Appendix C:

Model Output Files

PCSWMM Report

Wignell

Model Wignel_v110.inp

Ewa Engineers

August 31, 2021

Table of Contents

Summaries

Summary 1: Options

Name	Wignel_v110
Flow Units	CMS
Infiltration method	Curve Number
Flow routing method	Kinematic Wave
Link offsets defined by	Depth
Allow ponding	Yes
Skip steady flow periods	No
Inertial dampening	Partial
Define supercritical flow by	Both
Force Main Equation	H-W
Variable time step	On
Adjustment factor (%)	75
Conduit lengthening (s)	0
Minimum surface area (m²)	0
Starting date	Nov-20-2018 12:00:00 AM
Ending date	Nov-23-2018 12:00:00 AM
Duration of simulation (hours)	72
Antecedent dry days (days)	0
Rain interval (h:mm)	0:10
Report time step (h:mm:ss)	00:10:00
Wet time step (h:mm:ss)	00:10:00
Dry time step (h:mm:ss)	01:00:00
Routing time step (s)	30
Minimum time step used (s)	30
Average time step used (s)	30
Minimum conduit slope	0
Ignore rainfall/runoff	No
Ignore snow melt	No
Ignore groundwater	No
Ignore flow routing	No
Ignore water quality	No
Report average results	No

Summary 2: Model inventory

Name	Wignel_v110
Raingages	1
Subcatchments	34
Aquifers	0
Snowpacks	0
RDII hydrographs	0
Junction nodes	36
Outfall nodes	1
Flow divider nodes	0
Storage unit nodes	0
Conduit links	36
Pump links	0
Orifice links	0
Weir links	0
Outlet links	0
Treatment units	0
Transects	0
Control rules	0
Pollutants	0
Land Uses	0
Control Curves	0
Diversion Curves	0
Pump Curves	0
Rating Curves	0
Shape Curves	0
Storage Curves	0
Tidal Curves	0
Weir Curves	0
Time Series	6
Time Patterns	1

Summary 3: Model complexity

Name	Wignel_v110
Subcatchments	440
Groundwater	0
Aquifers	n/a
Snowpacks	n/a
RDII hydrographs	n/a
Junction nodes	78
Outfall nodes	1
Flow divider nodes	n/a
Storage unit nodes	n/a
Conduit links	246
Pump links	n/a
Orifice links	n/a
Weir links	n/a
Outlet links	n/a
Transect	n/a
Pollutants	n/a
Land Uses	n/a
Model complexity (total uncertain input parameters)	765

Summary 4: Inflows

Name	Wignel_v110
Time series inflows	2
Dry weather	0
Groundwater	0
RDII inflows	0

Summary 5: Subcatchment statistics

Name	Wignel_v110
Max. width (m)	1380
Min. width (m)	36.5
Max. area (ha)	100.6
Min. area (ha)	1.98
Total area (ha)	1089.5898
Max. length of overland flow (m)	1597.5205
Min. length of overland flow (m)	190.0725
Max. slope (%)	3

Summary 5: Subcatchment statistics (continued...)

Name	Wignel_v110
Min. slope (%)	0.001
Max. imperviousness (%)	85
Min. imperviousness (%)	0
Max. imp. roughness	0.015
Min. imp. roughness	0.015
Max. perv. roughness	0.1
Min. perv. roughness	0.1
Max. imp. depression storage (mm)	10
Min. imp. depression storage (mm)	10
Max. perv. depression storage (mm)	20
Min. perv. depression storage (mm)	5

Summary 6: Node statistics

Name	Wignel_v110
Max. ground elev. (m)	184.4
Min. ground elev. (m)	175.8
Max. invert elev. (m)	182.4
Min. invert elev. (m)	173.55
Max. depth (m)	3.88
Min. depth (m)	0.75

Summary 7: Conduit statistics

Name	Wignel_v110
Max. roughness	0.04
Min. roughness	0.018
Max. entry loss coef.	0
Min. entry loss coef.	0
Max. exit loss coef.	0
Min. exit loss coef.	0
Max. avg. loss coef.	0
Min. avg. loss coef.	0
Max. length (m)	1364.61
Min. length (m)	2
Total length (m)	14326.558
Max. slope (m/m)	0.0224
Min. slope (m/m)	0.0001

Summary 8: Conduit Inventory

Name	Wignel_v110
Open Rectangular (m)	40.77
Trapezoidal (m)	14275.75
Closed Rectangular (m)	10.038

Summary 9: Pipe inventory

Name	Wignel_v110
Max. pipe diameter (m)	n/a
Min. pipe diameter (m)	n/a
Total pipe length (m)	n/a

Summary 10: Unused objects

Name	Wignel_v110
Rain Gages	0
Aquifers	n/a
Snow Packs	n/a
Unit Hydrographs	n/a
Transects	n/a
Control Curves	n/a
Diversion Curves	n/a
Pump Curves	n/a
Rating Curves	n/a
Shape Curves	n/a
Storage Curves	n/a
Tidal Curves	n/a
Weir Curves	n/a
Time Series	5
Time Patterns	0

Summary 11: Runoff quantity continuity

Name	Wignel_v110
Initial LID storage (mm)	n/a
Initial snow cover (mm)	n/a
Total precipitation (mm)	68.900
Outfall runon (mm)	n/a
Evaporation loss (mm)	0.000
Infiltration loss (mm)	39.344
Surface runoff (mm)	24.944
LID drainage (mm)	n/a
Snow removed (mm)	n/a
Final snow cover (mm)	n/a
Final storage (mm)	4.649
Continuity error (%)	-0.054

Summary 12: Flow routing continuity

Name	Wignel_v110
Dry weather inflow (ML)	0.000
Wet weather inflow (ML)	271.788
Groundwater inflow (ML)	0.000
RDII inflow (ML)	0.000
External inflow (ML)	45.353
External outflow (ML)	312.368
Flooding loss (ML)	0.000
Evaporation loss (ML)	0.000
Exfiltration loss (ML)	0.000
Initial stored volume (ML)	0.000
Final stored volume (ML)	6.118
Continuity error (%)	-0.424

Summary 13: Results statistics

Name	Wignel_v110
Max. subcatchment total runoff (ML)	25.27
Max. subcatchment peak runoff (m³/s)	1.14
Max. subcatchment runoff coefficient	0.874
Max. subcatchment total precip (mm)	68.9
Min. subcatchment total precip (mm)	68.9
Max. node depth (m)	1.55
Num. nodes surcharged	0
Max. node surcharge duration (hours)	0
Max. node height above crown (m)	0
Min. node depth below rim (m)	0
Num. nodes flooded	0
Max. node flooding duration (hours)	0
Max. node flood volume (ML)	0
Max. node ponded volume or depth (ha-mm/1000 m³/m)	0
Max. storage volume (1000 m³)	n/a
Max. storage percent full (%)	n/a
Max. outfall flow frequency (%)	98.32
Max. outfall peak flow (m³/s)	6.956
Max. outfall total volume (ML)	312.366
Total outfall volume (ML)	312.366
Max. link peak flow (m³/s)	6.958
Max. link peak velocity (m/s)	2.92
Min. link peak velocity (m/s)	0.29
Num. conduits surcharged	0
Max. conduit surcharge duration (hours)	0
Max. conduit capacity limited duration (hours)	0

```
[TITLE]
;;Project Title/Notes
Wignell Drain

[OPTIONS]
;;Option             Value
FLOW_UNITS           CMS
INFILTRATION         CURVE_NUMBER
FLOW_ROUTING         KINWAVE
LINK_OFFSETS         DEPTH
MIN_SLOPE            0
ALLOW_PONDING        YES
SKIP_STEADY_STATE    NO

START_DATE           11/20/2018
START_TIME           00:00:00
REPORT_START_DATE    11/20/2018
REPORT_START_TIME    00:00:00
END_DATE             11/23/2018
END_TIME             00:00:00
SWEEP_START          01/01
SWEEP_END            12/31
DRY_DAYS             0
REPORT_STEP          00:10:00
WET_STEP             00:10:00
DRY_STEP             01:00:00
ROUTING_STEP         30
RULE_STEP            00:00:00

INERTIAL_DAMPING     PARTIAL
NORMAL_FLOW_LIMITED  BOTH
FORCE_MAIN_EQUATION  H-W
VARIABLE_STEP        0.75
LENGTHENING_STEP     0
MIN_SURFAREA         0
MAX_TRIALS           8
HEAD_TOLERANCE       0.0015
SYS_FLOW_TOL         5
LAT_FLOW_TOL         5
MINIMUM_STEP         0.5
THREADS              4

[EVAPORATION]
;;Data Source    Parameters
;;-------------- ----------------
CONSTANT         0.0
DRY_ONLY         NO

[RAINGAGES]
;;Name           Format    Interval SCF      Source
;;-------------- --------- -------- -------- ----------
Rain Gage-01     CUMULATIVE 0:10     1.0      TIMESERIES TS-SCS24_5

[SUBCATCHMENTS]
;;Name           Rain Gage        Outlet           Area     %Imperv  Width    %
Slope   CurbLen  SnowPack
;;-------------- ---------------- ---------------- -------- -------- -------- -----
--- -------- ----------------
```

```
;Bower
B1               Rain Gage-01     J6               8.32     5        201      0.25
0
;Michener
M1               Rain Gage-01     J1               28.7457  4.5      288      0.17
0
;Michener
M2               Rain Gage-01     J2               26.526   4.5      420      0.43
0
;Michener
M3               Rain Gage-01     J7               41.950000 4.5     411      .01
0
;Michener
M4               Rain Gage-01     J4               18.790000 4.5     469.75   .001
0
;Michener
M5               Rain Gage-01     J5               16.7049  4.5      597      .001
0
;Port Colborne
PC1              Rain Gage-01     J21              19.3425  4.5      198      0.53
0
;Port Colborne
PC10             Rain Gage-01     J18              1.98     55       40       0.4
0
;Port Colborne
PC11             Rain Gage-01     J88              3.65     45       36.5     0.4
0
;Port Colborne
PC2              Rain Gage-01     J21              36.5969  4.73     374      0.24
0
;Port Colborne
PC3-QW1          Rain Gage-01     J20              66.06    0        660      0.01
0
;Port Colborne
PC4-QE1          Rain Gage-01     J19              63.430000 0       906      0.01
0
;Port Colborne
PC5              Rain Gage-01     J17              7.7      4.5      153      0.4
0
;Port Colborne
PC6              Rain Gage-01     J14              20.8394  4.5      447      0.2
0
;Port Colborne
PC7              Rain Gage-01     J15              54.0114  4.5      455      0.2
0
;Port Colborne
PC8              Rain Gage-01     J16              39.1345  4.5      441      0.56
0
;Port Colborne
PC9_3            Rain Gage-01     J32              8.8715   4.5      239      0.75
0
;Port Colborne
PC9_4            Rain Gage-01     J10              5.4412   85       60       0.75
0
;Wignell
W1               Rain Gage-01     J22              58.2949  4.5      511      0.77
0
;Wignell
W10              Rain Gage-01     J12              100.600000 4.5    680      .01
```

```
;Wignell
W11               Rain Gage-01     J8               26.230000 4.5      1380       3
0
;Wignell
W12               Rain Gage-01     J24              18.3597   4.5      275        0.15
0
;Wignell
W13               Rain Gage-01     J87              28.7148   4.5      342        0.36
0
;Wignell
W14               Rain Gage-01     J27              34.15     4.5      491        0.29
0
;Wignell
W2                Rain Gage-01     J23              77.959    4.5      488        0.5
0
;Wignell
W3                Rain Gage-01     J28              41.21     4.5      330        0.16
0
;Wignell
W4                Rain Gage-01     J86              42.97     4.5      511        0.6
0
;Wignell
W5                Rain Gage-01     J26              22.3      4.5      354        0.16
0
;Wignell
W6                Rain Gage-01     J25              82.3056   4.5      986        0.12
0
;Wignell
W7                Rain Gage-01     J24              41.66     4.5      495        0.12
0
;Wignell
W8                Rain Gage-01     J29              6.61      4.5      220        0.33
0
;Wignell
W9                Rain Gage-01     J30              23.23     4.5      502.06     0.81
0
;Wignell
WB1               Rain Gage-01     J29              6.88      4.5      260        0.38
0
;Wignell
WB2               Rain Gage-01     J24              10.0218   4.5      250        0.24
0

[SUBAREAS]
;;Subcatchment   N-Imperv   N-Perv     S-Imperv   S-Perv     PctZero    RouteTo
PctRouted
;;-------------- ---------- ---------- ---------- ---------- ---------- ----------
----------
B1                0.015      0.1        10         5          25         OUTLET
M1                0.015      0.1        10         5          25         OUTLET
M2                0.015      0.1        10         5          25         OUTLET
M3                0.0150     0.1000     10         5.00       25         OUTLET
M4                0.0150     0.1000     10         5.00       25         OUTLET
M5                0.0150     0.1000     10         5.00       25         OUTLET
PC1               0.015      0.1        10         5          25         OUTLET
PC10              0.015      0.1        10         5          25         OUTLET
PC11              0.015      0.1        10         5          25         OUTLET
PC2               0.015      0.1        10         5          25         OUTLET
PC3-QW1           0.015      0.1        10         20         25         OUTLET
```

PC4-QE1	0.0150	0.1000	10	20	25	OUTLET
PC5	0.015	0.1	10	5	25	OUTLET
PC6	0.015	0.1	10	5	25	OUTLET
PC7	0.015	0.1	10	5	25	OUTLET
PC8	0.015	0.1	10	5	25	OUTLET
PC9_3	0.015	0.1	10	5	25	OUTLET
PC9_4	0.015	0.1	10	5	25	OUTLET
W1	0.015	0.1	10	5	25	OUTLET
W10	0.0150	0.1000	10	5.00	25	OUTLET
W11	0.0150	0.1000	10	5.00	25	OUTLET
W12	0.015	0.1	10	5	25	OUTLET
W13	0.015	0.1	10	5	25	OUTLET
W14	0.015	0.1	10	5	25	OUTLET
W2	0.015	0.1	10	5	25	OUTLET
W3	0.015	0.1	10	5	25	OUTLET
W4	0.015	0.1	10	5	25	OUTLET
W5	0.015	0.1	10	5	25	OUTLET
W6	0.015	0.1	10	5	25	OUTLET
W7	0.015	0.1	10	5	25	OUTLET
W8	0.015	0.1	10	5	25	OUTLET
W9	0.015	0.1	10	5	25	OUTLET
WB1	0.015	0.1	10	5	25	OUTLET
WB2	0.015	0.1	10	5	25	OUTLET

[INFILTRATION]

;;Subcatchment	Param1	Param2	Param3	Param4	Param5
B1	83	0.5	4	0	0
M1	73	0.5	4	0	0
M2	83	0.5	4	0	0
M3	73.00	0.5	4	0	0
M4	73.00	0.5	4	0	0
M5	73.00	0.5	4	0	0
PC1	83	0.5	4	0	0
PC10	93	0.5	4	0	0
PC11	93	0.5	4	0	0
PC2	83	0.5	4	0	0
PC3-QW1	73	0.5	4	0	0
PC4-QE1	73.00	0.5	4	0	0
PC5	83	0.5	4	0	0
PC6	83	0.5	4	0	0
PC7	83	0.5	4	0	0
PC8	83	0.5	4	0	0
PC9_3	83	0.5	4	0	0
PC9_4	95	0.5	4	0	0
W1	83	0.5	4	0	0
W10	73.00	0.5	4	0	0
W11	73.00	0.5	4	0	0
W12	83	0.5	4	0	0
W13	83	0.5	4	0	0
W14	83	0.5	4	0	0
W2	83	0.5	4	0	0
W3	83	0.5	4	0	0
W4	83	0.5	4	0	0
W5	83	0.5	4	0	0
W6	83	0.5	4	0	0
W7	83	0.5	4	0	0

```
W8              83          0.5         4           0           0
W9              83          0.5         4           0           0
WB1             83          0.5         4           0           0
WB2             83          0.5         4           0           0

[JUNCTIONS]
;;Name           Elevation   MaxDepth    InitDepth   SurDepth    Aponded
;;-------------- ----------- ----------- ----------- ----------- ----------
;Michener
J1              176.34      1.87        0           0           0
J10             180.25      0.75        0           0           0
;Wignell
J11             173.82      3.53        0           0           0
;Wignell
J12             174.134     2           0           0           0
;Wignell
J13             174.345     2           0           0           0
;Wignell
J14             174.36      3.34        0           0           0
;Port Colborne
J15             175.33      2.57        0           0           0.00
;Port Colborne
J16             175.98      2           0           0           0.00
;Port Colborne
J17             178.43      1.74        0           0           0
;Port Colborne
J18             179.98      2.08        0           0           0
;Port Colborne
J19             181.76      2           0           0           0.00
;Michener
J2              176.377     1.2         0           0           0
;Port Colborne
J20             181.78      2           0           0           0.00
;Port Colborne
J21             182.40      2           0           0           0.00
;Wignell
J22             181.5       1.88        0           0           0.00
;Wignell
J23             181.44      1.92        0           0           0.00
;Wignell
J24             180.4       2.35        0           0           0.00
;Wignell
J25             178.32      2.28        0           0           0.00
;Wignell
J26             177.25      1.94        0           0           0.00
;Wignell
J27             176.5       2.69        0           0           0.00
;Wignell
J28             175.52      0.78        0           0           0.00
;Wignell
J29             175.15      1.3         0           0           0.00
;Michener
J3              175.26      1           0           0           0
;Wignell
J30             174.48      2           0           0           0.00
J31             177.35      2.314       0           0           0
J32             178.05      2.3         0           0           0
```

```
J33             173.8      3.7        0          0          0
;Michener
J4              174.6      1.2        0          0          0
;Michener
J5              174.1      2.96       0          0          0
;Bower
J6              174.5      2          0          0          0.00
;Michener
J7              175.85     0.9        0          0          0
;Wignell
J8              174.07     3          0          0          0
;Wignell
J86             176.8      2.7        0          0          0.00
;Wignell
J87             177.56     1.93       0          0          0.00
;Wignell
J88             181.6      2.14       0          0          0
;Wignell
J9              173.89     3.88       0          0          0

[OUTFALLS]
;;Name           Elevation  Type       Stage Data       Gated    Route To
;;-------------- ---------- ---------- ---------------- -------- ----------------
;Wignell
J10 Outlet      173.55     FREE                        NO

[CONDUITS]
;;Name           From Node        To Node          Length     Roughness  InOffset
OutOffset  InitFlow   MaxFlow
;;-------------- ---------------- ---------------- ---------- ---------- ----------
---------- ---------- ----------
;MitchnerChannel
Link-01         J1               J7               455        0.04       0
0          0          0
;MitchnerChannel
Link-02         J2               J7               352        0.04       0
0          0          0
;MitchnerChannel
Link-04         J7               J3               533        0.04       0
0          0          0
;MitchnerChannel
Link-05         J3               J4               510        0.04       0
0          0          0
;MitchnerChannel
Link-06         J4               J5               230        0.04       0
0          0          0
;PortColborneChannel
Link-07         J21              J88              302        0.04       0
0          0          0
;PortColborneChannel
Link-08         J88              J18              500        0.04       0
0          0          0
;PortColborneChannel-QE1
Link-09         J19              J88              70         0.032      0
0          0          0
;PortColborneChannel-QW1
Link-10         J20              J18              110        0.04       0
0          0          0
```

```
;PortColborneChannel
Link-11           J18               J17               640         0.04        0
0           0           0
;PortColborneChannel
Link-12_1         J17               J31               198.542     0.04        0
0           0           0
;PortColborneChannel
Link-12_2         J31               J16               661.458     0.04        0
0           0           0
;PortColborneChannel
Link-13           J16               J15               580         0.04        0
0           0           0
;PortColborneChannel
Link-14           J15               J14               600         0.04        0
0           0           0
;WignelChannel
Link-15           J22               J23               21.42       0.04        0
0           0           0
;WignelChannel
Link-16           J23               J24               903.82      0.04        0
0           0           0
;WignelChannel
Link-17           J24               J25               1250        0.04        0
0           0           0
;WignelChannel
Link-18           J25               J26               522.47      0.04        0
0           0           0
;WignelChannel
Link-19           J26               J27               313.77      0.04        0
0           0           0
;WignelChannel
Link-20           J27               J28               618.63      0.04        0
0           0           0
;WignelChannel
Link-21           J28               J29               289.09      0.04        0
0           0           0
;WignelChannel
Link-22           J29               J30               735.315     0.04        0
0           0           0
;WignelChannel
Link-23           J30               J14               40.77       0.04        0
0           0           0
;WignelChannel
Link-25           J14               J13               98.5        0.04        0
0           0           0
;BowerDrain
Link-26           J6                J13               25          0.04        0
0           0           0
;WignelChannel
Link-27           J13               J12               1364.61     0.04        0
0           0           0
;WignelChannel
Link-28           J12               J8                566.25      0.04        0
0           0           0
;WignelChannel
Link-29           J5                J8                12          0.04        0
0           0           0
;WignelChannel
Link-31           J9                J11               4.509       0.04        0
```

```
;WignelChannel
Link-32          J33              J10 Outlet       339.916     0.04       0
0          0          0
;WignelChannel
Link-33          J87              J28              254.29      0.04       0
0          0          0
;WignelChannel
Link-34          J86              J29              278.16      0.04       0
0          0          0
PC1              J32              J31              256         0.036      0
0          0          0
PC2              J10              J32              680         0.036      0
0          0          0
;Lakeshore Rd E WignelChannel
W-BR-01          J8               J9               8.038       0.04       0
0          0          0
;Wignell Control structure
W-CS-01          J11              J33              2           0.018      0
0          0          0

[XSECTIONS]
;;Link           Shape        Geom1            Geom2      Geom3      Geom4
Barrels    Culvert
;;-------------- ------------ ---------------- ---------- ---------- ---
------- ----------
Link-01          TRAPEZOIDAL  0.9              0.6        1.5        1.5
1
Link-02          TRAPEZOIDAL  1                0.600      1.5        1.5
1
Link-04          TRAPEZOIDAL  1                1          1.5        1.5
1
Link-05          TRAPEZOIDAL  1.2              1          1.5        1.5
1
Link-06          TRAPEZOIDAL  1                0.6        1.5        1.5
1
Link-07          TRAPEZOIDAL  2.000            0.600      1.5        1.5
1
Link-08          TRAPEZOIDAL  2.000            0.600      1.5        1.5
1
Link-09          TRAPEZOIDAL  2.000            0.600      1.5        1.5
1
Link-10          TRAPEZOIDAL  2.000            0.600      1.5        1.5
1
Link-11          TRAPEZOIDAL  2.000            0.600      1.5        1.5
1
Link-12_1        TRAPEZOIDAL  2                0.6        2          2
1
Link-12_2        TRAPEZOIDAL  2                0.6        2          2
1
Link-13          TRAPEZOIDAL  2.000            0.600      1.5        1.5
1
Link-14          TRAPEZOIDAL  2                0.6        1.5        1.5
1
Link-15          TRAPEZOIDAL  1.5              0.600      1.5        1.5
1
Link-16          TRAPEZOIDAL  1.5              0.6        1.5        1.5
1
Link-17          TRAPEZOIDAL  1.5              0.600      1.5        1.5
1
Link-18          TRAPEZOIDAL  1.5              0.600      1.5        1.5
1
Link-19          TRAPEZOIDAL  1.5              0.600      1.5        1.5
1
Link-20          TRAPEZOIDAL  1.5              0.600      1.5        1.5
1
Link-21          TRAPEZOIDAL  1.5              1.000      1.5        1.5
1
Link-22          TRAPEZOIDAL  1.5              1.65       2          2
1
Link-23          RECT_OPEN    2.57             3.13       0          0
1
Link-25          TRAPEZOIDAL  1.7              10         1.5        1.5
1
Link-26          TRAPEZOIDAL  2.0000000000     0.600      1.5        1.5
1
Link-27          TRAPEZOIDAL  1.7              15         1.5        1.5
1
Link-28          TRAPEZOIDAL  1.5              15         1.5        1.5
1
Link-29          TRAPEZOIDAL  1                1.6        1.5        1.5
1
Link-31          TRAPEZOIDAL  3                5          1.5        1.5
1
Link-32          TRAPEZOIDAL  2.8              5.000      1.5        1.5
1
Link-33          TRAPEZOIDAL  1.5              0.600      1.5        1.5
1
Link-34          TRAPEZOIDAL  0.85             0.600      1.5        1.5
1
PC1              TRAPEZOIDAL  1.2              0.8        1.5        1.5
1
```

```
PC2              TRAPEZOIDAL  1.5              0.6        1.5        1.5        1
W-BR-01          RECT_CLOSED  2.7              5.2        0          0          1
W-CS-01          RECT_CLOSED  1.15             1.8        0          0          2

[LOSSES]
;;Link           Kentry     Kexit      Kavg       Flap Gate  Seepage
;;-------------- ---------- ---------- ---------- ---------- ----------

[INFLOWS]
;;Node           Constituent      Time Series      Type     Mfactor  Sfactor
Baseline Pattern
;;-------------- ---------------- ---------------- -------- -------- --------
--- --------
J19              FLOW             ""               FLOW     1.0      1.0      .118
Sanitary TP-03
J20              FLOW             ""               FLOW     1.0      1.0      .057
Sanitary TP-03

[TIMESERIES]
;;Name           Date       Time       Value
;;-------------- ---------- ---------- ----------
;10-year cumulative storm with a total rainfall amount of 81.50 mm using a SCS Type
II 24-hr storm distribution.
TS-SCS24_10                 0:00       0.00000
TS-SCS24_10                 0:10       0.13697
TS-SCS24_10                 0:20       0.27620
TS-SCS24_10                 0:30       0.41769
TS-SCS24_10                 0:40       0.56145
TS-SCS24_10                 0:50       0.70747
TS-SCS24_10                 1:00       0.85575
TS-SCS24_10                 1:10       1.00631
TS-SCS24_10                 1:20       1.15912
TS-SCS24_10                 1:30       1.31419
TS-SCS24_10                 1:40       1.47154
TS-SCS24_10                 1:50       1.63114
TS-SCS24_10                 2:00       1.79300
TS-SCS24_10                 2:10       1.95714
TS-SCS24_10                 2:20       2.12354
TS-SCS24_10                 2:30       2.29219
TS-SCS24_10                 2:40       2.46312
TS-SCS24_10                 2:50       2.63631
TS-SCS24_10                 3:00       2.81175
TS-SCS24_10                 3:10       2.98947
TS-SCS24_10                 3:20       3.16945
TS-SCS24_10                 3:30       3.35169
TS-SCS24_10                 3:40       3.53620
TS-SCS24_10                 3:50       3.72297
TS-SCS24_10                 4:00       3.91200
TS-SCS24_10                 4:10       4.10450
TS-SCS24_10                 4:20       4.30146
TS-SCS24_10                 4:30       4.50288
TS-SCS24_10                 4:40       4.70896
TS-SCS24_10                 4:50       4.91950
TS-SCS24_10                 5:00       5.13450
TS-SCS24_10                 5:10       5.35412
TS-SCS24_10                 5:20       5.57829
TS-SCS24_10                 5:30       5.80688
TS-SCS24_10                 5:40       6.04007
```

TS-SCS24_10	5:50	6.27784
TS-SCS24_10	6:00	6.52000
TS-SCS24_10	6:10	6.76684
TS-SCS24_10	6:20	7.01807
TS-SCS24_10	6:30	7.27388
TS-SCS24_10	6:40	7.53424
TS-SCS24_10	6:50	7.79912
TS-SCS24_10	7:00	8.06850
TS-SCS24_10	7:10	8.34250
TS-SCS24_10	7:20	8.62096
TS-SCS24_10	7:30	8.90387
TS-SCS24_10	7:40	9.19146
TS-SCS24_10	7:50	9.48350
TS-SCS24_10	8:00	9.78000
TS-SCS24_10	8:10	10.09035
TS-SCS24_10	8:20	10.42314
TS-SCS24_10	8:30	10.77838
TS-SCS24_10	8:40	11.15664
TS-SCS24_10	8:50	11.55735
TS-SCS24_10	9:00	11.98050
TS-SCS24_10	9:10	12.41517
TS-SCS24_10	9:20	12.84983
TS-SCS24_10	9:30	13.28450
TS-SCS24_10	9:40	13.73764
TS-SCS24_10	9:50	14.22664
TS-SCS24_10	10:00	14.75150
TS-SCS24_10	10:10	15.32254
TS-SCS24_10	10:20	15.94738
TS-SCS24_10	10:30	16.62600
TS-SCS24_10	10:40	17.37852
TS-SCS24_10	10:50	18.22068
TS-SCS24_10	11:00	19.15250
TS-SCS24_10	11:10	20.24134
TS-SCS24_10	11:20	21.54534
TS-SCS24_10	11:30	23.06450
TS-SCS24_10	11:40	27.42855
TS-SCS24_10	11:50	38.38593
TS-SCS24_10	12:00	54.03450
TS-SCS24_10	12:10	56.50151
TS-SCS24_10	12:20	58.45751
TS-SCS24_10	12:30	59.90250
TS-SCS24_10	12:40	61.02421
TS-SCS24_10	12:50	62.02938
TS-SCS24_10	13:00	62.91800
TS-SCS24_10	13:10	63.71426
TS-SCS24_10	13:20	64.44776
TS-SCS24_10	13:30	65.11850
TS-SCS24_10	13:40	65.73383
TS-SCS24_10	13:50	66.30433
TS-SCS24_10	14:00	66.83000
TS-SCS24_10	14:10	67.32449
TS-SCS24_10	14:20	67.80330
TS-SCS24_10	14:30	68.26644
TS-SCS24_10	14:40	68.71338
TS-SCS24_10	14:50	69.14465
TS-SCS24_10	15:00	69.56025
TS-SCS24_10	15:10	69.95965

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TS-SCS24_10                15:20      70.34338
TS-SCS24_10                15:30      70.71144
TS-SCS24_10                15:40      71.06330
TS-SCS24_10                15:50      71.39949
TS-SCS24_10                16:00      71.72000
TS-SCS24_10                16:10      72.02954
TS-SCS24_10                16:20      72.33345
TS-SCS24_10                16:30      72.63182
TS-SCS24_10                16:40      72.92433
TS-SCS24_10                16:50      73.21129
TS-SCS24_10                17:00      73.49263
TS-SCS24_10                17:10      73.76820
TS-SCS24_10                17:20      74.03816
TS-SCS24_10                17:30      74.30249
TS-SCS24_10                17:40      74.56114
TS-SCS24_10                17:50      74.81412
TS-SCS24_10                18:00      75.06150
TS-SCS24_10                18:10      75.30312
TS-SCS24_10                18:20      75.53914
TS-SCS24_10                18:30      75.76957
TS-SCS24_10                18:40      75.99416
TS-SCS24_10                18:50      76.21320
TS-SCS24_10                19:00      76.42663
TS-SCS24_10                19:10      76.63429
TS-SCS24_10                19:20      76.83635
TS-SCS24_10                19:30      77.03274
TS-SCS24_10                19:40      77.22345
TS-SCS24_10                19:50      77.40854
TS-SCS24_10                20:00      77.58800
TS-SCS24_10                20:10      77.76399
TS-SCS24_10                20:20      77.93886
TS-SCS24_10                20:30      78.11262
TS-SCS24_10                20:40      78.28523
TS-SCS24_10                20:50      78.45674
TS-SCS24_10                21:00      78.62713
TS-SCS24_10                21:10      78.79632
TS-SCS24_10                21:20      78.96440
TS-SCS24_10                21:30      79.13145
TS-SCS24_10                21:40      79.29722
TS-SCS24_10                21:50      79.46190
TS-SCS24_10                22:00      79.62550
TS-SCS24_10                22:10      79.78790
TS-SCS24_10                22:20      79.94919
TS-SCS24_10                22:30      80.10937
TS-SCS24_10                22:40      80.26840
TS-SCS24_10                22:50      80.42632
TS-SCS24_10                23:00      80.58313
TS-SCS24_10                23:10      80.73874
TS-SCS24_10                23:20      80.89323
TS-SCS24_10                23:30      81.04662
TS-SCS24_10                23:40      81.19886
TS-SCS24_10                23:50      81.34999
TS-SCS24_10                24:00      81.50000

;100-year cumulative storm with a total rainfall amount of 121.1 mm using a SCS
Type II 24-hr storm distribution.
TS-SCS24_100               0:00       0.00000
```

TS-SCS24_100	0:10	0.20353
TS-SCS24_100	0:20	0.41041
TS-SCS24_100	0:30	0.62064
TS-SCS24_100	0:40	0.83426
TS-SCS24_100	0:50	1.05123
TS-SCS24_100	1:00	1.27155
TS-SCS24_100	1:10	1.49526
TS-SCS24_100	1:20	1.72232
TS-SCS24_100	1:30	1.95274
TS-SCS24_100	1:40	2.18654
TS-SCS24_100	1:50	2.42370
TS-SCS24_100	2:00	2.66420
TS-SCS24_100	2:10	2.90810
TS-SCS24_100	2:20	3.15534
TS-SCS24_100	2:30	3.40594
TS-SCS24_100	2:40	3.65992
TS-SCS24_100	2:50	3.91726
TS-SCS24_100	3:00	4.17795
TS-SCS24_100	3:10	4.44203
TS-SCS24_100	3:20	4.70946
TS-SCS24_100	3:30	4.98024
TS-SCS24_100	3:40	5.25441
TS-SCS24_100	3:50	5.53193
TS-SCS24_100	4:00	5.81280
TS-SCS24_100	4:10	6.09884
TS-SCS24_100	4:20	6.39150
TS-SCS24_100	4:30	6.69078
TS-SCS24_100	4:40	6.99700
TS-SCS24_100	4:50	7.30984
TS-SCS24_100	5:00	7.62930
TS-SCS24_100	5:10	7.95562
TS-SCS24_100	5:20	8.28873
TS-SCS24_100	5:30	8.62838
TS-SCS24_100	5:40	8.97488
TS-SCS24_100	5:50	9.32817
TS-SCS24_100	6:00	9.68800
TS-SCS24_100	6:10	10.05477
TS-SCS24_100	6:20	10.42808
TS-SCS24_100	6:30	10.80818
TS-SCS24_100	6:40	11.19505
TS-SCS24_100	6:50	11.58862
TS-SCS24_100	7:00	11.98890
TS-SCS24_100	7:10	12.39604
TS-SCS24_100	7:20	12.80980
TS-SCS24_100	7:30	13.23018
TS-SCS24_100	7:40	13.65750
TS-SCS24_100	7:50	14.09144
TS-SCS24_100	8:00	14.53200
TS-SCS24_100	8:10	14.99315
TS-SCS24_100	8:20	15.48764
TS-SCS24_100	8:30	16.01548
TS-SCS24_100	8:40	16.57754
TS-SCS24_100	8:50	17.17295
TS-SCS24_100	9:00	17.80170
TS-SCS24_100	9:10	18.44757
TS-SCS24_100	9:20	19.09343
TS-SCS24_100	9:30	19.73930

TS-SCS24_100	9:40	20.41262
TS-SCS24_100	9:50	21.13922
TS-SCS24_100	10:00	21.91910
TS-SCS24_100	10:10	22.76761
TS-SCS24_100	10:20	23.69604
TS-SCS24_100	10:30	24.70440
TS-SCS24_100	10:40	25.82256
TS-SCS24_100	10:50	27.07392
TS-SCS24_100	11:00	28.45850
TS-SCS24_100	11:10	30.07640
TS-SCS24_100	11:20	32.01400
TS-SCS24_100	11:30	34.27130
TS-SCS24_100	11:40	40.75580
TS-SCS24_100	11:50	57.03725
TS-SCS24_100	12:00	80.28930
TS-SCS24_100	12:10	83.95500
TS-SCS24_100	12:20	86.86140
TS-SCS24_100	12:30	89.00850
TS-SCS24_100	12:40	90.67524
TS-SCS24_100	12:50	92.16881
TS-SCS24_100	13:00	93.48920
TS-SCS24_100	13:10	94.67235
TS-SCS24_100	13:20	95.76225
TS-SCS24_100	13:30	96.75890
TS-SCS24_100	13:40	97.67321
TS-SCS24_100	13:50	98.52091
TS-SCS24_100	14:00	99.30200
TS-SCS24_100	14:10	100.03675
TS-SCS24_100	14:20	100.74822
TS-SCS24_100	14:30	101.43639
TS-SCS24_100	14:40	102.10050
TS-SCS24_100	14:50	102.74132
TS-SCS24_100	15:00	103.35885
TS-SCS24_100	15:10	103.95232
TS-SCS24_100	15:20	104.52250
TS-SCS24_100	15:30	105.06939
TS-SCS24_100	15:40	105.59222
TS-SCS24_100	15:50	106.09175
TS-SCS24_100	16:00	106.56800
TS-SCS24_100	16:10	107.02794
TS-SCS24_100	16:20	107.47952
TS-SCS24_100	16:30	107.92287
TS-SCS24_100	16:40	108.35749
TS-SCS24_100	16:50	108.78389
TS-SCS24_100	17:00	109.20193
TS-SCS24_100	17:10	109.61140
TS-SCS24_100	17:20	110.01253
TS-SCS24_100	17:30	110.40530
TS-SCS24_100	17:40	110.78963
TS-SCS24_100	17:50	111.16552
TS-SCS24_100	18:00	111.53310
TS-SCS24_100	18:10	111.89212
TS-SCS24_100	18:20	112.24283
TS-SCS24_100	18:30	112.58522
TS-SCS24_100	18:40	112.91893
TS-SCS24_100	18:50	113.24440
TS-SCS24_100	19:00	113.56153

```
TS-SCS24_100                19:10      113.87009
TS-SCS24_100                19:20      114.17034
TS-SCS24_100                19:30      114.46215
TS-SCS24_100                19:40      114.74552
TS-SCS24_100                19:50      115.02054
TS-SCS24_100                20:00      115.28720
TS-SCS24_100                20:10      115.54870
TS-SCS24_100                20:20      115.80854
TS-SCS24_100                20:30      116.06672
TS-SCS24_100                20:40      116.32321
TS-SCS24_100                20:50      116.57805
TS-SCS24_100                21:00      116.83123
TS-SCS24_100                21:10      117.08263
TS-SCS24_100                21:20      117.33238
TS-SCS24_100                21:30      117.58059
TS-SCS24_100                21:40      117.82691
TS-SCS24_100                21:50      118.07161
TS-SCS24_100                22:00      118.31470
TS-SCS24_100                22:10      118.55601
TS-SCS24_100                22:20      118.79567
TS-SCS24_100                22:30      119.03367
TS-SCS24_100                22:40      119.26998
TS-SCS24_100                22:50      119.50463
TS-SCS24_100                23:00      119.73763
TS-SCS24_100                23:10      119.96885
TS-SCS24_100                23:20      120.19841
TS-SCS24_100                23:30      120.42632
TS-SCS24_100                23:40      120.65254
TS-SCS24_100                23:50      120.87710
TS-SCS24_100                24:00      121.10000

;2-year cumulative storm with a total rainfall amount of 49.8 mm using a SCS Type
II 24-hr storm distribution.
TS-SCS24_2                  0:00       0.00000
TS-SCS24_2                  0:10       0.08370
TS-SCS24_2                  0:20       0.16877
TS-SCS24_2                  0:30       0.25523
TS-SCS24_2                  0:40       0.34307
TS-SCS24_2                  0:50       0.43230
TS-SCS24_2                  1:00       0.52290
TS-SCS24_2                  1:10       0.61490
TS-SCS24_2                  1:20       0.70827
TS-SCS24_2                  1:30       0.80303
TS-SCS24_2                  1:40       0.89917
TS-SCS24_2                  1:50       0.99670
TS-SCS24_2                  2:00       1.09560
TS-SCS24_2                  2:10       1.19590
TS-SCS24_2                  2:20       1.29757
TS-SCS24_2                  2:30       1.40063
TS-SCS24_2                  2:40       1.50507
TS-SCS24_2                  2:50       1.61090
TS-SCS24_2                  3:00       1.71810
TS-SCS24_2                  3:10       1.82670
TS-SCS24_2                  3:20       1.93667
TS-SCS24_2                  3:30       2.04803
TS-SCS24_2                  3:40       2.16077
TS-SCS24_2                  3:50       2.27490
```

TS-SCS24_2	4:00	2.39040
TS-SCS24_2	4:10	2.50803
TS-SCS24_2	4:20	2.62838
TS-SCS24_2	4:30	2.75145
TS-SCS24_2	4:40	2.87738
TS-SCS24_2	4:50	3.00603
TS-SCS24_2	5:00	3.13740
TS-SCS24_2	5:10	3.27159
TS-SCS24_2	5:20	3.40858
TS-SCS24_2	5:30	3.54825
TS-SCS24_2	5:40	3.69074
TS-SCS24_2	5:50	3.83603
TS-SCS24_2	6:00	3.98400
TS-SCS24_2	6:10	4.13483
TS-SCS24_2	6:20	4.28834
TS-SCS24_2	6:30	4.44465
TS-SCS24_2	6:40	4.60374
TS-SCS24_2	6:50	4.76559
TS-SCS24_2	7:00	4.93020
TS-SCS24_2	7:10	5.09763
TS-SCS24_2	7:20	5.26778
TS-SCS24_2	7:30	5.44065
TS-SCS24_2	7:40	5.61638
TS-SCS24_2	7:50	5.79483
TS-SCS24_2	8:00	5.97600
TS-SCS24_2	8:10	6.16564
TS-SCS24_2	8:20	6.36899
TS-SCS24_2	8:30	6.58605
TS-SCS24_2	8:40	6.81719
TS-SCS24_2	8:50	7.06204
TS-SCS24_2	9:00	7.32060
TS-SCS24_2	9:10	7.58620
TS-SCS24_2	9:20	7.85180
TS-SCS24_2	9:30	8.11740
TS-SCS24_2	9:40	8.39429
TS-SCS24_2	9:50	8.69309
TS-SCS24_2	10:00	9.01380
TS-SCS24_2	10:10	9.36273
TS-SCS24_2	10:20	9.74453
TS-SCS24_2	10:30	10.15920
TS-SCS24_2	10:40	10.61902
TS-SCS24_2	10:50	11.13362
TS-SCS24_2	11:00	11.70300
TS-SCS24_2	11:10	12.36833
TS-SCS24_2	11:20	13.16513
TS-SCS24_2	11:30	14.09340
TS-SCS24_2	11:40	16.76002
TS-SCS24_2	11:50	23.45545
TS-SCS24_2	12:00	33.01740
TS-SCS24_2	12:10	34.52485
TS-SCS24_2	12:20	35.72005
TS-SCS24_2	12:30	36.60300
TS-SCS24_2	12:40	37.28841
TS-SCS24_2	12:50	37.90261
TS-SCS24_2	13:00	38.44560
TS-SCS24_2	13:10	38.93215
TS-SCS24_2	13:20	39.38035

TS-SCS24_2	13:30	39.79020
TS-SCS24_2	13:40	40.16619
TS-SCS24_2	13:50	40.51479
TS-SCS24_2	14:00	40.83600
TS-SCS24_2	14:10	41.13815
TS-SCS24_2	14:20	41.43073
TS-SCS24_2	14:30	41.71372
TS-SCS24_2	14:40	41.98683
TS-SCS24_2	14:50	42.25035
TS-SCS24_2	15:00	42.50430
TS-SCS24_2	15:10	42.74835
TS-SCS24_2	15:20	42.98283
TS-SCS24_2	15:30	43.20772
TS-SCS24_2	15:40	43.42273
TS-SCS24_2	15:50	43.62815
TS-SCS24_2	16:00	43.82400
TS-SCS24_2	16:10	44.01314
TS-SCS24_2	16:20	44.19884
TS-SCS24_2	16:30	44.38116
TS-SCS24_2	16:40	44.55989
TS-SCS24_2	16:50	44.73524
TS-SCS24_2	17:00	44.90715
TS-SCS24_2	17:10	45.07554
TS-SCS24_2	17:20	45.24049
TS-SCS24_2	17:30	45.40201
TS-SCS24_2	17:40	45.56006
TS-SCS24_2	17:50	45.71464
TS-SCS24_2	18:00	45.86580
TS-SCS24_2	18:10	46.01344
TS-SCS24_2	18:20	46.15766
TS-SCS24_2	18:30	46.29846
TS-SCS24_2	18:40	46.43569
TS-SCS24_2	18:50	46.56954
TS-SCS24_2	19:00	46.69995
TS-SCS24_2	19:10	46.82684
TS-SCS24_2	19:20	46.95031
TS-SCS24_2	19:30	47.07031
TS-SCS24_2	19:40	47.18684
TS-SCS24_2	19:50	47.29994
TS-SCS24_2	20:00	47.40960
TS-SCS24_2	20:10	47.51713
TS-SCS24_2	20:20	47.62399
TS-SCS24_2	20:30	47.73016
TS-SCS24_2	20:40	47.83564
TS-SCS24_2	20:50	47.94043
TS-SCS24_2	21:00	48.04455
TS-SCS24_2	21:10	48.14793
TS-SCS24_2	21:20	48.25064
TS-SCS24_2	21:30	48.35271
TS-SCS24_2	21:40	48.45401
TS-SCS24_2	21:50	48.55463
TS-SCS24_2	22:00	48.65460
TS-SCS24_2	22:10	48.75383
TS-SCS24_2	22:20	48.85239
TS-SCS24_2	22:30	48.95026
TS-SCS24_2	22:40	49.04744
TS-SCS24_2	22:50	49.14393

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TS-SCS24_2                  23:00      49.23975
TS-SCS24_2                  23:10      49.33483
TS-SCS24_2                  23:20      49.42924
TS-SCS24_2                  23:30      49.52296
TS-SCS24_2                  23:40      49.61599
TS-SCS24_2                  23:50      49.70833
TS-SCS24_2                  24:00      49.80000

;25-year cumulative storm with a total rainfall amount of 97.5 mm using a SCS Type
II 24-hr storm distribution.
TS-SCS24_25                 0:00       0.00000
TS-SCS24_25                 0:10       0.16387
TS-SCS24_25                 0:20       0.33043
TS-SCS24_25                 0:30       0.49969
TS-SCS24_25                 0:40       0.67168
TS-SCS24_25                 0:50       0.84636
TS-SCS24_25                 1:00       1.02375
TS-SCS24_25                 1:10       1.20387
TS-SCS24_25                 1:20       1.38668
TS-SCS24_25                 1:30       1.57219
TS-SCS24_25                 1:40       1.76043
TS-SCS24_25                 1:50       1.95137
TS-SCS24_25                 2:00       2.14500
TS-SCS24_25                 2:10       2.34137
TS-SCS24_25                 2:20       2.54043
TS-SCS24_25                 2:30       2.74219
TS-SCS24_25                 2:40       2.94668
TS-SCS24_25                 2:50       3.15387
TS-SCS24_25                 3:00       3.36375
TS-SCS24_25                 3:10       3.57637
TS-SCS24_25                 3:20       3.79168
TS-SCS24_25                 3:30       4.00969
TS-SCS24_25                 3:40       4.23043
TS-SCS24_25                 3:50       4.45387
TS-SCS24_25                 4:00       4.68000
TS-SCS24_25                 4:10       4.91029
TS-SCS24_25                 4:20       5.14592
TS-SCS24_25                 4:30       5.38688
TS-SCS24_25                 4:40       5.63342
TS-SCS24_25                 4:50       5.88530
TS-SCS24_25                 5:00       6.14250
TS-SCS24_25                 5:10       6.40523
TS-SCS24_25                 5:20       6.67342
TS-SCS24_25                 5:30       6.94688
TS-SCS24_25                 5:40       7.22586
TS-SCS24_25                 5:50       7.51029
TS-SCS24_25                 6:00       7.80000
TS-SCS24_25                 6:10       8.09530
TS-SCS24_25                 6:20       8.39585
TS-SCS24_25                 6:30       8.70188
TS-SCS24_25                 6:40       9.01335
TS-SCS24_25                 6:50       9.33023
TS-SCS24_25                 7:00       9.65250
TS-SCS24_25                 7:10       9.98030
TS-SCS24_25                 7:20       10.31342
TS-SCS24_25                 7:30       10.65188
TS-SCS24_25                 7:40       10.99592
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TS-SCS24_25	7:50	11.34530
TS-SCS24_25	8:00	11.70000
TS-SCS24_25	8:10	12.07128
TS-SCS24_25	8:20	12.46941
TS-SCS24_25	8:30	12.89438
TS-SCS24_25	8:40	13.34691
TS-SCS24_25	8:50	13.82628
TS-SCS24_25	9:00	14.33250
TS-SCS24_25	9:10	14.85250
TS-SCS24_25	9:20	15.37250
TS-SCS24_25	9:30	15.89250
TS-SCS24_25	9:40	16.43460
TS-SCS24_25	9:50	17.01960
TS-SCS24_25	10:00	17.64750
TS-SCS24_25	10:10	18.33065
TS-SCS24_25	10:20	19.07815
TS-SCS24_25	10:30	19.89000
TS-SCS24_25	10:40	20.79025
TS-SCS24_25	10:50	21.79775
TS-SCS24_25	11:00	22.91250
TS-SCS24_25	11:10	24.21510
TS-SCS24_25	11:20	25.77510
TS-SCS24_25	11:30	27.59250
TS-SCS24_25	11:40	32.81330
TS-SCS24_25	11:50	45.92182
TS-SCS24_25	12:00	64.64250
TS-SCS24_25	12:10	67.59383
TS-SCS24_25	12:20	69.93383
TS-SCS24_25	12:30	71.66250
TS-SCS24_25	12:40	73.00443
TS-SCS24_25	12:50	74.20693
TS-SCS24_25	13:00	75.27000
TS-SCS24_25	13:10	76.22257
TS-SCS24_25	13:20	77.10008
TS-SCS24_25	13:30	77.90250
TS-SCS24_25	13:40	78.63863
TS-SCS24_25	13:50	79.32113
TS-SCS24_25	14:00	79.95000
TS-SCS24_25	14:10	80.54157
TS-SCS24_25	14:20	81.11438
TS-SCS24_25	14:30	81.66844
TS-SCS24_25	14:40	82.20313
TS-SCS24_25	14:50	82.71907
TS-SCS24_25	15:00	83.21625
TS-SCS24_25	15:10	83.69407
TS-SCS24_25	15:20	84.15313
TS-SCS24_25	15:30	84.59344
TS-SCS24_25	15:40	85.01438
TS-SCS24_25	15:50	85.41656
TS-SCS24_25	16:00	85.80000
TS-SCS24_25	16:10	86.17031
TS-SCS24_25	16:20	86.53388
TS-SCS24_25	16:30	86.89083
TS-SCS24_25	16:40	87.24076
TS-SCS24_25	16:50	87.58406
TS-SCS24_25	17:00	87.92063
TS-SCS24_25	17:10	88.25031

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TS-SCS24_25                17:20      88.57326
TS-SCS24_25                17:30      88.88948
TS-SCS24_25                17:40      89.19892
TS-SCS24_25                17:50      89.50156
TS-SCS24_25                18:00      89.79750
TS-SCS24_25                18:10      90.08656
TS-SCS24_25                18:20      90.36892
TS-SCS24_25                18:30      90.64458
TS-SCS24_25                18:40      90.91326
TS-SCS24_25                18:50      91.17531
TS-SCS24_25                19:00      91.43062
TS-SCS24_25                19:10      91.67905
TS-SCS24_25                19:20      91.92079
TS-SCS24_25                19:30      92.15573
TS-SCS24_25                19:40      92.38388
TS-SCS24_25                19:50      92.60531
TS-SCS24_25                20:00      92.82000
TS-SCS24_25                20:10      93.03054
TS-SCS24_25                20:20      93.23974
TS-SCS24_25                20:30      93.44761
TS-SCS24_25                20:40      93.65411
TS-SCS24_25                20:50      93.85929
TS-SCS24_25                21:00      94.06313
TS-SCS24_25                21:10      94.26554
TS-SCS24_25                21:20      94.46661
TS-SCS24_25                21:30      94.66646
TS-SCS24_25                21:40      94.86477
TS-SCS24_25                21:50      95.06179
TS-SCS24_25                22:00      95.25750
TS-SCS24_25                22:10      95.45179
TS-SCS24_25                22:20      95.64474
TS-SCS24_25                22:30      95.83636
TS-SCS24_25                22:40      96.02661
TS-SCS24_25                22:50      96.21554
TS-SCS24_25                23:00      96.40313
TS-SCS24_25                23:10      96.58929
TS-SCS24_25                23:20      96.77411
TS-SCS24_25                23:30      96.95761
TS-SCS24_25                23:40      97.13974
TS-SCS24_25                23:50      97.32053
TS-SCS24_25                24:00      97.50000

;5-year cumulative storm with a total rainfall amount of 68.90 mm using a SCS Type
II 24-hr storm distribution.
TS-SCS24_5                 0:00       0.00000
TS-SCS24_5                 0:10       0.11580
TS-SCS24_5                 0:20       0.23350
TS-SCS24_5                 0:30       0.35311
TS-SCS24_5                 0:40       0.47465
TS-SCS24_5                 0:50       0.59810
TS-SCS24_5                 1:00       0.72345
TS-SCS24_5                 1:10       0.85073
TS-SCS24_5                 1:20       0.97992
TS-SCS24_5                 1:30       1.11101
TS-SCS24_5                 1:40       1.24404
TS-SCS24_5                 1:50       1.37896
TS-SCS24_5                 2:00       1.51580
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TS-SCS24_5	2:10	1.65456
TS-SCS24_5	2:20	1.79524
TS-SCS24_5	2:30	1.93781
TS-SCS24_5	2:40	2.08232
TS-SCS24_5	2:50	2.22873
TS-SCS24_5	3:00	2.37705
TS-SCS24_5	3:10	2.52730
TS-SCS24_5	3:20	2.67945
TS-SCS24_5	3:30	2.83351
TS-SCS24_5	3:40	2.98950
TS-SCS24_5	3:50	3.14740
TS-SCS24_5	4:00	3.30720
TS-SCS24_5	4:10	3.46994
TS-SCS24_5	4:20	3.63645
TS-SCS24_5	4:30	3.80673
TS-SCS24_5	4:40	3.98095
TS-SCS24_5	4:50	4.15894
TS-SCS24_5	5:00	4.34070
TS-SCS24_5	5:10	4.52636
TS-SCS24_5	5:20	4.71588
TS-SCS24_5	5:30	4.90912
TS-SCS24_5	5:40	5.10627
TS-SCS24_5	5:50	5.30728
TS-SCS24_5	6:00	5.51200
TS-SCS24_5	6:10	5.72068
TS-SCS24_5	6:20	5.93307
TS-SCS24_5	6:30	6.14933
TS-SCS24_5	6:40	6.36944
TS-SCS24_5	6:50	6.59336
TS-SCS24_5	7:00	6.82110
TS-SCS24_5	7:10	7.05274
TS-SCS24_5	7:20	7.28815
TS-SCS24_5	7:30	7.52733
TS-SCS24_5	7:40	7.77045
TS-SCS24_5	7:50	8.01734
TS-SCS24_5	8:00	8.26800
TS-SCS24_5	8:10	8.53037
TS-SCS24_5	8:20	8.81171
TS-SCS24_5	8:30	9.11203
TS-SCS24_5	8:40	9.43181
TS-SCS24_5	8:50	9.77057
TS-SCS24_5	9:00	10.12830
TS-SCS24_5	9:10	10.49577
TS-SCS24_5	9:20	10.86323
TS-SCS24_5	9:30	11.23070
TS-SCS24_5	9:40	11.61378
TS-SCS24_5	9:50	12.02718
TS-SCS24_5	10:00	12.47090
TS-SCS24_5	10:10	12.95366
TS-SCS24_5	10:20	13.48189
TS-SCS24_5	10:30	14.05560
TS-SCS24_5	10:40	14.69178
TS-SCS24_5	10:50	15.40374
TS-SCS24_5	11:00	16.19150
TS-SCS24_5	11:10	17.11200
TS-SCS24_5	11:20	18.21440
TS-SCS24_5	11:30	19.49870

TS-SCS24_5	11:40	23.18807
TS-SCS24_5	11:50	32.45142
TS-SCS24_5	12:00	45.68070
TS-SCS24_5	12:10	47.76630
TS-SCS24_5	12:20	49.41990
TS-SCS24_5	12:30	50.64150
TS-SCS24_5	12:40	51.58979
TS-SCS24_5	12:50	52.43956
TS-SCS24_5	13:00	53.19080
TS-SCS24_5	13:10	53.86395
TS-SCS24_5	13:20	54.48405
TS-SCS24_5	13:30	55.05110
TS-SCS24_5	13:40	55.57130
TS-SCS24_5	13:50	56.05360
TS-SCS24_5	14:00	56.49800
TS-SCS24_5	14:10	56.91604
TS-SCS24_5	14:20	57.32083
TS-SCS24_5	14:30	57.71236
TS-SCS24_5	14:40	58.09021
TS-SCS24_5	14:50	58.45481
TS-SCS24_5	15:00	58.80615
TS-SCS24_5	15:10	59.14381
TS-SCS24_5	15:20	59.46821
TS-SCS24_5	15:30	59.77936
TS-SCS24_5	15:40	60.07683
TS-SCS24_5	15:50	60.36104
TS-SCS24_5	16:00	60.63200
TS-SCS24_5	16:10	60.89368
TS-SCS24_5	16:20	61.15061
TS-SCS24_5	16:30	61.40285
TS-SCS24_5	16:40	61.65014
TS-SCS24_5	16:50	61.89273
TS-SCS24_5	17:00	62.13058
TS-SCS24_5	17:10	62.36355
TS-SCS24_5	17:20	62.59177
TS-SCS24_5	17:30	62.81523
TS-SCS24_5	17:40	63.03390
TS-SCS24_5	17:50	63.24777
TS-SCS24_5	18:00	63.45690
TS-SCS24_5	18:10	63.66117
TS-SCS24_5	18:20	63.86070
TS-SCS24_5	18:30	64.05550
TS-SCS24_5	18:40	64.24537
TS-SCS24_5	18:50	64.43055
TS-SCS24_5	19:00	64.61098
TS-SCS24_5	19:10	64.78653
TS-SCS24_5	19:20	64.95736
TS-SCS24_5	19:30	65.12338
TS-SCS24_5	19:40	65.28461
TS-SCS24_5	19:50	65.44108
TS-SCS24_5	20:00	65.59280
TS-SCS24_5	20:10	65.74158
TS-SCS24_5	20:20	65.88941
TS-SCS24_5	20:30	66.03631
TS-SCS24_5	20:40	66.18224
TS-SCS24_5	20:50	66.32723
TS-SCS24_5	21:00	66.47128

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TS-SCS24_5                  21:10      66.61431
TS-SCS24_5                  21:20      66.75641
TS-SCS24_5                  21:30      66.89763
TS-SCS24_5                  21:40      67.03777
TS-SCS24_5                  21:50      67.17699
TS-SCS24_5                  22:00      67.31530
TS-SCS24_5                  22:10      67.45259
TS-SCS24_5                  22:20      67.58895
TS-SCS24_5                  22:30      67.72436
TS-SCS24_5                  22:40      67.85881
TS-SCS24_5                  22:50      67.99231
TS-SCS24_5                  23:00      68.12488
TS-SCS24_5                  23:10      68.25643
TS-SCS24_5                  23:20      68.38704
TS-SCS24_5                  23:30      68.51671
TS-SCS24_5                  23:40      68.64541
TS-SCS24_5                  23:50      68.77318
TS-SCS24_5                  24:00      68.90000

;50-year cumulative storm with a total rainfall amount of 109.3 mm using a SCS Type
II 24-hr storm distribution.
TS-SCS24_50                 0:00       0.00000
TS-SCS24_50                 0:10       0.18370
TS-SCS24_50                 0:20       0.37042
TS-SCS24_50                 0:30       0.56016
TS-SCS24_50                 0:40       0.75297
TS-SCS24_50                 0:50       0.94880
TS-SCS24_50                 1:00       1.14765
TS-SCS24_50                 1:10       1.34956
TS-SCS24_50                 1:20       1.55450
TS-SCS24_50                 1:30       1.76246
TS-SCS24_50                 1:40       1.97348
TS-SCS24_50                 1:50       2.18753
TS-SCS24_50                 2:00       2.40460
TS-SCS24_50                 2:10       2.62473
TS-SCS24_50                 2:20       2.84788
TS-SCS24_50                 2:30       3.07406
TS-SCS24_50                 2:40       3.30330
TS-SCS24_50                 2:50       3.53556
TS-SCS24_50                 3:00       3.77085
TS-SCS24_50                 3:10       4.00920
TS-SCS24_50                 3:20       4.25057
TS-SCS24_50                 3:30       4.49496
TS-SCS24_50                 3:40       4.74242
TS-SCS24_50                 3:50       4.99290
TS-SCS24_50                 4:00       5.24640
TS-SCS24_50                 4:10       5.50457
TS-SCS24_50                 4:20       5.76871
TS-SCS24_50                 4:30       6.03883
TS-SCS24_50                 4:40       6.31521
TS-SCS24_50                 4:50       6.59757
TS-SCS24_50                 5:00       6.88590
TS-SCS24_50                 5:10       7.18043
TS-SCS24_50                 5:20       7.48107
TS-SCS24_50                 5:30       7.78762
TS-SCS24_50                 5:40       8.10037
TS-SCS24_50                 5:50       8.41923
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TS-SCS24_50	6:00	8.74400
TS-SCS24_50	6:10	9.07503
TS-SCS24_50	6:20	9.41197
TS-SCS24_50	6:30	9.75503
TS-SCS24_50	6:40	10.10420
TS-SCS24_50	6:50	10.45943
TS-SCS24_50	7:00	10.82070
TS-SCS24_50	7:10	11.18817
TS-SCS24_50	7:20	11.56161
TS-SCS24_50	7:30	11.94103
TS-SCS24_50	7:40	12.32671
TS-SCS24_50	7:50	12.71837
TS-SCS24_50	8:00	13.11600
TS-SCS24_50	8:10	13.53221
TS-SCS24_50	8:20	13.97852
TS-SCS24_50	8:30	14.45493
TS-SCS24_50	8:40	14.96222
TS-SCS24_50	8:50	15.49961
TS-SCS24_50	9:00	16.06710
TS-SCS24_50	9:10	16.65003
TS-SCS24_50	9:20	17.23297
TS-SCS24_50	9:30	17.81590
TS-SCS24_50	9:40	18.42361
TS-SCS24_50	9:50	19.07941
TS-SCS24_50	10:00	19.78330
TS-SCS24_50	10:10	20.54913
TS-SCS24_50	10:20	21.38710
TS-SCS24_50	10:30	22.29720
TS-SCS24_50	10:40	23.30640
TS-SCS24_50	10:50	24.43584
TS-SCS24_50	11:00	25.68550
TS-SCS24_50	11:10	27.14575
TS-SCS24_50	11:20	28.89455
TS-SCS24_50	11:30	30.93190
TS-SCS24_50	11:40	36.78455
TS-SCS24_50	11:50	51.47953
TS-SCS24_50	12:00	72.46590
TS-SCS24_50	12:10	75.77441
TS-SCS24_50	12:20	78.39761
TS-SCS24_50	12:30	80.33550
TS-SCS24_50	12:40	81.83983
TS-SCS24_50	12:50	83.18787
TS-SCS24_50	13:00	84.37960
TS-SCS24_50	13:10	85.44746
TS-SCS24_50	13:20	86.43116
TS-SCS24_50	13:30	87.33070
TS-SCS24_50	13:40	88.15591
TS-SCS24_50	13:50	88.92102
TS-SCS24_50	14:00	89.62600
TS-SCS24_50	14:10	90.28916
TS-SCS24_50	14:20	90.93130
TS-SCS24_50	14:30	91.55241
TS-SCS24_50	14:40	92.15181
TS-SCS24_50	14:50	92.73019
TS-SCS24_50	15:00	93.28755
TS-SCS24_50	15:10	93.82319
TS-SCS24_50	15:20	94.33781

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TS-SCS24_50                15:30      94.83141
TS-SCS24_50                15:40      95.30330
TS-SCS24_50                15:50      95.75416
TS-SCS24_50                16:00      96.18400
TS-SCS24_50                16:10      96.59912
TS-SCS24_50                16:20      97.00670
TS-SCS24_50                16:30      97.40685
TS-SCS24_50                16:40      97.79913
TS-SCS24_50                16:50      98.18397
TS-SCS24_50                17:00      98.56128
TS-SCS24_50                17:10      98.93085
TS-SCS24_50                17:20      99.29289
TS-SCS24_50                17:30      99.64739
TS-SCS24_50                17:40      99.99427
TS-SCS24_50                17:50      100.33354
TS-SCS24_50                18:00      100.66530
TS-SCS24_50                18:10      100.98934
TS-SCS24_50                18:20      101.30587
TS-SCS24_50                18:30      101.61490
TS-SCS24_50                18:40      101.91609
TS-SCS24_50                18:50      102.20985
TS-SCS24_50                19:00      102.49607
TS-SCS24_50                19:10      102.77457
TS-SCS24_50                19:20      103.04556
TS-SCS24_50                19:30      103.30894
TS-SCS24_50                19:40      103.56470
TS-SCS24_50                19:50      103.81292
TS-SCS24_50                20:00      104.05360
TS-SCS24_50                20:10      104.28962
TS-SCS24_50                20:20      104.52414
TS-SCS24_50                20:30      104.75716
TS-SCS24_50                20:40      104.98866
TS-SCS24_50                20:50      105.21867
TS-SCS24_50                21:00      105.44718
TS-SCS24_50                21:10      105.67408
TS-SCS24_50                21:20      105.89949
TS-SCS24_50                21:30      106.12352
TS-SCS24_50                21:40      106.34584
TS-SCS24_50                21:50      106.56670
TS-SCS24_50                22:00      106.78610
TS-SCS24_50                22:10      107.00390
TS-SCS24_50                22:20      107.22020
TS-SCS24_50                22:30      107.43501
TS-SCS24_50                22:40      107.64829
TS-SCS24_50                22:50      107.86008
TS-SCS24_50                23:00      108.07038
TS-SCS24_50                23:10      108.27907
TS-SCS24_50                23:20      108.48626
TS-SCS24_50                23:30      108.69196
TS-SCS24_50                23:40      108.89614
TS-SCS24_50                23:50      109.09882
TS-SCS24_50                24:00      109.30000

[PATTERNS]
;;Name           Type       Multipliers
;;-------------- ---------- -----------
Sanitary TP-03   MONTHLY    1.0   1.0   1.0   1.0   1.0   1.0
```

```
Sanitary TP-03              1.0   1.0   1.0   1.0   1.0   1.0

[REPORT]
;;Reporting Options
INPUT      YES
CONTROLS   YES
SUBCATCHMENTS ALL
NODES ALL
LINKS ALL

[TAGS]

[MAP]
DIMENSIONS       644168.4543      4747586.9075     647592.3297      4754454.2625
UNITS            Meters

[COORDINATES]
;;Node           X-Coord            Y-Coord
;;-------------- ------------------ ------------------
J1               645495.04          4749843.42
J10              644984.427         4751723.074
J11              645543.435         4748144.759
J12              645009.32          4748356.47
J13              644971.1           4749720.54
J14              644968.9           4749819.02
J15              644853.51          4750336.06
J16              644981.39          4750788.06
J17              645440             4751355.44
J18              645793.52          4751633.26
J19              645847.07          4752117.18
J2               645817.33          4749465.97
J20              645691.36          4751614.15
J21              645768.04          4752399.45
J22              646596.45          4752421.17
J23              646617.85          4752422.15
J24              647023.16          4751905.96
J25              646996.81          4750894.91
J26              646650.71          4750503.52
J27              646367.33          4750368.8
J28              645802.88          4750115.61
J29              645517.18          4750071.48
J3               645525.2           4748818.72
J30              644995.13          4749850.23
J31              645334.124         4751224.453
J32              645328.117         4751385.992
J33              645544.017         4748141.486
J4               645535.25          4748420.78
J5               645543.35          4748168.19
J6               644945.37          4749722.83
J7               645507.17          4749392.75
J8               645539.77          4748156.74
J86              645511.4           4750349.58
J87              645881.27          4750357.52
J88              645783.96          4752124.13
J9               645542.415         4748149.151
J10 Outlet       645654.61          4747909.06
```

[VERTICES]

;;Link	X-Coord	Y-Coord
Link-14	644893.667	4749817.216
Link-16	647016.344	4752410.958
Link-17	647126.548	4751857.661
Link-17	647132.803	4751784.163
Link-17	647079.634	4751776.344
Link-17	647070.251	4751593.38
Link-17	647204.738	4751232.144
Link-17	647035.848	4750988.193
Link-20	646257.348	4750221.128
Link-20	645983.515	4750091.364
Link-21	645688.17	4750077.577
Link-22	645386.508	4750068.78
Link-22	645385.614	4749854.785
Link-23	644969.205	4749850.034
Link-32	645507.51	4747986.011
Link-32	645518.216	4747954.404
PC2	645290.524	4751615.308

[POLYGONS]

;;Subcatchment	X-Coord	Y-Coord
B1	644551.47	4749578.28
B1	644547.75	4749803.94
B1	644566.84	4749828.59
B1	644763.85	4749829.73
B1	644802.33	4749787.63
B1	644958.56	4749791.87
B1	644961.89	4749701.17
B1	644765.39	4749581.9
B1	644551.47	4749578.28
M1	645435.43	4749839.87
M1	645452.18	4749862.21
M1	645450.79	4749860.82
M1	645481.5	4749911.08
M1	645508.03	4749934.82
M1	645551.32	4749966.93
M1	645725.85	4750015.8
M1	645838.95	4750015.8
M1	646048.4	4749941.8
M1	646372.33	4749933.42
M1	646611.1	4749966.93
M1	646622.63	4749869.86
M1	646453.32	4749497.08
M1	646373.968	4749574.101
M1	646249.945	4749651.615
M1	645872.083	4749708.458
M1	645811.988	4749833.774
M1	645435.43	4749839.87
M2	645819.4	4748934.38
M2	645804.39	4749845.46
M2	645870.124	4749709.751
M2	646249.945	4749651.615
M2	646373.968	4749574.101
M2	646453.32	4749497.08

M2	646239.69	4749291.13
M2	646123.1	4749205.26
M2	646025.36	4749134.75
M2	645971.6	4749080.99
M2	645819.4	4748934.38
M3	645405.89	4748812.41
M3	645402.43	4748991.91
M3	645396.67	4749321.65
M3	645402.96	4749517.17
M3	645405.89	4749766.17
M3	645432.25	4749837.85
M3	645804.36	4749845.59
M3	645819.41	4748934.41
M3	645821.8	4748824.76
M3	645405.89	4748812.41
M4	645411.51	4748558.43
M4	645212.62	4748553.12
M4	645208.26	4748806.9
M4	645405.9	4748812.41
M4	645821.8	4748824.76
M4	645826.82	4748560.79
M4	645536.06	4748415.38
M4	645411.51	4748558.43
M5	645411.53	4748558.42
M5	645536.09	4748415.16
M5	645826.83	4748560.79
M5	645830.12	4748445.824
M5	645841.232	4748444.569
M5	645846.525	4748386.106
M5	645878.07	4748381.327
M5	645900.35	4748316.184
M5	645934.338	4748260.294
M5	645889.21	4748249.342
M5	645831.231	4748199.707
M5	645837.38	4748108.39
M5	645717.47	4748076.69
M5	645617.6	4748022.84
M5	645586.18	4748160.38
M5	645572.92	4748163.43
M5	645542.81	4748165.09
M5	645521.25	4748167.97
M5	645466.01	4748171.98
M5	645420.42	4748183.11
M5	645411.53	4748558.42
PC1	645768.01	4752399.72
PC1	645752.97	4753106.77
PC1	645753.8	4753119.33
PC1	645764.14	4753127.15
PC1	645764.14	4753164.57
PC1	646130.781	4753349.42
PC1	646161.74	4753345.264
PC1	646176.043	4753328.761
PC1	646182.644	4753309.508
PC1	646259.656	4753257.8
PC1	646297.572	4753224.19
PC1	646264.6	4753192.6
PC1	646152.9	4753133.4

PC1	645974.45	4752972.55
PC1	645860.34	4752715.56
PC1	645859.98	4752502.12
PC1	645986.2	4752413.5
PC1	645984.71	4752404.56
PC1	645768.01	4752399.72
PC10	645749.92	4751618.57
PC10	645747.66	4751635.62
PC10	645767.79	4751649.59
PC10	645757.93	4752122.27
PC10	645795.6	4752123.09
PC10	645808.1	4751624.92
PC10	645749.92	4751618.57
PC11	645784.91	4752122.95
PC11	645758.07	4752122.28
PC11	645753.18	4752381.39
PC11	644968.95	4752358.66
PC11	644967.86	4752379.94
PC11	645767.92	4752399.43
PC11	646178.1	4752406.54
PC11	646181.1	4752382.61
PC11	645802.42	4752368.7
PC11	645790.65	4752359.51
PC11	645795.6	4752123.09
PC11	645784.91	4752122.95
PC2	645767.82	4752399.5
PC2	644943.61	4752379.64
PC2	644324.085	4752364.795
PC2	644393.081	4752440.53
PC2	644459.43	4752473.237
PC2	644709.877	4752537.718
PC2	644792.76	4752542.662
PC2	644860.332	4752458.285
PC2	644937.895	4752421.84
PC2	645090.219	4752493.796
PC2	645167.4	4752613.41
PC2	645214.73	4752675.41
PC2	645377.05	4752710.59
PC2	645418.52	4752709.34
PC2	645584.71	4753023.19
PC2	645753.58	4753119.24
PC2	645752.63	4753105.58
PC2	645767.82	4752399.5
PC3-QW1	644968.95	4752358.65
PC3-QW1	645753.18	4752381.39
PC3-QW1	645766.97	4751649.78
PC3-QW1	645747.18	4751635.64
PC3-QW1	645763.08	4751486.37
PC3-QW1	645753.42	4751472.94
PC3-QW1	645635.84	4751478.6
PC3-QW1	645613.22	4751449.38
PC3-QW1	645621	4751415.69
PC3-QW1	645609.22	4751402.96
PC3-QW1	645486.69	4751411.45
PC3-QW1	645365.11	4751434.07
PC3-QW1	645293.48	4751449.15
PC3-QW1	645283.43	4751541.2

PC3-QW1	645289.4	4751615.97
PC3-QW1	645066.97	4751680.06
PC3-QW1	644991.57	4751747.92
PC3-QW1	644987.8	4751796.93
PC3-QW1	644970.84	4751881.75
PC3-QW1	644968.95	4752358.65
PC4-QE1	645818.92	4751289.45
PC4-QE1	645811.5	4751382.76
PC4-QE1	645809.03	4751607.28
PC4-QE1	645804.2	4751701.29
PC4-QE1	645796.54	4752078.29
PC4-QE1	645790.65	4752359.5
PC4-QE1	645802.43	4752368.69
PC4-QE1	645861.34	4752372.7
PC4-QE1	646181.31	4752382.6
PC4-QE1	646371.72	4752383.6
PC4-QE1	646394.02	4751593.14
PC4-QE1	646397.94	4751407.23
PC4-QE1	646384.92	4751403.62
PC4-QE1	646201.25	4751399.28
PC4-QE1	646191.31	4751394.51
PC4-QE1	646190.72	4751185.07
PC4-QE1	645957.32	4751243.32
PC4-QE1	645818.92	4751289.45
PC5	645407.22	4751426.49
PC5	645486.03	4751410.26
PC5	645609.49	4751403.1
PC5	645620.82	4751415.03
PC5	645614.26	4751447.83
PC5	645635.14	4751477.06
PC5	645752.03	4751472.88
PC5	645763.96	4751486
PC5	645750.84	4751618.41
PC5	645808.11	4751624.9
PC5	645818.91	4751289.56
PC5	645957.13	4751243.31
PC5	645941.35	4751196.67
PC5	645795.82	4751237.22
PC5	645585.88	4751298.72
PC5	645435.85	4751344.84
PC5	645392.91	4751354.92
PC5	645407.22	4751426.49
PC6	644958.57	4749791.87
PC6	644802.33	4749787.63
PC6	644763.85	4749829.73
PC6	644566.057	4749827.579
PC6	644566.085	4749827.615
PC6	644563.357	4749827.574
PC6	644557.31	4750188.715
PC6	644563.824	4750206.395
PC6	644563.425	4750305.588
PC6	644565.117	4750316.744
PC6	644966.75	4750330.02
PC6	644973.24	4749983.07
PC6	644961.91	4749911.03
PC6	644961.31	4749846.22
PC6	644964.1	4749833.1

PC6	644960.72	4749827.34
PC6	644958.57	4749791.87
PC7	644966.76	4750330.03
PC7	644565.117	4750316.744
PC7	644566.73	4750325.94
PC7	644566.18	4750360.25
PC7	644521.317	4750359.328
PC7	644499.625	4750370.455
PC7	644474.259	4750395.459
PC7	644470.635	4750405.243
PC7	644474.984	4750440.393
PC7	644495.639	4750484.965
PC7	644502.272	4750493.777
PC7	644524.618	4750513.279
PC7	644559.685	4750659.134
PC7	644687.74	4750824.51
PC7	644681.51	4750957.55
PC7	644614.14	4751066.81
PC7	644529.56	4751348.69
PC7	644457.135	4751558.102
PC7	644454.474	4751603.782
PC7	644946.756	4751610.435
PC7	644973.528	4751611.692
PC7	645035.621	4751544.912
PC7	645056.71	4751356.288
PC7	644966.98	4751355.1
PC7	644981.48	4750345.52
PC7	644980.45	4750337.6
PC7	644975.85	4750331.41
PC7	644966.83	4750331.12
PC7	644966.76	4750330.03
PC8	644975.96	4750331.4
PC8	644980.5	4750337.6
PC8	644981.47	4750345.42
PC8	644966.95	4751355.1
PC8	645304.86	4751359.63
PC8	645370.53	4751357.36
PC8	645410.73	4751349.43
PC8	645435.64	4751343.77
PC8	645935.55	4751196.26
PC8	645867.293	4751204.508
PC8	645833.506	4751214.162
PC8	645805.35	4751213.625
PC8	645795.17	4751198.08
PC8	645639.47	4751200
PC8	645089.14	4750528.94
PC8	645092.44	4750333.81
PC8	644975.96	4750331.4
PC9_3	644979.045	4751723.729
PC9_3	645066.82	4751680.12
PC9_3	645287.4	4751615.12
PC9_3	645280.82	4751541.35
PC9_3	645293.24	4751448.59
PC9_3	645405.72	4751425.94
PC9_3	645391.11	4751355.09
PC9_3	645305.66	4751363.86
PC9_3	645056.71	4751356.288

PC9_3	645037.544	4751430.368
PC9_3	645037.59	4751545.876
PC9_3	644973.169	4751611.789
PC9_3	644982.887	4751675.774
PC9_3	644979.045	4751723.729
PC9_4	644935.63	4752323.99
PC9_4	644346.91	4752310.73
PC9_4	644348.67	4752365.36
PC9_4	644943.52	4752379.45
PC9_4	644967.85	4752379.84
PC9_4	644968.94	4752358.66
PC9_4	644968.94	4752325.06
PC9_4	644979.045	4751723.729
PC9_4	644944.996	4751721.71
PC9_4	644935.63	4752323.99
W1	645984.86	4752404.64
W1	645986.2	4752413.59
W1	645860.06	4752502.16
W1	645860.17	4752715.64
W1	645974.44	4752972.56
W1	646152.88	4753133.35
W1	646264.64	4753192.54
W1	646441.584	4753235.158
W1	646447.13	4753295.473
W1	646436.731	4753324.59
W1	646293.224	4753461.164
W1	646390.975	4753577.633
W1	646441.614	4753559.188
W1	646465.661	4753534.923
W1	646482.93	4753503.444
W1	646523.321	4753510.283
W1	646560.707	4753530.277
W1	646569.471	4753606.828
W1	646574.812	4753621.891
W1	646585.647	4753624.843
W1	646608.89	4752415.46
W1	646176.79	4752406.51
W1	645984.86	4752404.64
W10	645003.41	4748359.66
W10	644567.93	4748568.23
W10	644551.48	4749578.27
W10	644765.39	4749581.9
W10	644961.9	4749701.16
W10	644958.57	4749791.87
W10	644960.72	4749827.34
W10	644964.1	4749833.1
W10	645431.77	4749838.97
W10	645405.89	4749766.18
W10	645405.89	4748812.41
W10	645208.26	4748806.9
W10	645212.62	4748553.12
W10	645129.26	4748465.87
W10	645003.41	4748359.66
W11	645542.08	4748150.47
W11	645511.83	4748092.71
W11	645459.24	4748078.43
W11	645400.16	4748056.35

W11	645267.72	4748000.52
W11	645215.13	4747994.03
W11	645163.84	4748024.54
W11	644995.04	4748173.22
W11	644853.5	4748268.66
W11	644667.17	4748404.35
W11	644569.8	4748445.49
W11	644567.93	4748568.23
W11	645003.41	4748359.66
W11	645129.26	4748465.84
W11	645212.62	4748553.12
W11	645411.52	4748558.42
W11	645420.42	4748183.11
W11	645466.01	4748171.95
W11	645522.37	4748167.85
W11	645541.27	4748164.97
W11	645571.57	4748163.24
W11	645542.08	4748150.47
W12	647024.75	4751904.4
W12	647015.25	4751922.74
W12	647000.57	4752089.62
W12	646987.03	4752366.18
W12	646987.1	4752422.77
W12	647423.441	4752430.813
W12	647428.149	4752094.693
W12	647113.77	4751955.17
W12	647024.75	4751904.4
W13	645813.37	4750347.16
W13	645795.25	4751198.03
W13	645805.35	4751213.625
W13	645833.506	4751214.162
W13	645867.293	4751204.508
W13	645941.17	4751195.44
W13	646168.14	4751129.82
W13	646121.58	4750965.92
W13	646224.86	4750542.62
W13	646023.79	4750385.99
W13	645980.93	4750352.23
W13	645871.35	4750349.16
W13	645813.37	4750347.16
W14	645980.93	4750352.22
W14	646224.85	4750542.62
W14	646121.59	4750965.92
W14	646168.14	4751129.82
W14	646632.17	4750994.12
W14	646644.9	4750369.93
W14	646368.14	4750363.53
W14	645980.93	4750352.22
W2	646610.18	4752415.68
W2	646585.647	4753624.843
W2	646698.482	4753627.392
W2	646767.697	4753667.166
W2	646829.92	4753764.64
W2	646847.95	4753915.73
W2	647067.96	4754142.11
W2	647012.29	4753944.36
W2	646994.8	4753750.33

W2	647012.121	4753659.268
W2	647076.92	4753559.56
W2	647165.144	4753482.397
W2	647179.111	4753426.752
W2	647212.233	4753400.917
W2	647223.29	4753374.45
W2	647187.501	4753305.029
W2	647178.23	4753191.55
W2	647185.514	4753023.143
W2	647164.45	4752989.03
W2	647139.233	4752971.586
W2	647104.57	4752960.661
W2	647052.259	4752896.123
W2	647031.91	4752847.48
W2	647069.414	4752799.864
W2	647143.991	4752771.749
W2	647209.897	4752726.722
W2	647224.832	4752616.828
W2	647346.393	4752544.139
W2	647423.01	4752443.958
W2	647423.441	4752430.813
W2	646610.18	4752415.68
W3	645798.45	4750117.4
W3	645793.9	4750342.76
W3	645802.24	4750346.85
W3	646368.09	4750363.53
W3	646612.16	4750369.07
W3	646644.9	4750369.93
W3	646834.73	4750375.1
W3	646829.71	4750361.48
W3	646827.07	4750155.64
W3	646805.31	4750068.18
W3	646622.63	4749869.86
W3	646620.62	4749968.68
W3	646611.52	4749967.13
W3	646372.33	4749933.42
W3	646048.4	4749941.8
W3	645838.95	4750015.8
W3	645800.66	4750015.8
W3	645798.45	4750117.4
W4	645813.18	4750349.86
W4	645802.23	4750346.83
W4	645092.77	4750332.45
W4	645089.15	4750528.94
W4	645639.47	4751200
W4	645795.17	4751198.08
W4	645807.39	4750572.13
W4	645813.18	4750349.86
W5	646642.31	4750496.93
W5	646632.17	4750994.13
W5	647190.76	4750834.83
W5	647171.37	4750786.98
W5	647115.01	4750725.64
W5	647052.94	4750635.91
W5	646907.56	4750474.16
W5	646909.23	4750376.49
W5	646644.89	4750369.93

W5	646642.31	4750496.93
W6	646996.67	4750890.27
W6	645941.19	4751195.43
W6	645957.15	4751243.35
W6	646190.74	4751185
W6	646191.47	4751394.46
W6	646201.26	4751399.25
W6	646384.92	4751403.62
W6	646397.94	4751407.23
W6	646389.79	4751743.05
W6	647144.78	4751778.46
W6	647168.13	4751743.16
W6	647434.278	4751750.221
W6	647436.699	4751609.181
W6	647304.732	4751607.369
W6	647301.78	4751506.72
W6	647293.93	4751152.68
W6	647216.62	4750899.34
W6	647190.76	4750834.83
W6	646996.67	4750890.27
W7	647029.93	4751893.54
W7	647032.19	4751816.78
W7	647032.53	4751773.11
W7	646389.79	4751743.05
W7	646371.73	4752383.6
W7	646181.11	4752382.63
W7	646178.1	4752406.55
W7	646617.81	4752415.68
W7	646899.41	4752421.14
W7	646987.04	4752410.54
W7	646987.04	4752365.39
W7	646999.46	4752102.37
W7	647015.26	4751922.89
W7	647029.93	4751893.54
W8	645515.3	4750073.62
W8	645515.03	4750076.23
W8	645672.1	4750240.69
W8	645699.65	4750309.38
W8	645686.31	4750344.31
W8	645802.03	4750346.8
W8	645793.89	4750342.76
W8	645800.66	4750015.81
W8	645725.85	4750015.81
W8	645551.32	4749966.93
W8	645515.3	4750073.62
W9	644969.58	4749833.11
W9	644964.1	4749833.1
W9	644961.31	4749846.22
W9	644961.91	4749911.03
W9	644973.26	4749983.06
W9	644966.76	4750330.02
W9	644966.83	4750331.12
W9	645092.64	4750333.8
W9	645092.77	4750332.41
W9	645337.16	4750337.05
W9	645391.66	4750088.95
W9	645515.02	4750076.03

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W9               645515.26          4750073.36
W9               645551.32          4749966.93
W9               645481.5           4749911.1
W9               645434.16          4749839.03
W9               644969.58          4749833.11
WB1              645515.13          4750076.04
WB1              645391.67          4750088.97
WB1              645337.32          4750336.56
WB1              645686.44          4750343.35
WB1              645699.65          4750309.38
WB1              645672.09          4750240.69
WB1              645515.13          4750076.04
WB2              647025.08          4751904.32
WB2              647117.13          4751956.75
WB2              647428.149         4752094.693
WB2              647434.278         4751750.221
WB2              647168.16          4751743.17
WB2              647144.78          4751778.46
WB2              647032.42          4751773.13
WB2              647032.13          4751816.84
WB2              647029.91          4751893.6
WB2              647025.08          4751904.32

[SYMBOLS]
;;Gage           X-Coord            Y-Coord
;;-------------- ------------------ ------------------
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