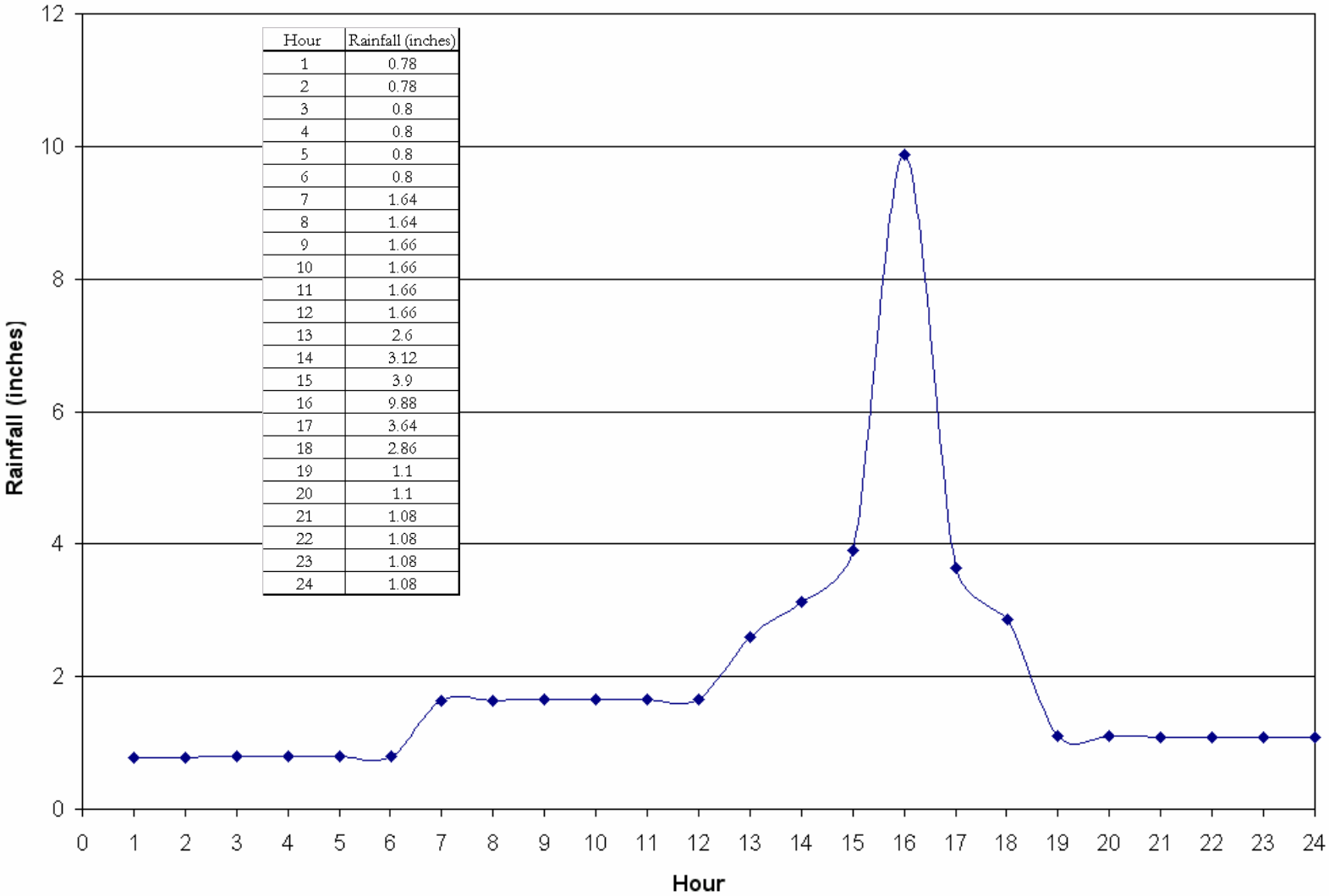
CHAN Model Documentation

BROWN AND CALDWELL

PROBABLE MAXIMUM STORM RAINFALL HYETOGRAPH

Probable Maximum Storm
47.2 inches over 24 hours



Hour	Rainfall (inches)
1	0.78
2	0.78
3	0.8
4	0.8
5	0.8
6	0.8
7	1.64
8	1.64
9	1.66
10	1.66
11	1.66
12	1.66
13	2.6
14	3.12
15	3.9
16	9.88
17	3.64
18	2.86
19	1.1
20	1.1
21	1.08
22	1.08
23	1.08
24	1.08

CHAN NODE SCHEMATIC

NORTH

NOT TO SCALE

NOTE: REFER TO NETWORK TOPOLOGY AS PROVIDED IN THE NETWORK INPUT DATA SECTION FOR REACH IDENTIFICATION.

INFLOW TO SYSTEM

SUMP

BEGIN INFLOW CANAL

EXISTING STRUCTURE G337A

C EXIST. CELL 3 PERIMETER LEVEE

℄ INFLOW CANAL

P

CELL 1

CELL 2

CELL 3 (OFFLINE)

CELL 4

C EXIST. CELL 3 PERIMETER LEVEE

EAST LEVEE ROAD (SEE SHEET 2)

200' FPL ROW

EXISTING STRUCTURES G332 & G334

OUTLET CONTROL STRUCTURE

℄ DISCHARGE CANAL

18'

55'

PL

℄ COLLECTOR CANAL

MIAMI

BEGIN DISCHARGE CANAL

DISCHARGE COLLECTOR CANAL

G-335 PUMPING STATION

DC4_8438 DC4_8200 DC4_7300 DC4_6300 DC4_5300 DC4_4300 DC4_3300 DC4_2500 DC4_1300 DC4_300 DC5800 DC5325 DC4700 DC4450 DC4075 DC3575 DC3450 DC2825 DC2700 DC2200 DC1825 DC1575 DC950

DATE	REV.#	REVISION DESCRIPTION

BROWN AND CALDWELL

ENGINEER: JD
DRAWN: KG
CHECKED: JS
DATE: MARCH 2005
SCALE: AS SHOWN

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
ENGINEERING & CONSTRUCTION DEPARTMENT
PHONE: 561-686-8800
3301 GUN CLUB ROAD
WEST PALM BEACH, FLORIDA 33406

STORMWATER TREATMENT AREA 2
CELL 4 EXPANSION

CHAN NODE SCHEMATIC

CONTRACT NO.

DRAWING NO.

SHEET
OF

J:\Land Projects R2\97030.02\dwg\C3.dwg 3/18/2005 10:19:07 AM EST

CASE 1 NETWORK INPUT DATA

Cell 4 Case 1 Network Data for PMS Run

Model Network Summary Information

95 Elements comprise the model network

No basins in this network.

29 Nodes

- 4 Lake nodes
- 24 Channel nodes
- 1 Tailwater nodes

37 Reaches

- 23 Unsteady Open Channels
- 8 Culverts
- 1 Bridges
- 9 Weirs
- 2 Gates
- 3 Pumps

28 Sections

1 Sources

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Cell 4 Case 1 Network Data for PMS Run

Basin Topology

No basin elements in this network

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Cell 4 Case 1 Network Data for PMS Run

Network Topology

Reach ID	Type	From Node	Type	To Node	Type
G_335	Pump	G_335	Channel	TW	Tailwater
DC950	Channel	DC950	Channel	G_335	Channel
DC1575	Channel	DC1575	Channel	DC950	Channel
DC1825	Channel	DC1825	Channel	DC1575	Channel
DC2200	Channel	DC2200	Channel	DC1825	Channel
DC2700	Channel	DC2700	Channel	DC2200	Channel
DC2825	Channel	DC2825	Channel	DC2700	Channel
DC3450	Channel	DC3450	Channel	DC2825	Channel
DC3575	Channel	DC3575	Channel	DC3450	Channel
DC4075	Channel	DC4075	Channel	DC3575	Channel
DC4450	Channel	DC4450	Channel	DC4075	Channel
DC4700	Channel	DC4700	Channel	DC4450	Channel
DC5325	Channel	DC5325	Channel	DC4700	Channel
DC5800	Channel	DC5800	Channel	DC5325	Channel
DC4_300	Channel	DC4_300	Channel	DC5800	Channel
DC4_1300	Channel	DC4_1300	Channel	DC4_300	Channel
DC4_2500	Channel	DC4_2500	Channel	DC4_1300	Channel
DC4_3300	Channel	DC4_3300	Channel	DC4_2500	Channel
DC4_4300	Channel	DC4_4300	Channel	DC4_3300	Channel
DC4_5300	Channel	DC4_5300	Channel	DC4_4300	Channel
DC4_6300	Channel	DC4_6300	Channel	DC4_5300	Channel
DC4_7300	Channel	DC4_7300	Channel	DC4_6300	Channel
DC4_8200	Channel	DC4_8200	Channel	DC4_7300	Channel
DC4_8438	Channel	DC4_8438	Channel	DC4_8200	Channel
CELL4_ST	Bridge w/	CELL4	Lake	DC4_8438	Channel
G330A	Riser	CELL1	Lake	DC950	Channel
G330B	Riser	CELL1	Lake	DC1575	Channel
G330C	Riser	CELL1	Lake	DC2200	Channel
G330D	Riser	CELL1	Lake	DC2825	Channel
G330E	Riser	CELL1	Lake	DC3450	Channel
G330F	Riser	CELL1	Lake	DC4075	Channel
G330H	Riser	CELL1	Lake	DC5325	Channel
G330G	Riser	CELL1	Lake	DC4700	Channel
CELL2_ST	Gate	CELL2	Lake	DC5800	Channel
SUMP1	Pump	SUMP	Lake	CELL1	Lake
SUMP2	Pump	SUMP	Lake	CELL2	Lake
SUMP4	Gate	SUMP	Lake	CELL4	Lake

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Cell 4 Case 1 Network Data for PMS Run

Node Element Data

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC950	Channel	-4	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
G_335	Channel	-4	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC1575	Channel	-4	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC1825	Channel	-4	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC2200	Channel	-4	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC2700	Channel	-4	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC2825	Channel	-4	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC3450	Channel	-4	8.9	20

No area relation associated with this node

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Cell 4 Case 1 Network Data for PMS Run

Node Element Data

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC3575	Channel	-4	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC4075	Channel	-4	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC4450	Channel	-4	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC4700	Channel	-4	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC5325	Channel	-4	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC5800	Channel	-4	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC4_300	Channel	-5.3	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC4_1300	Channel	-5.35	8.9	20

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Cell 4 Case 1 Network Data for PMS Run

Node Element Data

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC4_2500	Channel	-4.6	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC4_3300	Channel	-3.2	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC4_4300	Channel	-3.2	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC4_5300	Channel	-4.25	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC4_6300	Channel	-4.4	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC4_7300	Channel	-4.1	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC4_8200	Channel	-3.9	8.9	20

No area relation associated with this node

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Cell 4 Case 1 Network Data for PMS Run

Node Element Data

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC4_8438	Channel	-2.5	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
CELL4	Lake	-10	10.95	20

Elev	-10	20
Area	1924	1950

	Node Type	Bottom Elev	Initial Elev	Flood Elev
TW	Tailwater	0	5	21

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
CELL1	Lake	11	12.75	20

Elev	11	20
Area	1783	1783

	Node Type	Bottom Elev	Initial Elev	Flood Elev
CELL2	Lake	6	13.93	20

Elev	6	20
Area	2382	2382

	Node Type	Bottom Elev	Initial Elev	Flood Elev
SUMP	Lake	-2	17.3	20

Elev	-2	20
Area	0.58	0.58

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Cell 4 Case 1 Network Data for PMS Run

Reach Element Data

	From Node	To Node	Initial Flow	# Elements
G_335	G_335	TW	0	1

Element #1 : Pump
Variable Discharge
Reference Node G_335

Elev (ft)	Discharge (cfs)
-4	0
8.89	0
8.9	3278.8
20	3278.8

	From Node	To Node	Initial Flow	# Elements
DC950	DC950	G_335	0	1

Element #1 : Unsteady Open Channel Section 1
Length (ft) 250 Velocity Coef 1

	From Node	To Node	Initial Flow	# Elements
DC1575	DC1575	DC950	0	1

Element #1 : Unsteady Open Channel Section 2
Length (ft) 625 Velocity Coef 1

	From Node	To Node	Initial Flow	# Elements
DC1825	DC1825	DC1575	0	1

Element #1 : Unsteady Open Channel Section 3
Length (ft) 250 Velocity Coef 1

	From Node	To Node	Initial Flow	# Elements
DC2200	DC2200	DC1825	0	1

Element #1 : Unsteady Open Channel Section 4
Length (ft) 90 Velocity Coef 1

	From Node	To Node	Initial Flow	# Elements
DC2700	DC2700	DC2200	0	1

Element #1 : Unsteady Open Channel Section 11
Length (ft) 500 Velocity Coef 1

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Cell 4 Case 1 Network Data for PMS Run

Reach Element Data

	From Node	To Node	Initial Flow	# Elements
DC2825	DC2825	DC2700	0	1

Element #1 : Unsteady Open Channel Section 12
Length (ft) 125 Velocity Coef 1

	From Node	To Node	Initial Flow	# Elements
DC3450	DC3450	DC2825	0	1

Element #1 : Unsteady Open Channel Section 5
Length (ft) 625 Velocity Coef 1

	From Node	To Node	Initial Flow	# Elements
DC3575	DC3575	DC3450	0	1

Element #1 : Unsteady Open Channel Section 6
Length (ft) 125 Velocity Coef 1

	From Node	To Node	Initial Flow	# Elements
DC4075	DC4075	DC3575	0	1

Element #1 : Unsteady Open Channel Section 7
Length (ft) 500 Velocity Coef 1

	From Node	To Node	Initial Flow	# Elements
DC4450	DC4450	DC4075	0	1

Element #1 : Unsteady Open Channel Section 8
Length (ft) 375 Velocity Coef 1

	From Node	To Node	Initial Flow	# Elements
DC4700	DC4700	DC4450	0	1

Element #1 : Unsteady Open Channel Section 9
Length (ft) 250 Velocity Coef 1

	From Node	To Node	Initial Flow	# Elements
DC5325	DC5325	DC4700	0	1

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Cell 4 Case 1 Network Data for PMS Run

Reach Element Data

	Element #1 :	Unsteady Open Channel	Section	10
	Length (ft) 400	Velocity Coef	1	

	From Node	To Node	Initial Flow	# Elements
DC5800	DC5800	DC5325	0	1

	Element #1 :	Unsteady Open Channel	Section	13
	Length (ft) 475	Velocity Coef	1	

	From Node	To Node	Initial Flow	# Elements
DC4_300	DC4_300	DC5800	0	1

	Element #1 :	Unsteady Open Channel	Section	DC4_300
	Length (ft) 1320	Velocity Coef	1	

	From Node	To Node	Initial Flow	# Elements
DC4_1300	DC4_1300	DC4_300	0	1

	Element #1 :	Unsteady Open Channel	Section	DC4_1300
	Length (ft) 1000	Velocity Coef	1	

	From Node	To Node	Initial Flow	# Elements
DC4_2500	DC4_2500	DC4_1300	0	1

	Element #1 :	Unsteady Open Channel	Section	DC4_2500
	Length (ft) 800	Velocity Coef	1	

	From Node	To Node	Initial Flow	# Elements
DC4_3300	DC4_3300	DC4_2500	0	1

	Element #1 :	Unsteady Open Channel	Section	DC4_3300
	Length (ft) 800	Velocity Coef	1	

	From Node	To Node	Initial Flow	# Elements
DC4_4300	DC4_4300	DC4_3300	0	1

	Element #1 :	Unsteady Open Channel	Section	DC4_4300
	Length (ft) 1000	Velocity Coef	1	

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Cell 4 Case 1 Network Data for PMS Run

Reach Element Data

	From Node	To Node	Initial Flow	# Elements
DC4_5300	DC4_5300	DC4_4300	0	1

Element #1 : Unsteady Open Channel Section DC_5300
Length (ft) 1000 Velocity Coef 1

	From Node	To Node	Initial Flow	# Elements
DC4_6300	DC4_6300	DC4_5300	0	1

Element #1 : Unsteady Open Channel Section DC_6300
Length (ft) 1000 Velocity Coef 1

	From Node	To Node	Initial Flow	# Elements
DC4_7300	DC4_7300	DC4_6300	0	1

Element #1 : Unsteady Open Channel Section DC_7300
Length (ft) 1000 Velocity Coef 1

	From Node	To Node	Initial Flow	# Elements
DC4_8200	DC4_8200	DC4_7300	0	1

Element #1 : Unsteady Open Channel Section DC4_8200
Length (ft) 900 Velocity Coef 1

	From Node	To Node	Initial Flow	# Elements
DC4_8438	DC4_8438	DC4_8200	0	1

Element #1 : Unsteady Open Channel Section DC4_8438
Length (ft)238.5 Velocity Coef 1

	From Node	To Node	Initial Flow	# Elements
CELL4_ST	CELL4	DC4_8438	0	1

Element #1 : Bridge with Upstream Structure

Subelement #1-1 : Bridge Section 8X8BOX
Length (ft) 123 US Inv (ft) -2.5 DS Inv (ft) -2.5
Velocity Coef 1 Ent Loss Coef 0.5 Number Barrels 4

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Cell 4 Case 1 Network Data for PMS Run

Reach Element Data

	Subelement #1-2 :	*Rectangular Sharp Crested Weir*			
	Length (ft)	51.25	Height (ft)	99	Exponent 1.5
	Crest El (ft)	9.65	Cd	3.33	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
G330A	CELL1	DC950	0	1

	Element #1 :	Culvert Riser			
	Subelement #1-1 :	Circular Culvert			
	Length (ft)	90	Rise (in)	54	Flap gate False
	US Inv (ft)	7.4	DS Inv (ft)	7.4	Manning's n 0.013
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Subelement #1-2 :	*Rectangular Sharp Crested Weir*			
	Length (ft)	50	Height (ft)	99	Exponent 1.5
	Crest El (ft)	12	Cd	3.3	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
G330B	CELL1	DC1575	0	1

	Element #1 :	Culvert Riser			
	Subelement #1-1 :	Circular Culvert			
	Length (ft)	90	Rise (in)	54	Flap gate False
	US Inv (ft)	7.4	DS Inv (ft)	7.4	Manning's n 0.013
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Subelement #1-2 :	*Rectangular Sharp Crested Weir*			
	Length (ft)	50	Height (ft)	99	Exponent 1.5
	Crest El (ft)	12	Cd	3.3	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
G330C	CELL1	DC2200	0	1

	Element #1 :	Culvert Riser			
	Subelement #1-1 :	Circular Culvert			
	Length (ft)	90	Rise (in)	54	Flap gate False
	US Inv (ft)	7.4	DS Inv (ft)	7.4	Manning's n 0.013
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1

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Cell 4 Case 1 Network Data for PMS Run

Reach Element Data

	Subelement #1-2 :	*Rectangular Sharp Crested Weir*			
	Length (ft)	50	Height (ft)	99	Exponent 1.5
	Crest El (ft)	12	Cd	3.3	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
G330D	CELL1	DC2825	0	1

	Element #1 :	Culvert Riser			
	Subelement #1-1 :	Circular Culvert			
	Length (ft)	90	Rise (in)	54	Flap gate False
	US Inv (ft)	7.4	DS Inv (ft)	7.4	Manning's n 0.013
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Subelement #1-2 :	*Rectangular Sharp Crested Weir*			
	Length (ft)	50	Height (ft)	99	Exponent 1.5
	Crest El (ft)	12	Cd	3.3	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
G330E	CELL1	DC3450	0	1

	Element #1 :	Culvert Riser			
	Subelement #1-1 :	Circular Culvert			
	Length (ft)	90	Rise (in)	54	Flap gate False
	US Inv (ft)	7.4	DS Inv (ft)	7.4	Manning's n 0.013
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Subelement #1-2 :	*Rectangular Sharp Crested Weir*			
	Length (ft)	50	Height (ft)	99	Exponent 1.5
	Crest El (ft)	12	Cd	3.3	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
G330F	CELL1	DC4075	0	1

	Element #1 :	Culvert Riser			
	Subelement #1-1 :	Circular Culvert			
	Length (ft)	90	Rise (in)	54	Flap gate False
	US Inv (ft)	7.4	DS Inv (ft)	7.4	Manning's n 0.013
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1

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Cell 4 Case 1 Network Data for PMS Run

Reach Element Data

	Subelement #1-2 :	*Rectangular Sharp Crested Weir*			
	Length (ft)	50	Height (ft)	99	Exponent 1.5
	Crest El (ft)	12	Cd	3.3	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
G330H	CELL1	DC5325	0	1

	Element #1 :	Culvert Riser			
	Subelement #1-1 :	Circular Culvert			
	Length (ft)	90	Rise (in)	54	Flap gate False
	US Inv (ft)	7.4	DS Inv (ft)	7.4	Manning's n 0.013
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Subelement #1-2 :	*Rectangular Sharp Crested Weir*			
	Length (ft)	50	Height (ft)	99	Exponent 1.5
	Crest El (ft)	12	Cd	3.3	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
G330G	CELL1	DC4700	0	1

	Element #1 :	Culvert Riser			
	Subelement #1-1 :	Circular Culvert			
	Length (ft)	90	Rise (in)	54	Flap gate False
	US Inv (ft)	7.4	DS Inv (ft)	7.4	Manning's n 0.013
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Subelement #1-2 :	*Rectangular Sharp Crested Weir*			
	Length (ft)	50	Height (ft)	99	Exponent 1.5
	Crest El (ft)	12	Cd	3.3	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
CELL2_ST	CELL2	DC5800	0	1

	Element #1 :	Gate			
	Open H 6.9x 16	Blade Height (ft)	7.5	Number	2
	Sharp Crested Sill Elevation (ft)		7.5		
	Sharp Crested Overflow Elevation (ft)		20		
	Weirflow Cd 3.3	Orificeflow Cd	0.7	Overflow Cd	3
	Opening (ft) 6.9				

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Cell 4 Case 1 Network Data for PMS Run

Reach Element Data

	From Node	To Node	Initial Flow	# Elements
SUMP1	SUMP	CELL1	0	1

Element #1 : Pump
Variable Discharge

Time (hrs)	Discharge (cfs)
0	143.2
1000	143.2

	From Node	To Node	Initial Flow	# Elements
SUMP2	SUMP	CELL2	0	1

Element #1 : Pump
Variable Discharge

Time (hrs)	Discharge (cfs)
0	616.7
1000	616.7

	From Node	To Node	Initial Flow	# Elements
SUMP4	SUMP	CELL4	0	1

Element #1 : Gate
3.9375x 7.2708 Blade Height (3.9375 Number 4
Sharp Crested Sill Elevation (ft) -2
Sharp Crested Overflow Elevation (ft) 20
Weirflow Cd 3.3 Orificeflow Cd 0.6 Overflow Cd 3.3
Opening 3.9375

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Cell 4 Case 1 Network Data for PMS Run

Section Element Data

1 Irregular Section w/ Variable Roughness

Sta	0	1	25.5	63	137
Elev	18	11	11	-4	-4
n	0.2	0.2	0.044	0.044	0.044
Sta	174.5	200	201		
Elev	11	11	18		
n	0.044	0.2	0.2		

2 Irregular Section w/ Variable Roughness

Sta	0	1	27.5	65	135
Elev	18	11	11	-4	-4
n	0.2	0.2	0.044	0.044	0.044
Sta	172.5	200	201		
Elev	11	11	18		
n	0.044	0.2	0.2		

3 Irregular Section w/ Variable Roughness

Sta	0	1	27.5	65	135
Elev	18	11	11	-4	-4
n	0.2	0.2	0.044	0.044	0.044
Sta	172.5	200	201		
Elev	11	11	18		
n	0.044	0.2	0.2		

4 Irregular Section w/ Variable Roughness

Sta	0	1	29.5	67	133
Elev	18	11	11	-4	-4
n	0.2	0.2	0.044	0.044	0.044
Sta	170.5	200	201		
Elev	11	11	18		
n	0.044	0.2	0.2		

11 Irregular Section w/ Variable Roughness

Sta	0	1	29.5	67	133
Elev	18	11	11	-4	-4
n	0.2	0.2	0.044	0.044	0.044

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Cell 4 Case 1 Network Data for PMS Run

Section Element Data

Sta	170.5	200	201
Elev	11	11	18
n	0.044	0.2	0.2

12 Irregular Section w/ Variable Roughness

Sta	0	1	31.5	69	131
Elev	18	11	11	-4	-4
n	0.2	0.2	0.044	0.044	0.044

Sta	168.5	200	201
Elev	11	11	18
n	0.044	0.2	0.2

5 Irregular Section w/ Variable Roughness

Sta	0	1	31.5	69	131
Elev	18	11	11	-4	-4
n	0.2	0.2	0.044	0.044	0.044

Sta	168.5	200	201
Elev	11	11	18
n	0.044	0.2	0.2

6 Irregular Section w/ Variable Roughness

Sta	0	1	31.5	69	131
Elev	18	11	11	-4	-4
n	0.2	0.2	0.044	0.044	0.044

Sta	168.5	200	201
Elev	11	11	18
n	0.044	0.2	0.2

7 Irregular Section w/ Variable Roughness

Sta	0	1	33.5	71	129
Elev	18	11	11	-4	-4
n	0.2	0.2	0.044	0.044	0.044

Sta	166.5	200	201
Elev	11	11	18
n	0.044	0.2	0.2

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Cell 4 Case 1 Network Data for PMS Run

Section Element Data

8 Irregular Section w/ Variable Roughness

Sta	0	1	33.5	71	129
Elev	18	11	11	-4	-4
n	0.2	0.2	0.044	0.044	0.044

Sta	166.5	200	201
Elev	11	11	18
n	0.044	0.2	0.2

9 Irregular Section w/ Variable Roughness

Sta	0	1	35.5	73	127
Elev	18	11	11	-4	-4
n	0.2	0.2	0.044	0.044	0.044

Sta	164.5	200	201
Elev	11	11	18
n	0.044	0.2	0.2

10 Irregular Section w/ Variable Roughness

Sta	0	1	35.5	73	127
Elev	18	11	11	-4	-4
n	0.2	0.2	0.044	0.044	0.044

Sta	164.5	200	201
Elev	11	11	18
n	0.044	0.2	0.2

13 Irregular Section w/ Variable Roughness

Sta	0	1	37.5	75	125
Elev	18	11	11	-4	-4
n	0.2	0.2	0.044	0.044	0.044

Sta	162.5	200	201
Elev	11	11	18
n	0.044	0.2	0.2

14 Irregular Section w/ Variable Roughness

Sta	1	22	52.5	90	110
Elev	18	11	11	-4	-4

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Cell 4 Case 1 Network Data for PMS Run

Section Element Data

n	0.2	0.2	0.044	0.044	0.044

Sta	147.5	170	191
Elev	11	11	18
n	0.044	0.2	0.2

15 Irregular Section w/ Variable Roughness

Sta	1	22	52.5	90	110
Elev	18	11	11	-4	-4
n	0.2	0.2	0.044	0.044	0.044

Sta	147.5	170	191
Elev	11	11	18
n	0.044	0.2	0.2

DC4_1300 Irregular Section w/ Variable Roughness

Sta	0	14.4	31.9	43.2	67.9
Elev	20.3	20.1	14.8	11.1	10.3
n	0.2	0.2	0.2	0.2	0.044

Sta	96.4	115.4	140.9	146.9	158.9
Elev	-5.35	-5.35	7.4	9.4	9.4
n	0.044	0.044	0.044	0.044	0.2

Sta	227.9	241.9
Elev	20.9	20.9
n	0.2	0.2

DC4_2500 Irregular Section w/ Variable Roughness

Sta	0	16.6	37.1	43.1	74.8
Elev	19.9	19.7	13.2	11.7	8.1
n	0.2	0.2	0.2	0.044	0.044

Sta	80.4	94.2	113.2	138.7	144.7
Elev	7.8	-4.6	-4.6	8.2	10.2
n	0.044	0.044	0.044	0.044	0.044

Sta	156.7	191.2	205.2
Elev	10.2	21.7	21.7
n	0.2	0.2	0.2

DC4_3300 Irregular Section w/ Variable Roughness

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Cell 4 Case 1 Network Data for PMS Run

Section Element Data

Sta	0	17.8	46.7	51.2	75.8
Elev	19.6	19.5	11.9	11.2	10.3
n	0.2	0.2	0.2	0.044	0.044
Sta	78.7	90.1	98.4	117.4	142.9
Elev	7.2	0.4	-3.2	-3.2	9.6
n	0.044	0.044	0.044	0.044	0.044
Sta	148.9	160.9	195.4	209.4	
Elev	11.6	11.6	23.1	23.1	
n	0.044	0.2	0.2	0.2	

DC4_4300 Irregular Section w/ Variable Roughness

Sta	0	17.6	48.1	65.3	69.6
Elev	20.7	20.5	11.1	9.6	7.4
n	0.2	0.2	0.044	0.044	0.044
Sta	73	79.7	87.3	100.3	119.3
Elev	4.6	-0.8	-2.9	-3.2	-3.2
n	0.044	0.044	0.044	0.044	0.044
Sta	144.8	150.8	162.8	197.3	211.3
Elev	9.6	11.6	11.6	23.1	23.1
n	0.044	0.044	0.2	0.2	0.2

DC_5300 Irregular Section w/ Variable Roughness

Sta	0	12.8	21.3	53.6	61.9
Elev	20.5	20.9	20.4	10.4	9.4
n	0.2	0.2	0.2	0.044	0.044
Sta	65.2	69.1	84.2	89	97.9
Elev	7.7	4.6	-0.6	-1.4	-4.25
n	0.044	0.044	0.044	0.044	0.044
Sta	116.9	142.4	148.4	160.4	194.9
Elev	-4.25	8.5	10.5	10.5	22
n	0.044	0.044	0.044	0.2	0.2
Sta	208.9				
Elev	22				
n	0.2				

DC_6300 Irregular Section w/ Variable Roughness

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Cell 4 Case 1 Network Data for PMS Run

Section Element Data

Sta	0	20	41.7	51.2	64.7
Elev	19.8	19.7	12.3	11.2	9.1
n	0.2	0.2	0.2	0.2	0.044
Sta	67.1	73.6	79	89	101.4
Elev	7.2	3.7	0.8	-4.4	-4.25
n	0.044	0.044	0.044	0.044	0.044
Sta	120.4	145.9	151.9	163.9	198.4
Elev	-4.25	8.5	10.5	10.5	22
n	0.044	0.044	0.2	0.2	0.2
Sta	212.4				
Elev	22				
n	0.2				

DC_7300 Irregular Section w/ Variable Roughness

Sta	0	14.5	49.1	57.8	63.7
Elev	20.2	19.9	10.1	9.9	7.2
n	0.2	0.2	0.2	0.044	0.044
Sta	79.3	95.1	114.1	139.6	145.6
Elev	1	-4.1	-4.1	8.7	10.7
n	0.044	0.044	0.044	0.044	0.2
Sta	157.6	192.1	206.1		
Elev	10.7	22.2	22.2		
n	0.2	0.2	0.2		

DC4_8200 Irregular Section w/ Variable Roughness

Sta	0	4.2	21.7	35.6	46.9
Elev	19.4	19.2	18.9	15.7	12.3
n	0.2	0.2	0.2	0.2	0.044
Sta	64.2	68.9	74.8	81.8	88.4
Elev	9.5	7.4	4	1.4	-1.5
n	0.044	0.044	0.044	0.044	0.044
Sta	107.5	126.5	152	158	170
Elev	-3.9	-3.9	8.9	10.9	10.9
n	0.044	0.044	0.044	0.2	0.2
Sta	204.5	218.5			
Elev	22.4	22.4			
n	0.2	0.2			

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Cell 4 Case 1 Network Data for PMS Run

Section Element Data

DC4_8438 Irregular Section w/ Variable Roughness

Sta	0	0	68	73	90
Elev	20	8.5	8.5	6.5	-2.5
n	0.2	0.2	0.044	0.044	0.044
Sta	188.5	203.5	210.5	222.5	257.5
Elev	-2.5	6.5	8.5	8.5	20
n	0.044	0.044	0.2	0.2	0.2
Sta	271.5				
Elev	20				
n	0.2				

DC4_8590 Irregular Section w/ Variable Roughness

Sta	-6.1	24.95	28.4	68	73
Elev	20	9.65	8.5	8.5	6.5
n	0.2	0.2	0.2	0.044	0.044
Sta	90	188.5	203.5	210.5	222.5
Elev	-2.5	-2.5	6.5	8.5	8.5
n	0.044	0.044	0.044	0.2	0.2
Sta	225.95	257.5	271.5		
Elev	9.65	20	20		
n	0.2	0.2	0.2		

DC4_300 Irregular Section w/ Variable Roughness

Sta	0	13.5	39	48	58.6
Elev	18.41	17.9	10.1	9.4	9
n	0.2	0.2	0.2	0.044	0.044
Sta	70.6	89.5	108.5	134	140
Elev	7.2	-5.3	-5.3	7.4	9.4
n	0.044	0.044	0.044	0.044	0.2
Sta	152	186.5	230		
Elev	9.4	20	20		
n	0.2	0.2	0.2		

12X12BOX Irregular Section w/ Constant Roughness, Manning's n = 0.013

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Cell 4 Case 1 Network Data for PMS Run

Section Element Data

	Sta	-6	-6	6	6	0.1
	Elev	6	-6	-6	6	6
	Sta	0.1	0	0	-6	
	Elev	20	20	6	6	
8X8BOX	Irregular Section w/ Constant Roughness, Manning's n = 0.013					
	Sta	-4	-4	4	4	0.1
	Elev	4	-4	-4	4	4
	Sta	0.1	0	0	-4	
	Elev	20	20	4	4	

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Cell 4 Case 1 Network Data for PMS Run

Source Element Data

	Source Flow
SUMP	1398.9

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CASE 1 OUTPUTS MAX FLOWS

Case 1 - Constrained Inflows - Cell 4 Probable Maximum Storm Simulation
Maximum Discharges Report

Reach ID	Time of Max Flow hours	Maximum Flow cfs	Time of Max Vel. hours	Maximum Velocity fps
G_335	0.00	3278.80	0.00	0.00
DC950	16.00	3283.53	0.51	3.62
DC1575	16.11	3187.78	0.52	2.22
DC1825	43.82	3095.46	0.52	2.13
DC2200	43.82	3095.44	0.53	2.21
DC2700	43.82	3005.31	0.53	2.13
DC2825	43.81	3005.28	0.54	2.21
DC3450	43.81	2916.37	0.54	2.12
DC3575	43.81	2828.70	0.55	2.04
DC4075	43.80	2828.67	0.55	2.12
DC4450	43.80	2742.22	0.55	2.03
DC4700	43.79	2742.19	0.56	2.11
DC5325	43.79	2657.71	0.56	2.02
DC5800	43.79	2574.05	0.57	2.03
DC4_300	0.66	1020.40	0.59	1.42
DC4_1300	0.66	1018.21	0.61	1.26
DC4_2500	0.66	1016.53	0.61	1.38
DC4_3300	0.65	1015.14	0.62	1.44
DC4_4300	0.65	1014.04	0.63	1.23
DC4_5300	0.65	1012.46	0.52	1.25
DC4_6300	0.08	1011.64	0.08	1.09
DC4_7300	0.06	1011.69	0.06	1.18
DC4_8200	0.04	1012.05	0.04	1.06
DC4_8438	0.01	1028.11	0.01	0.51
CELL4_ST	0.00	1016.49	0.00	3.94
G330A	12.16	123.45	6.84	9.60
G330B	10.02	121.82	6.13	9.52
G330C	9.97	121.17	5.51	9.47
G330D	9.89	119.98	4.42	9.40
G330E	9.80	118.68	3.33	9.30
G330F	9.58	117.06	2.25	9.20
G330H	9.54	115.03	0.00	8.96
G330G	9.59	115.79	1.15	9.08
CELL2_ST	18.43	1966.34	18.43	8.91
SUMP1	0.00	143.20	0.00	0.00
SUMP2	0.00	616.70	0.00	0.00
SUMP4	0.00	1010.78	0.00	8.83

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CASE 1 OUTPUTS MAX STAGE

Case 1 - Constrained Inflows - Cell 4 Probable Maximum Storm Simulation
Maximum Stages Report

Node ID	Time of Max Stage hours	Maximum Stage feet	Flood Elevation feet	Flood Depth feet
DC950	24.01	14.57	20.00	-5.43
G_335	24.01	14.42	20.00	-5.58
DC1575	24.02	14.60	20.00	-5.40
DC1825	24.01	14.61	20.00	-5.39
DC2200	24.01	14.61	20.00	-5.39
DC2700	24.01	14.64	20.00	-5.36
DC2825	24.01	14.64	20.00	-5.36
DC3450	24.01	14.67	20.00	-5.33
DC3575	24.01	14.68	20.00	-5.32
DC4075	24.01	14.70	20.00	-5.30
DC4450	24.01	14.72	20.00	-5.28
DC4700	24.01	14.73	20.00	-5.27
DC5325	24.01	14.75	20.00	-5.25
DC5800	24.01	14.77	20.00	-5.23
DC4_300	24.00	14.78	20.00	-5.22
DC4_1300	24.00	14.79	20.00	-5.21
DC4_2500	24.00	14.80	20.00	-5.20
DC4_3300	24.01	14.81	20.00	-5.19
DC4_4300	24.00	14.81	20.00	-5.19
DC4_5300	24.00	14.82	20.00	-5.18
DC4_6300	24.01	14.83	20.00	-5.17
DC4_7300	24.00	14.84	20.00	-5.16
DC4_8200	24.00	14.84	20.00	-5.16
DC4_8438	24.00	14.84	20.00	-5.16
CELL4	24.08	15.05	20.00	-4.95
TW	0.00	5.00	21.00	-16.00
CELL1	24.01	15.86	20.00	-4.14
CELL2	24.01	16.96	20.00	-3.04
SUMP	24.01	16.39	20.00	-3.61

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CASE 2 NETWORK INPUT DATA

Cell 4 Case 2 Network Data for PMS Run

Model Network Summary Information

95 Elements comprise the model network

No basins in this network.

29 Nodes

- 4 Lake nodes
- 24 Channel nodes
- 1 Tailwater nodes

37 Reaches

- 23 Unsteady Open Channels
- 8 Culverts
- 1 Bridges
- 11 Weirs
- 2 Gates
- 1 Pumps

28 Sections

1 Sources

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Cell 4 Case 2 Network Data for PMS Run

Basin Topology

No basin elements in this network

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Cell 4 Case 2 Network Data for PMS Run

Network Topology

Reach ID	Type	From Node	Type	To Node	Type
G_335	Pump	G_335	Channel	TW	Tailwater
DC950	Channel	DC950	Channel	G_335	Channel
DC1575	Channel	DC1575	Channel	DC950	Channel
DC1825	Channel	DC1825	Channel	DC1575	Channel
DC2200	Channel	DC2200	Channel	DC1825	Channel
DC2700	Channel	DC2700	Channel	DC2200	Channel
DC2825	Channel	DC2825	Channel	DC2700	Channel
DC3450	Channel	DC3450	Channel	DC2825	Channel
DC3575	Channel	DC3575	Channel	DC3450	Channel
DC4075	Channel	DC4075	Channel	DC3575	Channel
DC4450	Channel	DC4450	Channel	DC4075	Channel
DC4700	Channel	DC4700	Channel	DC4450	Channel
DC5325	Channel	DC5325	Channel	DC4700	Channel
DC5800	Channel	DC5800	Channel	DC5325	Channel
DC4_300	Channel	DC4_300	Channel	DC5800	Channel
DC4_1300	Channel	DC4_1300	Channel	DC4_300	Channel
DC4_2500	Channel	DC4_2500	Channel	DC4_1300	Channel
DC4_3300	Channel	DC4_3300	Channel	DC4_2500	Channel
DC4_4300	Channel	DC4_4300	Channel	DC4_3300	Channel
DC4_5300	Channel	DC4_5300	Channel	DC4_4300	Channel
DC4_6300	Channel	DC4_6300	Channel	DC4_5300	Channel
DC4_7300	Channel	DC4_7300	Channel	DC4_6300	Channel
DC4_8200	Channel	DC4_8200	Channel	DC4_7300	Channel
DC4_8438	Channel	DC4_8438	Channel	DC4_8200	Channel
CELL4_ST	Bridge w/	CELL4	Lake	DC4_8438	Channel
G330A	Riser	CELL1	Lake	DC950	Channel
G330B	Riser	CELL1	Lake	DC1575	Channel
G330C	Riser	CELL1	Lake	DC2200	Channel
G330D	Riser	CELL1	Lake	DC2825	Channel
G330E	Riser	CELL1	Lake	DC3450	Channel
G330F	Riser	CELL1	Lake	DC4075	Channel
G330H	Riser	CELL1	Lake	DC5325	Channel
G330G	Riser	CELL1	Lake	DC4700	Channel
CELL2_ST	Gate	CELL2	Lake	DC5800	Channel
SUMP1	Weir	SUMP	Lake	CELL1	Lake
SUMP2	Weir	SUMP	Lake	CELL2	Lake
SUMP4	Gate	SUMP	Lake	CELL4	Lake

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Cell 4 Case 2 Network Data for PMS Run

Basin Element Data

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Cell 4 Case 2 Network Data for PMS Run

Node Element Data

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC950	Channel	-4	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
G_335	Channel	-4	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC1575	Channel	-4	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC1825	Channel	-4	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC2200	Channel	-4	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC2700	Channel	-4	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC2825	Channel	-4	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC3450	Channel	-4	8.9	20

No area relation associated with this node

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Cell 4 Case 2 Network Data for PMS Run

Node Element Data

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC3575	Channel	-4	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC4075	Channel	-4	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC4450	Channel	-4	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC4700	Channel	-4	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC5325	Channel	-4	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC5800	Channel	-4	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC4_300	Channel	-5.3	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC4_1300	Channel	-5.35	8.9	20

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Cell 4 Case 2 Network Data for PMS Run

Node Element Data

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC4_2500	Channel	-4.6	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC4_3300	Channel	-3.2	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC4_4300	Channel	-3.2	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC4_5300	Channel	-4.25	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC4_6300	Channel	-4.4	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC4_7300	Channel	-4.1	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC4_8200	Channel	-3.9	8.9	20

No area relation associated with this node

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Cell 4 Case 2 Network Data for PMS Run

Node Element Data

	Node Type	Bottom Elev	Initial Elev	Flood Elev
DC4_8438	Channel	-2.5	8.9	20

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
CELL4	Lake	-10	10.95	20

Elev	-10	20
Area	1924	1950

	Node Type	Bottom Elev	Initial Elev	Flood Elev
TW	Tailwater	0	5	21

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
CELL1	Lake	11	12.75	20

Elev	11	20
Area	1783	1783

	Node Type	Bottom Elev	Initial Elev	Flood Elev
CELL2	Lake	6	13.93	20

Elev	6	20
Area	2382	2382

	Node Type	Bottom Elev	Initial Elev	Flood Elev
SUMP	Lake	-2	17.3	20

Elev	-2	20
Area	0.58	0.58

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Cell 4 Case 2 Network Data for PMS Run

Reach Element Data

	From Node	To Node	Initial Flow	# Elements
G_335	G_335	TW	0	1

Element #1 : Pump
Variable Discharge
Reference Node G_335

Elev (ft)	Discharge (cfs)
-4	0
8.89	0
8.9	3278.8
20	3278.8

	From Node	To Node	Initial Flow	# Elements
DC950	DC950	G_335	0	1

Element #1 : Unsteady Open Channel Section 1
Length (ft) 250 Velocity Coef 1

	From Node	To Node	Initial Flow	# Elements
DC1575	DC1575	DC950	0	1

Element #1 : Unsteady Open Channel Section 2
Length (ft) 625 Velocity Coef 1

	From Node	To Node	Initial Flow	# Elements
DC1825	DC1825	DC1575	0	1

Element #1 : Unsteady Open Channel Section 3
Length (ft) 250 Velocity Coef 1

	From Node	To Node	Initial Flow	# Elements
DC2200	DC2200	DC1825	0	1

Element #1 : Unsteady Open Channel Section 4
Length (ft) 90 Velocity Coef 1

	From Node	To Node	Initial Flow	# Elements
DC2700	DC2700	DC2200	0	1

Element #1 : Unsteady Open Channel Section 11
Length (ft) 500 Velocity Coef 1

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Cell 4 Case 2 Network Data for PMS Run

Reach Element Data

	From Node	To Node	Initial Flow	# Elements
DC2825	DC2825	DC2700	0	1

Element #1 : Unsteady Open Channel Section 12
Length (ft) 125 Velocity Coef 1

	From Node	To Node	Initial Flow	# Elements
DC3450	DC3450	DC2825	0	1

Element #1 : Unsteady Open Channel Section 5
Length (ft) 625 Velocity Coef 1

	From Node	To Node	Initial Flow	# Elements
DC3575	DC3575	DC3450	0	1

Element #1 : Unsteady Open Channel Section 6
Length (ft) 125 Velocity Coef 1

	From Node	To Node	Initial Flow	# Elements
DC4075	DC4075	DC3575	0	1

Element #1 : Unsteady Open Channel Section 7
Length (ft) 500 Velocity Coef 1

	From Node	To Node	Initial Flow	# Elements
DC4450	DC4450	DC4075	0	1

Element #1 : Unsteady Open Channel Section 8
Length (ft) 375 Velocity Coef 1

	From Node	To Node	Initial Flow	# Elements
DC4700	DC4700	DC4450	0	1

Element #1 : Unsteady Open Channel Section 9
Length (ft) 250 Velocity Coef 1

	From Node	To Node	Initial Flow	# Elements
DC5325	DC5325	DC4700	0	1

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Cell 4 Case 2 Network Data for PMS Run

Reach Element Data

	Element #1 :	Unsteady Open Channel	Section	10
	Length (ft) 400	Velocity Coef	1	
	From Node	To Node	Initial Flow	# Elements
DC5800	DC5800	DC5325	0	1
	Element #1 :	Unsteady Open Channel	Section	13
	Length (ft) 475	Velocity Coef	1	
	From Node	To Node	Initial Flow	# Elements
DC4_300	DC4_300	DC5800	0	1
	Element #1 :	Unsteady Open Channel	Section	DC4_300
	Length (ft) 1320	Velocity Coef	1	
	From Node	To Node	Initial Flow	# Elements
DC4_1300	DC4_1300	DC4_300	0	1
	Element #1 :	Unsteady Open Channel	Section	DC4_1300
	Length (ft) 1000	Velocity Coef	1	
	From Node	To Node	Initial Flow	# Elements
DC4_2500	DC4_2500	DC4_1300	0	1
	Element #1 :	Unsteady Open Channel	Section	DC4_2500
	Length (ft) 800	Velocity Coef	1	
	From Node	To Node	Initial Flow	# Elements
DC4_3300	DC4_3300	DC4_2500	0	1
	Element #1 :	Unsteady Open Channel	Section	DC4_3300
	Length (ft) 800	Velocity Coef	1	
	From Node	To Node	Initial Flow	# Elements
DC4_4300	DC4_4300	DC4_3300	0	1
	Element #1 :	Unsteady Open Channel	Section	DC4_4300
	Length (ft) 1000	Velocity Coef	1	

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Cell 4 Case 2 Network Data for PMS Run

Reach Element Data

	From Node	To Node	Initial Flow	# Elements
DC4_5300	DC4_5300	DC4_4300	0	1

Element #1 : Unsteady Open Channel Section DC_5300
Length (ft) 1000 Velocity Coef 1

	From Node	To Node	Initial Flow	# Elements
DC4_6300	DC4_6300	DC4_5300	0	1

Element #1 : Unsteady Open Channel Section DC_6300
Length (ft) 1000 Velocity Coef 1

	From Node	To Node	Initial Flow	# Elements
DC4_7300	DC4_7300	DC4_6300	0	1

Element #1 : Unsteady Open Channel Section DC_7300
Length (ft) 1000 Velocity Coef 1

	From Node	To Node	Initial Flow	# Elements
DC4_8200	DC4_8200	DC4_7300	0	1

Element #1 : Unsteady Open Channel Section DC4_8200
Length (ft) 900 Velocity Coef 1

	From Node	To Node	Initial Flow	# Elements
DC4_8438	DC4_8438	DC4_8200	0	1

Element #1 : Unsteady Open Channel Section DC4_8438
Length (ft)238.5 Velocity Coef 1

	From Node	To Node	Initial Flow	# Elements
CELL4_ST	CELL4	DC4_8438	0	1

Element #1 : Bridge with Upstream Structure

Subelement #1-1 : Bridge Section 8X8BOX
Length (ft) 123 US Inv (ft) -2.5 DS Inv (ft) -2.5
Velocity Coef 1 Ent Loss Coef 0.5 Number Barrels 4

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Cell 4 Case 2 Network Data for PMS Run

Reach Element Data

	Subelement #1-2 :	*Rectangular Sharp Crested Weir*			
	Length (ft)	51.25	Height (ft)	99	Exponent 1.5
	Crest El (ft)	9.65	Cd	3.33	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
G330A	CELL1	DC950	0	1

	Element #1 :	Culvert Riser			
	Subelement #1-1 :	Circular Culvert			
	Length (ft)	90	Rise (in)	54	Flap gate False
	US Inv (ft)	7.4	DS Inv (ft)	7.4	Manning's n 0.013
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Subelement #1-2 :	*Rectangular Sharp Crested Weir*			
	Length (ft)	50	Height (ft)	99	Exponent 1.5
	Crest El (ft)	12	Cd	3.3	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
G330B	CELL1	DC1575	0	1

	Element #1 :	Culvert Riser			
	Subelement #1-1 :	Circular Culvert			
	Length (ft)	90	Rise (in)	54	Flap gate False
	US Inv (ft)	7.4	DS Inv (ft)	7.4	Manning's n 0.013
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Subelement #1-2 :	*Rectangular Sharp Crested Weir*			
	Length (ft)	50	Height (ft)	99	Exponent 1.5
	Crest El (ft)	12	Cd	3.3	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
G330C	CELL1	DC2200	0	1

	Element #1 :	Culvert Riser			
	Subelement #1-1 :	Circular Culvert			
	Length (ft)	90	Rise (in)	54	Flap gate False
	US Inv (ft)	7.4	DS Inv (ft)	7.4	Manning's n 0.013
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1

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Cell 4 Case 2 Network Data for PMS Run

Reach Element Data

	Subelement #1-2 :	*Rectangular Sharp Crested Weir*			
	Length (ft)	50	Height (ft)	99	Exponent 1.5
	Crest El (ft)	12	Cd	3.3	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
G330D	CELL1	DC2825	0	1

	Element #1 :	Culvert Riser			
	Subelement #1-1 :	Circular Culvert			
	Length (ft)	90	Rise (in)	54	Flap gate False
	US Inv (ft)	7.4	DS Inv (ft)	7.4	Manning's n 0.013
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Subelement #1-2 :	*Rectangular Sharp Crested Weir*			
	Length (ft)	50	Height (ft)	99	Exponent 1.5
	Crest El (ft)	12	Cd	3.3	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
G330E	CELL1	DC3450	0	1

	Element #1 :	Culvert Riser			
	Subelement #1-1 :	Circular Culvert			
	Length (ft)	90	Rise (in)	54	Flap gate False
	US Inv (ft)	7.4	DS Inv (ft)	7.4	Manning's n 0.013
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Subelement #1-2 :	*Rectangular Sharp Crested Weir*			
	Length (ft)	50	Height (ft)	99	Exponent 1.5
	Crest El (ft)	12	Cd	3.3	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
G330F	CELL1	DC4075	0	1

	Element #1 :	Culvert Riser			
	Subelement #1-1 :	Circular Culvert			
	Length (ft)	90	Rise (in)	54	Flap gate False
	US Inv (ft)	7.4	DS Inv (ft)	7.4	Manning's n 0.013
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1

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Cell 4 Case 2 Network Data for PMS Run

Reach Element Data

	Subelement #1-2 :	*Rectangular Sharp Crested Weir*			
	Length (ft)	50	Height (ft)	99	Exponent 1.5
	Crest El (ft)	12	Cd	3.3	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
G330H	CELL1	DC5325	0	1

	Element #1 :	Culvert Riser			
	Subelement #1-1 :	Circular Culvert			
	Length (ft)	90	Rise (in)	54	Flap gate False
	US Inv (ft)	7.4	DS Inv (ft)	7.4	Manning's n 0.013
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Subelement #1-2 :	*Rectangular Sharp Crested Weir*			
	Length (ft)	50	Height (ft)	99	Exponent 1.5
	Crest El (ft)	12	Cd	3.3	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
G330G	CELL1	DC4700	0	1

	Element #1 :	Culvert Riser			
	Subelement #1-1 :	Circular Culvert			
	Length (ft)	90	Rise (in)	54	Flap gate False
	US Inv (ft)	7.4	DS Inv (ft)	7.4	Manning's n 0.013
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Subelement #1-2 :	*Rectangular Sharp Crested Weir*			
	Length (ft)	50	Height (ft)	99	Exponent 1.5
	Crest El (ft)	12	Cd	3.3	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
CELL2_ST	CELL2	DC5800	0	1

	Element #1 :	Gate			
	Open H 6.9x 16	Blade Height (ft)	7.5	Number	2
	Sharp Crested Sill Elevation (ft)		7.5		
	Sharp Crested Overflow Elevation (ft)		20		
	Weirflow Cd 3.3	Orificeflow Cd	0.7	Overflow Cd	3
	Opening (ft) 6.9				

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Cell 4 Case 2 Network Data for PMS Run

Reach Element Data

	From Node	To Node	Initial Flow	# Elements
SUMP1	SUMP	CELL1	0	1

Element #1 :		Rectangular Sharp Crested Weir			
Length (ft)	265	Height (ft)	99	Exponent	1.5
Crest El (ft)	14	Cd	3.3	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
SUMP2	SUMP	CELL2	0	1

Element #1 :		Rectangular Sharp Crested Weir			
Length (ft)	500	Height (ft)	99	Exponent	1.5
Crest El (ft)	14	Cd	3.3	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
SUMP4	SUMP	CELL4	0	1

Element #1 :		Gate			
3.9375x 7.2708		Blade Height (3.9375		Number	4
Sharp Crested Sill Elevation (ft)			-2		
Sharp Crested Overflow Elevation (ft)			20		
Weirflow Cd 3.3		Orificeflow Cd	0.6	Overflow Cd	3.3
Opening 3.9375					

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Cell 4 Case 2 Network Data for PMS Run

Section Element Data

1 Irregular Section w/ Variable Roughness

Sta	0	1	25.5	63	137
Elev	18	11	11	-4	-4
n	0.2	0.2	0.044	0.044	0.044
Sta	174.5	200	201		
Elev	11	11	18		
n	0.044	0.2	0.2		

2 Irregular Section w/ Variable Roughness

Sta	0	1	27.5	65	135
Elev	18	11	11	-4	-4
n	0.2	0.2	0.044	0.044	0.044
Sta	172.5	200	201		
Elev	11	11	18		
n	0.044	0.2	0.2		

3 Irregular Section w/ Variable Roughness

Sta	0	1	27.5	65	135
Elev	18	11	11	-4	-4
n	0.2	0.2	0.044	0.044	0.044
Sta	172.5	200	201		
Elev	11	11	18		
n	0.044	0.2	0.2		

4 Irregular Section w/ Variable Roughness

Sta	0	1	29.5	67	133
Elev	18	11	11	-4	-4
n	0.2	0.2	0.044	0.044	0.044
Sta	170.5	200	201		
Elev	11	11	18		
n	0.044	0.2	0.2		

11 Irregular Section w/ Variable Roughness

Sta	0	1	29.5	67	133
Elev	18	11	11	-4	-4
n	0.2	0.2	0.044	0.044	0.044

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Cell 4 Case 2 Network Data for PMS Run

Section Element Data

Sta	170.5	200	201
Elev	11	11	18
n	0.044	0.2	0.2

12 Irregular Section w/ Variable Roughness

Sta	0	1	31.5	69	131
Elev	18	11	11	-4	-4
n	0.2	0.2	0.044	0.044	0.044

Sta	168.5	200	201
Elev	11	11	18
n	0.044	0.2	0.2

5 Irregular Section w/ Variable Roughness

Sta	0	1	31.5	69	131
Elev	18	11	11	-4	-4
n	0.2	0.2	0.044	0.044	0.044

Sta	168.5	200	201
Elev	11	11	18
n	0.044	0.2	0.2

6 Irregular Section w/ Variable Roughness

Sta	0	1	31.5	69	131
Elev	18	11	11	-4	-4
n	0.2	0.2	0.044	0.044	0.044

Sta	168.5	200	201
Elev	11	11	18
n	0.044	0.2	0.2

7 Irregular Section w/ Variable Roughness

Sta	0	1	33.5	71	129
Elev	18	11	11	-4	-4
n	0.2	0.2	0.044	0.044	0.044

Sta	166.5	200	201
Elev	11	11	18
n	0.044	0.2	0.2

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Cell 4 Case 2 Network Data for PMS Run

Section Element Data

8 Irregular Section w/ Variable Roughness

Sta	0	1	33.5	71	129
Elev	18	11	11	-4	-4
n	0.2	0.2	0.044	0.044	0.044

Sta	166.5	200	201
Elev	11	11	18
n	0.044	0.2	0.2

9 Irregular Section w/ Variable Roughness

Sta	0	1	35.5	73	127
Elev	18	11	11	-4	-4
n	0.2	0.2	0.044	0.044	0.044

Sta	164.5	200	201
Elev	11	11	18
n	0.044	0.2	0.2

10 Irregular Section w/ Variable Roughness

Sta	0	1	35.5	73	127
Elev	18	11	11	-4	-4
n	0.2	0.2	0.044	0.044	0.044

Sta	164.5	200	201
Elev	11	11	18
n	0.044	0.2	0.2

13 Irregular Section w/ Variable Roughness

Sta	0	1	37.5	75	125
Elev	18	11	11	-4	-4
n	0.2	0.2	0.044	0.044	0.044

Sta	162.5	200	201
Elev	11	11	18
n	0.044	0.2	0.2

14 Irregular Section w/ Variable Roughness

Sta	1	22	52.5	90	110
Elev	18	11	11	-4	-4

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Cell 4 Case 2 Network Data for PMS Run

Section Element Data

n	0.2	0.2	0.044	0.044	0.044

Sta	147.5	170	191
Elev	11	11	18
n	0.044	0.2	0.2

15 Irregular Section w/ Variable Roughness

Sta	1	22	52.5	90	110
Elev	18	11	11	-4	-4
n	0.2	0.2	0.044	0.044	0.044

Sta	147.5	170	191
Elev	11	11	18
n	0.044	0.2	0.2

DC4_1300 Irregular Section w/ Variable Roughness

Sta	0	14.4	31.9	43.2	67.9
Elev	20.3	20.1	14.8	11.1	10.3
n	0.2	0.2	0.2	0.2	0.044

Sta	96.4	115.4	140.9	146.9	158.9
Elev	-5.35	-5.35	7.4	9.4	9.4
n	0.044	0.044	0.044	0.044	0.2

Sta	227.9	241.9
Elev	20.9	20.9
n	0.2	0.2

DC4_2500 Irregular Section w/ Variable Roughness

Sta	0	16.6	37.1	43.1	74.8
Elev	19.9	19.7	13.2	11.7	8.1
n	0.2	0.2	0.2	0.044	0.044

Sta	80.4	94.2	113.2	138.7	144.7
Elev	7.8	-4.6	-4.6	8.2	10.2
n	0.044	0.044	0.044	0.044	0.044

Sta	156.7	191.2	205.2
Elev	10.2	21.7	21.7
n	0.2	0.2	0.2

DC4_3300 Irregular Section w/ Variable Roughness

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Cell 4 Case 2 Network Data for PMS Run

Section Element Data

Sta	0	17.8	46.7	51.2	75.8
Elev	19.6	19.5	11.9	11.2	10.3
n	0.2	0.2	0.2	0.044	0.044
Sta	78.7	90.1	98.4	117.4	142.9
Elev	7.2	0.4	-3.2	-3.2	9.6
n	0.044	0.044	0.044	0.044	0.044
Sta	148.9	160.9	195.4	209.4	
Elev	11.6	11.6	23.1	23.1	
n	0.044	0.2	0.2	0.2	

DC4_4300 Irregular Section w/ Variable Roughness

Sta	0	17.6	48.1	65.3	69.6
Elev	20.7	20.5	11.1	9.6	7.4
n	0.2	0.2	0.044	0.044	0.044
Sta	73	79.7	87.3	100.3	119.3
Elev	4.6	-0.8	-2.9	-3.2	-3.2
n	0.044	0.044	0.044	0.044	0.044
Sta	144.8	150.8	162.8	197.3	211.3
Elev	9.6	11.6	11.6	23.1	23.1
n	0.044	0.044	0.2	0.2	0.2

DC_5300 Irregular Section w/ Variable Roughness

Sta	0	12.8	21.3	53.6	61.9
Elev	20.5	20.9	20.4	10.4	9.4
n	0.2	0.2	0.2	0.044	0.044
Sta	65.2	69.1	84.2	89	97.9
Elev	7.7	4.6	-0.6	-1.4	-4.25
n	0.044	0.044	0.044	0.044	0.044
Sta	116.9	142.4	148.4	160.4	194.9
Elev	-4.25	8.5	10.5	10.5	22
n	0.044	0.044	0.044	0.2	0.2
Sta	208.9				
Elev	22				
n	0.2				

DC_6300 Irregular Section w/ Variable Roughness

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Cell 4 Case 2 Network Data for PMS Run

Section Element Data

Sta	0	20	41.7	51.2	64.7
Elev	19.8	19.7	12.3	11.2	9.1
n	0.2	0.2	0.2	0.2	0.044
Sta	67.1	73.6	79	89	101.4
Elev	7.2	3.7	0.8	-4.4	-4.25
n	0.044	0.044	0.044	0.044	0.044
Sta	120.4	145.9	151.9	163.9	198.4
Elev	-4.25	8.5	10.5	10.5	22
n	0.044	0.044	0.2	0.2	0.2
Sta	212.4				
Elev	22				
n	0.2				

DC_7300 Irregular Section w/ Variable Roughness

Sta	0	14.5	49.1	57.8	63.7
Elev	20.2	19.9	10.1	9.9	7.2
n	0.2	0.2	0.2	0.044	0.044
Sta	79.3	95.1	114.1	139.6	145.6
Elev	1	-4.1	-4.1	8.7	10.7
n	0.044	0.044	0.044	0.044	0.2
Sta	157.6	192.1	206.1		
Elev	10.7	22.2	22.2		
n	0.2	0.2	0.2		

DC4_8200 Irregular Section w/ Variable Roughness

Sta	0	4.2	21.7	35.6	46.9
Elev	19.4	19.2	18.9	15.7	12.3
n	0.2	0.2	0.2	0.2	0.044
Sta	64.2	68.9	74.8	81.8	88.4
Elev	9.5	7.4	4	1.4	-1.5
n	0.044	0.044	0.044	0.044	0.044
Sta	107.5	126.5	152	158	170
Elev	-3.9	-3.9	8.9	10.9	10.9
n	0.044	0.044	0.044	0.2	0.2
Sta	204.5	218.5			
Elev	22.4	22.4			
n	0.2	0.2			

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Cell 4 Case 2 Network Data for PMS Run

Section Element Data

DC4_8438 Irregular Section w/ Variable Roughness

Sta	0	0	68	73	90
Elev	20	8.5	8.5	6.5	-2.5
n	0.2	0.2	0.044	0.044	0.044
Sta	188.5	203.5	210.5	222.5	257.5
Elev	-2.5	6.5	8.5	8.5	20
n	0.044	0.044	0.2	0.2	0.2
Sta	271.5				
Elev	20				
n	0.2				

DC4_8590 Irregular Section w/ Variable Roughness

Sta	-6.1	24.95	28.4	68	73
Elev	20	9.65	8.5	8.5	6.5
n	0.2	0.2	0.2	0.044	0.044
Sta	90	188.5	203.5	210.5	222.5
Elev	-2.5	-2.5	6.5	8.5	8.5
n	0.044	0.044	0.044	0.2	0.2
Sta	225.95	257.5	271.5		
Elev	9.65	20	20		
n	0.2	0.2	0.2		

DC4_300 Irregular Section w/ Variable Roughness

Sta	0	13.5	39	48	58.6
Elev	18.41	17.9	10.1	9.4	9
n	0.2	0.2	0.2	0.044	0.044
Sta	70.6	89.5	108.5	134	140
Elev	7.2	-5.3	-5.3	7.4	9.4
n	0.044	0.044	0.044	0.044	0.2
Sta	152	186.5	230		
Elev	9.4	20	20		
n	0.2	0.2	0.2		

12X12BOX Irregular Section w/ Constant Roughness, Manning's n = 0.013

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Cell 4 Case 2 Network Data for PMS Run

Section Element Data

Sta	-6	-6	6	6	0.1
Elev	6	-6	-6	6	6
Sta	0.1	0	0	-6	
Elev	20	20	6	6	

8X8BOX Irregular Section w/ Constant Roughness, Manning's n = 0.013

Sta	-4	-4	4	4	0.1
Elev	4	-4	-4	4	4
Sta	0.1	0	0	-4	
Elev	20	20	4	4	

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Cell 4 Case 2 Network Data for PMS Run

Source Element Data

	Source Flow
SUMP	1398.9

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CASE 2 OUTPUTS MAX FLOWS

Case 2 - Unconstrained Inflows - Cell 4 Probable Maximum Storm Simulation
Maximum Discharges Report

Reach ID	Time of Max Flow hours	Maximum Flow cfs	Time of Max Vel. hours	Maximum Velocity fps
G_335	0.00	3278.80	0.00	0.00
DC950	16.01	3283.55	0.48	3.62
DC1575	16.07	3183.98	0.49	2.21
DC1825	0.67	3084.52	0.50	2.13
DC2200	0.67	3084.29	0.50	2.21
DC2700	0.67	2987.46	0.50	2.13
DC2825	0.68	2986.91	0.51	2.21
DC3450	0.67	2890.12	0.52	2.12
DC3575	0.60	2792.16	0.52	2.04
DC4075	0.65	2792.42	0.52	2.12
DC4450	0.64	2694.82	0.53	2.03
DC4700	0.64	2694.46	0.53	2.11
DC5325	0.63	2597.23	0.53	2.02
DC5800	0.62	2499.75	0.54	2.02
DC4_300	72.00	1046.05	0.62	1.42
DC4_1300	72.00	1044.70	0.64	1.27
DC4_2500	72.00	1043.65	0.62	1.38
DC4_3300	72.00	1042.78	0.63	1.44
DC4_4300	72.00	1041.85	0.64	1.23
DC4_5300	72.00	1040.85	0.09	1.26
DC4_6300	72.00	1039.82	0.08	1.10
DC4_7300	72.00	1038.77	0.06	1.19
DC4_8200	72.00	1037.78	0.04	1.07
DC4_8438	0.01	1161.50	0.01	0.58
CELL4_ST	0.00	1057.56	0.00	4.10
G330A	11.86	124.39	6.70	9.60
G330B	24.31	122.72	5.89	9.52
G330C	24.58	122.12	5.30	9.48
G330D	23.57	121.08	4.25	9.40
G330E	24.19	120.15	3.23	9.30
G330F	24.18	119.37	2.20	9.20
G330H	24.16	118.17	0.00	8.96
G330G	24.17	118.62	1.13	9.08
CELL2_ST	18.22	1766.14	18.22	8.00
SUMP1	17.66	1926.19	16.30	5.29
SUMP2	0.00	1541.18	0.00	5.03
SUMP4	0.00	1004.60	0.00	8.77

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CASE 2 OUTPUTS MAX STAGE

Case 2 - Unconstrained Inflows - Cell 4 Probable Maximum Storm Simulation
Maximum Stages Report

Node ID	Time of Max Stage hours	Maximum Stage feet	Flood Elevation feet	Flood Depth feet
DC950	24.01	14.63	20.00	-5.37
G_335	24.01	14.48	20.00	-5.52
DC1575	24.02	14.66	20.00	-5.34
DC1825	24.01	14.67	20.00	-5.33
DC2200	24.01	14.67	20.00	-5.33
DC2700	24.01	14.70	20.00	-5.30
DC2825	24.01	14.70	20.00	-5.30
DC3450	24.01	14.73	20.00	-5.27
DC3575	24.01	14.74	20.00	-5.26
DC4075	24.01	14.76	20.00	-5.24
DC4450	24.01	14.77	20.00	-5.23
DC4700	24.01	14.78	20.00	-5.22
DC5325	24.01	14.80	20.00	-5.20
DC5800	24.01	14.82	20.00	-5.18
DC4_300	24.00	14.83	20.00	-5.17
DC4_1300	24.00	14.84	20.00	-5.16
DC4_2500	24.00	14.85	20.00	-5.15
DC4_3300	24.01	14.86	20.00	-5.14
DC4_4300	24.00	14.87	20.00	-5.13
DC4_5300	24.00	14.88	20.00	-5.12
DC4_6300	24.00	14.88	20.00	-5.12
DC4_7300	24.00	14.89	20.00	-5.11
DC4_8200	24.00	14.90	20.00	-5.10
DC4_8438	24.00	14.90	20.00	-5.10
CELL4	24.01	15.14	20.00	-4.86
TW	0.00	5.00	21.00	-16.00
CELL1	24.01	16.44	20.00	-3.56
CELL2	24.01	16.45	20.00	-3.55
SUMP	24.01	16.45	20.00	-3.55

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