channel Link: RP21C19

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.76 ft	Invert: 18.86 ft
From Node: NP21C19	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP21C17	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.24 ft	Max Depth: 9980.14 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft

Length: 901.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP21C21	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.87 ft	Invert: 17.76 ft
From Node: NP21C21	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP21C19	Geometry: Circular	
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP21D01		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.90 ft	Invert: 17.87 ft
From Node:	NP21D01	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP21C21	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9981.10 ft	Max Depth: 9981.13 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	397.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Pipe Link: RP21D03		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.82 ft	Invert: 17.90 ft
From Node:	NP21D03	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP21D01	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.50 ft	Default: 0.50 ft
Length:	30.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP21D05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.51 ft	Invert: 17.82 ft
From Node: NP21D05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP21D03	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.49 ft	Max Depth: 9981.18 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 618.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP21D07

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.13 ft	Invert: 18.51 ft
From Node: NP21D07	Manning's N: 0.0240	Manning's N: 0.0240

To Node: NP21D05	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000	Default: 0.50 ft	Default: 0.50 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP21D09	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.89 ft	Invert: 18.13 ft
From Node: NP21D09	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP21D07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.11 ft	Max Depth: 9980.87 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 533.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Pipe Link: RP21D11

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP21D11	NP21D09
To Node:	NP21D09	NP21D11
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	40.00 ft	40.00 ft
FHWA Code:	1	1
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 17.95 ft	Invert: 17.89 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 2.50 ft	Max Depth: 2.50 ft
	Bottom Clip	Bottom Clip
	Default: 0.50 ft	Default: 0.50 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	Top Clip
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP21D13

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP21D13	NP21D11
To Node:	NP21D11	NP21D13
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	223.00 ft	223.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
	Invert: 18.45 ft	Invert: 17.95 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9980.55 ft	Max Depth: 9981.05 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	Bottom Clip



Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP21D15

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.10 ft	Invert: 18.45 ft
From Node: NP21D15	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP21D13	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft

Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 50.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240

Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP21D17

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.29 ft	Invert: 19.10 ft

From Node: NP21D17	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP21D15	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9979.71 ft	Max Depth: 9979.90 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 306.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP21D19

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.31 ft	Invert: 19.29 ft
From Node: NP21D19	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP21D17	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.50 ft	Default: 0.50 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:

Energy Switch: Energy

Ref Node:  
Manning's N: 0.0240

Ref Node:  
Manning's N: 0.0240

Comment:

Channel Link: RP21D21

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP21D21	NP21D19
To Node:	NP21D19	NP21D21
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	233.00 ft	233.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
Entr Loss Coef:	0.00	0.00
Exit Loss Coef:	0.00	0.00
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 17.72 ft	Invert: 19.31 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9981.28 ft	Max Depth: 9979.69 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP21D23

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP21D23	NP21D21
To Node:	NP21D21	NP21D23
Link Count:	1	1
	Invert: 18.51 ft	Invert: 17.72 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 2.50 ft	Max Depth: 2.50 ft

Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.50 ft	Default: 0.50 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP21E01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.47 ft	Invert: 18.51 ft
From Node: NP21E01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP21D23	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9980.53 ft	Max Depth: 9980.49 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 442.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP21E03	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.61 ft	Invert: 18.47 ft
From Node: NP21E03	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP21E01	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.50 ft	Default: 0.50 ft
Length: 20.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
Comment:		

Channel Link: RP21E05	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.77 ft	Invert: 18.61 ft
From Node: NP21E05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP21E03	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.23 ft	Max Depth: 9980.39 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 284.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP21E07

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.92 ft	Invert: 18.77 ft
From Node: NP21E07	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP21E05	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.25 ft	Default: 0.25 ft
Length: 33.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP21E09

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.15 ft	Invert: 18.92 ft
From Node: NP21E09	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP21E07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.85 ft	Max Depth: 9980.08 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft

Length: 258.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP21E11

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.91 ft	Invert: 18.15 ft
From Node: NP21E11	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP21E09	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9978.09 ft	Max Depth: 9980.85 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 540.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Pipe Link: RP21E13

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP21E13	NP21E11
To Node:	NP21E11	NP21E13
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	21.00 ft	21.00 ft
FHWA Code:	1	1
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 21.28 ft	Invert: 20.91 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 2.00 ft	Max Depth: 2.00 ft
	Bottom Clip	Bottom Clip
	Default: 0.33 ft	Default: 0.33 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	Top Clip
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP21E15

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP21E15	NP21E13
To Node:	NP21E13	NP21E15
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	19.00 ft	19.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
	Invert: 21.24 ft	Invert: 21.28 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9977.76 ft	Max Depth: 9977.72 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	Bottom Clip



Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP21E17

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.43 ft	Invert: 20.24 ft
From Node: NP21E17	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP21E15	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 2.00 ft	Max Depth: 2.00 ft

Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.33 ft	Default: 0.33 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240

Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP22A01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 13.58 ft	Invert: 12.58 ft

From Node: NP22A01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP-220	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9985.42 ft	Max Depth: 9986.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 300.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 1.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP22A03	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.64 ft	Invert: 13.58 ft
From Node: NP22A03	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP22A01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9983.36 ft	Max Depth: 9985.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 419.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:

Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP22A05	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.12 ft	Invert: 15.64 ft
From Node: NP22A05	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP22A03	Geometry: Circular	
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP22A07	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.11 ft	Invert: 16.12 ft
From Node: NP22A07	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP22A05	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9983.89 ft	Max Depth: 9982.88 ft

Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 641.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP22A09	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.59 ft	Invert: 15.11 ft
From Node: NP22A09	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP22A07	Geometry: Circular	
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP22A11		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.52 ft	Invert: 14.59 ft
From Node:	NP22A11	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP22A09	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9982.48 ft	Max Depth: 9984.41 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	418.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Pipe Link: RP22A13		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.35 ft	Invert: 16.07 ft
From Node:	NP22A13	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP22A11	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP22A15

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.28 ft	Invert: 16.35 ft
From Node: NP22A15	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP22A13	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9983.72 ft	Max Depth: 9982.65 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 199.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP22A17

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.67 ft	Invert: 15.28 ft
From Node: NP22A17	Manning's N: 0.0240	Manning's N: 0.0240

To Node:	NP22A15	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000	Default: 0.67 ft	Default: 0.67 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link:	RP22B01	Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.42 ft	Invert: 15.67 ft
From Node:	NP22B01	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP22A17	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9982.58 ft	Max Depth: 9983.33 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	638.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Pipe Link: RP22B03

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP22B03	NP22B01
To Node:	NP22B01	NP22B03
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	40.00 ft	40.00 ft
FHWA Code:	1	1
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 15.93 ft	Invert: 16.42 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 5.00 ft	Max Depth: 5.00 ft
	Bottom Clip	Bottom Clip
	Default: 0.67 ft	Default: 0.67 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	Top Clip
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP22B05

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP22B05	NP22B03
To Node:	NP22B03	NP22B05
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	624.00 ft	624.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
	Invert: 15.74 ft	Invert: 15.93 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9983.26 ft	Max Depth: 9983.07 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	Bottom Clip



Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP22B07

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.96 ft	Invert: 15.74 ft
From Node: NP22B07	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP22B05	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.33 ft	Max Depth: 4.33 ft

Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 43.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240

Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP22B09

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.17 ft	Invert: 15.96 ft

From Node: NP22B09	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP22B07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.83 ft	Max Depth: 9983.04 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 641.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP22B11

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.59 ft	Invert: 17.17 ft
From Node: NP22B11	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP22B09	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.33 ft	Max Depth: 4.33 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:

Energy Switch: Energy

Ref Node:  
Manning's N: 0.0240

Ref Node:  
Manning's N: 0.0240

Comment:

Channel Link: RP22B13

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP22B13	
To Node:	NP22B11	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	641.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 16.09 ft	Invert: 16.59 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9982.91 ft	Max Depth: 9982.41 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP22B15

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP22B15	
To Node:	NP22B13	
Link Count:	1	
	Invert: 16.21 ft	Invert: 16.09 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 4.00 ft	Max Depth: 4.00 ft

Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP22C01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.86 ft	Invert: 16.21 ft
From Node: NP22C01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP22B15	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9982.14 ft	Max Depth: 9982.79 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 437.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP22C03		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.09 ft	Invert: 16.86 ft
From Node:	NP22C03	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP22C01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9981.91 ft	Max Depth: 9982.14 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	205.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Pipe Link: RP22C05		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.49 ft	Invert: 17.17 ft
From Node:	NP22C05	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP22C03	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP22C07

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.26 ft	Invert: 16.49 ft
From Node: NP22C07	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP22C05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.74 ft	Max Depth: 9982.51 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 637.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP22C09

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.34 ft	Invert: 17.26 ft
From Node: NP22C09	Manning's N: 0.0240	Manning's N: 0.0240

To Node: NP22C07	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP22C11

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.39 ft	Invert: 16.34 ft
From Node: NP22C11	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP22C09	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.61 ft	Max Depth: 9982.66 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 595.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Pipe Link: RP22C13

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP22C13	NP22C11
To Node:	NP22C11	NP22C13
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	121.00 ft	121.00 ft
FHWA Code:	1	1
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 17.28 ft	Invert: 17.39 ft
	Manning's N: 0.0120	Manning's N: 0.0120
	Geometry: Circular	Geometry: Circular
	Max Depth: 4.00 ft	Max Depth: 4.00 ft
	Bottom Clip	Bottom Clip
	Default: 0.67 ft	Default: 0.67 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120
	Top Clip	Top Clip
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Channel Link: RP22C15

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP22C15	NP22C13
To Node:	NP22C13	NP22C15
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	527.00 ft	527.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
	Invert: 17.19 ft	Invert: 17.28 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9981.81 ft	Max Depth: 9981.72 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	Bottom Clip



Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP22C17	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.19 ft	Invert: 17.19 ft
From Node: NP22C17	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP22C15	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.50 ft	Max Depth: 3.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP22C19	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.74 ft	Invert: 17.19 ft

From Node:	NP22C19	Manning's N:	0.0700	Manning's N:	0.0700
To Node:	NP22C17	Geometry:	Trapezoidal	Geometry:	Trapezoidal
Link Count:	1	Max Depth:	9981.26 ft	Max Depth:	9981.81 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	6.00 ft	Bottom Width:	6.00 ft
Length:	292.00 ft	Left Slope:	1.500 (h:v)	Left Slope:	1.500 (h:v)
Contraction Coef:	0.00	Right Slope:	1.500 (h:v)	Right Slope:	1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0700	Manning's N:	0.0700
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0700	Manning's N:	0.0700

Comment:

Pipe Link: RP22C21	Upstream	Downstream	
Scenario:	2016 FWCD Update	Invert: 17.88 ft	
From Node:	NP22C21	Manning's N: 0.0240	
To Node:	NP22C19	Geometry: Circular	
Link Count:	1	Max Depth: 4.00 ft	
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default:	0.67 ft
Length:	38.00 ft	Op Table:	
FHWA Code:	1	Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:	

Energy Switch: Energy

Ref Node:  
Manning's N: 0.0240

Ref Node:  
Manning's N: 0.0240

Comment:

Channel Link: RP22D01

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP22D01	
To Node:	NP22C21	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	235.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 18.20 ft	Invert: 17.88 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9980.80 ft	Max Depth: 9981.12 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP22D03

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP22D03	
To Node:	NP22D01	
Link Count:	1	
	Invert: 18.82 ft	Invert: 18.20 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 3.00 ft	Max Depth: 3.00 ft

Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	30.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link:	RP22D05	Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.53 ft	Invert: 18.82 ft
From Node:	NP22D05	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP22D03	Geometry: Trapezoidal	
Link Count:	1	Max Depth: 9980.47 ft	Max Depth: 9980.18 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	488.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP22D07		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.82 ft	Invert: 18.53 ft
From Node:	NP22D07	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP22D05	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	20.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240
Comment:			

Channel Link: RP22D09		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.65 ft	Invert: 18.82 ft
From Node:	NP22D09	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP22D07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9981.35 ft	Max Depth: 9980.18 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	679.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP22D11

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.79 ft	Invert: 17.65 ft
From Node: NP22D11	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP22D09	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP22D13

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.52 ft	Invert: 17.79 ft
From Node: NP22D13	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP22D11	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.48 ft	Max Depth: 9981.21 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft

Length: 392.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP22D15

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.80 ft	Invert: 17.52 ft
From Node: NP22D15	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP22D13	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9981.20 ft	Max Depth: 9981.48 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 231.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Pipe Link: RP22D17

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP22D17	NP22D15
To Node:	NP22D15	NP22D17
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	29.00 ft	29.00 ft
FHWA Code:	1	1
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 17.44 ft	Invert: 17.80 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 2.50 ft	Max Depth: 2.50 ft
	Bottom Clip	Bottom Clip
	Default: 0.50 ft	Default: 0.50 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	Top Clip
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP22E01

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP22E01	NP22D17
To Node:	NP22D17	NP22E01
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	652.00 ft	652.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
	Invert: 18.97 ft	Invert: 17.44 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9980.03 ft	Max Depth: 9981.56 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	Bottom Clip



Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP22E03

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.04 ft	Invert: 18.97 ft
From Node: NP22E03	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP22E01	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 2.00 ft	Max Depth: 2.00 ft

Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.33 ft	Default: 0.33 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240

Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP22E05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.27 ft	Invert: 19.04 ft

From Node: NP22E05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP22E03	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9979.73 ft	Max Depth: 9979.96 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 484.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP22E07

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.27 ft	Invert: 19.34 ft
From Node: NP22E07	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP22E05	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.25 ft	Max Depth: 1.25 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 19.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:

Energy Switch: Energy

Ref Node:  
Manning's N: 0.0240

Ref Node:  
Manning's N: 0.0240

Comment:

Channel Link: RP22E09

Scenario: 2016 FWCD Update  
 From Node: NP22E09  
 To Node: NP22E07  
 Link Count: 1  
 Flow Direction: Both  
 Damping: 0.0000 ft  
 Length: 353.00 ft  
 Contraction Coef: 0.00  
 Expansion Coef: 0.00  
 Entr Loss Coef: 0.00  
 Exit Loss Coef: 0.00  
 Bend Loss Coef: 0.00  
 Bend Location: 0.00 dec  
 Energy Switch: Energy

Upstream

Invert: 18.28 ft  
 Manning's N: 0.0700  
 Geometry: Trapezoidal  
 Max Depth: 9980.72 ft  
 Extrapolation: Normal  
 Bottom Width: 6.00 ft  
 Left Slope: 1.500 (h:v)  
 Right Slope: 1.500 (h:v)

Downstream

Invert: 19.34 ft  
 Manning's N: 0.0700  
 Geometry: Trapezoidal  
 Max Depth: 9979.66 ft  
 Extrapolation: Normal  
 Bottom Width: 6.00 ft  
 Left Slope: 1.500 (h:v)  
 Right Slope: 1.500 (h:v)

Bottom Clip

Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0700

Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0700

Top Clip

Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0700

Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0700

Comment:

Pipe Link: RP22E11

Scenario: 2016 FWCD Update  
 From Node: NP22E11  
 To Node: NP22E09  
 Link Count: 1

Upstream

Invert: 17.87 ft  
 Manning's N: 0.0240  
 Geometry: Circular  
 Max Depth: 2.00 ft

Downstream

Invert: 18.28 ft  
 Manning's N: 0.0240  
 Geometry: Circular  
 Max Depth: 2.00 ft

Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.33 ft	Default: 0.33 ft
Length:	35.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link:	RP22E13	Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 19.08 ft	Invert: 17.87 ft
From Node:	NP22E13	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP22E11	Geometry: Trapezoidal	
Link Count:	1	Max Depth: 9979.92 ft	Max Depth: 9981.13 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	671.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP23A01		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 13.58 ft	Invert: 12.58 ft
From Node:	NP23A01	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP-230	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9985.42 ft	Max Depth: 9986.42 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	300.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	1.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Channel Link: RP23A03		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.11 ft	Invert: 13.58 ft
From Node:	NP23A03	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP23A01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9981.89 ft	Max Depth: 9985.42 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	483.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP23A05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.25 ft	Invert: 17.11 ft
From Node: NP23A05	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP23A03	Geometry: Circular	
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP23A10

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.79 ft	Invert: 17.25 ft
From Node: NP23A10	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NP23A05	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9982.21 ft	Extrapolation: Normal	Max Depth: 9981.75 ft	Extrapolation: Normal
Flow Direction: Both	Bottom Width: 8.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 8.00 ft	Left Slope: 1.500 (h:v)
Damping: 0.0000 ft	Right Slope: 1.500 (h:v)	Bottom Clip		
Length: 937.00 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Contraction Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Expansion Coef: 0.00	Top Clip			
Entr Loss Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Bend Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700
Bend Location: 0.00 dec				
Energy Switch: Energy				

Comment:

Channel Link: RP23B01	Upstream		Downstream	
Scenario: 2016 FWCD Update	Invert: 16.36 ft	Manning's N: 0.0700	Invert: 16.79 ft	Manning's N: 0.0700
From Node: NP23B01	Geometry: Trapezoidal		Geometry: Trapezoidal	
To Node: NP23A10	Max Depth: 9982.64 ft	Extrapolation: Normal	Max Depth: 9982.21 ft	Extrapolation: Normal
Link Count: 1	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)
Flow Direction: Both	Right Slope: 1.500 (h:v)	Bottom Clip		
Damping: 0.0000 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Length: 880.00 ft	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Contraction Coef: 0.00	Top Clip			
Expansion Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Entr Loss Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Exit Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700
Bend Loss Coef: 0.00				
Bend Location: 0.00 dec				

Energy Switch: Energy

Top Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP23B05

Upstream

Downstream

Scenario: 2016 FWCD Update  
 From Node: NP23B05  
 To Node: NP23B01  
 Link Count: 1  
 Flow Direction: Both  
 Damping: 0.0000 ft  
 Length: 880.00 ft  
 Contraction Coef: 0.00  
 Expansion Coef: 0.00  
 Entr Loss Coef: 0.00  
 Exit Loss Coef: 0.00  
 Bend Loss Coef: 0.00  
 Bend Location: 0.00 dec  
 Energy Switch: Energy

Invert: 15.93 ft	Invert: 16.36 ft
Manning's N: 0.0700	Manning's N: 0.0700
Geometry: Trapezoidal	Geometry: Trapezoidal
Max Depth: 9983.07 ft	Max Depth: 9982.64 ft
Extrapolation: Normal	Extrapolation: Normal
Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)

Bottom Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Top Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP23B10

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 16.04 ft	Invert: 15.93 ft
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From Node: NP23B10	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP23B05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.96 ft	Max Depth: 9983.07 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP23C01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.16 ft	Invert: 16.04 ft
From Node: NP23C01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP23B10	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.84 ft	Max Depth: 9982.96 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:

Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP23C05	Upstream	Downstream
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Scenario: 2016 FWCD Update	Invert: 16.28 ft	Invert: 16.16 ft
From Node: NP23C05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP23C01	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9982.72 ft	Max Depth: 9982.84 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP23C07	Upstream	Downstream
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Scenario: 2016 FWCD Update	Invert: 18.07 ft	Invert: 16.28 ft
From Node: NP23C07	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP23C05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.93 ft	Max Depth: 9982.72 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 696.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP23C09	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.62 ft	Invert: 18.07 ft
From Node: NP23C09	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP23C07	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft

Bend Location: 0.00 dec  
 Energy Switch: Energy

Op Table:  
 Ref Node:  
 Manning's N: 0.0240

Op Table:  
 Ref Node:  
 Manning's N: 0.0240

Comment:

Channel Link: RP23C11

Scenario: 2016 FWCD Update  
 From Node: NP23C11  
 To Node: NP23C09  
 Link Count: 1  
 Flow Direction: Both  
 Damping: 0.0000 ft  
 Length: 768.00 ft  
 Contraction Coef: 0.00  
 Expansion Coef: 0.00  
 Entr Loss Coef: 0.00  
 Exit Loss Coef: 0.00  
 Bend Loss Coef: 0.00  
 Bend Location: 0.00 dec  
 Energy Switch: Energy

Upstream

Invert: 18.36 ft  
 Manning's N: 0.0700  
 Geometry: Trapezoidal  
 Max Depth: 9980.64 ft  
 Extrapolation: Normal  
 Bottom Width: 6.00 ft  
 Left Slope: 1.500 (h:v)  
 Right Slope: 1.500 (h:v)

Downstream

Invert: 18.62 ft  
 Manning's N: 0.0700  
 Geometry: Trapezoidal  
 Max Depth: 9980.38 ft  
 Extrapolation: Normal  
 Bottom Width: 6.00 ft  
 Left Slope: 1.500 (h:v)  
 Right Slope: 1.500 (h:v)

Bottom Clip

Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0700

Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0700

Top Clip

Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0700

Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0700

Comment:

Pipe Link: RP23C13

Scenario: 2016 FWCD Update  
 From Node: NP23C13  
 To Node: NP23C11

Upstream

Invert: 18.21 ft  
 Manning's N: 0.0240  
 Geometry: Circular

Downstream

Invert: 18.36 ft  
 Manning's N: 0.0240  
 Geometry: Circular

Link Count:	1	Max Depth:	2.50 ft	Max Depth:	2.50 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000	Default:	0.50 ft	Default:	0.50 ft
Length:	30.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0240	Manning's N:	0.0240
Exit Loss Coef:	0.95	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0240	Manning's N:	0.0240

Comment:

Channel Link: RP23C15

	Upstream	Downstream	
Scenario:	2016 FWCD Update	Invert: 18.09 ft	
From Node:	NP23C15	Invert: 18.21 ft	
To Node:	NP23C13	Manning's N: 0.0700	
Link Count:	1	Manning's N: 0.0700	
Flow Direction:	Both	Geometry: Trapezoidal	
Damping:	0.0000	Max Depth: 9980.91 ft	
Length:	204.00 ft	Max Depth: 9980.79 ft	
Contraction Coef:	0.00	Extrapolation: Normal	
Expansion Coef:	0.00	Bottom Width: 6.00 ft	
Entr Loss Coef:	0.00	Left Slope: 1.500 (h:v)	
Exit Loss Coef:	0.00	Right Slope: 1.500 (h:v)	
Bend Loss Coef:	0.00	Right Slope: 1.500 (h:v)	
Bend Location:	0.00 dec	Bottom Clip	
Energy Switch:	Energy	Default:	0.00 ft
		Op Table:	
		Ref Node:	
		Manning's N:	0.0700
		Top Clip	
		Default:	0.00 ft
		Op Table:	
		Ref Node:	
		Manning's N:	0.0700

Comment:

Pipe Link: RP23C17	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.87 ft	Invert: 18.09 ft
From Node: NP23C17	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP23C15	Geometry: Horizontal Ellipse	Geometry: Horizontal Ellipse
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 24.00 ft	Op Table:	Op Table:
FHWA Code: 30	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP23D01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.05 ft	Invert: 17.87 ft
From Node: NP23D01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP23C17	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.95 ft	Max Depth: 9981.13 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 348.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP23D03

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.32 ft	Invert: 17.05 ft
From Node: NP23D03	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP23D01	Geometry: Circular	
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 28.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP23D05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.58 ft	Invert: 17.32 ft
From Node: NP23D05	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NP23D03	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.42 ft	Max Depth: 9981.68 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 470.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP23D07	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.65 ft	Invert: 17.58 ft
From Node: NP23D07	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP23D05	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:



Manning's N: 0.0240

Manning's N: 0.0240

Comment:

Channel Link: RP23D09

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP23D09	NP23D07
To Node:	NP23D07	NP23D09
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	404.00 ft	404.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
Entr Loss Coef:	0.00	0.00
Exit Loss Coef:	0.00	0.00
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 18.89 ft	Invert: 17.65 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9980.11 ft	Max Depth: 9981.35 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP23D11

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP23D11	NP23D09
To Node:	NP23D09	NP23D11
Link Count:	1	1
Flow Direction:	Both	Both
	Invert: 19.11 ft	Invert: 18.89 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 2.50 ft	Max Depth: 2.50 ft
	Bottom Clip	

Damping: 0.0000 ft	Default: 0.50 ft	Default: 0.50 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP23D13

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.40 ft	Invert: 19.11 ft
From Node: NP23D13	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP23D11	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9980.60 ft	Max Depth: 9979.89 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 554.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP23D15		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 19.19 ft	Invert: 18.40 ft
From Node:	NP23D15	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP23D13	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.50 ft	Default: 0.50 ft
Length:	50.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240
Comment:			

Channel Link: RP23D17		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 19.28 ft	Invert: 19.19 ft
From Node:	NP23D17	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP23D15	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9979.72 ft	Max Depth: 9979.81 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	109.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP23D19

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.12 ft	Invert: 19.28 ft
From Node: NP23D19	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP23D17	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.50 ft	Default: 0.50 ft
Length: 39.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP23E01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.30 ft	Invert: 18.12 ft
From Node: NP23E01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP23D19	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.70 ft	Max Depth: 9980.88 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft

Length: 565.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP23E03

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.48 ft	Invert: 18.30 ft
From Node: NP23E03	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP23E01	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9980.52 ft	Max Depth: 9980.70 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 570.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Pipe Link: RP23E05

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP23E05	NP23E03
To Node:	NP23E03	NP23E05
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	20.00 ft	20.00 ft
FHWA Code:	1	1
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 18.48 ft	Invert: 18.48 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 2.00 ft	Max Depth: 2.00 ft
	Bottom Clip	Bottom Clip
	Default: 0.33 ft	Default: 0.33 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	Top Clip
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP23E07

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP23E07	NP23E05
To Node:	NP23E05	NP23E07
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	396.00 ft	396.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
	Invert: 18.91 ft	Invert: 18.48 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9980.09 ft	Max Depth: 9980.52 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	Bottom Clip

Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP23E09

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.30 ft	Invert: 18.91 ft
From Node: NP23E09	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP23E07	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 2.00 ft	Max Depth: 2.00 ft

Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.33 ft	Default: 0.33 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240

Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP23E11

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.91 ft	Invert: 18.30 ft

From Node: NP23E11	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP23E09	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.09 ft	Max Depth: 9980.70 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 616.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP24A01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.58 ft	Invert: 12.58 ft
From Node: NP24A01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP-240	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9984.42 ft	Max Depth: 9986.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 300.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 1.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:



Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP24A05	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.02 ft	Invert: 14.58 ft
From Node: NP24A05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP24A01	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9983.98 ft	Max Depth: 9984.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 580.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP24A10	Upstream	Downstream
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Scenario: 2016 FWCD Update	Invert: 15.26 ft	Invert: 15.02 ft
From Node: NP24A10	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP24A05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9983.74 ft	Max Depth: 9983.98 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP24B01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.49 ft	Invert: 15.26 ft
From Node: NP24B01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP24A10	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9983.51 ft	Max Depth: 9983.74 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:

Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP24B05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.73 ft	Invert: 15.49 ft
From Node: NP24B05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP24B01	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9983.27 ft	Max Depth: 9983.51 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP24B10		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.16 ft	Invert: 15.73 ft
From Node:	NP24B10	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP24B05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9982.84 ft	Max Depth: 9983.27 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Channel Link: RP24C01		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.69 ft	Invert: 16.16 ft
From Node:	NP24C01	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP24B10	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9982.31 ft	Max Depth: 9982.84 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP24C05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.22 ft	Invert: 16.69 ft
From Node: NP24C05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP24C01	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9981.78 ft	Max Depth: 9982.31 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP24C07		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.48 ft	Invert: 17.22 ft
From Node:	NP24C07	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NP24C05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9981.52 ft	Max Depth: 9981.78 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	692.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP24C09		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.83 ft	Invert: 17.48 ft
From Node:	NP24C09	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP24C07	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.50 ft	Default: 0.50 ft
Length:	50.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RP24D01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.93 ft	Invert: 17.83 ft
From Node: NP24D01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP24C09	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.07 ft	Max Depth: 9981.17 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 1019.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP24D05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.13 ft	Invert: 16.93 ft
From Node: NP24D05	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NP24D01	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9981.87 ft	Extrapolation: Normal	Max Depth: 9982.07 ft	Extrapolation: Normal
Flow Direction: Both	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)
Damping: 0.0000 ft	Right Slope: 1.500 (h:v)	Bottom Clip		
Length: 880.00 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Contraction Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Expansion Coef: 0.00	Top Clip			
Entr Loss Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Bend Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700
Bend Location: 0.00 dec				
Energy Switch: Energy				

Comment:

Channel Link: RP24D10	Upstream		Downstream	
Scenario: 2016 FWCD Update	Invert: 17.39 ft	Manning's N: 0.0700	Invert: 17.13 ft	Manning's N: 0.0700
From Node: NP24D10	Geometry: Trapezoidal		Geometry: Trapezoidal	
To Node: NP24D05	Max Depth: 9981.61 ft	Extrapolation: Normal	Max Depth: 9981.87 ft	Extrapolation: Normal
Link Count: 1	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)
Flow Direction: Both	Right Slope: 1.500 (h:v)	Bottom Clip		
Damping: 0.0000 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Length: 880.00 ft	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Contraction Coef: 0.00	Top Clip			
Expansion Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Entr Loss Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Exit Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700
Bend Loss Coef: 0.00				
Bend Location: 0.00 dec				



Energy Switch: Energy

Top Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP24E01

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 17.80 ft	Invert: 17.39 ft
From Node: NP24E01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP24D10	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.20 ft	Max Depth: 9981.61 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RP24E05

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 18.27 ft	Invert: 17.80 ft
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From Node: NP24E05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NP24E01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.73 ft	Max Depth: 9981.20 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 1012.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RP24E07

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.24 ft	Invert: 18.27 ft
From Node: NP24E07	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP24E05	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.50 ft	Default: 0.50 ft
Length: 56.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:

Energy Switch: Energy

Ref Node:  
Manning's N: 0.0240

Ref Node:  
Manning's N: 0.0240

Comment:

Channel Link: RP24E09

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NP24E09	
To Node:	NP24E07	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	577.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 18.27 ft	Invert: 18.24 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9980.73 ft	Max Depth: 9980.76 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RPL1-A

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NPL1-A	
To Node:	NP01A07	
Link Count:	4	
	Invert: 21.08 ft	Invert: 20.58 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.00 ft	Max Depth: 1.00 ft

	Bottom Clip	
Flow Direction: Both		
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL1-B	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 21.58 ft	Invert: 21.08 ft
From Node: NPL1-B	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP01B07	Geometry: Circular	
Link Count: 4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL1-C	Upstream	Downstream
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Scenario:	2016 FWCD Update	Invert:	23.08 ft	Invert:	22.58 ft
From Node:	NPL1-C	Manning's N:	0.0240	Manning's N:	0.0240
To Node:	NP01C01	Geometry:	Circular	Geometry:	Circular
Link Count:	5	Max Depth:	1.00 ft	Max Depth:	1.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.17 ft	Default:	0.17 ft
Length:	40.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0240	Manning's N:	0.0240
Exit Loss Coef:	0.95	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0240	Manning's N:	0.0240

Comment:

Pipe Link: RPL1-D

	Upstream	Downstream	
Scenario:	2016 FWCD Update	Invert: 23.08 ft	
From Node:	NPL1-D	Manning's N: 0.0240	
To Node:	NP01D01	Geometry: Circular	
Link Count:	4	Max Depth: 1.00 ft	
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.17 ft	
Length:	40.00 ft	Op Table:	
FHWA Code:	1	Ref Node:	
Entr Loss Coef:	0.50	Manning's N: 0.0240	
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	
Bend Location:	0.00 dec	Op Table:	
Energy Switch:	Energy	Ref Node:	
		Manning's N: 0.0240	

Comment:

Pipe Link: RPL10-A1	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.58 ft	Invert: 19.08 ft
From Node: NPL10-A	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP10A13	Geometry: Circular	Geometry: Circular
Link Count: 3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
Comment:		

Pipe Link: RPL10-A2	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.58 ft	Invert: 17.08 ft
From Node: NPL10-A	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP10A13	Geometry: Circular	Geometry: Circular
Link Count: 2	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL10-B1

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NPL10-B	
To Node:	NP10B03	
Link Count:	4	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	40.00 ft	
FHWA Code:	1	
Entr Loss Coef:	0.50	
Exit Loss Coef:	0.95	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 20.58 ft	Invert: 20.08 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.00 ft	Max Depth: 1.00 ft
	Bottom Clip	
	Default: 0.17 ft	Default: 0.17 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL10-B2

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NPL10-B	
To Node:	NP10B03	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	40.00 ft	
FHWA Code:	1	
Entr Loss Coef:	0.50	
Exit Loss Coef:	0.95	
	Invert: 18.58 ft	Invert: 18.08 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.00 ft	Max Depth: 1.00 ft
	Bottom Clip	
	Default: 0.17 ft	Default: 0.17 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL10-C

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 21.08 ft	Invert: 20.58 ft
From Node: NPL10-C	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP10C01	Geometry: Circular	Geometry: Circular
Link Count: 6	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL10-D1

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 21.58 ft	Invert: 21.08 ft
From Node: NPL10-D	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP10D01	Geometry: Circular	Geometry: Circular
Link Count: 5	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft



Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL10-D2

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.58 ft	Invert: 19.08 ft
From Node: NPL10-D	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP10D01	Geometry: Circular	
Link Count: 1	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL10-E

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 23.50 ft	Invert: 23.00 ft
From Node: NPL10-E	Manning's N: 0.0240	Manning's N: 0.0240

To Node:	NP10E01	Geometry: Circular	Geometry: Circular
Link Count:	3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link:	RPL11-A	Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 19.58 ft	Invert: 19.08 ft
From Node:	NPL11-A	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP11A10	Geometry: Circular	Geometry: Circular
Link Count:	4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL11-B1		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 20.08 ft	Invert: 19.58 ft
From Node:	NPL11-B	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP11B05	Geometry: Circular	Geometry: Circular
Link Count:	3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240
Comment:			

Pipe Link: RPL11-B2		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.08 ft	Invert: 17.58 ft
From Node:	NPL11-B	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP11B05	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL11-C

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NPL11-C	
To Node:	NP11C01	
Link Count:	5	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	40.00 ft	
FHWA Code:	1	
Entr Loss Coef:	0.50	
Exit Loss Coef:	0.95	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 20.58 ft	Invert: 20.08 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.00 ft	Max Depth: 1.00 ft
	Bottom Clip	
	Default: 0.17 ft	Default: 0.17 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL11-D

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NPL11-D	
To Node:	NP11D05	
Link Count:	5	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	40.00 ft	
FHWA Code:	1	
Entr Loss Coef:	0.50	
Exit Loss Coef:	0.95	
	Invert: 21.58 ft	Invert: 21.08 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.00 ft	Max Depth: 1.00 ft
	Bottom Clip	
	Default: 0.17 ft	Default: 0.17 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL11-E

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 23.00 ft	Invert: 22.50 ft
From Node: NPL11-E	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP11E05	Geometry: Circular	Geometry: Circular
Link Count: 5	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL12-A1

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.58 ft	Invert: 20.08 ft
From Node: NPL12-A	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP12A09	Geometry: Circular	Geometry: Circular
Link Count: 2	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft

Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL12-A2

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.58 ft	Invert: 18.08 ft
From Node: NPL12-A	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP12A09	Geometry: Circular	
Link Count: 2	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL12-B1

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 21.08 ft	Invert: 20.58 ft
From Node: NPL12-B	Manning's N: 0.0240	Manning's N: 0.0240

To Node:	NP12B05	Geometry: Circular	Geometry: Circular
Link Count:	3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link:	RPL12-B2	Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 19.08 ft	Invert: 18.58 ft
From Node:	NPL12-B	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP12B05	Geometry: Circular	Geometry: Circular
Link Count:	2	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL12-C1	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 21.58 ft	Invert: 21.08 ft
From Node: NPL12-C	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP12C01	Geometry: Circular	Geometry: Circular
Link Count: 5	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
Comment:		

Pipe Link: RPL12-C2	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.58 ft	Invert: 19.08 ft
From Node: NPL12-C	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP12C01	Geometry: Circular	Geometry: Circular
Link Count: 3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240



Comment:

Pipe Link: RPL12-D

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 22.00 ft	Invert: 21.50 ft
From Node: NPL12-D	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP12D05	Geometry: Circular	Geometry: Circular
Link Count: 10	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL12-E

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 23.00 ft	Invert: 22.50 ft
From Node: NPL12-E	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP12E01	Geometry: Circular	Geometry: Circular
Link Count: 3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	

Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0240	Manning's N:	0.0240

Comment:

Pipe Link: RPL13-A1

	Upstream	Downstream
Scenario:	2016 FWCD Update	
Invert:	19.58 ft	19.08 ft
From Node:	NPL13-A	
Manning's N:	0.0240	0.0240
To Node:	NP13aA09	
Geometry:	Circular	Circular
Link Count:	2	
Max Depth:	1.00 ft	1.00 ft
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	40.00 ft	
FHWA Code:	1	
Entr Loss Coef:	0.50	
Exit Loss Coef:	0.95	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
Manning's N:	0.0240	0.0240

Comment:

Pipe Link: RPL13-A2

	Upstream	Downstream
Scenario:	2016 FWCD Update	
Invert:	17.58 ft	17.08 ft
From Node:	NPL13-A	
Manning's N:	0.0240	0.0240
To Node:	NP13aA09	
Geometry:	Circular	Circular
Link Count:	2	
Max Depth:	1.00 ft	1.00 ft
Flow Direction:	Both	
Damping:	0.0000 ft	

Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL13-B1

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 21.58 ft	Invert: 21.08 ft
From Node: NPL13-B	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP13aB01	Geometry: Circular	
Link Count: 2	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL13-B2

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.58 ft	Invert: 19.08 ft
From Node: NPL13-B	Manning's N: 0.0240	Manning's N: 0.0240

To Node:	NP13aB01	Geometry: Circular	Geometry: Circular
Link Count:	2	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link:	RPL13-C1	Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 21.58 ft	Invert: 21.08 ft
From Node:	NPL13-C	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP13aC01	Geometry: Circular	Geometry: Circular
Link Count:	2	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL13-C2	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.58 ft	Invert: 19.08 ft
From Node: NPL13-C	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP13aC01	Geometry: Circular	Geometry: Circular
Link Count: 3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
Comment:		

Pipe Link: RPL13b-A	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.58 ft	Invert: 19.08 ft
From Node: NPL13b-A	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP13bA05	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL13b-B

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NPL13b-B	
To Node:	NP13bB01	
Link Count:	2	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	40.00 ft	
FHWA Code:	1	
Entr Loss Coef:	0.50	
Exit Loss Coef:	0.95	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 20.58 ft	Invert: 20.08 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.00 ft	Max Depth: 1.00 ft
	Bottom Clip	
	Default: 0.17 ft	Default: 0.17 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL13b-C

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NPL13b-C	
To Node:	NP13bC01	
Link Count:	3	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	40.00 ft	
FHWA Code:	1	
Entr Loss Coef:	0.50	
Exit Loss Coef:	0.95	
	Invert: 21.58 ft	Invert: 21.08 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.00 ft	Max Depth: 1.00 ft
	Bottom Clip	
	Default: 0.17 ft	Default: 0.17 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL13b-D	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 24.58 ft	Invert: 24.08 ft
From Node: NPL13b-D	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP13bD10	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL14-A1	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.58 ft	Invert: 19.08 ft
From Node: NPL14-A	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP14A07	Geometry: Circular	Geometry: Circular
Link Count: 5	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft

Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL14-A2	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.58 ft	Invert: 17.08 ft
From Node: NPL14-A	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP14A07	Geometry: Circular	
Link Count: 1	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL14-B	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.58 ft	Invert: 20.08 ft
From Node: NPL14-B	Manning's N: 0.0240	Manning's N: 0.0240



To Node:	NP14B05	Geometry: Circular	Geometry: Circular
Link Count:	15	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL14-C

		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 21.58 ft	Invert: 21.08 ft
From Node:	NPL14-C	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP14C05	Geometry: Circular	Geometry: Circular
Link Count:	12	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL14-D	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 23.08 ft	Invert: 22.58 ft
From Node: NPL14-D	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP14D01	Geometry: Circular	Geometry: Circular
Link Count: 8	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
Comment:		

Pipe Link: RPL14-E	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 23.50 ft	Invert: 23.00 ft
From Node: NPL14-E	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP14E01	Geometry: Circular	Geometry: Circular
Link Count: 7	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL15-A1

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NPL15-A	
To Node:	NP15A05	
Link Count:	2	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	40.00 ft	
FHWA Code:	1	
Entr Loss Coef:	0.50	
Exit Loss Coef:	0.95	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 20.08 ft	Invert: 19.58 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.00 ft	Max Depth: 1.00 ft
	Bottom Clip	
	Default: 0.17 ft	Default: 0.17 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL15-A2

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NPL15-A	
To Node:	NP15A05	
Link Count:	2	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	40.00 ft	
FHWA Code:	1	
Entr Loss Coef:	0.50	
Exit Loss Coef:	0.95	
	Invert: 18.08 ft	Invert: 17.58 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.00 ft	Max Depth: 1.00 ft
	Bottom Clip	
	Default: 0.17 ft	Default: 0.17 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL15-B

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 21.08 ft	Invert: 20.58 ft
From Node: NPL15-B	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP15B01	Geometry: Circular	Geometry: Circular
Link Count: 16	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL15-C

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 21.58 ft	Invert: 21.08 ft
From Node: NPL15-C	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP15C01	Geometry: Circular	Geometry: Circular
Link Count: 18	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft

Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL15-D

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 23.08 ft	Invert: 22.58 ft
From Node: NPL15-D	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP15D01	Geometry: Circular	
Link Count: 4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL15-E

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 23.00 ft	Invert: 22.50 ft
From Node: NPL15-E	Manning's N: 0.0240	Manning's N: 0.0240

To Node: NP15E05	Geometry: Circular	Geometry: Circular
Link Count: 6	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL16-A	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.08 ft	Invert: 19.58 ft
From Node: NPL16-A	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP16A07	Geometry: Circular	Geometry: Circular
Link Count: 3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL16-B	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 21.08 ft	Invert: 20.58 ft
From Node: NPL16-B	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP16B05	Geometry: Circular	Geometry: Circular
Link Count: 14	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
Comment:		

Pipe Link: RPL16-C	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 21.08 ft	Invert: 20.58 ft
From Node: NPL16-C	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP16C05	Geometry: Circular	Geometry: Circular
Link Count: 16	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL16-D	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 23.58 ft	Invert: 23.08 ft
From Node: NPL16-D	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP16D05	Geometry: Circular	Geometry: Circular
Link Count: 16	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL16-E	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 22.50 ft	Invert: 22.00 ft
From Node: NPL16-E	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP16E01	Geometry: Circular	Geometry: Circular
Link Count: 14	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	



Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0240	Manning's N:	0.0240

Comment:

Pipe Link: RPL17-A

	Upstream	Downstream
Scenario:	2016 FWCD Update	
Invert:	21.08 ft	20.58 ft
From Node:	NPL17-A	
Manning's N:	0.0240	0.0240
To Node:	NP17A05	
Geometry:	Circular	Circular
Link Count:	2	
Max Depth:	1.00 ft	1.00 ft
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	40.00 ft	
FHWA Code:	1	
Entr Loss Coef:	0.50	
Manning's N:	0.0240	0.0240
Exit Loss Coef:	0.95	
Bend Loss Coef:	0.00	
Default:	0.00 ft	0.00 ft
Bend Location:	0.00 dec	
Op Table:		
Energy Switch:	Energy	
Ref Node:		
Manning's N:	0.0240	0.0240

Comment:

Pipe Link: RPL17-B

	Upstream	Downstream
Scenario:	2016 FWCD Update	
Invert:	21.58 ft	21.08 ft
From Node:	NPL17-B	
Manning's N:	0.0240	0.0240
To Node:	NP17B05	
Geometry:	Circular	Circular
Link Count:	12	
Max Depth:	1.00 ft	1.00 ft
Flow Direction:	Both	
Damping:	0.0000 ft	
Default:	0.17 ft	0.17 ft

Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL17-C

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 21.58 ft	Invert: 21.08 ft
From Node: NPL17-C	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP17C01	Geometry: Circular	
Link Count: 16	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL17-D

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 23.08 ft	Invert: 22.58 ft
From Node: NPL17-D	Manning's N: 0.0240	Manning's N: 0.0240

To Node: NP17D05	Geometry: Circular	Geometry: Circular
Link Count: 6	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL17-E	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 22.50 ft	Invert: 22.00 ft
From Node: NPL17-E	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP17E01	Geometry: Circular	Geometry: Circular
Link Count: 8	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL18-A	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 21.08 ft	Invert: 20.58 ft
From Node: NPL18-A	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP18A10	Geometry: Circular	Geometry: Circular
Link Count: 4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
Comment:		

Pipe Link: RPL18-B	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.08 ft	Invert: 19.58 ft
From Node: NPL18-B	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP18B11	Geometry: Circular	Geometry: Circular
Link Count: 9	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL18-C

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.58 ft	Invert: 20.08 ft
From Node: NPL18-C	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP18C11	Geometry: Circular	Geometry: Circular
Link Count: 10	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL18-D1

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 22.50 ft	Invert: 22.00 ft
From Node: NPL18-D	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP18D17	Geometry: Circular	Geometry: Circular
Link Count: 9	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL18-D2

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 23.08 ft	Invert: 22.58 ft
From Node: NPL18-D	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP18D17	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL19-A

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.08 ft	Invert: 19.58 ft
From Node: NPL19-A	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP19A09	Geometry: Circular	Geometry: Circular
Link Count: 3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft

Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL19-B

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.58 ft	Invert: 20.08 ft
From Node: NPL19-B	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP19B09	Geometry: Circular	
Link Count: 3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL19-C

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 21.08 ft	Invert: 20.58 ft
From Node: NPL19-C	Manning's N: 0.0240	Manning's N: 0.0240

To Node: NP19C07	Geometry: Circular	Geometry: Circular
Link Count: 6	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL19-D1	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 22.00 ft	Invert: 21.50 ft
From Node: NPL19-D	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP19E01	Geometry: Circular	Geometry: Circular
Link Count: 5	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:



Pipe Link: RPL19-D2	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 21.58 ft	Invert: 21.08 ft
From Node: NPL19-D	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP19E01	Geometry: Circular	Geometry: Circular
Link Count: 4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
Comment:		

Pipe Link: RPL2-A	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 21.08 ft	Invert: 20.58 ft
From Node: NPL2-A	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP02A15	Geometry: Circular	Geometry: Circular
Link Count: 2	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL2-B

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NPL2-B	
To Node:	NP02B05	
Link Count:	4	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	40.00 ft	
FHWA Code:	4	
Entr Loss Coef:	0.50	
Exit Loss Coef:	0.95	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 22.08 ft	Invert: 21.58 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.00 ft	Max Depth: 1.00 ft
	Bottom Clip	
	Default: 0.17 ft	Default: 0.17 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL2-C

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NPL2-C	
To Node:	NP02C05	
Link Count:	4	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	40.00 ft	
FHWA Code:	4	
Entr Loss Coef:	0.50	
Exit Loss Coef:	0.95	
	Invert: 22.58 ft	Invert: 22.08 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.00 ft	Max Depth: 1.00 ft
	Bottom Clip	
	Default: 0.17 ft	Default: 0.17 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	

Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0240	Manning's N:	0.0240

Comment:

Pipe Link: RPL2-D	Upstream	Downstream
Scenario:	2016 FWCD Update	
	Invert: 25.58 ft	Invert: 25.08 ft
From Node:	NPL2-D	Manning's N: 0.0240
To Node:	NP02D05	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
Link Count:	5	Max Depth: 1.00 ft
	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip
Damping:	0.0000 ft	Default: 0.17 ft
Length:	40.00 ft	Default: 0.17 ft
FHWA Code:	4	Op Table:
Entr Loss Coef:	0.50	Ref Node:
Exit Loss Coef:	0.95	Manning's N: 0.0240
	Manning's N: 0.0240	Manning's N: 0.0240
Bend Loss Coef:	0.00	Top Clip
Bend Location:	0.00 dec	Default: 0.00 ft
Energy Switch:	Energy	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL20-A	Upstream	Downstream
Scenario:	2016 FWCD Update	
	Invert: 19.58 ft	Invert: 19.08 ft
From Node:	NPL20-A	Manning's N: 0.0240
To Node:	NP20A11	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
Link Count:	4	Max Depth: 1.00 ft
	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip
Damping:	0.0000 ft	Default: 0.17 ft
	Default: 0.17 ft	Default: 0.17 ft

Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL20-B	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.58 ft	Invert: 20.08 ft
From Node: NPL20-B	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP20B11	Geometry: Circular	
Link Count: 4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL20-C	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.08 ft	Invert: 19.58 ft
From Node: NPL20-C	Manning's N: 0.0240	Manning's N: 0.0240

To Node:	NP20C11	Geometry: Circular	Geometry: Circular
Link Count:	5	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL20-D1

		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 22.00 ft	Invert: 21.50 ft
From Node:	NPL20-D	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP20E01	Geometry: Circular	Geometry: Circular
Link Count:	6	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL20-D2	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.58 ft	Invert: 20.08 ft
From Node: NPL20-D	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP20E01	Geometry: Circular	Geometry: Circular
Link Count: 3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
Comment:		

Pipe Link: RPL21-A	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.08 ft	Invert: 19.58 ft
From Node: NPL21-A	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP21A11	Geometry: Circular	Geometry: Circular
Link Count: 4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL21-B

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NPL21-B	
To Node:	NP21B13	
Link Count:	5	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	40.00 ft	
FHWA Code:	1	
Entr Loss Coef:	0.50	
Exit Loss Coef:	0.95	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 20.58 ft	Invert: 20.08 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.00 ft	Max Depth: 1.00 ft
	Bottom Clip	
	Default: 0.17 ft	Default: 0.17 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL21-C

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NPL21-C	
To Node:	NP21C15	
Link Count:	5	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	40.00 ft	
FHWA Code:	1	
Entr Loss Coef:	0.50	
Exit Loss Coef:	0.95	
	Invert: 19.58 ft	Invert: 19.08 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.00 ft	Max Depth: 1.00 ft
	Bottom Clip	
	Default: 0.17 ft	Default: 0.17 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL21-D

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 21.58 ft	Invert: 21.08 ft
From Node: NPL21-D	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP21D21	Geometry: Circular	Geometry: Circular
Link Count: 8	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL22-A

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.58 ft	Invert: 19.08 ft
From Node: NPL22-A	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP22A07	Geometry: Circular	Geometry: Circular
Link Count: 5	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft



Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL22-B	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.58 ft	Invert: 19.08 ft
From Node: NPL22-B	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP22B09	Geometry: Circular	
Link Count: 5	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL22-C	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.08 ft	Invert: 18.58 ft
From Node: NPL22-C	Manning's N: 0.0240	Manning's N: 0.0240

To Node:	NP22C11	Geometry: Circular	Geometry: Circular
Link Count:	5	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link:	RPL22-D	Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 21.58 ft	Invert: 21.08 ft
From Node:	NPL22-D	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP22E01	Geometry: Circular	Geometry: Circular
Link Count:	8	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL23-A		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 19.08 ft	Invert: 18.58 ft
From Node:	NPL23-A	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP23A10	Geometry: Circular	Geometry: Circular
Link Count:	5	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240
Comment:			

Pipe Link: RPL23-B		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 19.08 ft	Invert: 18.58 ft
From Node:	NPL23-B	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP23B05	Geometry: Circular	Geometry: Circular
Link Count:	7	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL23-C

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.58 ft	Invert: 17.08 ft
From Node: NPL23-C	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP23C07	Geometry: Circular	Geometry: Circular
Link Count: 6	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL23-D

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.58 ft	Invert: 20.08 ft
From Node: NPL23-D	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP23D17	Geometry: Circular	Geometry: Circular
Link Count: 9	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL24-A

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.08 ft	Invert: 18.58 ft
From Node: NPL24-A	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP24A05	Geometry: Circular	Geometry: Circular
Link Count: 3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.90	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL24-B

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.08 ft	Invert: 17.58 ft
From Node: NPL24-B	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP24B05	Geometry: Circular	Geometry: Circular
Link Count: 2	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft

Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL24-C

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.58 ft	Invert: 16.08 ft
From Node: NPL24-C	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP24C05	Geometry: Circular	
Link Count: 2	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL24-D

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.58 ft	Invert: 20.08 ft
From Node: NPL24-D	Manning's N: 0.0240	Manning's N: 0.0240

To Node:	NP24D10	Geometry: Circular	Geometry: Circular
Link Count:	5	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link:	RPL3-B	Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 22.08 ft	Invert: 21.58 ft
From Node:	NPL3-B	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP03B05	Geometry: Circular	Geometry: Circular
Link Count:	4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL3-C		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 22.08 ft	Invert: 21.58 ft
From Node:	NPL3-C	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP03C01	Geometry: Circular	Geometry: Circular
Link Count:	3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240
Comment:			

Pipe Link: RPL3-D		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 26.08 ft	Invert: 25.58 ft
From Node:	NPL3-D	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP03D05	Geometry: Circular	Geometry: Circular
Link Count:	7	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240



Comment:

Pipe Link: RPL4-B	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 21.58 ft	Invert: 21.08 ft
From Node: NPL4-B	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP04B05	Geometry: Circular	Geometry: Circular
Link Count: 3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL4-C	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 21.58 ft	Invert: 21.08 ft
From Node: NPL4-C	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP04B15	Geometry: Circular	Geometry: Circular
Link Count: 4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL4-D

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 24.58 ft	Invert: 24.08 ft
From Node: NPL4-D	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP04D05	Geometry: Circular	Geometry: Circular
Link Count: 4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL4-E

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 27.08 ft	Invert: 26.58 ft
From Node: NPL4-E	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP04E05	Geometry: Circular	Geometry: Circular
Link Count: 4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft

Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL5-B

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 22.08 ft	Invert: 21.58 ft
From Node: NPL5-B	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP05B05	Geometry: Circular	
Link Count: 4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL5-C

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 21.58 ft	Invert: 21.08 ft
From Node: NPL5-C	Manning's N: 0.0240	Manning's N: 0.0240

To Node:	NP05C01	Geometry: Circular	Geometry: Circular
Link Count:	4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link:	RPL5-D	Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 24.08 ft	Invert: 23.58 ft
From Node:	NPL5-D	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP05D05	Geometry: Circular	Geometry: Circular
Link Count:	4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL5-E		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 27.58 ft	Invert: 27.08 ft
From Node:	NPL5-E	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP05E05	Geometry: Circular	Geometry: Circular
Link Count:	4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240
Comment:			

Pipe Link: RPL6-A		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 20.08 ft	Invert: 19.58 ft
From Node:	NPL6-A	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP06A09	Geometry: Circular	Geometry: Circular
Link Count:	2	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL6-B	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 22.08 ft	Invert: 21.58 ft
From Node: NPL6-B	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP06B05	Geometry: Circular	Geometry: Circular
Link Count: 4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL6-C	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.58 ft	Invert: 20.08 ft
From Node: NPL6-C	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP06C01	Geometry: Circular	Geometry: Circular
Link Count: 4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL6-D

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 22.08 ft	Invert: 21.58 ft
From Node: NPL6-D	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP06D05	Geometry: Circular	Geometry: Circular
Link Count: 4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL6-E

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 27.08 ft	Invert: 26.58 ft
From Node: NPL6-E	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP06E05	Geometry: Circular	Geometry: Circular
Link Count: 4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft

Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL7-A

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.08 ft	Invert: 19.58 ft
From Node: NPL7-A	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP07A10	Geometry: Circular	
Link Count: 5	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL7-B

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.58 ft	Invert: 20.08 ft
From Node: NPL7-B	Manning's N: 0.0240	Manning's N: 0.0240



To Node: NP07B01	Geometry: Circular	Geometry: Circular
Link Count: 4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL7-C

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 21.08 ft	Invert: 20.58 ft
From Node: NPL7-C	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP07C01	Geometry: Circular	Geometry: Circular
Link Count: 4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL7-D		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 21.58 ft	Invert: 21.08 ft
From Node:	NPL7-D	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP07D01	Geometry: Circular	Geometry: Circular
Link Count:	4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240
Comment:			

Pipe Link: RPL7-E		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 26.58 ft	Invert: 26.08 ft
From Node:	NPL7-E	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP07E01	Geometry: Circular	Geometry: Circular
Link Count:	4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL8-A

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NPL8-A	
To Node:	NP08A11	
Link Count:	5	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	40.00 ft	
FHWA Code:	1	
Entr Loss Coef:	0.50	
Exit Loss Coef:	0.95	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 19.58 ft	Invert: 19.08 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.00 ft	Max Depth: 1.00 ft
	Bottom Clip	
	Default: 0.17 ft	Default: 0.17 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL8-B1

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NPL8-B	
To Node:	NP08B05	
Link Count:	3	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	40.00 ft	
FHWA Code:	1	
Entr Loss Coef:	0.50	
Exit Loss Coef:	0.95	
	Invert: 21.08 ft	Invert: 20.58 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.00 ft	Max Depth: 1.00 ft
	Bottom Clip	
	Default: 0.17 ft	Default: 0.17 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	

Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0240	Manning's N:	0.0240

Comment:

Pipe Link: RPL8-B2	Upstream	Downstream	
Scenario:	2016 FWCD Update		
	Invert:	19.08 ft	
	Invert:	18.58 ft	
From Node:	NPL8-B	Manning's N:	
	Manning's N:	0.0240	
To Node:	NP08B05	Manning's N:	
	Manning's N:	0.0240	
Link Count:	2	Geometry:	
	Geometry:	Circular	
Flow Direction:	Both	Geometry:	
	Geometry:	Circular	
Damping:	0.0000 ft	Max Depth:	
	Max Depth:	1.00 ft	
Length:	40.00 ft	Max Depth:	
	Max Depth:	1.00 ft	
FHWA Code:	1	Bottom Clip	
Entr Loss Coef:	0.50	Default:	
	Default:	0.17 ft	
Exit Loss Coef:	0.95	Op Table:	
	Op Table:		
Bend Loss Coef:	0.00	Ref Node:	
	Ref Node:		
Bend Location:	0.00 dec	Manning's N:	
	Manning's N:	0.0240	
Energy Switch:	Energy	Manning's N:	
	Manning's N:	0.0240	
		Top Clip	
		Default:	
		0.00 ft	
		Op Table:	
		Ref Node:	
		Manning's N:	
		0.0240	

Comment:

Pipe Link: RPL8-C	Upstream	Downstream	
Scenario:	2016 FWCD Update		
	Invert:	20.58 ft	
	Invert:	20.08 ft	
From Node:	NPL8-C	Manning's N:	
	Manning's N:	0.0240	
To Node:	NP08C01	Manning's N:	
	Manning's N:	0.0240	
Link Count:	5	Geometry:	
	Geometry:	Circular	
Flow Direction:	Both	Geometry:	
	Geometry:	Circular	
Damping:	0.0000 ft	Max Depth:	
	Max Depth:	1.00 ft	
		Max Depth:	
		1.00 ft	
		Bottom Clip	
		Default:	
		0.17 ft	
		Default:	
		0.17 ft	

Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL8-D

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 21.58 ft	Invert: 21.08 ft
From Node: NPL8-D	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP08D05	Geometry: Circular	
Link Count: 4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL8-E

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 24.00 ft	Invert: 23.50 ft
From Node: NPL8-E	Manning's N: 0.0240	Manning's N: 0.0240

To Node: NP08E05	Geometry: Circular	Geometry: Circular
Link Count: 4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL9-A	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.08 ft	Invert: 18.58 ft
From Node: NPL9-A	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP09A15	Geometry: Circular	Geometry: Circular
Link Count: 4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL9-B1		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 21.08 ft	Invert: 20.58 ft
From Node:	NPL9-B	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP09B05	Geometry: Circular	Geometry: Circular
Link Count:	4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240
Comment:			

Pipe Link: RPL9-B2		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 19.08 ft	Invert: 18.58 ft
From Node:	NPL9-B	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NP09B05	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL9-C	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.58 ft	Invert: 20.08 ft
From Node: NPL9-C	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP09C01	Geometry: Circular	Geometry: Circular
Link Count: 5	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RPL9-D	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 21.08 ft	Invert: 20.58 ft
From Node: NPL9-D	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NP09D01	Geometry: Circular	Geometry: Circular
Link Count: 4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	



Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0240	Manning's N:	0.0240

Comment:

Pipe Link: RPL9-E

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NPL9-E	
To Node:	NP09E05	
Link Count:	4	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	40.00 ft	
FHWA Code:	1	
Entr Loss Coef:	0.50	
Exit Loss Coef:	0.95	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 23.50 ft	Invert: 23.00 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.00 ft	Max Depth: 1.00 ft
	Bottom Clip	
	Default: 0.17 ft	Default: 0.17 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RS10NCUL

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NS10N	
To Node:	NS10	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
	Invert: 21.98 ft	Invert: 21.08 ft
	Manning's N: 0.0120	Manning's N: 0.0120
	Geometry: Circular	Geometry: Circular
	Max Depth: 0.67 ft	Max Depth: 0.67 ft
	Bottom Clip	
	Default: 0.17 ft	Default: 0.17 ft

Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 6	Ref Node:	Ref Node:
Entr Loss Coef: 0.90	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.90	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RS1NCUL	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 22.38 ft	Invert: 20.08 ft
From Node: NS1N	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NS1	Geometry: Circular	
Link Count: 1	Max Depth: 1.25 ft	Max Depth: 1.25 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 10.00 ft	Op Table:	Op Table:
FHWA Code: 5	Ref Node:	Ref Node:
Entr Loss Coef: 0.70	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RS1SCUL	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 22.38 ft	Invert: 20.08 ft
From Node: NS1S	Manning's N: 0.0120	Manning's N: 0.0120

To Node:	NS1	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.33 ft	Default: 0.33 ft
Length:	20.00 ft	Op Table:	Op Table:
FHWA Code:	5	Ref Node:	Ref Node:
Entr Loss Coef:	0.70	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RS2NCUL

		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 22.98 ft	Invert: 21.98 ft
From Node:	NS2N	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	NS2	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length:	12.00 ft	Op Table:	Op Table:
FHWA Code:	5	Ref Node:	Ref Node:
Entr Loss Coef:	0.70	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RS2SCUL	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 22.98 ft	Invert: 21.98 ft
From Node: NS2S	Manning's N: 0.0122	Manning's N: 0.0122
To Node: NSL8	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 15.00 ft	Op Table:	Op Table:
FHWA Code: 5	Ref Node:	Ref Node:
Entr Loss Coef: 0.70	Manning's N: 0.0122	Manning's N: 0.0122
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0122	Manning's N: 0.0122
Comment:		

Pipe Link: RS3NCUL	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 21.98 ft	Invert: 19.98 ft
From Node: NS3N	Manning's N: 0.0220	Manning's N: 0.0220
To Node: NS3	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 6	Ref Node:	Ref Node:
Entr Loss Coef: 0.90	Manning's N: 0.0220	Manning's N: 0.0220
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0220	Manning's N: 0.0220

Comment:

Pipe Link: RS3SCUL	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 23.18 ft	Invert: 22.18 ft
From Node: NS3S	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NSL7	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 15.00 ft	Op Table:	Op Table:
FHWA Code: 5	Ref Node:	Ref Node:
Entr Loss Coef: 0.70	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RS4NCUL	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 21.68 ft	Invert: 18.58 ft
From Node: NS4N	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NSDIV	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 54.00 ft	Op Table:	Op Table:
FHWA Code: 6	Ref Node:	Ref Node:
Entr Loss Coef: 0.90	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RS4SCUL	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 22.88 ft	Invert: 21.88 ft
From Node: NS4S	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NSL6	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.00 ft	Max Depth: 2.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 15.00 ft	Op Table:	Op Table:
FHWA Code: 5	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RS5NCUL	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 22.88 ft	Invert: 20.98 ft
From Node: NS5N	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NS5	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft

Length: 14.00 ft	Op Table:	Op Table:
FHWA Code: 5	Ref Node:	Ref Node:
Entr Loss Coef: 0.70	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RS5SCUL

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 22.88 ft	Invert: 21.88 ft
From Node: NS5S	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NSL4	Geometry: Circular	
Link Count: 1	Max Depth: 1.00 ft	Max Depth: 2.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 15.00 ft	Op Table:	Op Table:
FHWA Code: 5	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Drop Structure Link: RS6NCULA

	Upstream Pipe	Downstream Pipe
Scenario: 2016 FWCD Update	Invert: 21.08 ft	Invert: 20.98 ft
From Node: NS6N	Manning's N: 0.0120	Manning's N: 0.0120

To Node:	NS6	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 1.25 ft	Max Depth: 1.25 ft
Flow Direction:	Both	Bottom Clip	
Solution:	Combine	Default: 0.00 ft	Default: 0.00 ft
Increments:	10	Op Table:	Op Table:
Pipe Count:	1	Ref Node:	Ref Node:
Damping:	0.0000 ft	Manning's N: 0.0120	Manning's N: 0.0120
Length:	14.00 ft	Top Clip	
FHWA Code:	1	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef:	0.40	Op Table:	Op Table:
Exit Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Loss Coef:	0.00	Manning's N: 0.0120	Manning's N: 0.0120
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Pipe Comment:

Weir Component			
Weir:	1	Bottom Clip	
Weir Count:	1	Default: 0.00 ft	
Weir Flow Direction:	Both	Op Table:	
Damping:	0.0000 ft	Ref Node:	
Weir Type:	Sharp Crested Vertical	Top Clip	
Geometry Type:	Rectangular	Default: 0.00 ft	
Invert:	22.58 ft	Op Table:	
Control Elevation:	22.58 ft	Ref Node:	
Max Depth:	0.50 ft	Discharge Coefficients	
Max Width:	1.00 ft	Weir Default: 3.200	
Fillet:	0.00 ft	Weir Table:	
		Orifice Default: 0.600	
		Orifice Table:	

Weir Comment:

Weir Component	
Weir:	2
Weir Count:	1
	Bottom Clip
	Default: 0.00 ft



Weir Flow Direction: Both Damping: 0.0000 ft Weir Type: Horizontal Geometry Type: Rectangular Invert: 23.08 ft Control Elevation: 23.08 ft Max Depth: 8.25 ft Max Width: 10.00 ft Fillet: 0.00 ft	Op Table: Ref Node: Top Clip Default: 0.00 ft Op Table: Ref Node: Discharge Coefficients Weir Default: 3.200 Weir Table: Orifice Default: 0.600 Orifice Table:
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Weir Comment:

Drop Structure Comment:

Pipe Link: RS6NCULB	Upstream	Downstream
Scenario: 2016 FWCD Update From Node: NS6N To Node: NS10 Link Count: 1 Flow Direction: Both Damping: 0.0000 ft Length: 24.00 ft FHWA Code: 6 Entr Loss Coef: 0.90 Exit Loss Coef: 0.90 Bend Loss Coef: 0.00 Bend Location: 0.00 dec Energy Switch: Energy	Invert: 21.58 ft Manning's N: 0.0220 Geometry: Circular Max Depth: 1.00 ft Bottom Clip Default: 0.17 ft Op Table: Ref Node: Manning's N: 0.0220 Top Clip Default: 0.00 ft Op Table: Ref Node: Manning's N: 0.0220	Invert: 20.58 ft Manning's N: 0.0220 Geometry: Circular Max Depth: 1.00 ft Bottom Clip Default: 0.17 ft Op Table: Ref Node: Manning's N: 0.0220 Top Clip Default: 0.00 ft Op Table: Ref Node: Manning's N: 0.0220

Comment:

Pipe Link: RS6SCUL	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 22.98 ft	Invert: 21.98 ft
From Node: NS6S	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NSL3	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 15.00 ft	Op Table:	Op Table:
FHWA Code: 5	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120
Comment:		

Pipe Link: RS7SCUL	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 23.08 ft	Invert: 22.08 ft
From Node: NS7S	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NSL2	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 15.00 ft	Op Table:	Op Table:
FHWA Code: 5	Ref Node:	Ref Node:
Entr Loss Coef: 0.70	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RS8SCUL

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NS8S	NS8S
To Node:	NSL1	NSL1
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	15.00 ft	15.00 ft
FHWA Code:	5	5
Entr Loss Coef:	0.70	0.70
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 23.08 ft	Invert: 22.08 ft
	Manning's N: 0.0120	Manning's N: 0.0120
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.00 ft	Max Depth: 1.00 ft
	Bottom Clip	
	Default: 0.17 ft	Default: 0.17 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Channel Link: RSCH10N

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NS10N	NS10N
To Node:	NS10	NS10
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	20.00 ft	20.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
Entr Loss Coef:	0.00	0.00
	Invert: 24.38 ft	Invert: 23.58 ft
	Manning's N: 0.0600	Manning's N: 0.0600
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9974.62 ft	Max Depth: 9975.42 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 10.00 ft	Bottom Width: 10.00 ft
	Left Slope: 10.000 (h:v)	Left Slope: 10.000 (h:v)
	Right Slope: 10.000 (h:v)	Right Slope: 10.000 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0600	Manning's N: 0.0600
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0600	Manning's N: 0.0600

Comment:

Channel Link: RSCH6

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.98 ft	Invert: 19.68 ft
From Node: NS11	Manning's N: 0.0600	Manning's N: 0.0600
To Node: NS10A	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9979.02 ft	Max Depth: 9979.32 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.20 ft	Bottom Width: 8.20 ft
Length: 370.00 ft	Left Slope: 1.100 (h:v)	Left Slope: 1.100 (h:v)
Contraction Coef: 0.00	Right Slope: 1.200 (h:v)	Right Slope: 1.200 (h:v)

Bottom Clip

Expansion Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.00	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0600	Manning's N: 0.0600
Bend Location: 0.00 dec	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0600	Manning's N: 0.0600

Comment:

Channel Link: RSCH6A		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 19.68 ft	Invert: 19.08 ft
From Node:	NS10A	Manning's N: 0.0600	Manning's N: 0.0600
To Node:	NS10	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9979.32 ft	Max Depth: 9979.92 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.20 ft	Bottom Width: 8.20 ft
Length:	300.00 ft	Left Slope: 1.100 (h:v)	Left Slope: 1.100 (h:v)
Contraction Coef:	0.00	Right Slope: 1.200 (h:v)	Right Slope: 1.200 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0600	Manning's N: 0.0600
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0600	Manning's N: 0.0600
Comment:			

Channel Link: RSCH7		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 21.08 ft	Invert: 18.68 ft
From Node:	NS13	Manning's N: 0.0600	Manning's N: 0.0600
To Node:	NS12	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9977.92 ft	Max Depth: 9980.32 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.80 ft	Bottom Width: 8.80 ft
Length:	678.00 ft	Left Slope: 1.700 (h:v)	Left Slope: 1.700 (h:v)
Contraction Coef:	0.00	Right Slope: 1.700 (h:v)	Right Slope: 1.700 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0600	Manning's N: 0.0600
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0600	Manning's N: 0.0600

Comment:

Channel Link: RSCH8

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 22.08 ft	Invert: 21.08 ft
From Node: NS14	Manning's N: 0.0600	Manning's N: 0.0600
To Node: NS13	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9976.92 ft	Max Depth: 9977.92 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 9.50 ft	Bottom Width: 9.50 ft
Length: 673.00 ft	Left Slope: 1.800 (h:v)	Left Slope: 1.800 (h:v)
Contraction Coef: 0.00	Right Slope: 1.800 (h:v)	Right Slope: 1.800 (h:v)

Bottom Clip

Expansion Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.00	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0600	Manning's N: 0.0600
Bend Location: 0.00 dec		
Energy Switch: Energy		

Top Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0600	Manning's N: 0.0600

Comment:

Channel Link: RSCH9		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 23.08 ft	Invert: 22.08 ft
From Node:	NS15	Manning's N: 0.1000	Manning's N: 0.1000
To Node:	NS14	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9975.92 ft	Max Depth: 9976.92 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	983.00 ft	Left Slope: 2.000 (h:v)	Left Slope: 2.000 (h:v)
Contraction Coef:	0.00	Right Slope: 2.000 (h:v)	Right Slope: 2.000 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.1000	Manning's N: 0.1000
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.1000	Manning's N: 0.1000

Comment:

Pipe Link: RSCUL1		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.68 ft	Invert: 18.58 ft
From Node:	NS2	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	NS1	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	200.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RSCUL2

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.78 ft	Invert: 18.68 ft
From Node: NS3	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NS2	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 232.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RSCUL3

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.88 ft	Invert: 18.78 ft
From Node: NS4	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NS3	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft



Length: 160.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RSCUL4	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.93 ft	Invert: 18.88 ft
From Node: NS5	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NS4	Geometry: Circular	
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 264.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RSCUL5	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.03 ft	Invert: 18.93 ft
From Node: NS6	Manning's N: 0.0120	Manning's N: 0.0120

To Node:	NS5	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	248.00 ft	Op Table:	Op Table:
FHWA Code:	1	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RSCUL6

		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 19.08 ft	Invert: 19.03 ft
From Node:	NS10	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	NS6	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	192.00 ft	Op Table:	Op Table:
FHWA Code:	50	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RSCUL7	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.68 ft	Invert: 18.58 ft
From Node: NS12	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NS11	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 32.00 ft	Op Table:	Op Table:
FHWA Code: 3	Ref Node:	Ref Node:
Entr Loss Coef: 0.25	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120
Comment:		

Pipe Link: RSD4	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 20.78 ft	Invert: 19.58 ft
From Node: NSDIVOUT	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NS4	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.25 ft	Default: 0.25 ft
Length: 12.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RSDIV

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NSDIV	
To Node:	NSL5	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	24.00 ft	
FHWA Code:	1	
Entr Loss Coef:	0.50	
Exit Loss Coef:	0.95	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 17.08 ft	Invert: 16.08 ft
	Manning's N: 0.0120	Manning's N: 0.0120
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.50 ft	Max Depth: 1.50 ft
	Bottom Clip	
	Default: 0.25 ft	Default: 0.25 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Weir Link: RSDIVW

Scenario:	2016 FWCD Update	
From Node:	NSDIV	
To Node:	NSDIVOUT	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Weir Type:	Sharp Crested Vertical	
Geometry Type:	Rectangular	
Invert:	21.33 ft	
Control Elevation:	21.33 ft	
	Bottom Clip	
	Default: 0.00 ft	
	Op Table:	
	Ref Node:	
	Top Clip	
	Default: 0.00 ft	
	Op Table:	
	Ref Node:	
	Discharge Coefficients	
	Weir Default: 3.200	

Max Depth: 1.25 ft  
 Max Width: 3.00 ft  
 Fillet: 0.00 ft

Weir Table:  
 Orifice Default: 0.600  
 Orifice Table:

Comment:

Weir Link: RSDIVWA

Scenario: 2016 FWCD Update  
 From Node: NSDIV  
 To Node: NSDIVOUT  
 Link Count: 1  
 Flow Direction: Both  
 Damping: 0.0000 ft  
 Weir Type: Horizontal  
 Geometry Type: Rectangular  
 Invert: 22.58 ft  
 Control Elevation: 22.58 ft  
 Max Depth: 2.00 ft  
 Max Width: 3.00 ft  
 Fillet: 0.00 ft

Bottom Clip  
 Default: 0.00 ft  
 Op Table:  
 Ref Node:

Top Clip  
 Default: 0.00 ft  
 Op Table:  
 Ref Node:

Discharge Coefficients  
 Weir Default: 3.200  
 Weir Table:  
 Orifice Default: 0.600  
 Orifice Table:

Comment:

Pipe Link: RSLCUL1

Scenario: 2016 FWCD Update  
 From Node: NSL1  
 To Node: NLAKE  
 Link Count: 1  
 Flow Direction: Both  
 Damping: 0.0000 ft  
 Length: 112.00 ft

Upstream  
 Invert: 18.08 ft  
 Manning's N: 0.0120  
 Geometry: Circular  
 Max Depth: 2.00 ft

Downstream  
 Invert: 15.83 ft  
 Manning's N: 0.0120  
 Geometry: Circular  
 Max Depth: 2.00 ft

Bottom Clip  
 Default: 0.33 ft  
 Op Table:

Bottom Clip  
 Default: 0.33 ft  
 Op Table:

FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RSLCUL2

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.58 ft	Invert: 18.08 ft
From Node: NSL2	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NSL1	Geometry: Circular	
Link Count: 1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.33 ft	Default: 0.33 ft
Length: 224.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RSLCUL3

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.08 ft	Invert: 18.58 ft
From Node: NSL3	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NSL2	Geometry: Circular	

Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000	Default:	0.33 ft	Default:	0.33 ft
Length:	200.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0120	Manning's N:	0.0120
Exit Loss Coef:	0.95	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0120	Manning's N:	0.0120

Comment:

Pipe Link:	RSLCUL4	Upstream		Downstream	
Scenario:	2016 FWCD Update	Invert:	19.58 ft	Invert:	19.08 ft
From Node:	NSL4	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	NSL3	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000	Default:	0.33 ft	Default:	0.33 ft
Length:	152.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0120	Manning's N:	0.0120
Exit Loss Coef:	0.95	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0120	Manning's N:	0.0120

Comment:

Pipe Link: RSLCUL5	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.48 ft	Invert: 17.08 ft
From Node: NSL5	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NSL4	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.33 ft	Default: 0.33 ft
Length: 128.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120
Comment:		

Pipe Link: RSLCUL6	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.58 ft	Invert: 17.48 ft
From Node: NSL6	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NSL5	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.25 ft	Max Depth: 1.25 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 8.00 ft	Op Table:	Op Table:
FHWA Code: 1	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120



Comment:

Pipe Link: RSLCUL7

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NSL7	NSL6
To Node:	NSL6	NSL7
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	136.00 ft	136.00 ft
FHWA Code:	1	1
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 21.38 ft	Invert: 21.08 ft
	Manning's N: 0.0120	Manning's N: 0.0120
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.25 ft	Max Depth: 1.25 ft
	Bottom Clip	
	Default: 0.17 ft	Default: 0.17 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RSLCUL8

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NSL8	NSL7
To Node:	NSL7	NSL8
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	96.00 ft	96.00 ft
FHWA Code:	1	1
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
	Invert: 21.58 ft	Invert: 21.38 ft
	Manning's N: 0.0120	Manning's N: 0.0120
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.25 ft	Max Depth: 1.25 ft
	Bottom Clip	
	Default: 0.17 ft	Default: 0.17 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120
	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Pipe Link: RSOUT

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.38 ft	Invert: 19.38 ft
From Node: NS1	Manning's N: 0.0220	Manning's N: 0.0220
To Node: NP13aD01	Geometry: Horizontal Ellipse	Geometry: Horizontal Ellipse
Link Count: 1	Max Depth: 3.17 ft	Max Depth: 3.17 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 37.00 ft	Op Table:	Op Table:
FHWA Code: 30	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0220	Manning's N: 0.0220
Exit Loss Coef: 0.40	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0220	Manning's N: 0.0220

Comment:

Channel Link: RU-10

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 6.88 ft	Invert: 6.58 ft
From Node: NU-10	Manning's N: 0.0500	Manning's N: 0.0500
To Node: NF-90	Geometry: Irregular	Geometry: Irregular
Link Count: 1	Cross Section: RU-17'	Cross Section: RU-17'
Flow Direction: Both		
Damping: 0.0000 ft		

Length: 1320.00 ft  
 Contraction Coef: 0.10  
 Expansion Coef: 0.30  
 Entr Loss Coef: 0.00  
 Exit Loss Coef: 0.00  
 Bend Loss Coef: 0.00  
 Bend Location: 0.00 dec  
 Energy Switch: Energy

Comment:

Channel Link: RU-100	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 7.58 ft	Invert: 7.58 ft
From Node: NU-100	Manning's N: 0.0500	Manning's N: 0.0500
To Node: NU-90	Geometry: Irregular	Geometry: Irregular
Link Count: 1	Cross Section: RU20'	Cross Section: RU20'
Flow Direction: Both		
Damping: 0.0000 ft		
Length: 1320.00 ft		
Contraction Coef: 0.10		
Expansion Coef: 0.30		
Entr Loss Coef: 0.00		
Exit Loss Coef: 0.00		
Bend Loss Coef: 0.00		
Bend Location: 0.00 dec		
Energy Switch: Energy		

Comment:

Drop Structure Link: RU-10A	Upstream Pipe	Downstream Pipe
Scenario: 2016 FWCD Update	Invert: 14.58 ft	Invert: 14.58 ft
From Node: NU-10A	Manning's N: 0.0240	Manning's N: 0.0240

To Node: NU-10	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction: Both	Bottom Clip	
Solution: Combine	Default: 0.00 ft	Default: 0.00 ft
Increments: 10	Op Table:	Op Table:
Pipe Count: 1	Ref Node:	Ref Node:
Damping: 0.0000 ft	Manning's N: 0.0240	Manning's N: 0.0240
Length: 40.00 ft	Top Clip	
FHWA Code: 4	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.50	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0240	Manning's N: 0.0240
Bend Location: 0.00 dec		
Energy Switch: Energy		

Pipe Comment:

Weir Component		
Weir: 1	Bottom Clip	
Weir Count: 1	Default: 0.00 ft	
Weir Flow Direction: Both	Op Table:	
Damping: 0.0000 ft	Ref Node:	
Weir Type: Sharp Crested Vertical	Top Clip	
Geometry Type: Rectangular	Default: 0.00 ft	
Invert: 15.58 ft	Op Table:	
Control Elevation: 15.58 ft	Ref Node:	
Max Depth: 999.00 ft	Discharge Coefficients	
Max Width: 4.00 ft	Weir Default: 3.200	
Fillet: 0.00 ft	Weir Table:	
	Orifice Default: 0.600	
	Orifice Table:	

Weir Comment:

Drop Structure Comment:

Channel Link: RU-10B		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 15.58 ft	Invert: 14.58 ft
From Node:	NI-10W	Manning's N: 0.0500	Manning's N: 0.0500
To Node:	NU-10A	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9983.42 ft	Max Depth: 9984.42 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 4.00 ft	Bottom Width: 4.00 ft
Length:	5300.00 ft	Left Slope: 1.000 (h:v)	Left Slope: 1.000 (h:v)
Contraction Coef:	0.00	Right Slope: 1.000 (h:v)	Right Slope: 1.000 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0500	Manning's N: 0.0500
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0500	Manning's N: 0.0500

Comment:

Rating Curve Link: RU-10S	
Scenario:	2016 FWCD Update
From Node:	NU-10S
To Node:	NU-10
Link Count:	1
Flow Direction:	Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
RU-10S	0.00	NU-10S	0.00	NU-10S

Comment:

Channel Link: RU-110	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 7.58 ft	Invert: 7.58 ft
From Node: NU-110	Manning's N: 0.0500	Manning's N: 0.0500
To Node: NU-100	Geometry: Irregular	Geometry: Irregular
Link Count: 1	Cross Section: RU20'	Cross Section: RU20'
Flow Direction: Both		
Damping: 0.0000 ft		
Length: 1320.00 ft		
Contraction Coef: 0.10		
Expansion Coef: 0.30		
Entr Loss Coef: 0.00		
Exit Loss Coef: 0.00		
Bend Loss Coef: 0.00		
Bend Location: 0.00 dec		
Energy Switch: Energy		

Comment:

Channel Link: RU-120	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 7.58 ft	Invert: 7.58 ft
From Node: NU-120	Manning's N: 0.0500	Manning's N: 0.0500
To Node: NU-110	Geometry: Irregular	Geometry: Irregular
Link Count: 1	Cross Section: RU20'	Cross Section: RU20'
Flow Direction: Both		
Damping: 0.0000 ft		
Length: 1320.00 ft		
Contraction Coef: 0.10		
Expansion Coef: 0.30		
Entr Loss Coef: 0.00		
Exit Loss Coef: 0.00		
Bend Loss Coef: 0.00		
Bend Location: 0.00 dec		
Energy Switch: Energy		

Comment:

Channel Link: RU-130

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU-130	NU-120
To Node:	NU-120	NU-130
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	1320.00 ft	1320.00 ft
Contraction Coef:	0.10	0.10
Expansion Coef:	0.30	0.30
Entr Loss Coef:	0.00	0.00
Exit Loss Coef:	0.00	0.00
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 7.58 ft	Invert: 7.58 ft
	Manning's N: 0.0500	Manning's N: 0.0500
	Geometry: Irregular	Geometry: Irregular
	Cross Section: RU20'	Cross Section: RU20'

Comment:

Channel Link: RU-140

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU-140	NU-130
To Node:	NU-130	NU-140
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	1320.00 ft	1320.00 ft
Contraction Coef:	0.10	0.10
Expansion Coef:	0.30	0.30
Entr Loss Coef:	0.00	0.00
	Invert: 7.58 ft	Invert: 7.58 ft
	Manning's N: 0.0500	Manning's N: 0.0500
	Geometry: Irregular	Geometry: Irregular
	Cross Section: RU20'	Cross Section: RU20'

Exit Loss Coef: 0.00  
 Bend Loss Coef: 0.00  
 Bend Location: 0.00 dec  
 Energy Switch: Energy

Comment:

Channel Link: RU-150		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 7.58 ft	Invert: 7.58 ft
From Node:	NU-150	Manning's N: 0.0500	Manning's N: 0.0500
To Node:	NU-140	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: RU20'	Cross Section: RU20'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	1320.00 ft		
Contraction Coef:	0.10		
Expansion Coef:	0.30		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: RU-160		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 7.58 ft	Invert: 7.58 ft
From Node:	NU-160	Manning's N: 0.0500	Manning's N: 0.0500
To Node:	NU-150	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: RU20'	Cross Section: RU20'
Flow Direction:	Both		
Damping:	0.0000 ft		



Length: 1320.00 ft  
 Contraction Coef: 0.10  
 Expansion Coef: 0.30  
 Entr Loss Coef: 0.00  
 Exit Loss Coef: 0.00  
 Bend Loss Coef: 0.00  
 Bend Location: 0.00 dec  
 Energy Switch: Energy

Comment:

Channel Link: RU-170	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 7.58 ft	Invert: 7.58 ft
From Node: NU-170	Manning's N: 0.0500	Manning's N: 0.0500
To Node: NU-160	Geometry: Irregular	Geometry: Irregular
Link Count: 1	Cross Section: RU20'	Cross Section: RU20'
Flow Direction: Both		
Damping: 0.0000 ft		
Length: 1320.00 ft		
Contraction Coef: 0.10		
Expansion Coef: 0.30		
Entr Loss Coef: 0.00		
Exit Loss Coef: 0.00		
Bend Loss Coef: 0.00		
Bend Location: 0.00 dec		
Energy Switch: Energy		

Comment:

Channel Link: RU-180	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 7.58 ft	Invert: 7.58 ft
From Node: NU-180	Manning's N: 0.0500	Manning's N: 0.0500

To Node:	NU-170	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: RU20'	Cross Section: RU20'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	1320.00 ft		
Contraction Coef:	0.10		
Expansion Coef:	0.30		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: RU-190	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 7.58 ft	Invert: 7.58 ft
From Node: NU-190	Manning's N: 0.0500	Manning's N: 0.0500
To Node: NU-180	Geometry: Irregular	Geometry: Irregular
Link Count: 1	Cross Section: RU20'	Cross Section: RU20'
Flow Direction: Both		
Damping: 0.0000 ft		
Length: 1320.00 ft		
Contraction Coef: 0.10		
Expansion Coef: 0.30		
Entr Loss Coef: 0.00		
Exit Loss Coef: 0.00		
Bend Loss Coef: 0.00		
Bend Location: 0.00 dec		
Energy Switch: Energy		

Comment:

Channel Link: RU-20	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 7.18 ft	Invert: 6.88 ft
From Node: NU-20	Manning's N: 0.0500	Manning's N: 0.0500
To Node: NU-10	Geometry: Irregular	Geometry: Irregular
Link Count: 1	Cross Section: RU20'	Cross Section: RU20'
Flow Direction: Both		
Damping: 0.0000 ft		
Length: 1320.00 ft		
Contraction Coef: 0.10		
Expansion Coef: 0.30		
Entr Loss Coef: 0.00		
Exit Loss Coef: 0.00		
Bend Loss Coef: 0.00		
Bend Location: 0.00 dec		
Energy Switch: Energy		

Comment:

Channel Link: RU-200	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 7.58 ft	Invert: 7.58 ft
From Node: NU-200	Manning's N: 0.0500	Manning's N: 0.0500
To Node: NU-190	Geometry: Irregular	Geometry: Irregular
Link Count: 1	Cross Section: RU20'	Cross Section: RU20'
Flow Direction: Both		
Damping: 0.0000 ft		
Length: 1320.00 ft		
Contraction Coef: 0.10		
Expansion Coef: 0.30		
Entr Loss Coef: 0.00		
Exit Loss Coef: 0.00		
Bend Loss Coef: 0.00		
Bend Location: 0.00 dec		
Energy Switch: Energy		

Comment:

Pipe Link: RU-205

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU-205	NU-200
To Node:	NU-200	NU-200
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	75.00 ft	75.00 ft
FHWA Code:	6	6
Entr Loss Coef:	0.90	0.90
Exit Loss Coef:	0.00	0.00
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 12.61 ft	Invert: 11.82 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 4.50 ft	Max Depth: 4.50 ft
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Drop Structure Link: RU-20A

	Upstream Pipe	Downstream Pipe
Scenario:	2016 FWCD Update	
From Node:	NU-20A	NU-20
To Node:	NU-20	NU-20
Link Count:	1	1
Flow Direction:	Both	Both
Solution:	Combine	Combine
Increments:	10	10
Pipe Count:	1	1
Damping:	0.0000 ft	0.0000 ft
Length:	40.00 ft	40.00 ft
	Invert: 14.58 ft	Invert: 14.58 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 2.00 ft	Max Depth: 2.00 ft
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	

FHWA Code: 4	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.50	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0240	Manning's N: 0.0240
Bend Location: 0.00 dec		
Energy Switch: Energy		

Pipe Comment:

Weir Component

Weir: 1	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 15.58 ft	Op Table:
Control Elevation: 15.58 ft	Ref Node:
Max Depth: 999.00 ft	Discharge Coefficients
Max Width: 4.00 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Drop Structure Comment:

Channel Link: RU-20B	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.08 ft	Invert: 14.58 ft
From Node: NU-20B	Manning's N: 0.0500	Manning's N: 0.0700
To Node: NU-20A	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9983.92 ft	Max Depth: 9984.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal

Damping: 0.0000 ft	Bottom Width: 4.00 ft	Bottom Width: 4.00 ft
Length: 3300.00 ft	Left Slope: 1.000 (h:v)	Left Slope: 1.000 (h:v)
Contraction Coef: 0.00	Right Slope: 1.000 (h:v)	Right Slope: 1.000 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0500	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0500	Manning's N: 0.0700

Comment:

Channel Link: RU-20C

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.58 ft	Invert: 15.08 ft
From Node: NI-20W	Manning's N: 0.0500	Manning's N: 0.0700
To Node: NU-20B	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9983.42 ft	Max Depth: 9983.92 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 4.00 ft	Bottom Width: 4.00 ft
Length: 1400.00 ft	Left Slope: 1.000 (h:v)	Left Slope: 1.000 (h:v)
Contraction Coef: 0.00	Right Slope: 1.000 (h:v)	Right Slope: 1.000 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0500	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:

Ref Node: Ref Node:  
 Manning's N: 0.0500 Manning's N: 0.0700

Comment:

Pipe Link: RU-20M1	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.58 ft	Invert: 16.58 ft
From Node: NU-20M1	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU-20B	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction: Positive	Bottom Clip	
Damping: 0.0000 ft	Default: 0.25 ft	Default: 0.25 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment: CULVERT TO WETLAND #2

Pipe Link: RU-20M2	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.58 ft	Invert: 16.58 ft
From Node: NU-20M2	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU-20B	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction: Positive	Bottom Clip	
Damping: 0.0000 ft	Default: 0.25 ft	Default: 0.25 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:

Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment: CULVERT TO WETLAND #3

Channel Link: RU-230

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 7.70 ft	Invert: 7.70 ft
From Node: NU-230	Manning's N: 0.0500	Manning's N: 0.0500
To Node: NU-205	Geometry: Irregular	
Link Count: 1	Cross Section: FJV-LATU	Cross Section: FJV-LATU
Flow Direction: Both		
Damping: 0.0000 ft		
Length: 3860.00 ft		
Contraction Coef: 0.10		
Expansion Coef: 0.30		
Entr Loss Coef: 0.00		
Exit Loss Coef: 0.00		
Bend Loss Coef: 0.00		
Bend Location: 0.00 dec		
Energy Switch: Energy		

Comment:

Channel Link: RU-235

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 7.70 ft	Invert: 7.70 ft
From Node: NU-235	Manning's N: 0.0500	Manning's N: 0.0500
To Node: NU-230	Geometry: Irregular	
Link Count: 1	Cross Section: FJV-LATU	Cross Section: FJV-LATU



Flow Direction: Both  
 Damping: 0.0000 ft  
 Length: 1200.00 ft  
 Contraction Coef: 0.10  
 Expansion Coef: 0.30  
 Entr Loss Coef: 0.00  
 Exit Loss Coef: 0.00  
 Bend Loss Coef: 0.00  
 Bend Location: 0.00 dec  
 Energy Switch: Energy

Comment:

Channel Link: RU-30	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 7.58 ft	Invert: 7.18 ft
From Node: NU-30	Manning's N: 0.0500	Manning's N: 0.0500
To Node: NU-20	Geometry: Irregular	Geometry: Irregular
Link Count: 1	Cross Section: RU20'	Cross Section: RU20'
Flow Direction: Both		
Damping: 0.0000 ft		
Length: 1320.00 ft		
Contraction Coef: 0.10		
Expansion Coef: 0.30		
Entr Loss Coef: 0.00		
Exit Loss Coef: 0.00		
Bend Loss Coef: 0.00		
Bend Location: 0.00 dec		
Energy Switch: Energy		

Comment:

Drop Structure Link: RU-30A	Upstream Pipe	Downstream Pipe
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Scenario:	2016 FWCD Update	Invert:	13.58 ft	Invert:	13.58 ft
From Node:	NU-30A	Manning's N:	0.0240	Manning's N:	0.0240
To Node:	NU-30	Geometry:	Circular	Geometry:	Circular
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	10	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0000 ft	Manning's N:	0.0240	Manning's N:	0.0240
Length:	40.00 ft	Top Clip			
FHWA Code:	4	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0240	Manning's N:	0.0240
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component

Weir:	1	Bottom Clip			
Weir Count:	1	Default:	0.00 ft		
Weir Flow Direction:	Both	Op Table:			
Damping:	0.0000 ft	Ref Node:			
Weir Type:	Sharp Crested Vertical	Top Clip			
Geometry Type:	Rectangular	Default:	0.00 ft		
Invert:	14.58 ft	Op Table:			
Control Elevation:	14.58 ft	Ref Node:			
Max Depth:	999.00 ft	Discharge Coefficients			
Max Width:	4.00 ft	Weir Default:	3.200		
Fillet:	0.00 ft	Weir Table:			
		Orifice Default:	0.600		
		Orifice Table:			

Weir Comment:

Drop Structure Comment:

Channel Link: RU-30B		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 14.58 ft	Invert: 13.58 ft
From Node:	NI-30W	Manning's N: 0.0500	Manning's N: 0.0700
To Node:	NU-30A	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9984.42 ft	Max Depth: 9985.42 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 4.00 ft	Bottom Width: 4.00 ft
Length:	4700.00 ft	Left Slope: 1.000 (h:v)	Left Slope: 1.000 (h:v)
Contraction Coef:	0.00	Right Slope: 1.000 (h:v)	Right Slope: 1.000 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0500	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0500	Manning's N: 0.0700

Comment:

Rating Curve Link: RU-30S

Scenario: 2016 FWCD Update  
 From Node: NU-30S  
 To Node: NU-30  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
RU-30S	0.00	NU-30S	0.00	NU-30S

Comment:

Channel Link: RU-40		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 7.58 ft	Invert: 7.58 ft
From Node:	NU-40	Manning's N: 0.0500	Manning's N: 0.0500
To Node:	NU-30	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: RU20'	Cross Section: RU20'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	1320.00 ft		
Contraction Coef:	0.10		
Expansion Coef:	0.30		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Drop Structure Link: RU-40A		Upstream Pipe	Downstream Pipe
Scenario:	2016 FWCD Update	Invert: 13.58 ft	Invert: 13.58 ft
From Node:	NU-40A	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NU-40	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction:	Both	Bottom Clip	
Solution:	Combine	Default: 0.00 ft	Default: 0.00 ft
Increments:	10	Op Table:	Op Table:
Pipe Count:	1	Ref Node:	Ref Node:
Damping:	0.0000 ft	Manning's N: 0.0240	Manning's N: 0.0240
Length:	40.00 ft	Top Clip	
FHWA Code:	4	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef:	0.50	Op Table:	Op Table:
Exit Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Loss Coef:	0.00	Manning's N: 0.0240	Manning's N: 0.0240

Bend Location: 0.00 dec

Energy Switch: Energy

Pipe Comment:

Weir Component	
Weir: 1	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 14.58 ft	Op Table:
Control Elevation: 14.58 ft	Ref Node:
Max Depth: 999.00 ft	Discharge Coefficients
Max Width: 4.00 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Drop Structure Comment:

Channel Link: RU-40B	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 13.58 ft	Invert: 13.58 ft
From Node: NI-40W	Manning's N: 0.0500	Manning's N: 0.0500
To Node: NU-40A	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9985.42 ft	Max Depth: 9985.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 4.00 ft	Bottom Width: 4.00 ft
Length: 4700.00 ft	Left Slope: 1.000 (h:v)	Left Slope: 1.000 (h:v)
Contraction Coef: 0.00	Right Slope: 1.000 (h:v)	Right Slope: 1.000 (h:v)
Expansion Coef: 0.00	Bottom Clip	

Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0500	Manning's N: 0.0500
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0500	Manning's N: 0.0500

Comment:

Channel Link: RU-50

Scenario: 2016 FWCD Update  
 From Node: NU-50  
 To Node: NU-40  
 Link Count: 1  
 Flow Direction: Both  
 Damping: 0.0000 ft  
 Length: 1320.00 ft  
 Contraction Coef: 0.10  
 Expansion Coef: 0.30  
 Entr Loss Coef: 0.00  
 Exit Loss Coef: 0.00  
 Bend Loss Coef: 0.00  
 Bend Location: 0.00 dec  
 Energy Switch: Energy

Upstream	Downstream
Invert: 7.58 ft	Invert: 7.58 ft
Manning's N: 0.0500	Manning's N: 0.0500
Geometry: Irregular	Geometry: Irregular
Cross Section: RU20'	Cross Section: RU20'

Comment:

Pipe Link: RU-50A

Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 13.63 ft
	Invert: 13.92 ft

From Node:	NU-50A	Manning's N:	0.0240	Manning's N:	0.0240
To Node:	NU-50	Geometry:	Circular	Geometry:	Circular
Link Count:	1	Max Depth:	2.50 ft	Max Depth:	2.50 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.50 ft	Default:	0.50 ft
Length:	30.00 ft	Op Table:		Op Table:	
FHWA Code:	4	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0240	Manning's N:	0.0240
Exit Loss Coef:	0.95	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0240	Manning's N:	0.0240

Comment:

Channel Link:	RU-50B	Upstream	Downstream		
Scenario:	2016 FWCD Update	Invert:	13.58 ft	Invert:	13.58 ft
From Node:	NI-50W	Manning's N:	0.0500	Manning's N:	0.0500
To Node:	NU-50A	Geometry:	Trapezoidal	Geometry:	Trapezoidal
Link Count:	1	Max Depth:	9985.42 ft	Max Depth:	9985.42 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	4.00 ft	Bottom Width:	4.00 ft
Length:	4700.00 ft	Left Slope:	1.000 (h:v)	Left Slope:	1.000 (h:v)
Contraction Coef:	0.00	Right Slope:	1.000 (h:v)	Right Slope:	1.000 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0500	Manning's N:	0.0500
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	

Ref Node:  
Manning's N: 0.0500

Ref Node:  
Manning's N: 0.0500

Comment:

Rating Curve Link: RU-50S

Scenario: 2016 FWCD Update  
From Node: NU-50S  
To Node: NU-50  
Link Count: 1  
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
RU-50S	0.00	NU-50S	0.00	NU-50S

Comment:

Channel Link: RU-60

Scenario: 2016 FWCD Update  
From Node: NU-60  
To Node: NU-50  
Link Count: 1  
Flow Direction: Both  
Damping: 0.0000 ft  
Length: 1320.00 ft  
Contraction Coef: 0.10  
Expansion Coef: 0.30  
Entr Loss Coef: 0.00  
Exit Loss Coef: 0.00  
Bend Loss Coef: 0.00  
Bend Location: 0.00 dec  
Energy Switch: Energy

Upstream

Invert: 7.58 ft  
Manning's N: 0.0500  
Geometry: Irregular  
Cross Section: RU20'

Downstream

Invert: 7.58 ft  
Manning's N: 0.0500  
Geometry: Irregular  
Cross Section: RU20'



Comment:

Pipe Link: RU-60A

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU-60A	
To Node:	NU-60	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	30.00 ft	
FHWA Code:	4	
Entr Loss Coef:	0.50	
Exit Loss Coef:	0.95	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 12.60 ft	Invert: 12.52 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 2.50 ft	Max Depth: 2.50 ft
	Bottom Clip	
	Default: 0.50 ft	Default: 0.50 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU-60B

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NI-60W	
To Node:	NU-60A	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	4700.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
	Invert: 12.58 ft	Invert: 12.58 ft
	Manning's N: 0.0500	Manning's N: 0.0500
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9986.42 ft	Max Depth: 9986.42 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 4.00 ft	Bottom Width: 4.00 ft
	Left Slope: 1.000 (h:v)	Left Slope: 1.000 (h:v)
	Right Slope: 1.000 (h:v)	Right Slope: 1.000 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0500	Manning's N: 0.0500
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0500	Manning's N: 0.0500

Comment:

Channel Link: RU-70

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 7.58 ft	Invert: 7.58 ft
From Node: NU-70	Manning's N: 0.0500	Manning's N: 0.0500
To Node: NU-60	Geometry: Irregular	Geometry: Irregular
Link Count: 1	Cross Section: RU20'	Cross Section: RU20'
Flow Direction: Both		
Damping: 0.0000 ft		
Length: 1320.00 ft		
Contraction Coef: 0.10		
Expansion Coef: 0.30		
Entr Loss Coef: 0.00		
Exit Loss Coef: 0.00		
Bend Loss Coef: 0.00		
Bend Location: 0.00 dec		
Energy Switch: Energy		

Comment:

Drop Structure Link: RU-70A

	Upstream Pipe	Downstream Pipe
Scenario: 2016 FWCD Update	Invert: 12.58 ft	Invert: 12.58 ft
From Node: NU-70A	Manning's N: 0.0240	Manning's N: 0.0240

To Node:	NU-70	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction:	Both	Bottom Clip	
Solution:	Combine	Default: 0.00 ft	Default: 0.00 ft
Increments:	10	Op Table:	Op Table:
Pipe Count:	1	Ref Node:	Ref Node:
Damping:	0.0000 ft	Manning's N: 0.0240	Manning's N: 0.0240
Length:	40.00 ft	Top Clip	
FHWA Code:	4	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef:	0.50	Op Table:	Op Table:
Exit Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Loss Coef:	0.00	Manning's N: 0.0240	Manning's N: 0.0240
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Pipe Comment:

Weir Component			
Weir:	1	Bottom Clip	
Weir Count:	1	Default:	0.00 ft
Weir Flow Direction:	Both	Op Table:	
Damping:	0.0000 ft	Ref Node:	
Weir Type:	Sharp Crested Vertical	Top Clip	
Geometry Type:	Rectangular	Default:	0.00 ft
Invert:	13.58 ft	Op Table:	
Control Elevation:	13.58 ft	Ref Node:	
Max Depth:	999.00 ft	Discharge Coefficients	
Max Width:	4.00 ft	Weir Default:	3.200
Fillet:	0.00 ft	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Channel Link: RU-70B		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 13.58 ft	Invert: 12.58 ft
From Node:	NI-70W	Manning's N: 0.0500	Manning's N: 0.0500
To Node:	NU-70A	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9985.42 ft	Max Depth: 9986.42 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 4.00 ft	Bottom Width: 4.00 ft
Length:	4700.00 ft	Left Slope: 1.000 (h:v)	Left Slope: 1.000 (h:v)
Contraction Coef:	0.00	Right Slope: 1.000 (h:v)	Right Slope: 1.000 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0500	Manning's N: 0.0500
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0500	Manning's N: 0.0500

Comment:

Rating Curve Link: RU-70S

Scenario: 2016 FWCD Update  
 From Node: NU-70S  
 To Node: NU-70  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
RU-70S	0.00	NU-70S	0.00	NU-70S

Comment:

Channel Link: RU-80		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 7.58 ft	Invert: 7.58 ft
From Node:	NU-80	Manning's N: 0.0500	Manning's N: 0.0500
To Node:	NU-70	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: RU20'	Cross Section: RU20'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	1320.00 ft		
Contraction Coef:	0.10		
Expansion Coef:	0.30		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: RU-80A		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 12.58 ft	Invert: 11.58 ft
From Node:	NU-80A	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NU-80	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: RU-80A	Cross Section: RU-80A
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	300.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	1.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: RU-90

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU-90	NU-80
To Node:	NU-80	NU-90
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	1320.00 ft	1320.00 ft
Contraction Coef:	0.10	0.10
Expansion Coef:	0.30	0.30
Entr Loss Coef:	0.00	0.00
Exit Loss Coef:	0.00	0.00
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy

Comment:

Drop Structure Link: RU-FJV-CTRL

	Upstream Pipe	Downstream Pipe
Scenario:	2016 FWCD Update	
From Node:	NU-FJV-BWPOND1	NU-235
To Node:	NU-235	NU-FJV-BWPOND1
Link Count:	1	1
Flow Direction:	Both	Both
Solution:	Combine	Combine
Increments:	10	10
Pipe Count:	1	1
Damping:	0.0000 ft	0.0000 ft
Length:	100.00 ft	100.00 ft
	Invert: 16.00 ft	Invert: 15.50 ft
	Manning's N: 0.0120	Manning's N: 0.0120
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.50 ft	Max Depth: 1.50 ft
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120
	Top Clip	

FHWA Code: 1	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.00	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0120	Manning's N: 0.0120
Bend Location: 0.00 dec		
Energy Switch: Energy		

Pipe Comment:

Weir Component

Weir: 1	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Horizontal	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 21.50 ft	Op Table:
Control Elevation: 21.50 ft	Ref Node:
Max Depth: 3.08 ft	Discharge Coefficients
Max Width: 2.00 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Weir Component

Weir: 2	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Circular	Default: 0.00 ft
Invert: 17.00 ft	Op Table:
Control Elevation: 17.50 ft	Ref Node:
Max Depth: 0.46 ft	Discharge Coefficients
	Weir Default: 3.200

Weir Table:  
 Orifice Default: 0.600  
 Orifice Table:

Weir Comment:

Weir Component

Weir: 3  
 Weir Count: 1  
 Weir Flow Direction: Both  
 Damping: 0.0000 ft  
 Weir Type: Sharp Crested Vertical  
 Geometry Type: Rectangular  
 Invert: 20.75 ft  
 Control Elevation: 20.75 ft  
 Max Depth: 0.75 ft  
 Max Width: 2.00 ft  
 Fillet: 0.00 ft

Bottom Clip

Default: 0.00 ft  
 Op Table:  
 Ref Node:

Top Clip

Default: 0.00 ft  
 Op Table:  
 Ref Node:

Discharge Coefficients

Weir Default: 3.200  
 Weir Table:  
 Orifice Default: 0.600  
 Orifice Table:

Weir Comment:

Drop Structure Comment:

Drop Structure Link: RU-FJV-FOADRYA

Scenario: 2016 FWCD Update  
 From Node: NU-FJV-FOADRYA  
 To Node: NU-FJV-FOAWETA  
 Link Count: 1  
 Flow Direction: Both  
 Solution: Combine  
 Increments: 10

Upstream Pipe

Invert: 16.00 ft  
 Manning's N: 0.0240

Geometry: Circular

Max Depth: 2.50 ft

Bottom Clip

Default: 0.00 ft  
 Op Table:

Downstream Pipe

Invert: 13.50 ft  
 Manning's N: 0.0240

Geometry: Circular

Max Depth: 2.50 ft

Default: 0.00 ft  
 Op Table:



Pipe Count: 1	Ref Node:	Ref Node:
Damping: 0.0000 ft	Manning's N: 0.0240	Manning's N: 0.0240
Length: 52.00 ft	Top Clip	
FHWA Code: 6	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.20	Op Table:	Op Table:
Exit Loss Coef: 1.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0240	Manning's N: 0.0240
Bend Location: 0.00 dec		
Energy Switch: Energy		

Pipe Comment:

Weir Component

Weir: 1	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Horizontal	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 19.43 ft	Op Table:
Control Elevation: 19.43 ft	Ref Node:
Max Depth: 4.33 ft	Discharge Coefficients
Max Width: 3.00 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Weir Component

Weir: 2	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Circular	Default: 0.00 ft
Invert: 18.30 ft	Op Table:

Control Elevation: 18.30 ft  
 Max Depth: 0.25 ft

Ref Node:

Discharge Coefficients

Weir Default: 3.200

Weir Table:

Orifice Default: 0.600

Orifice Table:

Weir Comment:

Drop Structure Comment:

Drop Structure Link: RU-FJV-FOADRYB1

Scenario: 2016 FWCD Update  
 From Node: NU-FJV-FOADRYB  
 To Node: NU-FJV-FOAWETB  
 Link Count: 1  
 Flow Direction: Both  
 Solution: Combine  
 Increments: 10  
 Pipe Count: 1  
 Damping: 0.0000 ft  
 Length: 50.00 ft  
 FHWA Code: 3  
 Entr Loss Coef: 0.20  
 Exit Loss Coef: 1.00  
 Bend Loss Coef: 0.00  
 Bend Location: 0.00 dec  
 Energy Switch: Energy

Upstream Pipe

Invert: 16.00 ft  
 Manning's N: 0.0120  
 Geometry: Circular  
 Max Depth: 2.50 ft  
 Bottom Clip  
 Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0120  
 Top Clip  
 Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0120

Downstream Pipe

Invert: 13.50 ft  
 Manning's N: 0.0120  
 Geometry: Circular  
 Max Depth: 2.50 ft  
 Bottom Clip  
 Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0120  
 Top Clip  
 Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0120

Pipe Comment:

Weir Component

Weir: 1

Bottom Clip

Weir Count: 1 Weir Flow Direction: Both Damping: 0.0000 ft Weir Type: Horizontal Geometry Type: Rectangular Invert: 19.44 ft Control Elevation: 19.44 ft Max Depth: 4.33 ft Max Width: 3.00 ft Fillet: 0.00 ft	Default: 0.00 ft Op Table: Ref Node: Top Clip Default: 0.00 ft Op Table: Ref Node: Discharge Coefficients Weir Default: 3.200 Weir Table: Orifice Default: 0.600 Orifice Table:
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Weir Comment:

Weir Component	
Weir: 2 Weir Count: 1 Weir Flow Direction: Both Damping: 0.0000 ft Weir Type: Sharp Crested Vertical Geometry Type: Circular Invert: 18.30 ft Control Elevation: 18.30 ft Max Depth: 0.25 ft	Bottom Clip Default: 0.00 ft Op Table: Ref Node: Top Clip Default: 0.00 ft Op Table: Ref Node: Discharge Coefficients Weir Default: 3.200 Weir Table: Orifice Default: 0.600 Orifice Table:

Weir Comment:

Drop Structure Comment:

Drop Structure Link: RU-FJV-FOADRYB2		Upstream Pipe	Downstream Pipe
Scenario:	2016 FWCD Update	Invert: 16.00 ft	Invert: 13.50 ft
From Node:	NU-FJV-FOADRYB	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	NU-FJV-FOAWETB	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction:	Both	Bottom Clip	
Solution:	Combine	Default: 0.00 ft	Default: 0.00 ft
Increments:	10	Op Table:	Op Table:
Pipe Count:	1	Ref Node:	Ref Node:
Damping:	0.0000 ft	Manning's N: 0.0120	Manning's N: 0.0120
Length:	68.00 ft	Top Clip	
FHWA Code:	3	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef:	0.20	Op Table:	Op Table:
Exit Loss Coef:	1.00	Ref Node:	Ref Node:
Bend Loss Coef:	0.00	Manning's N: 0.0120	Manning's N: 0.0120
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default: 0.00 ft	
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	Top Clip	
Weir Type:	Horizontal	Default: 0.00 ft	
Geometry Type:	Rectangular	Op Table:	
Invert:	19.44 ft	Ref Node:	
Control Elevation:	19.44 ft	Discharge Coefficients	
Max Depth:	4.33 ft	Weir Default: 3.200	
Max Width:	3.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default: 0.600	
		Orifice Table:	

Weir Comment:

Weir Component	
Weir: 2	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Circular	Default: 0.00 ft
Invert: 18.30 ft	Op Table:
Control Elevation: 18.30 ft	Ref Node:
Max Depth: 0.25 ft	Discharge Coefficients
	Weir Default: 3.200
	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Drop Structure Comment:

Drop Structure Link: RU-FJV-FOAWETA		
	Upstream Pipe	Downstream Pipe
Scenario: 2016 FWCD Update	Invert: 16.10 ft	Invert: 15.90 ft
From Node: NU-FJV-FOAWETA	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NU23FJV3	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction: Both	Bottom Clip	
Solution: Combine	Default: 0.00 ft	Default: 0.00 ft
Increments: 10	Op Table:	Op Table:
Pipe Count: 1	Ref Node:	Ref Node:
Damping: 0.0000 ft	Manning's N: 0.0120	Manning's N: 0.0120
Length: 140.00 ft	Top Clip	
FHWA Code: 3	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.20	Op Table:	Op Table:
Exit Loss Coef: 1.00	Ref Node:	Ref Node:

Bend Loss Coef: 0.00  
 Bend Location: 0.00 dec  
 Energy Switch: Energy

Manning's N: 0.0120

Manning's N: 0.0120

Pipe Comment:

Weir Component	
Weir: 1	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Circular	Default: 0.00 ft
Invert: 18.30 ft	Op Table:
Control Elevation: 18.30 ft	Ref Node:
Max Depth: 0.67 ft	Discharge Coefficients
	Weir Default: 3.200
	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Weir Component	
Weir: 2	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 19.73 ft	Op Table:
Control Elevation: 19.73 ft	Ref Node:
Max Depth: 83.25 ft	Discharge Coefficients
Max Width: 0.25 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Weir Component	
Weir: 3	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Horizontal	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 21.00 ft	Op Table:
Control Elevation: 21.00 ft	Ref Node:
Max Depth: 4.33 ft	Discharge Coefficients
Max Width: 3.00 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Weir Component	
Weir: 4	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 20.60 ft	Op Table:
Control Elevation: 20.60 ft	Ref Node:
Max Depth: 833.25 ft	Discharge Coefficients
Max Width: 4.33 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Drop Structure Comment:

Drop Structure Link: RU-FJV-FOAWETB		Upstream Pipe	Downstream Pipe
Scenario:	2016 FWCD Update	Invert: 17.80 ft	Invert: 17.50 ft
From Node:	NU-FJV-FOAWETB	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	NU23FJV4	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Solution:	Combine	Default: 0.00 ft	Default: 0.00 ft
Increments:	10	Op Table:	Op Table:
Pipe Count:	1	Ref Node:	Ref Node:
Damping:	0.0000 ft	Manning's N: 0.0120	Manning's N: 0.0120
Length:	234.00 ft	Top Clip	
FHWA Code:	3	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef:	0.20	Op Table:	Op Table:
Exit Loss Coef:	1.00	Ref Node:	Ref Node:
Bend Loss Coef:	0.00	Manning's N: 0.0120	Manning's N: 0.0120
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default: 0.00 ft	
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default: 0.00 ft	
Geometry Type:	Circular	Op Table:	
Invert:	18.30 ft	Ref Node:	
Control Elevation:	18.30 ft	Discharge Coefficients	
Max Depth:	0.92 ft	Weir Default:	3.200
		Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:



Weir Component	
Weir: 2	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 20.94 ft	Op Table:
Control Elevation: 20.94 ft	Ref Node:
Max Depth: 83.25 ft	Discharge Coefficients
Max Width: 4.00 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Weir Component	
Weir: 3	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Horizontal	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 21.50 ft	Op Table:
Control Elevation: 21.50 ft	Ref Node:
Max Depth: 4.33 ft	Discharge Coefficients
Max Width: 3.00 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Drop Structure Comment:

Pipe Link: RU-FJV-INTER		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 15.50 ft	Invert: 15.50 ft
From Node:	NU-FJV-BWPOND2	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	NU-FJV-BWPOND1	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	240.00 ft	Op Table:	Op Table:
FHWA Code:	6	Ref Node:	Ref Node:
Entr Loss Coef:	0.00	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef:	0.00	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0120	Manning's N: 0.0120
Comment:			

Drop Structure Link: RU-FJV-POP		Upstream Pipe	Downstream Pipe
Scenario:	2016 FWCD Update	Invert: 19.00 ft	Invert: 15.00 ft
From Node:	NU-FJV-BWSWALE	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NU-FJV-BWPOND1	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction:	Both	Bottom Clip	
Solution:	Combine	Default: 0.00 ft	Default: 0.00 ft
Increments:	10	Op Table:	Op Table:
Pipe Count:	1	Ref Node:	Ref Node:
Damping:	0.0000 ft	Manning's N: 0.0240	Manning's N: 0.0240
Length:	50.00 ft	Top Clip	
FHWA Code:	1	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef:	0.00	Op Table:	Op Table:
Exit Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Loss Coef:	0.00	Manning's N: 0.0240	Manning's N: 0.0240

Bend Location: 0.00 dec

Energy Switch: Energy

Pipe Comment:

Weir Component	
Weir: 1	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Horizontal	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 21.25 ft	Op Table:
Control Elevation: 21.25 ft	Ref Node:
Max Depth: 3.08 ft	Discharge Coefficients
Max Width: 2.00 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Drop Structure Comment:

Pipe Link: RU-FJVN	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.50 ft	Invert: 15.00 ft
From Node: NU-FJVN	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU-205	Geometry: Circular	Geometry: Circular
Link Count: 3	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 6	Ref Node:	Ref Node:
Entr Loss Coef: 0.90	Manning's N: 0.0240	Manning's N: 0.0240

Exit Loss Coef: 0.00	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RU-FJVS	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.00 ft	Invert: 14.50 ft
From Node: NU-FJVS	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU-235	Geometry: Circular	
Link Count: 3	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 6	Ref Node:	Ref Node:
Entr Loss Coef: 0.90	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.00	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RU09-A	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.58 ft	Invert: 16.08 ft
From Node: NU09-A	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU09A09	Geometry: Circular	
Link Count: 3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	

Damping:	0.0000 ft	Default:	0.17 ft	Default:	0.17 ft
Length:	40.00 ft	Op Table:		Op Table:	
FHWA Code:	4	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0240	Manning's N:	0.0240
Exit Loss Coef:	0.95	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0240	Manning's N:	0.0240

Comment:

Pipe Link: RU09-B	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.58 ft	Invert: 16.08 ft
From Node: NU09-B	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU09B05	Geometry: Circular	Geometry: Circular
Link Count: 3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RU09-C	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.08 ft	Invert: 16.58 ft

From Node:	NU09-C	Manning's N:	0.0240	Manning's N:	0.0240
To Node:	NU09C01	Geometry:	Circular	Geometry:	Circular
Link Count:	3	Max Depth:	1.00 ft	Max Depth:	1.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.17 ft	Default:	0.17 ft
Length:	40.00 ft	Op Table:		Op Table:	
FHWA Code:	4	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0240	Manning's N:	0.0240
Exit Loss Coef:	0.95	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0240	Manning's N:	0.0240

Comment:

Pipe Link:		Upstream	Downstream		
Scenario:	2016 FWCD Update	Invert:	17.58 ft	Invert:	17.08 ft
From Node:	NU09-D	Manning's N:	0.0240	Manning's N:	0.0240
To Node:	NU09D01	Geometry:	Circular	Geometry:	Circular
Link Count:	2	Max Depth:	1.00 ft	Max Depth:	1.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.17 ft	Default:	0.17 ft
Length:	40.00 ft	Op Table:		Op Table:	
FHWA Code:	4	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0240	Manning's N:	0.0240
Exit Loss Coef:	0.95	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0240	Manning's N:	0.0240

Comment:

Pipe Link: RU09-D2			Upstream	Downstream
Scenario:	2016 FWCD Update		Invert: 15.58 ft	Invert: 15.08 ft
From Node:	NU09-D		Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NU09D01		Geometry: Circular	Geometry: Circular
Link Count:	2		Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both		Bottom Clip	
Damping:	0.0000 ft		Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft		Op Table:	Op Table:
FHWA Code:	4		Ref Node:	Ref Node:
Entr Loss Coef:	0.50		Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95		Top Clip	
Bend Loss Coef:	0.00		Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec		Op Table:	Op Table:
Energy Switch:	Energy		Ref Node:	Ref Node:
			Manning's N: 0.0240	Manning's N: 0.0240
Comment:				

Channel Link: RU09A01			Upstream	Downstream
Scenario:	2016 FWCD Update		Invert: 10.88 ft	Invert: 10.58 ft
From Node:	NU09A01		Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NU-90		Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1		Max Depth: 99988.12 ft	Max Depth: 9988.42 ft
Flow Direction:	Both		Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft		Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	67.00 ft		Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00		Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00		Bottom Clip	
Entr Loss Coef:	0.00		Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	1.00		Op Table:	Op Table:
Bend Loss Coef:	0.00		Ref Node:	Ref Node:
Bend Location:	0.00 dec		Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy		Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU09A03

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 11.21 ft	Invert: 10.88 ft
From Node: NU09A03	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU09A01	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 29.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU09A05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 12.99 ft	Invert: 11.21 ft
From Node: NU09A05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU09A03	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9986.01 ft	Max Depth: 9987.79 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft



Length: 71.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU09A09

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 13.21 ft	Invert: 12.99 ft
From Node: NU09A09	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU09A05	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9985.79 ft	Max Depth: 9986.01 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 713.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Channel Link: RU09A13

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU09A13	
To Node:	NU09A09	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	880.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 13.48 ft	Invert: 13.21 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9985.52 ft	Max Depth: 9985.79 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU09B01

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU09B01	
To Node:	NU09A13	
Link Count:	1	
Flow Direction:	Both	
	Invert: 13.75 ft	Invert: 13.48 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9985.25 ft	Max Depth: 9985.52 ft
	Extrapolation: Normal	Extrapolation: Normal

Damping:	0.0000 ft	Bottom Width:	6.00 ft	Bottom Width:	6.00 ft
Length:	880.00 ft	Left Slope:	1.500 (h:v)	Left Slope:	1.500 (h:v)
Contraction Coef:	0.00	Right Slope:	1.500 (h:v)	Right Slope:	1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0700	Manning's N:	0.0700
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0700	Manning's N:	0.0700

Comment:

Channel Link: RU09B05

	Upstream	Downstream	
Scenario:	2016 FWCD Update	Invert: 14.02 ft	
From Node:	NU09B05	Invert: 13.75 ft	
To Node:	NU09B01	Manning's N: 0.0700	
Link Count:	1	Manning's N: 0.0700	
Flow Direction:	Both	Geometry: Trapezoidal	
Damping:	0.0000 ft	Max Depth: 9984.98 ft	
Length:	880.00 ft	Extrapolation: Normal	
Contraction Coef:	0.00	Bottom Width: 6.00 ft	
Expansion Coef:	0.00	Left Slope: 1.500 (h:v)	
Entr Loss Coef:	0.00	Right Slope: 1.500 (h:v)	
Exit Loss Coef:	0.00	Bottom Clip	
Bend Loss Coef:	0.00	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:	
Energy Switch:	Energy	Ref Node:	
		Manning's N:	0.0700
		Top Clip	
		Default:	0.00 ft
		Op Table:	

Ref Node: Ref Node:  
 Manning's N: 0.0700 Manning's N: 0.0700

Comment:

Channel Link: RU09B10	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.29 ft	Invert: 14.02 ft
From Node: NU09B10	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU09B05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9984.71 ft	Max Depth: 9984.98 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU09C01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.56 ft	Invert: 14.29 ft
From Node: NU09C01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU09B10	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9984.44 ft	Max Depth: 9984.71 ft

Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU09C05	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.83 ft	Invert: 14.56 ft
From Node: NU09C05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU09C01	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9984.17 ft	Max Depth: 9984.44 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft

Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU09C09

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.72 ft	Invert: 14.83 ft
From Node: NU09C09	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU09D05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9984.28 ft	Max Depth: 9984.17 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 639.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU09C11

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.07 ft	Invert: 14.72 ft
From Node: NU09C11	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU09C09	Geometry: Circular	Geometry: Circular

Link Count: 1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.33 ft	Default: 0.33 ft
Length: 28.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU09D01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.45 ft	Invert: 15.07 ft
From Node: NU09D01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU09C11	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9982.55 ft	Max Depth: 9983.93 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 1093.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU09D05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.78 ft	Invert: 16.45 ft
From Node: NU09D05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU09D01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.22 ft	Max Depth: 9982.55 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 746.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU10-A

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.08 ft	Invert: 15.58 ft
From Node: NU10-A	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU10A09	Geometry: Circular	Geometry: Circular
Link Count: 3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft



Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RU10-B

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.58 ft	Invert: 16.08 ft
From Node: NU10-B	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU10B05	Geometry: Circular	
Link Count: 3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RU10-C

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.08 ft	Invert: 16.58 ft
From Node: NU10-C	Manning's N: 0.0240	Manning's N: 0.0240

To Node:	NU10C05	Geometry: Circular	Geometry: Circular
Link Count:	3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	4	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RU10-D	Scenario: 2016 FWCD Update	Upstream	Downstream
		Invert: 17.58 ft	Invert: 17.08 ft
	From Node: NU10-D	Manning's N: 0.0240	Manning's N: 0.0240
	To Node: NU10D01	Geometry: Circular	Geometry: Circular
	Link Count: 3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
	Flow Direction: Both	Bottom Clip	
	Damping: 0.0000	Default: 0.17 ft	Default: 0.17 ft
	Length: 40.00 ft	Op Table:	Op Table:
	FHWA Code: 4	Ref Node:	Ref Node:
	Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
	Exit Loss Coef: 0.95	Top Clip	
	Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
	Bend Location: 0.00 dec	Op Table:	Op Table:
	Energy Switch: Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU10A01		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 10.71 ft	Invert: 10.58 ft
From Node:	NU10A01	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NU-100	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9988.29 ft	Max Depth: 9988.42 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	66.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	1.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Pipe Link: RU10A03		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 11.19 ft	Invert: 10.71 ft
From Node:	NU10A03	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NU10A01	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	31.00 ft	Op Table:	Op Table:
FHWA Code:	4	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU10A05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 11.93 ft	Invert: 11.19 ft
From Node: NU10A05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU10A03	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9987.07 ft	Max Depth: 9987.81 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 108.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU10A09

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 11.98 ft	Invert: 11.93 ft
From Node: NU10A09	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NU10A05	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9987.02 ft	Extrapolation: Normal	Max Depth: 9987.07 ft	Extrapolation: Normal
Flow Direction: Both	Bottom Width: 8.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 8.00 ft	Left Slope: 1.500 (h:v)
Damping: 0.0000 ft	Right Slope: 1.500 (h:v)	Bottom Clip		
Length: 675.00 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Contraction Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Expansion Coef: 0.00	Top Clip			
Entr Loss Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Bend Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700
Bend Location: 0.00 dec				
Energy Switch: Energy				

Comment:

Channel Link: RU10A13	Upstream		Downstream	
Scenario: 2016 FWCD Update	Invert: 12.05 ft	Manning's N: 0.0700	Invert: 11.98 ft	Manning's N: 0.0700
From Node: NU10A13	Geometry: Trapezoidal		Geometry: Trapezoidal	
To Node: NU10A09	Max Depth: 9986.95 ft	Extrapolation: Normal	Max Depth: 9987.02 ft	Extrapolation: Normal
Link Count: 1	Bottom Width: 8.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 8.00 ft	Left Slope: 1.500 (h:v)
Flow Direction: Both	Right Slope: 1.500 (h:v)	Bottom Clip		
Damping: 0.0000 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Length: 880.00 ft	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Contraction Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700
Expansion Coef: 0.00				
Entr Loss Coef: 0.00				
Exit Loss Coef: 0.00				
Bend Loss Coef: 0.00				
Bend Location: 0.00 dec				

Energy Switch: Energy

Top Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU10B01

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 12.12 ft	Invert: 12.05 ft
From Node: NU10B01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU10A13	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9986.88 ft	Max Depth: 9986.95 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU10B05

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 12.19 ft	Invert: 12.12 ft
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From Node: NU10B05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU10B01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9986.81 ft	Max Depth: 9986.88 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU10B10	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 12.51 ft	Invert: 12.19 ft
From Node: NU10B10	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU10B05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9986.49 ft	Max Depth: 9986.81 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:

Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU10C01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 13.52 ft	Invert: 12.51 ft
From Node: NU10C01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU10B10	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9985.48 ft	Max Depth: 9986.49 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU10C05	Upstream	Downstream
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Scenario: 2016 FWCD Update	Invert: 14.53 ft	Invert: 13.52 ft
From Node: NU10C05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU10C01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9984.47 ft	Max Depth: 9985.48 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU10C10	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.55 ft	Invert: 14.53 ft
From Node: NU10C10	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU10C05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9983.45 ft	Max Depth: 9984.47 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:

Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU10D01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.56 ft	Invert: 15.55 ft
From Node: NU10D01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU10C10	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9982.44 ft	Max Depth: 9983.45 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU10D05		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.18 ft	Invert: 16.56 ft
From Node:	NU10D05	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NU10D01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9981.82 ft	Max Depth: 9982.44 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	720.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Pipe Link: RU11-A		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.08 ft	Invert: 15.58 ft
From Node:	NU11-A	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NU11A07	Geometry: Circular	Geometry: Circular
Link Count:	3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	4	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0240	Manning's N:	0.0240

Comment:

Pipe Link: RU11-B

	Upstream	Downstream
Scenario:	2016 FWCD Update	
Invert:	16.58 ft	16.08 ft
From Node:	NU11-B	Manning's N: 0.0240
To Node:	NU11B05	Manning's N: 0.0240
Geometry:	Circular	Circular
Link Count:	3	Max Depth: 1.00 ft
Flow Direction:	Both	Max Depth: 1.00 ft
Damping:	0.0000 ft	Bottom Clip
Length:	40.00 ft	Default: 0.17 ft
FHWA Code:	4	Op Table:
Entr Loss Coef:	0.50	Ref Node:
Exit Loss Coef:	0.95	Manning's N: 0.0240
Bend Loss Coef:	0.00	Manning's N: 0.0240
Bend Location:	0.00 dec	Top Clip
Energy Switch:	Energy	Default: 0.00 ft
		Op Table:
		Ref Node:
		Manning's N: 0.0240

Comment:

Pipe Link: RU11-C

	Upstream	Downstream
Scenario:	2016 FWCD Update	
Invert:	16.58 ft	16.08 ft
From Node:	NU11-C	Manning's N: 0.0240
To Node:	NU11C01	Manning's N: 0.0240
Geometry:	Circular	Circular
Link Count:	3	Max Depth: 1.00 ft
Flow Direction:	Both	Max Depth: 1.00 ft
Damping:	0.0000 ft	Bottom Clip
		Default: 0.17 ft
		Default: 0.17 ft

Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RU11-D

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.08 ft	Invert: 16.58 ft
From Node: NU11-D	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU11D01	Geometry: Circular	
Link Count: 4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU11A01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 10.89 ft	Invert: 10.58 ft
From Node: NU11A01	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NU-110	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9988.11 ft	Max Depth: 9988.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 70.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 1.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU11A03	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 11.29 ft	Invert: 10.89 ft
From Node: NU11A03	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU11A01	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 31.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:

Manning's N: 0.0240

Manning's N: 0.0240

Comment:

Channel Link: RU11A07

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU11A07	
To Node:	NU11A03	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	780.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 11.75 ft	Invert: 11.29 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9987.25 ft	Max Depth: 9987.71 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU11A13

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU11A13	
To Node:	NU11A07	
Link Count:	1	
Flow Direction:	Both	
	Invert: 12.23 ft	Invert: 11.75 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9986.77 ft	Max Depth: 9987.25 ft
	Extrapolation: Normal	Extrapolation: Normal

Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU11B01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 12.70 ft	Invert: 12.23 ft
From Node: NU11B01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU11A13	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9986.30 ft	Max Depth: 9986.77 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:



Ref Node: Ref Node:  
 Manning's N: 0.0700 Manning's N: 0.0700

Comment:

Channel Link: RU11B05

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU11B05	NU11B01
To Node:	NU11B01	NU11B05
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	880.00 ft	880.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
Entr Loss Coef:	0.00	0.00
Exit Loss Coef:	0.00	0.00
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 13.18 ft	Invert: 12.70 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9985.82 ft	Max Depth: 9986.30 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU11B10

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU11B10	NU11B05
To Node:	NU11B05	NU11B10
Link Count:	1	1
	Invert: 13.85 ft	Invert: 13.18 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9985.15 ft	Max Depth: 9985.82 ft

Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU11C01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.35 ft	Invert: 13.85 ft
From Node: NU11C01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU11B10	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9983.65 ft	Max Depth: 9985.15 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 1004.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft

Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU11C03

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.17 ft	Invert: 15.35 ft
From Node: NU11C03	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU11C01	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.25 ft	Default: 0.25 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU11C07

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.81 ft	Invert: 16.17 ft
From Node: NU11C07	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU11C03	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9983.19 ft	Max Depth: 9982.83 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 725.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)

Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU11C13

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.38 ft	Invert: 15.81 ft
From Node: NU11C13	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU11C07	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9983.62 ft	Max Depth: 9983.19 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU11D01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.99 ft	Invert: 15.38 ft
From Node: NU11D01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU11C13	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9984.01 ft	Max Depth: 9983.62 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU11D05	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.78 ft	Invert: 14.99 ft
From Node: NU11D05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU11D01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9983.22 ft	Max Depth: 9984.01 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft

Length: 741.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU12-A	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.08 ft	Invert: 15.58 ft
From Node: NU12-A	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU12A09	Geometry: Circular	
Link Count: 3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RU12-B	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.58 ft	Invert: 16.08 ft
From Node: NU12-B	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU12B05	Geometry: Circular	Geometry: Circular
Link Count: 4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
Comment:		

Pipe Link: RU12-C	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.58 ft	Invert: 16.08 ft
From Node: NU12-C	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU12C01	Geometry: Circular	Geometry: Circular
Link Count: 5	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RU12-D

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU12-D	
To Node:	NU12C29	
Link Count:	6	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	40.00 ft	
FHWA Code:	4	
Entr Loss Coef:	0.50	
Exit Loss Coef:	0.95	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 17.58 ft	Invert: 17.08 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.00 ft	Max Depth: 1.00 ft
	Bottom Clip	
	Default: 0.17 ft	Default: 0.17 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU12A01

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU12A01	
To Node:	NU-120	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	61.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
	Invert: 13.43 ft	Invert: 12.36 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9985.57 ft	Max Depth: 9986.64 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft



Exit Loss Coef: 1.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU12A03

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.07 ft	Invert: 13.43 ft
From Node: NU12A03	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU12A01	Geometry: Circular	
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 39.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU12A05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 12.36 ft	Invert: 14.07 ft
From Node: NU12A05	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NU12A03	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9986.64 ft	Extrapolation: Normal	Max Depth: 9984.93 ft	Extrapolation: Normal
Flow Direction: Both	Bottom Width: 8.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 8.00 ft	Left Slope: 1.500 (h:v)
Damping: 0.0000 ft	Right Slope: 1.500 (h:v)	Bottom Clip		
Length: 123.00 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Contraction Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Expansion Coef: 0.00	Top Clip			
Entr Loss Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Bend Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700
Bend Location: 0.00 dec				
Energy Switch: Energy				

Comment:

Channel Link: RU12A09	Upstream		Downstream	
Scenario: 2016 FWCD Update	Invert: 12.67 ft	Manning's N: 0.0700	Invert: 12.36 ft	Manning's N: 0.0700
From Node: NU12A09	Geometry: Trapezoidal		Geometry: Trapezoidal	
To Node: NU12A05	Max Depth: 9986.33 ft	Extrapolation: Normal	Max Depth: 9986.64 ft	Extrapolation: Normal
Link Count: 1	Bottom Width: 8.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 8.00 ft	Left Slope: 1.500 (h:v)
Flow Direction: Both	Right Slope: 1.500 (h:v)	Bottom Clip		
Damping: 0.0000 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Length: 657.00 ft	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Contraction Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700
Expansion Coef: 0.00				
Entr Loss Coef: 0.00				
Exit Loss Coef: 0.00				
Bend Loss Coef: 0.00				
Bend Location: 0.00 dec				

Energy Switch: Energy

Top Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU12A13

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 13.08 ft	Invert: 12.67 ft
From Node: NU12A13	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU12A09	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9985.92 ft	Max Depth: 9986.33 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU12B01

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 13.49 ft	Invert: 13.08 ft
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From Node: NU12B01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU12A13	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9985.51 ft	Max Depth: 9985.92 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU12B05	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 13.91 ft	Invert: 13.49 ft
From Node: NU12B05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU12B01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9985.09 ft	Max Depth: 9985.51 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:

Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU12B10	Upstream	Downstream
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Scenario: 2016 FWCD Update	Invert: 14.63 ft	Invert: 13.91 ft
From Node: NU12B10	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU12B05	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9984.37 ft	Max Depth: 9985.09 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU12C01	Upstream	Downstream
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Scenario: 2016 FWCD Update	Invert: 16.08 ft	Invert: 14.63 ft
From Node: NU12C01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU12B10	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.92 ft	Max Depth: 9984.37 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 1060.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU12C03	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.98 ft	Invert: 16.08 ft
From Node: NU12C03	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU12C01	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.50 ft	Max Depth: 3.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 39.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft

Bend Location: 0.00 dec  
 Energy Switch: Energy

Op Table:  
 Ref Node:  
 Manning's N: 0.0240

Op Table:  
 Ref Node:  
 Manning's N: 0.0240

Comment:

Channel Link: RU12C05

Scenario: 2016 FWCD Update  
 From Node: NU12C05  
 To Node: NU12C03  
 Link Count: 1  
 Flow Direction: Both  
 Damping: 0.0000 ft  
 Length: 32.00 ft  
 Contraction Coef: 0.00  
 Expansion Coef: 0.00  
 Entr Loss Coef: 0.00  
 Exit Loss Coef: 0.00  
 Bend Loss Coef: 0.00  
 Bend Location: 0.00 dec  
 Energy Switch: Energy

Upstream

Invert: 16.09 ft  
 Manning's N: 0.0700  
 Geometry: Trapezoidal  
 Max Depth: 9982.91 ft  
 Extrapolation: Normal  
 Bottom Width: 6.00 ft  
 Left Slope: 1.500 (h:v)  
 Right Slope: 1.500 (h:v)

Downstream

Invert: 15.98 ft  
 Manning's N: 0.0700  
 Geometry: Trapezoidal  
 Max Depth: 9983.02 ft  
 Extrapolation: Normal  
 Bottom Width: 6.00 ft  
 Left Slope: 1.500 (h:v)  
 Right Slope: 1.500 (h:v)

Bottom Clip

Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0700

Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0700

Top Clip

Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0700

Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Manning's N: 0.0700

Comment:

Pipe Link: RU12C07

Scenario: 2016 FWCD Update  
 From Node: NU12C07  
 To Node: NU12C05

Upstream

Invert: 16.30 ft  
 Manning's N: 0.0240  
 Geometry: Circular

Downstream

Invert: 16.09 ft  
 Manning's N: 0.0240  
 Geometry: Circular

Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000	Default:	0.67 ft	Default:	0.67 ft
Length:	20.00 ft	Op Table:		Op Table:	
FHWA Code:	4	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0240	Manning's N:	0.0240
Exit Loss Coef:	0.95	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0240	Manning's N:	0.0240

Comment:

Channel Link: RU12C09

	Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 15.92 ft
From Node:	NU12C09	Invert: 16.30 ft
To Node:	NU12C07	Manning's N: 0.0700
Link Count:	1	Manning's N: 0.0700
Flow Direction:	Both	Geometry: Trapezoidal
Damping:	0.0000	Max Depth: 9983.08 ft
Length:	439.00 ft	Max Depth: 9982.70 ft
Contraction Coef:	0.00	Extrapolation: Normal
Expansion Coef:	0.00	Bottom Width: 6.00 ft
Entr Loss Coef:	0.00	Left Slope: 1.500 (h:v)
Exit Loss Coef:	0.00	Right Slope: 1.500 (h:v)
Bend Loss Coef:	0.00	Bottom Width: 6.00 ft
Bend Location:	0.00 dec	Left Slope: 1.500 (h:v)
Energy Switch:	Energy	Right Slope: 1.500 (h:v)
		Bottom Clip
	Default:	0.00 ft
	Op Table:	
	Ref Node:	
	Manning's N:	0.0700
		Top Clip
	Default:	0.00 ft
	Op Table:	
	Ref Node:	
	Manning's N:	0.0700



Comment:

Pipe Link: RU12C11	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.56 ft	Invert: 15.92 ft
From Node: NU12C11	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU12C09	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.50 ft	Max Depth: 3.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU12C13	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.70 ft	Invert: 16.56 ft
From Node: NU12C13	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU12C11	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.30 ft	Max Depth: 9982.44 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 390.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU12C15

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.29 ft	Invert: 16.70 ft
From Node: NU12C15	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU12C13	Geometry: Circular	
Link Count: 1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.33 ft	Default: 0.33 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU12C17

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.73 ft	Invert: 16.29 ft
From Node: NU12C17	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NU12C15	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.27 ft	Max Depth: 9982.71 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 206.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU12C19	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.97 ft	Invert: 16.73 ft
From Node: NU12C19	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU12C17	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.25 ft	Default: 0.25 ft
Length: 27.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:

Manning's N: 0.0240

Manning's N: 0.0240

Comment:

Channel Link: RU12C21

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU12C21	
To Node:	NU12C19	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	357.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 15.35 ft	Invert: 16.97 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9983.65 ft	Max Depth: 9982.03 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU12C23

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU12C23	
To Node:	NU12C21	
Link Count:	1	
Flow Direction:	Both	
	Invert: 15.49 ft	Invert: 15.35 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 2.50 ft	Max Depth: 2.50 ft
	Bottom Clip	

Damping:	0.0000 ft	Default:	0.50 ft	Default:	0.50 ft
Length:	23.00 ft	Op Table:		Op Table:	
FHWA Code:	4	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0240	Manning's N:	0.0240
Exit Loss Coef:	0.95	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0240	Manning's N:	0.0240

Comment:

Channel Link: RU12C25

	Upstream	Downstream	
Scenario:	2016 FWCD Update	Invert: 17.00 ft	
From Node:	NU12C25	Manning's N: 0.0700	
To Node:	NU12C23	Geometry: Trapezoidal	
Link Count:	1	Max Depth: 9982.00 ft	
Flow Direction:	Both	Extrapolation: Normal	
Damping:	0.0000 ft	Bottom Width: 6.00 ft	
Length:	328.00 ft	Left Slope: 1.500 (h:v)	
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:	
Bend Loss Coef:	0.00	Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0700
Energy Switch:	Energy	Top Clip	
		Default:	0.00 ft
		Op Table:	
		Ref Node:	
		Manning's N:	0.0700

Comment:

Pipe Link: RU12C27		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.16 ft	Invert: 17.00 ft
From Node:	NU12C27	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NU12C25	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	25.00 ft	Op Table:	Op Table:
FHWA Code:	4	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240
Comment:			

Channel Link: RU12C29		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.71 ft	Invert: 17.16 ft
From Node:	NU12C29	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NU12C27	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9982.29 ft	Max Depth: 9981.84 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	219.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU12C31

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.69 ft	Invert: 16.71 ft
From Node: NU12C31	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU12C29	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.50 ft	Default: 0.50 ft
Length: 33.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU12D01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.86 ft	Invert: 16.69 ft
From Node: NU12D01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU12C31	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.14 ft	Max Depth: 9982.31 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft

Length: 391.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU12D05	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.62 ft	Invert: 17.86 ft
From Node: NU12D05	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU12D01	Geometry: Circular	
Link Count: 1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.33 ft	Default: 0.33 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 6	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:



Channel Link: RU12D10		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.58 ft	Invert: 17.62 ft
From Node:	NU12D10	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NU12D05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9981.42 ft	Max Depth: 9981.38 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	581.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Pipe Link: RU13-A		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.58 ft	Invert: 16.08 ft
From Node:	NU13-A	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NU13A09	Geometry: Circular	Geometry: Circular
Link Count:	3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	4	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RU13-B

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.08 ft	Invert: 15.58 ft
From Node: NU13-B	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU13B01	Geometry: Circular	Geometry: Circular
Link Count: 3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RU13-C

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.58 ft	Invert: 17.08 ft
From Node: NU13-C	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU13C01	Geometry: Circular	Geometry: Circular
Link Count: 4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft

Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RU13-D

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.58 ft	Invert: 17.08 ft
From Node: NU13-D	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU13D01	Geometry: Circular	
Link Count: 3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU13A01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 10.71 ft	Invert: 10.58 ft
From Node: NU13A01	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NU-130	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9988.29 ft	Max Depth: 9988.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 60.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 1.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU13A03	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 11.34 ft	Invert: 10.71 ft
From Node: NU13A03	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU13A01	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.50 ft	Default: 0.50 ft
Length: 37.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:

Manning's N: 0.0240

Manning's N: 0.0240

Comment:

Channel Link: RU13A05

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU13A05	
To Node:	NU13A03	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	340.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 10.04 ft	Invert: 11.34 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9988.96 ft	Max Depth: 9987.66 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU13A09

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU13A09	
To Node:	NU13A05	
Link Count:	1	
Flow Direction:	Both	
	Invert: 10.80 ft	Invert: 10.04 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9988.20 ft	Max Depth: 9988.96 ft
	Extrapolation: Normal	Extrapolation: Normal

Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 443.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU13A13	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 12.31 ft	Invert: 10.80 ft
From Node: NU13A13	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU13A09	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9986.69 ft	Max Depth: 9988.20 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:

Ref Node: Manning's N: 0.0700      Ref Node: Manning's N: 0.0700

Comment:

Channel Link: RU13A17

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU13A17	
To Node:	NU13A13	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	611.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 13.36 ft	Invert: 12.31 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9985.64 ft	Max Depth: 9986.69 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU13A19

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU13A19	
To Node:	NU13A17	
Link Count:	1	
	Invert: 13.13 ft	Invert: 13.36 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 4.00 ft	Max Depth: 4.00 ft

Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	38.00 ft	Op Table:	Op Table:
FHWA Code:	4	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link:	RU13B01	Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 12.04 ft	Invert: 13.13 ft
From Node:	NU13B01	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NU13A19	Geometry: Trapezoidal	
Link Count:	1	Max Depth: 9986.96 ft	Max Depth: 9985.87 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	421.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700

Comment:



Pipe Link: RU13B03		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 12.76 ft	Invert: 12.04 ft
From Node:	NU13B03	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NU13B01	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	36.00 ft	Op Table:	Op Table:
FHWA Code:	4	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240
Comment:			

Channel Link: RU13B07		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 11.87 ft	Invert: 12.76 ft
From Node:	NU13B07	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NU13B03	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9987.13 ft	Max Depth: 9986.24 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	655.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU13B09

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 11.22 ft	Invert: 11.87 ft
From Node: NU13B09	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU13B07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9987.78 ft	Max Depth: 9987.13 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 484.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU13B11

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 11.67 ft	Invert: 11.22 ft
From Node: NU13B11	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NU13B09	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9987.33 ft	Extrapolation: Normal	Max Depth: 9987.78 ft	Extrapolation: Normal
Flow Direction: Both	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)
Damping: 0.0000 ft	Right Slope: 1.500 (h:v)	Bottom Clip		
Length: 396.00 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Contraction Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Expansion Coef: 0.00	Top Clip			
Entr Loss Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Bend Loss Coef: 0.00	Op Table:	Op Table:		
Bend Location: 0.00 dec	Ref Node:	Ref Node:		
Energy Switch: Energy	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU13C01	Upstream		Downstream	
Scenario: 2016 FWCD Update	Invert: 12.68 ft	Manning's N: 0.0700	Invert: 11.67 ft	Manning's N: 0.0700
From Node: NU13C01	Geometry: Trapezoidal		Geometry: Trapezoidal	
To Node: NU13B11	Max Depth: 9986.32 ft	Extrapolation: Normal	Max Depth: 9987.33 ft	Extrapolation: Normal
Link Count: 1	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)
Flow Direction: Both	Right Slope: 1.500 (h:v)	Bottom Clip		
Damping: 0.0000 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Length: 880.00 ft	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Contraction Coef: 0.00	Top Clip			
Expansion Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Entr Loss Coef: 0.00	Ref Node:	Ref Node:		
Exit Loss Coef: 0.00	Op Table:	Op Table:		
Bend Loss Coef: 0.00	Ref Node:	Ref Node:		
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700

Energy Switch: Energy

Top Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU13C05

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 13.68 ft	Invert: 12.68 ft
From Node: NU13C05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU13C01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9985.32 ft	Max Depth: 9986.32 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU13C10

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 14.69 ft	Invert: 13.68 ft
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From Node: NU13C10	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU13C05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9984.31 ft	Max Depth: 9985.32 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU13D01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.49 ft	Invert: 14.69 ft
From Node: NU13D01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU13C10	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.51 ft	Max Depth: 9984.31 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 731.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:

Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU14-A	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.58 ft	Invert: 16.08 ft
From Node: NU14-A	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU14A09	Geometry: Circular	
Link Count: 3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RU14-B	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.58 ft	Invert: 17.08 ft
From Node: NU14-B	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU14B07	Geometry: Circular	
Link Count: 3	Max Depth: 1.00 ft	Max Depth: 1.00 ft

Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	4	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RU14-C	Upstream		Downstream
Scenario:	2016 FWCD Update	Invert: 18.58 ft	Invert: 18.08 ft
From Node:	NU14-C	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NU14C01	Geometry: Circular	
Link Count:	4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	4	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RU14-D	Upstream		Downstream
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Scenario:	2016 FWCD Update	Invert:	19.08 ft	Invert:	18.58 ft
From Node:	NU14-D	Manning's N:	0.0240	Manning's N:	0.0240
To Node:	NU14D01	Geometry:	Circular	Geometry:	Circular
Link Count:	5	Max Depth:	1.00 ft	Max Depth:	1.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.17 ft	Default:	0.17 ft
Length:	40.00 ft	Op Table:		Op Table:	
FHWA Code:	4	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0240	Manning's N:	0.0240
Exit Loss Coef:	0.95	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0240	Manning's N:	0.0240

Comment:

Channel Link: RU14A03

	Upstream	Downstream			
Scenario:	2016 FWCD Update	Invert:	13.19 ft	Invert:	12.31 ft
From Node:	NU14A03	Manning's N:	0.0700	Manning's N:	0.0700
To Node:	NU-140	Geometry:	Trapezoidal	Geometry:	Trapezoidal
Link Count:	1	Max Depth:	9985.81 ft	Max Depth:	9986.69 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	8.00 ft	Bottom Width:	8.00 ft
Length:	398.00 ft	Left Slope:	1.500 (h:v)	Left Slope:	1.500 (h:v)
Contraction Coef:	0.00	Right Slope:	1.500 (h:v)	Right Slope:	1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	1.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0700	Manning's N:	0.0700
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft



Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU14A05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 13.87 ft	Invert: 13.19 ft
From Node: NU14A05	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU14A03	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 29.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU14A09

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 12.31 ft	Invert: 13.87 ft
From Node: NU14A09	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU14A05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9986.69 ft	Max Depth: 9985.13 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 453.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)

Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU14A13	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 12.85 ft	Invert: 12.31 ft
From Node: NU14A13	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU14A09	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9986.15 ft	Max Depth: 9986.69 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU14B01

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU14B01	
To Node:	NU14A13	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	1071.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 13.51 ft	Invert: 12.85 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9985.49 ft	Max Depth: 9986.15 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU14B03

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU14B03	
To Node:	NU14B01	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
	Invert: 13.91 ft	Invert: 13.51 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 5.00 ft	Max Depth: 5.00 ft
	Bottom Clip	
	Default: 0.67 ft	Default: 0.67 ft

Length: 21.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU14B07

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 13.75 ft	Invert: 13.91 ft
From Node: NU14B07	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU14B03	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9985.25 ft	Max Depth: 9985.09 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 668.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU14B13		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 13.51 ft	Invert: 13.75 ft
From Node:	NU14B13	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NU14B07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9985.49 ft	Max Depth: 9985.25 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Channel Link: RU14B15		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 15.56 ft	Invert: 13.51 ft
From Node:	NU14B15	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NU14B13	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9983.44 ft	Max Depth: 9985.49 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	497.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU14B17

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.34 ft	Invert: 15.56 ft
From Node: NU14B17	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU14B15	Geometry: Circular	
Link Count: 1	Max Depth: 3.50 ft	Max Depth: 3.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 32.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU14C01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.06 ft	Invert: 15.34 ft
From Node: NU14C01	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NU14B17	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.94 ft	Max Depth: 9983.66 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 536.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU14C03	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.13 ft	Invert: 16.06 ft
From Node: NU14C03	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU14C01	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.33 ft	Default: 0.33 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:

Manning's N: 0.0240

Manning's N: 0.0240

Comment:

Channel Link: RU14C05

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU14C05	NU14C03
To Node:	NU14C03	NU14C05
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	374.00 ft	374.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
Entr Loss Coef:	0.00	0.00
Exit Loss Coef:	0.00	0.00
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 15.98 ft	Invert: 16.13 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9983.02 ft	Max Depth: 9982.87 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU14C07

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU14C07	NU14C05
To Node:	NU14C05	NU14C07
Link Count:	1	1
Flow Direction:	Both	Both
	Invert: 15.90 ft	Invert: 15.98 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 2.50 ft	Max Depth: 2.50 ft
	Bottom Clip	



Damping: 0.0000 ft	Default: 0.50 ft	Default: 0.50 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU14C09

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.40 ft	Invert: 15.90 ft
From Node: NU14C09	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU14C07	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9982.60 ft	Max Depth: 9983.10 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 240.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU14C11			Upstream	Downstream
Scenario:	2016 FWCD Update		Invert: 16.09 ft	Invert: 16.40 ft
From Node:	NU14C11		Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NU14C09		Geometry: Circular	Geometry: Circular
Link Count:	1		Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction:	Both		Bottom Clip	
Damping:	0.0000 ft		Default: 0.50 ft	Default: 0.50 ft
Length:	25.00 ft		Op Table:	Op Table:
FHWA Code:	4		Ref Node:	Ref Node:
Entr Loss Coef:	0.50		Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95		Top Clip	
Bend Loss Coef:	0.00		Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec		Op Table:	Op Table:
Energy Switch:	Energy		Ref Node:	Ref Node:
			Manning's N: 0.0240	Manning's N: 0.0240
Comment:				

Channel Link: RU14C15			Upstream	Downstream
Scenario:	2016 FWCD Update		Invert: 15.74 ft	Invert: 16.09 ft
From Node:	NU14C15		Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NU14C11		Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1		Max Depth: 9983.26 ft	Max Depth: 9982.91 ft
Flow Direction:	Both		Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft		Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	735.00 ft		Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00		Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00		Bottom Clip	
Entr Loss Coef:	0.00		Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00		Op Table:	Op Table:
Bend Loss Coef:	0.00		Ref Node:	Ref Node:
Bend Location:	0.00 dec		Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy		Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU14C17

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.91 ft	Invert: 15.74 ft
From Node: NU14C17	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU14C15	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 26.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU14C19

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.53 ft	Invert: 15.91 ft
From Node: NU14C19	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU14C17	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9983.47 ft	Max Depth: 9983.09 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft

Length: 439.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU14C21	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.95 ft	Invert: 15.53 ft
From Node: NU14C21	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU14C19	Geometry: Circular	
Link Count: 1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.33 ft	Default: 0.33 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU14D01		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.81 ft	Invert: 15.95 ft
From Node:	NU14D01	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NU14C21	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9982.19 ft	Max Depth: 9983.05 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	652.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Pipe Link: RU14D03		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.29 ft	Invert: 16.81 ft
From Node:	NU14D03	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NU14D01	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.33 ft	Default: 0.33 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	4	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU14D07

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.78 ft	Invert: 17.29 ft
From Node: NU14D07	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU14D03	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9983.22 ft	Max Depth: 9981.71 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 639.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU14D07w

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.78 ft	Invert: 14.84 ft
From Node: NU14D07	Manning's N: 0.0240	Manning's N: 0.0240

To Node:	NP-140	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000	Default: 0.67 ft	Default: 0.67 ft
Length:	70.00 ft	Op Table:	Op Table:
FHWA Code:	4	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RU15-A

		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.58 ft	Invert: 17.08 ft
From Node:	NU15-A	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NU15A07	Geometry: Circular	Geometry: Circular
Link Count:	4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	4	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RU15-B		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.08 ft	Invert: 17.58 ft
From Node:	NU15-B	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NU15B05	Geometry: Circular	Geometry: Circular
Link Count:	5	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	4	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240
Comment:			

Pipe Link: RU15-C		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 18.08 ft	Invert: 17.58 ft
From Node:	NU15-C	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NU15C05	Geometry: Circular	Geometry: Circular
Link Count:	3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	4	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240



Comment:

Pipe Link: RU15-D

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU15-D	
To Node:	NU15C21	
Link Count:	4	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	40.00 ft	
FHWA Code:	4	
Entr Loss Coef:	0.50	
Exit Loss Coef:	0.95	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 18.58 ft	Invert: 18.08 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.00 ft	Max Depth: 1.00 ft
	Bottom Clip	
	Default: 0.17 ft	Default: 0.17 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU15A01

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU15A01	
To Node:	NU-150	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	83.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
	Invert: 12.60 ft	Invert: 12.58 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9986.40 ft	Max Depth: 9986.42 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 1.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU15A03

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 13.78 ft	Invert: 12.60 ft
From Node: NU15A03	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU15A01	Geometry: Circular	
Link Count: 1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.50 ft	Default: 0.50 ft
Length: 46.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU15A07

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 13.08 ft	Invert: 13.78 ft
From Node: NU15A07	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NU15A03	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9985.92 ft	Extrapolation: Normal	Max Depth: 9985.22 ft	Extrapolation: Normal
Flow Direction: Both	Bottom Width: 8.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 8.00 ft	Left Slope: 1.500 (h:v)
Damping: 0.0000 ft	Right Slope: 1.500 (h:v)	Bottom Clip		
Length: 751.00 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Contraction Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Expansion Coef: 0.00	Top Clip			
Entr Loss Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Bend Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700
Bend Location: 0.00 dec				
Energy Switch: Energy				

Comment:

Channel Link: RU15A13	Upstream		Downstream	
Scenario: 2016 FWCD Update	Invert: 13.44 ft	Manning's N: 0.0700	Invert: 13.08 ft	Manning's N: 0.0700
From Node: NU15A13	Geometry: Trapezoidal		Geometry: Trapezoidal	
To Node: NU15A07	Max Depth: 9985.56 ft	Extrapolation: Normal	Max Depth: 9985.92 ft	Extrapolation: Normal
Link Count: 1	Bottom Width: 8.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 8.00 ft	Left Slope: 1.500 (h:v)
Flow Direction: Both	Right Slope: 1.500 (h:v)	Bottom Clip		
Damping: 0.0000 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Length: 880.00 ft	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Contraction Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700
Expansion Coef: 0.00				
Entr Loss Coef: 0.00				
Exit Loss Coef: 0.00				
Bend Loss Coef: 0.00				
Bend Location: 0.00 dec				

Energy Switch: Energy

Top Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU15A17

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 13.65 ft	Invert: 13.44 ft
From Node: NU15A17	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU15A13	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9985.35 ft	Max Depth: 9985.56 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 515.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU15A19

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 13.62 ft	Invert: 13.65 ft
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From Node:	NU15A19	Manning's N:	0.0240	Manning's N:	0.0240
To Node:	NU15A17	Geometry:	Circular	Geometry:	Circular
Link Count:	1	Max Depth:	4.00 ft	Max Depth:	4.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.67 ft	Default:	0.67 ft
Length:	50.00 ft	Op Table:		Op Table:	
FHWA Code:	4	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0240	Manning's N:	0.0240
Exit Loss Coef:	0.95	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0240	Manning's N:	0.0240

Comment:

Channel Link: RU15B01

	Upstream	Downstream	
Scenario:	2016 FWCD Update	Invert: 13.83 ft	
From Node:	NU15B01	Invert: 13.62 ft	
To Node:	NU15A19	Manning's N: 0.0700	
Link Count:	1	Manning's N: 0.0700	
Flow Direction:	Both	Geometry: Trapezoidal	
Damping:	0.0000 ft	Max Depth: 9985.17 ft	
Length:	315.00 ft	Max Depth: 9985.38 ft	
Contraction Coef:	0.00	Extrapolation: Normal	
Expansion Coef:	0.00	Bottom Width: 6.00 ft	
Entr Loss Coef:	0.00	Left Slope: 1.500 (h:v)	
Exit Loss Coef:	0.00	Right Slope: 1.500 (h:v)	
Bend Loss Coef:	0.00	Bottom Clip	
Bend Location:	0.00 dec	Default:	0.00 ft
Energy Switch:	Energy	Op Table:	
		Ref Node:	
		Manning's N:	0.0700
		Top Clip	
		Default:	0.00 ft
		Op Table:	

Ref Node: Ref Node:  
 Manning's N: 0.0700 Manning's N: 0.0700

Comment:

Channel Link: RU15B05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.20 ft	Invert: 13.83 ft
From Node: NU15B05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU15B01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9984.80 ft	Max Depth: 9985.17 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 562.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU15B07

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.09 ft	Invert: 14.20 ft
From Node: NU15B07	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU15B05	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft

Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	29.00 ft	Op Table:	Op Table:
FHWA Code:	4	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link:	RU15B09	Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 14.58 ft	Invert: 14.09 ft
From Node:	NU15B09	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NU15B07	Geometry: Trapezoidal	
Link Count:	1	Max Depth: 9984.42 ft	Max Depth: 9984.91 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	369.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU15B11	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.52 ft	Invert: 14.58 ft
From Node: NU15B11	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU15B09	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 20.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
Comment:		

Channel Link: RU15B13	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 12.68 ft	Invert: 14.52 ft
From Node: NU15B13	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU15B11	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9986.32 ft	Max Depth: 9984.48 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 467.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	



Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU15B15

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 13.65 ft	Invert: 12.68 ft
From Node: NU15B15	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU15B13	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.50 ft	Max Depth: 3.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 32.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU15B17

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 13.82 ft	Invert: 13.65 ft
From Node: NU15B17	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU15B15	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9985.18 ft	Max Depth: 9985.35 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft

Length: 280.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU15C01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.37 ft	Invert: 13.82 ft
From Node: NU15C01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU15B17	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9984.63 ft	Max Depth: 9985.18 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Channel Link: RU15C05

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU15C05	NU15C01
To Node:	NU15C01	NU15C05
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	396.00 ft	396.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
Entr Loss Coef:	0.00	0.00
Exit Loss Coef:	0.00	0.00
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 14.62 ft	Invert: 14.37 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9984.38 ft	Max Depth: 9984.63 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU15C07

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU15C07	NU15C05
To Node:	NU15C05	NU15C07
Link Count:	1	1
Flow Direction:	Both	Both
	Invert: 14.65 ft	Invert: 14.62 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 2.50 ft	Max Depth: 2.50 ft
	Bottom Clip	

Damping: 0.0000 ft	Default: 0.50 ft	Default: 0.50 ft
Length: 16.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU15C09

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.12 ft	Invert: 14.65 ft
From Node: NU15C09	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU15C07	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9983.88 ft	Max Depth: 9984.35 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 320.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU15C11		
	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU15C11	
To Node:	NU15C09	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	30.00 ft	
FHWA Code:	4	
Entr Loss Coef:	0.50	
Exit Loss Coef:	0.95	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 15.11 ft	Invert: 15.12 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 2.50 ft	Max Depth: 2.50 ft
	Bottom Clip	
	Default: 0.50 ft	Default: 0.50 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
Comment:		

Channel Link: RU15C13		
	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU15C13	
To Node:	NU15C11	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	261.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 15.04 ft	Invert: 15.11 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9983.96 ft	Max Depth: 9983.89 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU15C15

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.18 ft	Invert: 15.04 ft
From Node: NU15C15	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU15C13	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU15C19

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.11 ft	Invert: 15.18 ft
From Node: NU15C19	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU15C15	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.89 ft	Max Depth: 9983.82 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft

Length: 707.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU15C21

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.89 ft	Invert: 16.11 ft
From Node: NU15C21	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU15C19	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9982.11 ft	Max Depth: 9982.89 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 604.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Pipe Link: RU15C23

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU15C23	NU15C21
To Node:	NU15C21	NU15C23
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	39.00 ft	39.00 ft
FHWA Code:	4	4
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 16.83 ft	Invert: 16.89 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 2.00 ft	Max Depth: 2.00 ft
	Bottom Clip	Bottom Clip
	Default: 0.33 ft	Default: 0.33 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	Top Clip
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU15D01

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU15D01	NU15C23
To Node:	NU15C23	NU15D01
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	237.00 ft	237.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
	Invert: 17.58 ft	Invert: 16.83 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9981.42 ft	Max Depth: 9982.17 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	Bottom Clip



Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU15D05

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 19.08 ft	Invert: 17.58 ft
From Node: NU15D05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU15D01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9979.92 ft	Max Depth: 9981.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 734.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)

Bottom Clip

Expansion Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.00	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700
Bend Location: 0.00 dec		
Energy Switch: Energy		

Top Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU16-A	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.58 ft	Invert: 17.08 ft
From Node: NU16-A	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU16A07	Geometry: Circular	Geometry: Circular
Link Count: 3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
Comment:		

Pipe Link: RU16-B	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.58 ft	Invert: 17.08 ft
From Node: NU16-B	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU16B05	Geometry: Circular	Geometry: Circular
Link Count: 4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RU16-C

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU16-C	
To Node:	NU16C05	
Link Count:	3	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	40.00 ft	
FHWA Code:	4	
Entr Loss Coef:	0.50	
Exit Loss Coef:	0.95	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 17.58 ft	Invert: 17.08 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.00 ft	Max Depth: 1.00 ft
	Bottom Clip	
	Default: 0.17 ft	Default: 0.17 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RU16-D

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU16-D	
To Node:	NU16D01	
Link Count:	4	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	40.00 ft	
FHWA Code:	4	
Entr Loss Coef:	0.50	
Exit Loss Coef:	0.95	
	Invert: 18.58 ft	Invert: 18.08 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.00 ft	Max Depth: 1.00 ft
	Bottom Clip	
	Default: 0.17 ft	Default: 0.17 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU16A01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.20 ft	Invert: 13.58 ft
From Node: NU16A01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU-160	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9983.80 ft	Max Depth: 9985.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 40.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 1.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU16A03

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.20 ft	Invert: 11.08 ft
From Node: NU16A03	Manning's N: 0.0240	Manning's N: 0.0240

To Node:	NU16A01	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.50 ft	Default: 0.50 ft
Length:	36.00 ft	Op Table:	Op Table:
FHWA Code:	4	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU16A05

		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 15.55 ft	Invert: 15.20 ft
From Node:	NU16A05	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NU16A03	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9983.45 ft	Max Depth: 9983.80 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	387.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Channel Link: RU16A07

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU16A07	
To Node:	NU16A05	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	417.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 15.55 ft	Invert: 15.20 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9983.45 ft	Max Depth: 9983.80 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU16A11

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU16A11	
To Node:	NU16A07	
Link Count:	1	
Flow Direction:	Both	
	Invert: 16.30 ft	Invert: 15.55 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9982.70 ft	Max Depth: 9983.45 ft
	Extrapolation: Normal	Extrapolation: Normal

Damping:	0.0000 ft	Bottom Width:	8.00 ft	Bottom Width:	8.00 ft
Length:	880.00 ft	Left Slope:	1.500 (h:v)	Left Slope:	1.500 (h:v)
Contraction Coef:	0.00	Right Slope:	1.500 (h:v)	Right Slope:	1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0700	Manning's N:	0.0700
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0700	Manning's N:	0.0700

Comment:

Channel Link: RU16A13

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU16A13	
To Node:	NU16A11	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	330.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 16.57 ft	Invert: 16.30 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9982.43 ft	Max Depth: 9982.70 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:

Ref Node: Ref Node:  
 Manning's N: 0.0700 Manning's N: 0.0700

Comment:

Pipe Link: RU16A15

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU16A15	NU16A13
To Node:	NU16A13	NU16A15
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	40.00 ft	40.00 ft
FHWA Code:	4	4
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 16.33 ft	Invert: 16.57 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 3.50 ft	Max Depth: 3.50 ft
	Bottom Clip	Bottom Clip
	Default: 0.67 ft	Default: 0.67 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	Top Clip
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU16B01

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU16B01	NU16A15
To Node:	NU16A15	NU16B01
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	511.00 ft	511.00 ft
Contraction Coef:	0.00	0.00
	Invert: 15.58 ft	Invert: 16.33 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9983.42 ft	Max Depth: 9982.67 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)



Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU16B05	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.55 ft	Invert: 15.58 ft
From Node: NU16B05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU16B01	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9984.45 ft	Max Depth: 9983.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 717.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU16B07			Upstream	Downstream
Scenario:	2016 FWCD Update	Invert:	14.46 ft	Invert: 14.55 ft
From Node:	NU16B07	Manning's N:	0.0240	Manning's N: 0.0240
To Node:	NU16B05	Geometry:	Circular	Geometry: Circular
Link Count:	1	Max Depth:	4.00 ft	Max Depth: 4.00 ft
Flow Direction:	Both	Bottom Clip		
Damping:	0.0000 ft	Default:	0.67 ft	Default: 0.67 ft
Length:	25.00 ft	Op Table:		Op Table:
FHWA Code:	4	Ref Node:		Ref Node:
Entr Loss Coef:	0.50	Manning's N:	0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip		
Bend Loss Coef:	0.00	Default:	0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:
Energy Switch:	Energy	Ref Node:		Ref Node:
		Manning's N:	0.0240	Manning's N: 0.0240
Comment:				

Channel Link: RU16B11			Upstream	Downstream
Scenario:	2016 FWCD Update	Invert:	14.71 ft	Invert: 14.46 ft
From Node:	NU16B11	Manning's N:	0.0700	Manning's N: 0.0700
To Node:	NU16B07	Geometry:	Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth:	9984.29 ft	Max Depth: 9984.54 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width:	6.00 ft	Bottom Width: 6.00 ft
Length:	520.00 ft	Left Slope:	1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope:	1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip		
Entr Loss Coef:	0.00	Default:	0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:
Bend Loss Coef:	0.00	Ref Node:		Ref Node:
Bend Location:	0.00 dec	Manning's N:	0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip		

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU16B13

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.15 ft	Invert: 14.71 ft
From Node: NU16B13	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU16B11	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.50 ft	Max Depth: 3.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU16B15

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.28 ft	Invert: 15.15 ft
From Node: NU16B15	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU16B13	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9983.72 ft	Max Depth: 9983.85 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft

Length: 477.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU16B17

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.31 ft	Invert: 15.28 ft
From Node: NU16B17	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU16B15	Geometry: Circular	
Link Count: 1	Max Depth: 3.50 ft	Max Depth: 3.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 30.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU16C01		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 14.68 ft	Invert: 15.31 ft
From Node:	NU16C01	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NU16B17	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9984.32 ft	Max Depth: 9983.69 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	902.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Pipe Link: RU16C03		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 14.96 ft	Invert: 14.68 ft
From Node:	NU16C03	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NU16C01	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 4.50 ft	Max Depth: 4.50 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	4	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU16C05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.89 ft	Invert: 14.96 ft
From Node: NU16C05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU16C03	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9984.11 ft	Max Depth: 9984.04 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 195.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU16C07

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.93 ft	Invert: 14.89 ft
From Node: NU16C07	Manning's N: 0.0240	Manning's N: 0.0240

To Node:	NU16C05	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000	Default: 0.50 ft	Default: 0.50 ft
Length:	39.00 ft	Op Table:	Op Table:
FHWA Code:	4	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU16C09

		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 15.79 ft	Invert: 14.93 ft
From Node:	NU16C09	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NU16C07	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9983.21 ft	Max Depth: 9984.07 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	477.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Pipe Link: RU16C11

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU16C11	NU16C09
To Node:	NU16C09	NU16C11
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	39.00 ft	39.00 ft
FHWA Code:	4	4
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 15.80 ft	Invert: 15.79 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 2.50 ft	Max Depth: 2.50 ft
	Bottom Clip	Bottom Clip
	Default: 0.50 ft	Default: 0.50 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	Top Clip
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU16C15

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU16C15	NU16C11
To Node:	NU16C11	NU16C15
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	909.00 ft	909.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
	Invert: 15.79 ft	Invert: 15.80 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9983.21 ft	Max Depth: 9983.20 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	Bottom Clip



Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU16D01

Scenario: 2016 FWCD Update  
 From Node: NU16D01  
 To Node: NU16C15  
 Link Count: 1  
 Flow Direction: Both  
 Damping: 0.0000 ft  
 Length: 748.00 ft  
 Contraction Coef: 0.00  
 Expansion Coef: 0.00  
 Entr Loss Coef: 0.00  
 Exit Loss Coef: 0.00  
 Bend Loss Coef: 0.00  
 Bend Location: 0.00 dec  
 Energy Switch: Energy

Upstream

Invert: 15.79 ft  
 Manning's N: 0.0700  
 Geometry: Trapezoidal  
 Max Depth: 9983.21 ft  
 Extrapolation: Normal  
 Bottom Width: 6.00 ft  
 Left Slope: 1.500 (h:v)  
 Right Slope: 1.500 (h:v)

Downstream

Invert: 15.79 ft  
 Manning's N: 0.0700  
 Geometry: Trapezoidal  
 Max Depth: 9983.21 ft  
 Extrapolation: Normal  
 Bottom Width: 6.00 ft  
 Left Slope: 1.500 (h:v)  
 Right Slope: 1.500 (h:v)

Bottom Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Top Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU16D03		
	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU16D03	
To Node:	NU16D01	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	36.00 ft	
FHWA Code:	4	
Entr Loss Coef:	0.50	
Exit Loss Coef:	0.95	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 15.85 ft	Invert: 15.79 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 3.50 ft	Max Depth: 3.50 ft
	Bottom Clip	
	Default: 0.67 ft	Default: 0.67 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
Comment:		

Channel Link: RU16D05		
	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU16D05	
To Node:	NU16D03	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	859.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 16.65 ft	Invert: 15.85 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9982.35 ft	Max Depth: 9983.15 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU17-A

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.08 ft	Invert: 17.58 ft
From Node: NU17-A	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU17A09	Geometry: Circular	Geometry: Circular
Link Count: 3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RU17-B

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.08 ft	Invert: 17.58 ft
From Node: NU17-B	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU17B05	Geometry: Circular	Geometry: Circular
Link Count: 4	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft

Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RU17-C

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.08 ft	Invert: 17.58 ft
From Node: NU17-C	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU17C01	Geometry: Circular	
Link Count: 3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RU17-D

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.08 ft	Invert: 18.58 ft
From Node: NU17-D	Manning's N: 0.0240	Manning's N: 0.0240

To Node:	NU17D01	Geometry: Circular	Geometry: Circular
Link Count:	3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000	Default: 0.17 ft	Default: 0.17 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	4	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU17A01

	Upstream	Downstream	
Scenario:	2016 FWCD Update	Invert: 12.69 ft	
From Node:	NU17A01	Manning's N: 0.0700	
To Node:	NU-170	Geometry: Trapezoidal	
Link Count:	1	Max Depth: 9986.31 ft	
Flow Direction:	Both	Extrapolation: Normal	
Damping:	0.0000	Bottom Width: 8.00 ft	
Length:	58.00 ft	Left Slope: 1.500 (h:v)	
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	
Exit Loss Coef:	1.00	Op Table:	
Bend Loss Coef:	0.00	Ref Node:	
Bend Location:	0.00 dec	Manning's N: 0.0700	
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	
		Op Table:	
		Ref Node:	

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Pipe Link: RU17A03

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU17A03	NU17A01
To Node:	NU17A01	NU17A03
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	29.00 ft	29.00 ft
FHWA Code:	4	4
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 13.41 ft	Invert: 12.69 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 2.50 ft	Max Depth: 2.50 ft
	Bottom Clip	Bottom Clip
	Default: 0.50 ft	Default: 0.50 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	Top Clip
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU17A05

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU17A05	NU17A03
To Node:	NU17A03	NU17A05
Link Count:	1	1
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	111.00 ft	111.00 ft
Contraction Coef:	0.00	0.00
Expansion Coef:	0.00	0.00
	Invert: 14.37 ft	Invert: 13.41 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9984.63 ft	Max Depth: 9985.59 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	Bottom Clip

Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU17A09

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.53 ft	Invert: 14.37 ft
From Node: NU17A09	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU17A05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9984.47 ft	Max Depth: 9984.63 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 681.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)

Bottom Clip

Expansion Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.00	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700
Bend Location: 0.00 dec	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU17A13		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 14.75 ft	Invert: 14.53 ft
From Node:	NU17A13	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NU17A09	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9984.25 ft	Max Depth: 9984.47 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Channel Link: RU17B01		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 14.96 ft	Invert: 14.75 ft
From Node:	NU17B01	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NU17A13	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9984.04 ft	Max Depth: 9984.25 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft



Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU17B05

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 15.17 ft	Invert: 14.96 ft
From Node: NU17B05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU17B01	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9983.83 ft	Max Depth: 9984.04 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)

Bottom Clip

Expansion Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.00	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700
Bend Location: 0.00 dec	Top Clip	

Energy Switch: Energy	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU17B10		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 15.38 ft	Invert: 15.17 ft
From Node:	NU17B10	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NU17B05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9983.62 ft	Max Depth: 9983.83 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Channel Link: RU17C01		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 15.68 ft	Invert: 15.38 ft
From Node:	NU17C01	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NU17B10	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9983.32 ft	Max Depth: 9983.62 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU17C05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.98 ft	Invert: 15.68 ft
From Node: NU17C05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU17C01	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9983.02 ft	Max Depth: 9983.32 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU17C10		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.28 ft	Invert: 15.98 ft
From Node:	NU17C10	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NU17C05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9982.72 ft	Max Depth: 9983.02 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Channel Link: RU17D01		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 16.56 ft	Invert: 16.28 ft
From Node:	NU17D01	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NU17C10	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9982.44 ft	Max Depth: 9982.72 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU17D05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.98 ft	Invert: 16.56 ft
From Node: NU17D05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU17D01	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9982.02 ft	Max Depth: 9982.44 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 471.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU18-A	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.58 ft	Invert: 17.08 ft
From Node: NU18-A	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU18A09	Geometry: Circular	Geometry: Circular
Link Count: 3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
Comment:		

Pipe Link: RU18-B	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.08 ft	Invert: 16.58 ft
From Node: NU18-B	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU18B05	Geometry: Circular	Geometry: Circular
Link Count: 3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RU18-C	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.08 ft	Invert: 17.58 ft
From Node: NU18-C	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU18C01	Geometry: Circular	Geometry: Circular
Link Count: 3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RU18-D	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.08 ft	Invert: 18.58 ft
From Node: NU18-D	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU18D01	Geometry: Circular	Geometry: Circular
Link Count: 3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU18A01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 12.23 ft	Invert: 11.58 ft
From Node: NU18A01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU-180	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9986.77 ft	Max Depth: 9987.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 84.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 1.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU18A03

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 11.53 ft	Invert: 12.23 ft
From Node: NU18A03	Manning's N: 0.0240	Manning's N: 0.0240



To Node:	NU18A01	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.50 ft	Default: 0.50 ft
Length:	30.00 ft	Op Table:	Op Table:
FHWA Code:	4	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU18A05

		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 14.44 ft	Invert: 11.53 ft
From Node:	NU18A05	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NU18A03	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9984.56 ft	Max Depth: 9987.47 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	213.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Channel Link: RU18A09

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU18A09	
To Node:	NU18A05	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	553.00 ft	
Contraction Coef:	0.00	
Expansion Coef:	0.00	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 14.58 ft	Invert: 14.44 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9984.42 ft	Max Depth: 9984.56 ft
	Extrapolation: Normal	Extrapolation: Normal
	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU18A13

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU18A13	
To Node:	NU18A09	
Link Count:	1	
Flow Direction:	Both	
	Invert: 14.80 ft	Invert: 14.58 ft
	Manning's N: 0.0700	Manning's N: 0.0700
	Geometry: Trapezoidal	Geometry: Trapezoidal
	Max Depth: 9984.20 ft	Max Depth: 9984.42 ft
	Extrapolation: Normal	Extrapolation: Normal

Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU18B01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.01 ft	Invert: 14.80 ft
From Node: NU18B01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU18A13	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9983.99 ft	Max Depth: 9984.20 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:

Ref Node: Ref Node:  
 Manning's N: 0.0700 Manning's N: 0.0700

Comment:

Channel Link: RU18B05	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.23 ft	Invert: 15.01 ft
From Node: NU18B05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU18B01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9983.77 ft	Max Depth: 9983.99 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU18B10	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.45 ft	Invert: 15.23 ft
From Node: NU18B10	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU18B05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9983.55 ft	Max Depth: 9983.77 ft

Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU18C01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.58 ft	Invert: 15.45 ft
From Node: NU18C01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU18B10	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9983.42 ft	Max Depth: 9983.55 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft

Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU18C05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.19 ft	Invert: 15.58 ft
From Node: NU18C05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU18C01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9983.81 ft	Max Depth: 9983.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU18C10

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.98 ft	Invert: 15.19 ft
From Node: NU18C10	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU18C05	Geometry: Trapezoidal	Geometry: Trapezoidal

Link Count:	1	Max Depth:	9984.02 ft	Max Depth:	9983.81 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	6.00 ft	Bottom Width:	6.00 ft
Length:	880.00 ft	Left Slope:	1.500 (h:v)	Left Slope:	1.500 (h:v)
Contraction Coef:	0.00	Right Slope:	1.500 (h:v)	Right Slope:	1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0700	Manning's N:	0.0700
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0700	Manning's N:	0.0700

Comment:

Channel Link: RU18C13

	Upstream	Downstream	
Scenario:	2016 FWCD Update	Invert: 15.08 ft	
From Node:	NU18C13	Invert: 14.98 ft	
To Node:	NU18C10	Manning's N: 0.0700	
Link Count:	1	Manning's N: 0.0700	
Flow Direction:	Both	Geometry: Trapezoidal	
Damping:	0.0000 ft	Max Depth: 9983.92 ft	
Length:	299.00 ft	Max Depth: 9984.02 ft	
Contraction Coef:	0.00	Extrapolation: Normal	
Expansion Coef:	0.00	Bottom Width: 6.00 ft	
Entr Loss Coef:	0.00	Left Slope: 1.500 (h:v)	
Exit Loss Coef:	0.00	Right Slope: 1.500 (h:v)	
Bend Loss Coef:	0.00	Bottom Clip	
Bend Location:	0.00 dec	Default:	0.00 ft
Energy Switch:	Energy	Op Table:	
		Ref Node:	
		Manning's N:	0.0700
		Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU18C15

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.78 ft	Invert: 15.08 ft
From Node: NU18C15	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NU18C13	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.33 ft	Default: 0.33 ft
Length: 112.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Channel Link: RU18D01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.60 ft	Invert: 14.78 ft
From Node: NU18D01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU18C15	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.40 ft	Max Depth: 9984.22 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft



Length: 470.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU18D05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.85 ft	Invert: 16.60 ft
From Node: NU18D05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU18D01	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9980.15 ft	Max Depth: 9982.40 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 737.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:

Manning's N: 0.0700

Manning's N: 0.0700

Comment:

Pipe Link: RU19-A

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU19-A	NU19-B
To Node:	NU19A09	NU19B05
Link Count:	3	3
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	40.00 ft	40.00 ft
FHWA Code:	4	4
Entr Loss Coef:	0.50	0.50
Exit Loss Coef:	0.95	0.95
Bend Loss Coef:	0.00	0.00
Bend Location:	0.00 dec	0.00 dec
Energy Switch:	Energy	Energy
	Invert: 17.58 ft	Invert: 17.08 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.00 ft	Max Depth: 1.00 ft
	Bottom Clip	
	Default: 0.17 ft	Default: 0.17 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RU19-B

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU19-B	NU19-A
To Node:	NU19B05	NU19A09
Link Count:	3	3
Flow Direction:	Both	Both
Damping:	0.0000 ft	0.0000 ft
Length:	40.00 ft	40.00 ft
FHWA Code:	4	4
Entr Loss Coef:	0.50	0.50
	Invert: 17.58 ft	Invert: 17.08 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.00 ft	Max Depth: 1.00 ft
	Bottom Clip	
	Default: 0.17 ft	Default: 0.17 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RU19-C	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.08 ft	Invert: 17.58 ft
From Node: NU19-C	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU19C01	Geometry: Circular	Geometry: Circular
Link Count: 3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RU19-D	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.08 ft	Invert: 18.58 ft
From Node: NU19-D	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU19D01	Geometry: Circular	Geometry: Circular
Link Count: 3	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	

Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU19A01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 12.09 ft	Invert: 11.58 ft
From Node: NU19A01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU-190	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9986.91 ft	Max Depth: 9987.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 95.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 1.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU19A03		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 11.98 ft	Invert: 12.09 ft
From Node:	NU19A03	Manning's N: 0.0240	Manning's N: 0.0240
To Node:	NU19A01	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 5.50 ft	Max Depth: 5.50 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length:	40.00 ft	Op Table:	Op Table:
FHWA Code:	4	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef:	0.95	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0240	Manning's N: 0.0240
Comment:			

Channel Link: RU19A05		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 13.58 ft	Invert: 11.98 ft
From Node:	NU19A05	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NU19A03	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9985.42 ft	Max Depth: 9987.02 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	136.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU19A09

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 13.75 ft	Invert: 13.58 ft
From Node: NU19A09	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU19A05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9985.25 ft	Max Depth: 9985.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length: 610.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU19A13

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 13.99 ft	Invert: 13.75 ft
From Node: NU19A13	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NU19A09	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9985.01 ft	Extrapolation: Normal	Max Depth: 9985.25 ft	Extrapolation: Normal
Flow Direction: Both	Bottom Width: 8.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 8.00 ft	Left Slope: 1.500 (h:v)
Damping: 0.0000 ft	Right Slope: 1.500 (h:v)	Bottom Clip		
Length: 880.00 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Contraction Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Expansion Coef: 0.00	Top Clip			
Entr Loss Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Bend Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700
Bend Location: 0.00 dec				
Energy Switch: Energy				

Comment:

Channel Link: RU19B01	Upstream		Downstream	
Scenario: 2016 FWCD Update	Invert: 14.24 ft	Manning's N: 0.0700	Invert: 13.99 ft	Manning's N: 0.0700
From Node: NU19B01	Geometry: Trapezoidal		Geometry: Trapezoidal	
To Node: NU19A13	Max Depth: 9984.76 ft	Extrapolation: Normal	Max Depth: 9985.01 ft	Extrapolation: Normal
Link Count: 1	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)
Flow Direction: Both	Right Slope: 1.500 (h:v)	Bottom Clip		
Damping: 0.0000 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Length: 880.00 ft	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Contraction Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700
Expansion Coef: 0.00				
Entr Loss Coef: 0.00				
Exit Loss Coef: 0.00				
Bend Loss Coef: 0.00				
Bend Location: 0.00 dec				

Energy Switch: Energy

Top Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU19B05

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 14.48 ft	Invert: 14.24 ft
From Node: NU19B05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU19B01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9984.52 ft	Max Depth: 9984.76 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU19B10

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 14.73 ft	Invert: 14.48 ft
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From Node: NU19B10	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU19B05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9984.27 ft	Max Depth: 9984.52 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU19C01	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 15.64 ft	Invert: 14.73 ft
From Node: NU19C01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU19B10	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9983.36 ft	Max Depth: 9984.27 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:

Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU19C05	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.92 ft	Invert: 15.64 ft
From Node: NU19C05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU19C01	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9982.08 ft	Max Depth: 9983.36 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 718.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU19C07	Upstream	Downstream
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Scenario:	2016 FWCD Update	Invert:	16.83 ft	Invert:	16.92 ft
From Node:	NU19C07	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	NU19C05	Geometry:	Circular	Geometry:	Circular
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.67 ft	Default:	0.67 ft
Length:	94.00 ft	Op Table:		Op Table:	
FHWA Code:	4	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0120	Manning's N:	0.0120
Exit Loss Coef:	0.95	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0120	Manning's N:	0.0120

Comment:

Channel Link: RU19C11	Upstream	Downstream			
Scenario:	2016 FWCD Update	Invert:	17.10 ft	Invert:	16.83 ft
From Node:	NU19C11	Manning's N:	0.0700	Manning's N:	0.0700
To Node:	NU19C07	Geometry:	Trapezoidal	Geometry:	Trapezoidal
Link Count:	1	Max Depth:	9981.90 ft	Max Depth:	9982.17 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	6.00 ft	Bottom Width:	6.00 ft
Length:	948.00 ft	Left Slope:	1.500 (h:v)	Left Slope:	1.500 (h:v)
Contraction Coef:	0.00	Right Slope:	1.500 (h:v)	Right Slope:	1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0700	Manning's N:	0.0700
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft

Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU19D01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.29 ft	Invert: 17.10 ft
From Node: NU19D01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU19C11	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9980.71 ft	Max Depth: 9981.90 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU19D05

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.97 ft	Invert: 18.29 ft
From Node: NU19D05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU19D01	Geometry: Trapezoidal	Geometry: Trapezoidal

Link Count: 1	Max Depth: 9980.03 ft	Max Depth: 9980.71 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 723.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU20-A

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 18.08 ft	Invert: 17.58 ft
From Node: NU20-A	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU20A09	Geometry: Circular	
Link Count: 2	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RU20-B

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU20-B	
To Node:	NU20B05	
Link Count:	2	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	40.00 ft	
FHWA Code:	4	
Entr Loss Coef:	0.50	
Exit Loss Coef:	0.95	
Bend Loss Coef:	0.00	
Bend Location:	0.00 dec	
Energy Switch:	Energy	
	Invert: 18.08 ft	Invert: 17.58 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.00 ft	Max Depth: 1.00 ft
	Bottom Clip	
	Default: 0.17 ft	Default: 0.17 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RU20-C

	Upstream	Downstream
Scenario:	2016 FWCD Update	
From Node:	NU20-C	
To Node:	NU20C05	
Link Count:	2	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	40.00 ft	
FHWA Code:	4	
Entr Loss Coef:	0.50	
Exit Loss Coef:	0.95	
	Invert: 18.58 ft	Invert: 18.08 ft
	Manning's N: 0.0240	Manning's N: 0.0240
	Geometry: Circular	Geometry: Circular
	Max Depth: 1.00 ft	Max Depth: 1.00 ft
	Bottom Clip	
	Default: 0.17 ft	Default: 0.17 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240
	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Pipe Link: RU20-D

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 19.08 ft	Invert: 18.58 ft
From Node: NU20-D	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU20D01	Geometry: Circular	Geometry: Circular
Link Count: 2	Max Depth: 1.00 ft	Max Depth: 1.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.17 ft	Default: 0.17 ft
Length: 40.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:

Channel Link: RU20A01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 13.10 ft	Invert: 12.58 ft
From Node: NU20A01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU-200	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9985.90 ft	Max Depth: 9986.42 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft

Length: 97.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 1.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU20A03

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 12.39 ft	Invert: 13.11 ft
From Node: NU20A03	Manning's N: 0.0240	Manning's N: 0.0240
To Node: NU20A01	Geometry: Circular	
Link Count: 1	Max Depth: 5.50 ft	Max Depth: 5.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 20.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0240	Manning's N: 0.0240
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0240	Manning's N: 0.0240

Comment:



Channel Link: RU20A09		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 13.38 ft	Invert: 12.39 ft
From Node:	NU20A09	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NU20A03	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9985.62 ft	Max Depth: 9986.61 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	764.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Channel Link: RU20A13		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 14.06 ft	Invert: 13.38 ft
From Node:	NU20A13	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NU20A09	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9984.94 ft	Max Depth: 9985.62 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 8.00 ft
Length:	880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU20B01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.73 ft	Invert: 14.06 ft
From Node: NU20B01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU20A13	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9984.27 ft	Max Depth: 9984.94 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)

Bottom Clip

Expansion Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.00	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0700	Manning's N: 0.0700
Bend Location: 0.00 dec	Top Clip	

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU20B05		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 15.40 ft	Invert: 14.73 ft
From Node:	NU20B05	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NU20B01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9983.60 ft	Max Depth: 9984.27 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0700	Manning's N: 0.0700
Comment:			

Channel Link: RU20B11		Upstream	Downstream
Scenario:	2016 FWCD Update	Invert: 17.05 ft	Invert: 15.40 ft
From Node:	NU20B11	Manning's N: 0.0700	Manning's N: 0.0700
To Node:	NU20B05	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 9981.95 ft	Max Depth: 9983.60 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length:	1123.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef:	0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU20B13

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.08 ft	Invert: 17.05 ft
From Node: NU20B13	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NU20B11	Geometry: Circular	
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.67 ft	Default: 0.67 ft
Length: 93.00 ft	Op Table:	Op Table:
FHWA Code: 4	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0120	Manning's N: 0.0120
Exit Loss Coef: 0.95	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Channel Link: RU20C01

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.25 ft	Invert: 17.08 ft
From Node: NU20C01	Manning's N: 0.0700	Manning's N: 0.0700

To Node: NU20B13	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9982.75 ft	Extrapolation: Normal	Max Depth: 9981.92 ft	Extrapolation: Normal
Flow Direction: Both	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)
Damping: 0.0000 ft	Right Slope: 1.500 (h:v)	Bottom Clip		
Length: 545.00 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Contraction Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Expansion Coef: 0.00	Top Clip			
Entr Loss Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Bend Loss Coef: 0.00	Op Table:	Op Table:		
Bend Location: 0.00 dec	Ref Node:	Ref Node:		
Energy Switch: Energy	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU20C05	Upstream		Downstream	
Scenario: 2016 FWCD Update	Invert: 16.36 ft	Manning's N: 0.0700	Invert: 16.25 ft	Manning's N: 0.0700
From Node: NU20C05	Geometry: Trapezoidal		Geometry: Trapezoidal	
To Node: NU20C01	Max Depth: 9982.64 ft	Extrapolation: Normal	Max Depth: 9982.75 ft	Extrapolation: Normal
Link Count: 1	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)	Bottom Width: 6.00 ft	Left Slope: 1.500 (h:v)
Flow Direction: Both	Right Slope: 1.500 (h:v)	Bottom Clip		
Damping: 0.0000 ft	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Length: 880.00 ft	Ref Node:	Ref Node:	Manning's N: 0.0700	Manning's N: 0.0700
Contraction Coef: 0.00	Top Clip			
Expansion Coef: 0.00	Default: 0.00 ft	Op Table:	Default: 0.00 ft	Op Table:
Entr Loss Coef: 0.00	Ref Node:	Ref Node:		
Exit Loss Coef: 0.00	Op Table:	Op Table:		
Bend Loss Coef: 0.00	Ref Node:	Ref Node:		
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700	Manning's N: 0.0700

Energy Switch: Energy

Top Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU20C10

Upstream

Downstream

Scenario: 2016 FWCD Update  
 From Node: NU20C10  
 To Node: NU20C05  
 Link Count: 1  
 Flow Direction: Both  
 Damping: 0.0000 ft  
 Length: 880.00 ft  
 Contraction Coef: 0.00  
 Expansion Coef: 0.00  
 Entr Loss Coef: 0.00  
 Exit Loss Coef: 0.00  
 Bend Loss Coef: 0.00  
 Bend Location: 0.00 dec  
 Energy Switch: Energy

Invert: 16.91 ft	Invert: 16.36 ft
Manning's N: 0.0700	Manning's N: 0.0700
Geometry: Trapezoidal	
Max Depth: 9982.09 ft	Max Depth: 9982.64 ft
Extrapolation: Normal	Extrapolation: Normal
Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)

Bottom Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Top Clip

Default: 0.00 ft	Default: 0.00 ft
Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU20D01

Upstream

Downstream

Scenario: 2016 FWCD Update	Invert: 17.45 ft	Invert: 16.91 ft
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From Node: NU20D01	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU20C10	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.55 ft	Max Depth: 9982.09 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 880.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU20D05	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 17.81 ft	Invert: 17.45 ft
From Node: NU20D05	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU20D01	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9981.19 ft	Max Depth: 9981.55 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 6.00 ft	Bottom Width: 6.00 ft
Length: 763.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.00	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.00	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:

Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU23FJV1	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 14.30 ft	Invert: 14.00 ft
From Node: NU23FJV1	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU-230	Geometry: Trapezoidal	
Link Count: 1	Max Depth: 9984.70 ft	Max Depth: 9985.00 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 10.00 ft	Bottom Width: 10.00 ft
Length: 150.00 ft	Left Slope: 1.250 (h:v)	Left Slope: 1.250 (h:v)
Contraction Coef: 0.10	Right Slope: 1.250 (h:v)	Right Slope: 1.250 (h:v)
Expansion Coef: 0.30	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RU23FJV2	Upstream	Downstream
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Scenario:	2016 FWCD Update	Invert:	13.20 ft	Invert:	13.30 ft
From Node:	NU23FJV2	Manning's N:	0.0240	Manning's N:	0.0240
To Node:	NU23FJV1	Geometry:	Circular	Geometry:	Circular
Link Count:	1	Max Depth:	2.50 ft	Max Depth:	2.50 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	106.00 ft	Op Table:		Op Table:	
FHWA Code:	4	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0240	Manning's N:	0.0240
Exit Loss Coef:	0.00	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0240	Manning's N:	0.0240

Comment:

Channel Link: RU23FJV3	Upstream	Downstream			
Scenario:	2016 FWCD Update	Invert:	15.00 ft	Invert:	14.00 ft
From Node:	NU23FJV3	Manning's N:	0.0700	Manning's N:	0.0700
To Node:	NU23FJV2	Geometry:	Trapezoidal	Geometry:	Trapezoidal
Link Count:	1	Max Depth:	9984.00 ft	Max Depth:	9985.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	10.00 ft	Bottom Width:	8.00 ft
Length:	1311.00 ft	Left Slope:	1.500 (h:v)	Left Slope:	1.500 (h:v)
Contraction Coef:	0.10	Right Slope:	1.500 (h:v)	Right Slope:	1.500 (h:v)
Expansion Coef:	0.30	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0700	Manning's N:	0.0700
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft

Op Table:	Op Table:
Ref Node:	Ref Node:
Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Channel Link: RU23FJV4

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 16.50 ft	Invert: 15.00 ft
From Node: NU23FJV4	Manning's N: 0.0700	Manning's N: 0.0700
To Node: NU23FJV3	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count: 1	Max Depth: 9982.50 ft	Max Depth: 9984.00 ft
Flow Direction: Both	Extrapolation: Normal	Extrapolation: Normal
Damping: 0.0000 ft	Bottom Width: 8.00 ft	Bottom Width: 10.00 ft
Length: 2926.00 ft	Left Slope: 1.500 (h:v)	Left Slope: 1.500 (h:v)
Contraction Coef: 0.10	Right Slope: 1.500 (h:v)	Right Slope: 1.500 (h:v)
Expansion Coef: 0.30	Bottom Clip	
Entr Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef: 0.00	Op Table:	Op Table:
Bend Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Location: 0.00 dec	Manning's N: 0.0700	Manning's N: 0.0700
Energy Switch: Energy	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0700	Manning's N: 0.0700

Comment:

Pipe Link: RWETLDIN

	Upstream	Downstream
Scenario: 2016 FWCD Update	Invert: 21.23 ft	Invert: 21.23 ft
From Node: NLAKE	Manning's N: 0.0220	Manning's N: 0.0220
To Node: NWETLND	Geometry: Horizontal Ellipse	Geometry: Horizontal Ellipse

Link Count:	1	Max Depth:	1.50 ft	Max Depth:	1.50 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000	Default:	0.33 ft	Default:	0.33 ft
Length:	40.00 ft	Op Table:		Op Table:	
FHWA Code:	32	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0220	Manning's N:	0.0220
Exit Loss Coef:	0.95	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0220	Manning's N:	0.0220

Comment:

Pipe Link: RWETOUT

	Upstream	Downstream	
Scenario:	2016 FWCD Update	Invert: 19.78 ft	
From Node:	NWETLND	Manning's N: 0.0220	
To Node:	NP13bD01	Manning's N: 0.0220	
Link Count:	1	Geometry: Circular	
Flow Direction:	Both	Max Depth: 3.00 ft	
Damping:	0.0000	Bottom Clip	
Length:	18.00 ft	Default:	0.67 ft
FHWA Code:	6	Op Table:	
Entr Loss Coef:	0.50	Ref Node:	
Exit Loss Coef:	0.90	Manning's N:	0.0220
Bend Loss Coef:	0.00	Top Clip	
Bend Location:	0.00 dec	Default:	0.00 ft
Energy Switch:	Energy	Op Table:	
		Ref Node:	
		Manning's N:	0.0220

Comment:

Rating Curve Link: SEEP-P01

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NP01B13  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
P-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-P02

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NP02B10  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
P-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-P03

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NP03B10  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
P-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-P04

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NP04B10  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
P-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-P05

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NP05B13  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
P-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-P06

Scenario: 2016 FWCD Update

From Node: SEEPAGE  
 To Node: NP06B10  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
P-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-P07

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NP07B10  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
P-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-P08

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NP08B09  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
P-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-P09

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NP09B17  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
P-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-P10

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NP10B13  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
P-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-P11

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NP11B20  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
P-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-P12

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NP12C01  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
P-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-P13

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NP13BB13  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
P-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-P14

Scenario: 2016 FWCD Update



From Node: SEEPAGE  
 To Node: NP14B39  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
P-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-P15

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NP15B15  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
P-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-P16

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NP16C05  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
P-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-P17

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NP17B29  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
P-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-P18

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NP18C01  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
P-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-P19

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NP19C01  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
P-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-P20

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NP20B15  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
P-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-P21

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NP21C01  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
P-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-P22

Scenario: 2016 FWCD Update

From Node: SEEPAGE  
 To Node: NP22C01  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
P-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-P23

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NP23C01  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
P-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-P24

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NP24C05  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
1/2 P-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-U09

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NU09C01  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
U-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-U10

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NU10C01  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
U-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-U11

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NU11C01  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
U-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-U12

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NU12C01  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
U-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-U13

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NU13B11  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
U-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-U14

Scenario: 2016 FWCD Update

From Node: SEEPAGE  
 To Node: NU14B13  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
U-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-U15

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NU15B17  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
U-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-U16

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NU16B15  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
U-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-U17

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NU17B10  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
U-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-U18

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NU18B10  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
U-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Rating Curve Link: SEEP-U19

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NU19B10  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
U-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE



Comment:

Rating Curve Link: SEEP-U20

Scenario: 2016 FWCD Update  
 From Node: SEEPAGE  
 To Node: NU20B11  
 Link Count: 1  
 Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
1/2 U-SEEPAGE	0.00	SEEPAGE	0.00	SEEPAGE

Comment:

Simulation: 100yr-24hr

Scenario: 2016 FWCD Update  
 Run Date/Time: 6/6/2023 8:12:41 AM  
 Program Version: ICPR4 4.07.06

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	72.0000
	Hydrology [sec]	Surface Hydraulics [sec]		
Min Calculation Time:	60.0000	0.1000		
Max Calculation Time:		60.0000		

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	60.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3

Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set: 100Yr-24hr

Extern Hydrograph Set:

Curve Number Set:

Green-Ampt Set:

Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching: SAOR

Max Iterations: 6

Over-Relax Weight Fact: 0.5 dec

dZ Tolerance: 0.0010 ft

Max dZ: 1.0000 ft

Link Optimizer Tol: 0.0001 ft

Edge Length Option: Automatic

IA Recovery Time: 24.0000 hr

Smp/Man Basin Rain Opt: Global

Rainfall Name: Scsii-24

Rainfall Amount: 11.50 in

Storm Duration: 24.0000 hr

Dflt Damping (1D): 0.0050 ft  
 Min Node Srf Area (1D): 113 ft2  
 Energy Switch (1D): Energy

Comment:

Simulation: 100yr-72hr

Scenario: 2016 FWCD Update  
 Run Date/Time: 11/7/2023 4:23:23 PM  
 Program Version: ICPR4 4.07.08

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	96.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		60.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	60.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3

Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set: 100 Year

Extern Hydrograph Set:

Curve Number Set:

Green-Ampt Set:

Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching: SAOR

Max Iterations: 6

Over-Relax Weight Fact: 0.5 dec

dZ Tolerance: 0.0010 ft

Max dZ: 1.0000 ft

Link Optimizer Tol: 0.0001 ft

Edge Length Option: Automatic

IA Recovery Time: 24.0000 hr

Smp/Man Basin Rain Opt: Global

Rainfall Name: Sfwmd72

Rainfall Amount: 14.25 in

Storm Duration: 72.0000 hr

Dflt Damping (1D): 0.0050 ft

Min Node Srf Area (1D): 113 ft2

Energy Switch (1D): Energy

Comment:

Simulation: 100yr-96hr

Scenario: 2016 FWCD Update  
 Run Date/Time: 11/8/2023 4:30:43 PM  
 Program Version: ICPR4 4.07.08

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	120.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		60.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	60.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3

Lookup Tables

Boundary Stage Set: 100 Year

Unit Hydrograph Folder: ICPR3

Extern Hydrograph Set:  
Curve Number Set:  
Green-Ampt Set:  
Vertical Layers Set:  
Impervious Set:

## Tolerances &amp; Options

Time Marching: SAOR  
Max Iterations: 6  
Over-Relax Weight Fact: 0.5 dec  
dZ Tolerance: 0.0010 ft  
Max dZ: 1.0000 ft  
Link Optimizer Tol: 0.0001 ft  
Edge Length Option: AutomaticIA Recovery Time: 24.0000 hr  
Smp/Man Basin Rain Opt: Global  
Rainfall Name: Sjrwm96  
Rainfall Amount: 15.00 in  
Storm Duration: 96.0000 hr  
Dflt Damping (1D): 0.0050 ft  
Min Node Srf Area (1D): 113 ft2  
Energy Switch (1D): Energy

Comment:

## Simulation: 10yr-24hr

Scenario: 2016 FWCD Update  
Run Date/Time: 6/6/2023 9:22:09 AM  
Program Version: ICPR4 4.07.06

## General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	72.0000
	Hydrology [sec]	Surface Hydraulics [sec]		
Min Calculation Time:	60.0000	0.1000		
Max Calculation Time:		60.0000		

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	60.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3

Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set: 10Yr-24hr

Extern Hydrograph Set:

Curve Number Set:

Green-Ampt Set:

Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	
Over-Relax Weight Fact: 0.5 dec	Smp/Man Basin Rain Opt: Global
dZ Tolerance: 0.0010 ft	Rainfall Name: Scsii-24
Max dZ: 1.0000 ft	Rainfall Amount: 8.00 in
Link Optimizer Tol: 0.0001 ft	Storm Duration: 24.0000 hr
Edge Length Option: Automatic	Dflt Damping (1D): 0.0050 ft
	Min Node Srf Area (1D): 113 ft2
	Energy Switch (1D): Energy

Comment:

Simulation: 1yr-24hr

Scenario: 2016 FWCD Update  
 Run Date/Time: 6/6/2023 9:55:25 AM  
 Program Version: ICPR4 4.07.06

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	72.0000
	Hydrology [sec]	Surface Hydraulics [sec]		
Min Calculation Time:	60.0000	0.1000		
Max Calculation Time:		60.0000		



Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	60.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3

Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set: 1Yr-24hr

Extern Hydrograph Set:

Curve Number Set:

Green-Ampt Set:

Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching: SAOR

Max Iterations: 6

Over-Relax Weight Fact: 0.5 dec

dZ Tolerance: 0.0010 ft

Max dZ: 1.0000 ft

Link Optimizer Tol: 0.0001 ft

Edge Length Option: Automatic

IA Recovery Time: 24.0000 hr

Smp/Man Basin Rain Opt: Global

Rainfall Name: Scsii-24

Rainfall Amount: 5.00 in

Storm Duration: 24.0000 hr

Dflt Damping (1D): 0.0050 ft  
 Min Node Srf Area (1D): 113 ft2  
 Energy Switch (1D): Energy

Comment:

Simulation: 25yr-24hr

Scenario: 2016 FWCD Update  
 Run Date/Time: 6/6/2023 10:23:47 AM  
 Program Version: ICPR4 4.07.06

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	72.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		60.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	60.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3

Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set: 9-INCH

Extern Hydrograph Set:

Curve Number Set:

Green-Ampt Set:

Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching: SAOR

Max Iterations: 6

Over-Relax Weight Fact: 0.5 dec

dZ Tolerance: 0.0010 ft

Max dZ: 1.0000 ft

Link Optimizer Tol: 0.0001 ft

Edge Length Option: Automatic

IA Recovery Time: 24.0000 hr

Smp/Man Basin Rain Opt: Global

Rainfall Name: Scsii-24

Rainfall Amount: 9.20 in

Storm Duration: 24.0000 hr

Dflt Damping (1D): 0.0050 ft

Min Node Srf Area (1D): 113 ft2

Energy Switch (1D): Energy

Comment:

Simulation: FrancesCal2007

Scenario: 2016 FWCD Update  
 Run Date/Time: 6/8/2023 8:17:26 AM  
 Program Version: ICPR4 4.07.06

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	72.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		60.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	30.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3

Lookup Tables

Boundary Stage Set: FRANCES

Unit Hydrograph Folder: ICPR3

Extern Hydrograph Set:  
Curve Number Set:  
Green-Ampt Set:  
Vertical Layers Set:  
Impervious Set:

## Tolerances &amp; Options

Time Marching: SAOR  
Max Iterations: 6  
Over-Relax Weight Fact: 0.5 dec  
dZ Tolerance: 0.0010 ft  
Max dZ: 1.0000 ft  
Link Optimizer Tol: 0.0001 ft  
Edge Length Option: AutomaticIA Recovery Time: 24.0000 hr  
Smp/Man Basin Rain Opt: Global  
Rainfall Name: Frances-ND  
Rainfall Amount: 9.66 in  
Storm Duration: 40.0000 hr  
Dflt Damping (1D): 0.0050 ft  
Min Node Srf Area (1D): 113 ft2  
Energy Switch (1D): Energy

Comment: