Hypothetical Dam Breach Evaluations
Swift Creek Settling Area 10V

PCS Phosphate – White Springs
Hamilton County, Florida

June 26, 2013
File Number 13-10-0401

PCS Phosphate - White Springs
Post Office Box 300
White Springs, Florida 32096

Attention: Mr. Cameron Lynch

Subject: Hypothetical Dam Breach Evaluations for Swift Creek Settling Area 10V, Hamilton County, Florida

Gentlemen:

As requested and authorized by PCS Phosphate - White Springs, Ardaman & Associates, Inc. (Ardaman) submits these hypothetical dam breach evaluations for Swift Creek Settling Area 10V (SA No. 10V) in Hamilton County, Florida.

The enclosed engineering report documents our analyses, conclusions and recommendations. This document is for the exclusive use of PCS Phosphate for specific application to the above referenced project in accordance with generally accepted water resources engineering practice. No other warranty, expressed or implied, is made.

We appreciate the opportunity to assist PCS Phosphate with this contingency planning phase of the project. We trust that these evaluations meet your current planning needs. If you have any questions or need additional information or assistance, please contact the undersigned or Mr. Bill Jackson, P.E.

Very truly yours,
ARDAMAN & ASSOCIATES, INC.

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Introduction

Ardaman & Associates, Inc. (Ardaman) provides hypothetical dam-breach planning services pertaining to Swift Creek Settling Area 10V (SA No. 10V) at the PCS Phosphate – White Springs Swift Creek Phosphate Complex in Hamilton County, Florida. Chapter 62-672.550, F.A.C., pertaining to Earthen Dams Used in Phosphate Mining and Beneficiation Operations, states that the owner of a dam shall prepare contingency plans to be followed in the event of a dam failure. Each plan shall include mapping showing areas subject to downstream flooding and a notification of local and state officials. This report provides such a plan for SA No. 10V. The following tasks were performed for this project.

Existing historic hydraulics data for the study area were retrieved from Ardaman files. Floodplain delineations and hydraulic evaluations were performed in 1998 and 1999 for other Swift Creek settling areas.

Specifically, the following data were acquired from readily available sources: base maps, historic extent of flooding information, hydraulic information, road construction “as-builts” at selected locations, topographic data, GIS data files, latest watershed model used in mining pre-post analyses, and dam design data.

The 2012 topography was considered for our evaluations. The watersheds of interest include Swift Creek (primarily Swift Creek from headwaters to I-75), Camp Branch, Bell Creek to US Highway 129, and Rocky Creek.

Gaps in the database were identified and hydraulic reconnaissance survey was performed by Ardaman for missing hydraulic structure information and best judgment decisions were made on area storage and cross section data with available topography considering 2012 aerial photography.

A node-reach network for a hypothetical breach was prepared considering a breach along each of the four walls of the settling area. At each node, bottom elevation, starting water elevations, and stage-storage data were developed along the stream reach where possible flooding conditions from such a hypothetical dam breach probably would occur. Hydraulic structures such as weirs, culverts, and bridges were inputted into the model. Stream conditions were modeled as reaches.

Tentatively, four dam-breach scenarios were considered for the sunny day (no or low flows in creeks) modes of failure. This sunny day scenario pertains to a piping breach at the maximum height of the water in the settling area without significant deposits of clays covering the bottom. One scenario is west into the headwaters of Bell Creek. The second scenario is southwest into the Swift Creek Chemical Plant area and beyond possibly into the Camp Branch watershed west of US Highway 41. The third scenario is east toward the headwaters of Swift Creek, and the fourth scenario is north toward CR-6 into Bee Haven Bay and downstream into the Rocky Creek watershed. The west and southwest scenarios required development of completely new downstream stream networks while the east and north scenarios required additional network to tie into the Swift Creek network and into the new Rocky Creek network from the existing Swift Creek SA-8B north wall dam-break scenario (Scenario V from the 1998 Ardaman report stream network).

Each of the four model networks were tested to determine that the node-reach network responded hydraulically as expected.

A sudden breach is a rapid structural failure in which a portion of the embankment is removed in a relatively short period of time. There are several causes of dam failure depending on the type of dam and its characteristics. Overtopping, sliding, piping, internal seepage, overturning, overstressing, cracking, bearing capacity, maintenance and rapid drawdown are typical causes.

This sunny day scenario pertains to a piping breach at the maximum height of the water in the settling area without significant deposits of clays covering the bottom. The simplified dam failure assumptions such as dam-breach opening and time for failure plus water storage removed from the settling area were input parameters developed in each model. The four evaluations were run to determine maximum flood levels and maximum discharges along downstream impacted areas. Minor model refinements were made and the models rerun until each final run was complete and the extent of flooding areas identified. In addition, times for flood peaks to reach downstream impacted areas were also determined.

Planning Considerations

The approach to mapping downstream extent of flooding areas from a hypothetical dam breach of settling area dams can be accomplished to varying degrees of detail and accuracy. The important thing to recognize is that the contingency plan should be based on conservative conditions with respect to issuance of downstream flood warnings and implementation of action plans. Because of the potential complexity and expense of dam breach modeling, a two phase approach typically takes place. This first phase determines the scenarios of dam failure and makes recommendations, if pertinent, regarding more detailed investigations for a second phase. The first phase does involve simplified modeling of the dam breach process and performs simplified downstream flood routing with available topography and hydraulic structure data. Simplified calculations, in concert with appropriate dam failure assumptions, are used. Response of the Suwannee River to such an incident is beyond the scope of this evaluation.

If it is determined in this first phase evaluation that affected downstream areas are not and will not be inhabited, then the first phase approximate mapping may be adequate. If affected areas are inhabited, then more detailed mapping of the floodplain may be necessary. There is a possibility that additional analyses may be needed where there is a question of reliability of the analysis in these areas. If the flood zones can't be clearly defined due to inadequate data or results from a simplified analysis, then Ardaman can perform additional detailed evaluations for some specific areas in a second phase.

A dam breach in the waste clay settling area is considered highly unlikely. It is worthy to note that these settling area dams are designed, constructed, frequently inspected and maintained in accordance with the rules of the Florida Department of Environmental Protection (FDEP) under Chapter 62-672, F.A.C.

Dam Breach Scenarios

The following hypothetical dam breach scenarios were considered most likely by Ardaman based on as-built conditions and operations of the new Swift Creek SA No. 10V. Location of the settling area with respect to the USGS quad sheet is shown in Figure 1. Four dam breach scenarios were identified for this system. A dam breach was assumed along each of the four walls of the settling area.

The following table summarizes selected information on the settling area considered in this evaluation.

Settling Area	Surface Area (acres)	Approximate Land Surface Elevation	Maximum Design Water Elevation	Dam Crest Elevation	Approximate Storage Volume (acre-feet)
Swift Creek SA-10V	835	120 ft. NGVD 119.2 ft. NAVD	152 ft. NGVD 151.2 ft. NAVD	157 ft. NGVD 156.2 ft. NAVD	21,000

The storage volume was calculated between lowest land surface elevation and crest elevation. The dam breach scenarios were modeled with the water level in the settling areas at the crest elevation. The elevations in the model use NAVD vertical datum, which is 0.8 feet lower than the NGVD datum for this study area.

The topography for the current conditions was from a combination of the following: (1) DEM data from the Suwannee River Water Management District for the area generally south from the north edge of the PCS Chemical Complex south; (2) PCS topography in the vicinity of Settling Area 10V; (3) DEM topography data from USGS; (4) USGS quad sheet topography in the north area outside the mining area; and (5) Estimated topography in the mined area in the area north of CR-137.

Assumed Breach Formation and Simulation

CHAN for Windows (Aquarian Software, 1996) was used to evaluate the hydraulic impacts associated with the hypothetical structural failures. A fully formed breach in an earthen dam tends to have an average bottom width, “bw”, in the range of “hd” < “bw” < 3hd, where “hd” is the height of the dam (US Army Corps of Engineers, 1978). For this evaluation, a breach of “3hd plus 100 feet” (50 feet of additional erosion is assumed on either side of the breach.) was chosen for the 37-foot high dam. This type of breach attempts to dimensionalize the initial failure through “piping” at the base of the embankment followed by rapid lateral erosion on both sides of the dam along its axis.

Modeling a breach requires a finite interval of time for its formation through erosion of the dam by escaping water. Total time of failure can range from a few minutes to several hours, depending on the dam height, dam design parameters, and materials and methods used to construct the dam. A failure time of one hour was chosen for this evaluation. Using CHAN, a rectangular broad crested weir with a time variable weir crest elevation was simulated. The crest elevation was initially set at the dam crest elevation and linearly decreased to natural grade elevation over a one hour period.

These breach assumption are considered conservative.

During and after breach development, discharges from the settling area were routed downstream (using simplified routing methods) and flood elevations were calculated at selected points within the stream system. Figures 2A and 2B show the Node Reach Diagram for the four Scenarios. Development of scour holes immediately downstream of dam breaches and clogging of downstream conveyances by dam materials or other debris are not considered in the evaluation. All downstream roads are assumed to remain intact for hydraulic analyses. A

node is where water is stored and a reach is where flow occurs. In the model runs, RCSAN, WEIR2, WEIR3, and WEIR4 represent the four dam breach reaches for the north, east, west and south scenarios, respectively. SA No. 10V is identified as the CSA node in the model. Nodes as part of Swift Creek, Camp Branch, Roaring Creek, and Bell Creek have "NS", "NC", "NR", and "NB" as prefixes, respectively.

Hydraulic analyses are based on the following combination of data: (1) Cross section and hydraulic structures from Ardaman 1999 Dam Break Evaluation for PCS Phosphate Settling Areas for areas not modified; (2) PCS cross section and hydraulic structure data for Post Reclamation Mining Hydrology Evaluations by URS; (3) Separate PCS hydraulic structure data; (4) 2013 Ardaman hydraulic structure reconnaissance along CR-137, US Highway 41, Railroad along US Highway 41, and CR-6; and (5) Estimates of overtopping elevations along the above roadways from available FDOT, LIDAR, and USGS topography data.

Extent of Flooding Areas

The approximate flood zones for the four hypothetical dam breach scenarios are plotted on Figures 3 through 6 based on our best judgment. Figure 3 is for the north wall dam breach scenario. Figure 4 is for the northeast wall dam breach scenario. Figure 5 is for the west wall dam breach scenario. Figure 6 is for the southwest wall dam breach scenario. The input file for the nodes and reaches are provided as a CD in Appendix A. The maximum stage and maximum flow output files for each scenario are provided in Appendix B.

Table 1 summarizes the flooding conditions by identifying maximum stages at key nodes within the model domain for each scenario. It identifies where roads and railroads are likely to be overtopped. In addition, it summarizes which sections have buildings/structures in the flooded areas from review of 2012 aerial photography.

Table 1 also provides estimates of the amount of time it would take for peak flow to occur at different locations within each stream system for each scenario. Time to peak varies from less than 5 hours in close proximity to the breach to 11 hours for overtopping of CR-137 in the east part at Node WET1 in the east scenario.

Buildings/Structures in Flood Areas

Buildings that could be impacted in these dam breach scenarios are not numerous but are most prevalent in all four Scenarios along CR-137. Table 2 summarizes these results. The locations of buildings were determined from review of 2012 aerial photography, and the buildings include a mixture of occupied and unoccupied buildings. The owner and parcel information came from the Hamilton County 2011 Property Appraiser's Office.

The north, south and west scenarios have approximately 38 buildings possibly impacted while the east scenario has approximately 42 buildings possibly impacted. In addition, the PCS Swift Creek Chemical Complex is most adversely impacted in the South Scenario (Sections 25 and 36, T1N, R14E, Sections 30 and 31, T1N, R15E, Section 1, T1S, R14E, and Section 6, T1S, R15E) but is also impacted in the other three scenarios. Most buildings are located in Section 24, T1N, R14E and Section 19, T1N, R15E.

Paved roads and highways and railroads affected in these dam breach scenarios include: CR-137 in Section 24, T1N, R14E; Section 19, and 27 and 28, T1N, R15E. In addition, the Swift Creek Chemical Complex roads and railroad would be affected especially in the south scenario.

The railroad adjacent to US Highway 41 and US Highway 41 would be overtopped in Section 6 and possibly Section 7, T1S, R15E in the south scenario.

Conclusions and Recommendations

This hypothetical dam-breach for SA No. 10V was considered as possible but not likely. All of the settling area dams at PCS – White Springs are designed, constructed, frequently inspected and maintained in accordance with the rules of the FDEP under Chapter 62-672, F.A.C. These four dam breach scenarios would primarily impact four stream systems; Swift Creek, Camp Branch, Rocky Creek, and Bell Creek. Four dam breach scenarios were evaluated: (1) North Wall; (2) East Wall; (3) West Wall; and (4) South Wall.

1. The most affected area in all four scenarios is the area along CR-137 on the west starting about one mile east of US Highway 41 to the northwest corner of the PCS CTC Phosphogypsum Stack. Overtopping of CR-137 and potential impacts to buildings/dwelling/structures and a cemetery are noted in this area.

2. Swift Creek along the CTC Phosphogypsum stack system does not have a flood wave for any scenario because the drainage system in the area of SA No. 10V is effective in moving water to the north across CR-137 and not east into Swift Creek (Reach RS-075A). The hydraulic connection between McNeill Lake (Node WET1) and Swift Creek is overland flow once the lake is completely full while there is a lower culvert invert east under CR-137 northeast of the lake and north of the CTC gypsum stack.

4. The most affected area in the South Scenario is the PCS Swift Creek Chemical Complex and one overtopping location of the railroad adjacent to US Highway 41 and US Highway 41 in Section 6, T1S,R15E. Significant flow moves around SA No. 10V in a clockwise direction with an overflow in the area of Node NS135 on the west side of the Settling Area.

5. The most affected area in the North Scenario is the area mentioned in item 1 above.

6. CR-6 is not overtopped in any scenario.

7. Camp Branch receives water from the overtopping of US Highway 41 in the south scenario. Flooding does not extend to CR-132 at Camp Branch.

8. Bell Creek is most impacted in the west scenario.

9. Rocky Creek is most impacted in the east scenario.

10. Because predicted warning times are very short (in the event of an actual breach), response actions to be taken by PCS should be prioritized.

11. A detailed inventory of buildings/dwellings and other structures should be performed by PCS using recent large scale areas, County tax records and ground truthing, where necessary.

12. Duration of flooding should also be considered in the response actions by PCS.

13. This hypothetical dam-breach evaluation serves the purpose of contingency planning for such an unlikely event at SA No. 10V.

References

Aquarian Software, Inc., 1996. CHAN Version 2. Orlando, Florida

Ardaman & Associates, Inc., January 13, 1999. First Phase Mapping of Flood Zones Pertaining to Hypothetical Dam Break Scenarios for PCS Phosphate – White Springs Swift Creek and Suwannee River Settling Areas, Hamilton County, Florida. File Number 98-022. Orlando, Florida.

Federal Emergency Management Agency, June 1987. Flood Insurance Study, Hamilton County, Florida and incorporated areas. Washington D.C.

U.S. Department of the Army, Corps of Engineers, May 1985. Environmental Evaluation of Existing and Proposed Mining Operations, Occidental Chemical Agricultural Products, Inc., Hamilton County, Florida. Jacksonville District, Jacksonville, Florida.

U.S. Department of the Army, Corps of Engineers, 1978. Flood Hydrograph Package (HEC-1) Users Manual for Dam Safety Investigations. The Hydrologic Engineering Center, Davis, California.

TABLE 1

FLOODING SUMMARY

NORTH SCENARIO

Site ID	Node ID	Peak Stage	Time to Peak	Overtopping Elev.	Buildings	Road
		(ft NAVD)	(hours)	(ft NAVD)	Flooded	Overtopping
CR-137	WET8	139.8	1.3	135.0		X
CR-137	NS150	130.3	17.9	133.0		
CR-137	WET1	130.3	17.9	131.4		
CR-137	NS194	138.9	2.0	136.0		X
CR-137	BC11	137.9	2.9	137.0		X
SR-6	CS1	129.0	15.7	132.0		
SR-6	CS2	128.9	37.0	133.0		
PCS Plant	NS135	135.7	6.8	130.0		X
PCS Plant	NS131	135.7	6.9	135.0		X
PCS Plant	NS130	135.7	7.0	135.0		X
PCS Plant	NS112	133.2	29.5	138.7		
3101N15E	NS131				X	
3001N15E	NS135				X	
1901N15E	WET8				X	
3601N14E	NS131				X	
2501N14E	NS135				X	
2401N14E	NS194				X	
EAST SCENARIO						
CR-137	WET8	136.6	3.5	135.0		X
CR-137	NS150	132.2	11.2	133.0		
CR-137	WET1	132.2	11.2	131.4		X
CR-137	NS194	136.6	3.6	136.0		X
SR-6	CS1	128.6	53.2	132.0		
SR-6	CS2	129.4	15.4	133.0		
SR-6	WET11	120.3	61.6	134.0		
PCS Plant	NS135	130.5	6.4	130.0		X
PCS Plant	NS131	130.5	6.4	135.0		
PCS Plant	NS121	131.1	0.1	138.4		
PCS Plant	NS130	130.5	6.5	137.0		
3101N15E	NS131				X	
3001N15E	NS135				X	
1901N15E	WET8				X	
0901N15E	CS2				X	
2501N14E	NS135				X	
2401N14E	NS194				X	
1801N16E	WET11				X	
1701N16E	WET11				X	

TABLE 1 (Continued)

FLOODING SUMMARY

WEST SCENARIO

Site ID	Node ID	Peak Stage	Time to Peak	Overtopping Elev.	Buildings	Road
		(ft NAVD)	(hours)	(ft NAVD)	Flooded	Overtopping
CR-137	WET8	137.5	3.1	135.0		X
CR-137	NS150	130.5	22.3	133.0		
CR-137	WET1	130.5	22.3	131.4		
CR-137	NS194	139.0	2.1	136.0		X
CR-137	BC11	138.1	3.0	137.0		X
SR-6	CS1	128.9	37.9	132.0		
SR-6	CS2	128.9	44.1	133.0		
PCS Plant	NS135	136.7	6.4	130.0		X
PCS Plant	NS131	136.7	6.5	135.0		X
PCS Plant	NS130	136.6	6.9	135.0		X
PCS Plant	NS121	135.7	11.3	138.4		
3101N15E	NS130				X	
3001N15E	NS131				X	
1901N15E	WET8				X	
3601N14E	CS2				X	
2501N14E	NS135				X	
2401N14E	NS194				X	
SOUTH SCENARIO						
CR-137	WET8	136.7	4.6	135.0		X
CR-137	NS150	129.0	19.0	133.0		
CR-137	WET1	129.0	19.0	131.4		
CR-137	NS194	137.6	3.7	136.0		X
CR-137	BC11	137.2	4.7	137.0		X
SR-6	CS1	128.4	58.8	132.0		
SR-6	CS2	128.2	30.0	133.0		
PCS Plant	NS135	141.3	2.6	130.0		X
PCS Plant	NS131	143.4	2.0	135.0		X
RR 41	NS111	136.8	6.7	137.0		
US41	NS115	135.3	14.4	136.7		
RR 41	NS112	139.3	5.7	138.7		X
US41	NC028	139.1	5.7	138.7		X
3101N15E	NS130				X	
3001N15E	NS131				X	
1901N15E	WET8				X	
3601N14E	NS131				X	
2501N14E	NS135				X	
2401N14E	NS194				X	
0101S14E	NS111				X	
0601S15E	NS112					X
0701S15E	NS111					

TABLE 2

BUILDINGS IN FLOODED AREAS

SEC	TWN	RNG	COUNTY PARCEL ID	OWNER NAME	OWNER ADDRESS	OWNER CITY	OWNER STATE	OWNER ZIP CODE	SOURCE DATE	DESCRIPTION	East Scenario	West Scenario	North Scenario	South Scenario
24	01N	14E	2277-010	FRIENDSHIP BAPTIST CHURCH	TRUSTEES OF 13158 SE CR 137	JASPER	FL	32052	12/16/2011	CHURCHES	yes	yes	yes	yes
24	01N	14E	2279-010	LESSMAN SAMUEL D	13083 SE CR 137	JASPER	FL	32052	12/16/2011	MOBILE HOMES	yes	yes	yes	yes
24	01N	14E	2281-000	RICKETTS EDDISION	P O BOX 190364	LAUDERHILL	FL	33319	12/16/2011	VACANT RESIDENTIAL	yes	yes	yes	yes
24	01N	14E	2272-010	SWILLEY JAMES R	186 SWILLEY ROAD	LAKE PARK	GA	31636	12/16/2011	TIMBERLAND	yes	yes	yes	yes
24	01N	14E	2279-011	TOMPKINS CHARLES N AND ANNIE L	13122 SE CR 137	JASPER	FL	32052	12/16/2011	MOBILE HOMES	yes	yes	yes	yes
24	01N	14E	2274-000	WHITE SPRINGS AGRICULTURAL	CHEMICALS INC P.O. BOX 300	WHITE SPRINGS	FL	32096	12/16/2011	MINERAL PROCESSING	yes	yes	yes	yes
24	01N	14E	2272-000	YOUNG HOWARD HENRY JR	13455 SE CR 137	JASPER	FL	32052	12/16/2011	MOBILE HOMES	yes	yes	yes	yes
24	01N	14E	2272-035						12/16/2011	PARCELS WITH NO VALUES	yes	yes	yes	yes
25	01N	14E	2288-000	WHITE SPRINGS AGRICULTURAL	CHEMICALS INC P. O. BOX 300	WHITE SPRINGS	FL	32096	12/16/2011	MINERAL PROCESSING	yes	yes	yes	yes
36	01N	14E	2345-010	WHITE SPRINGS AGRICULTURAL	CHEMICALS INC P. O. BOX 300	WHITE SPRINGS	FL	32096	12/16/2011	MINERAL PROCESSING	yes	yes	yes	yes
9	01N	15E	1384-012	GOOLSBY CINDY H	6063 SE COUNTY ROAD 135	JASPER	FL	32052	12/16/2011	IMPROVED AGRICULTURE	yes	no	no	no
19	01N	15E	1412-000	ACREAGE INC	C/O RUSSELL FRY 13459 SE 56TH CT	JASPER	FL	32052	12/16/2011	VACANT RESIDENTIAL	yes	yes	yes	yes
19	01N	15E	1412-042	CALLOWAY WILLIAM J JR & ANN	5550 SE 135TH BLVD	JASPER	FL	32052	12/16/2011	MOBILE HOMES	yes	yes	yes	yes
19	01N	15E	1412-040	CROFT WILLIAM LESLIE	5663 SE 135TH BLVD	JASPER	FL	32052	12/16/2011	MOBILE HOMES	yes	yes	yes	yes
19	01N	15E	1413-000	WHITE SPRINGS AGRICULTURAL	CHEMICALS INC P. O. BOX 300	WHITE SPRINGS	FL	32096	12/16/2011	MINERAL PROCESSING	yes	yes	yes	yes
19	01N	15E	1412-050	MCDANIEL JOHNNY D AND BARBARA	5617 SE 135TH BLVD	JASPER	FL	32052	12/16/2011	MOBILE HOMES	yes	yes	yes	yes
19	01N	15E	1412-070	TANNER SAMMIE	5647 SE 135TH BLVD	JASPER	FL	32052	12/16/2011	VACANT RESIDENTIAL	yes	yes	yes	yes
19	01N	15E	1412-041	TANNER SAMMY	5647 SE 135TH BLVD	JASPER	FL	32052	12/16/2011	PARKING LOTS, MOBILE HOME SALES	yes	yes	yes	yes
19	01N	15E	1412-060	TANNER SAMMY	5647 SE 135TH BLVD	JASPER	FL	32052	12/16/2011	MOBILE HOMES	yes	yes	yes	yes
19	01N	15E	1412-025	WALKER DANIEL	P. O. BOX 1845	JASPER	FL	32052	12/16/2011	MOBILE HOMES	yes	yes	yes	yes
19	01N	15E	1412-020	YOUNG HENRY HOWARD SR & MARY N	AND YOUNG PAULA JEAN 13495 SE CR 137	JASPER	FL	32052	12/16/2011	SINGLE FAMILY	yes	yes	yes	yes
30	01N	15E	1450-010	WHITE SPRINGS AGRICULTURAL	CHEMICALS INC P. O. BOX 300	WHITE SPRINGS	FL	32096	12/16/2011	MINERAL PROCESSING	yes	yes	yes	yes
31	01N	15E	1451-000	WHITE SPRINGS AGRICULTURAL	CHEMICALS INC P. O. BOX 300	WHITE SPRINGS	FL	32096	12/16/2011	MINERAL PROCESSING	yes	yes	yes	yes
31	01N	15E	1451-010	WHITE SPRINGS AGRICULTURAL	CHEMICALS INC P. O. BOX 300	WHITE SPRINGS	FL	32096	12/16/2011	MINERAL PROCESSING	yes	yes	yes	yes
31	01N	15E	1451-020	WHITE SPRINGS AGRICULTURAL	CHEMICALS INC P. O. BOX 300	WHITE SPRINGS	FL	32096	12/16/2011	MINERAL PROCESSING	yes	yes	yes	yes
17	01N	16E	1047-020	BASS FRED C AND CINDY M	16933 SE 50TH LANE	JASPER	FL	32052	12/16/2011	IMPROVED AGRICULTURE	yes	no	no	no
17	01N	16E	1043-000	CHRISTIE EDWARD HEIRS	17036 SE 50TH LANE	JASPER	FL	32052	12/16/2011	TIMBERLAND	yes	no	no	no
18	01N	16E	1047-015	LAWSON HENRY N AND BARBEL A	AGREE/DEED FROM: EAGLE TOM	LAND O'LAKES	FL	34639	12/16/2011	TIMBERLAND	yes	no	no	no
1	01S	14E	2657-010	WHITE SPRINGS AGRICULTURAL	CHEMICALS INC P. O. BOX 300	WHITE SPRINGS	FL	32096	12/16/2011	MINERAL PROCESSING	no	no	no	yes
6	01S	15E	1529-010	WHITE SPRINGS AGRICULTURAL	CHEMICALS INC P. O. BOX 300	WHITE SPRINGS	FL	32096	12/16/2011	MINERAL PROCESSING	no	no	no	yes

GIS Layer is from Florida Geographic Data Library "Statewide_2012.shp"

APPENDIX A

CHAN INPUT FILES IN CD

CHAN INPUT FILES

CHAN Version 2

Report of Model Network Input Data

PCS DAMBREAK SA10V

Model Network Comments

Reach RS005	wooden bridge that needs survey right now using box culvert to subsitute
Reach RS044	Inferred culvert
Reach RS046	Inferred culvert
Reach RC015	Inferred culvert
Reach RS130A	Inferred culvert, pipe buries under water
Reach RS117	Inferred Culvert
Reach RS113	Inferred Culvert
Reach RS111	Inferred culvert
Reach RC020	Inferred culvert
Reach RS084	Inferred culverts
Reach RR040	Inferred culvert and approx. road overflow
Reach RR020	Inferred culvert and road overflow
Reach RS054	Inferred culvert
Reach RS081	Inferred culvert

PCS DAMBREAK SA10V

Model Network Comments

Reach RS125	Half of the pipe under water
Reach RS113B	Inferred Culvert
Reach RC050	Pipe half full with water
Reach RET10	Inferred culvert
Reach RS116	Inferred Culvert
Reach RSWC34B	Inferred culvert, field recon picture show spillway upstream of 3 box culverts, need survey or as-built data
Reach RS127	Inferred culvert
Reach RS126	Inferred Culvert
Reach RS127B	Inferred Culvert
Reach RS127C	Inferred Culvert
Reach RS127D	Inferred Culvert
Reach RS127E	Inferred Culvert
Reach RS127F	Inferred Culvert
Reach RS127G	Inferred Culvert

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Model Network Comments

Reach RS127H	Inferred Culvert
Reach RS121C	Inferred Culvert

PCS DAMBREAK SA10V

Node Element Data

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS15	Channel	87	87.5	87

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS16	Channel	80	81	80

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS13	Channel	87.7	91	87.7

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS14	Lake	87.5	88	87.5

Elev	87.5	88	100	110
Area	0.5	1	1.1	1.7

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS12	Channel	90	92	90

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS11	Channel	91	92	91

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NSC9	Channel	103	107	103

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NSC10	Channel	102	103	102

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Node Element Data

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS005	Lake	103	107	103

Elev	103	107.44	108.44	109.44	110.44	111.44
Area	0.34	1.97	4.51	6.95	10.46	14.68
Elev	112.44	113.44	114.44	115.44	116.44	117.44
Area	19.56	24.21	33.46	37.74	39.9	40.62
Elev	118.44	119.44	120.44			
Area	40.96	41.19	41.25			

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS010	Lake	104.5	107	104.5

Elev	104.5	107.04	108.04	109.04	110.04	111.04
Area	0.01	0.39	3.35	11.45	27.86	43.2
Elev	112.04	113.04	114.04	115.04	116.04	117.04
Area	58.32	78.89	102.17	126.45	148.07	162.4
Elev	118.04	119.04	120.04	121.04	122.04	123.04
Area	173.56	181.35	187.28	191.72	195.59	199.97
Elev	124.04	125.04	126.04	127.04	128.04	129.04
Area	204.86	210.7	217.18	223.51	224.93	225.41
Elev	130.04	131.04	132.04	133.04	134.04	135.04
Area	225.73	225.99	226.24	226.57	226.8	226.93
Elev	136.04	137.04	138.04	139.04	140.04	141.04
Area	227.05	227.18	227.29	227.41	227.51	227.62
Elev	142.04	143.04	144.04	145.04	146.04	147.04
Area	227.72	227.83	227.94	228.08	228.14	228.18
Elev	148.04	149.04	150.04	151.04	152.04	153.04
Area	228.23	228.26	228.28	228.3	228.32	228.33
Elev	154.04	155.04				
Area	228.34	228.35				

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS040	Channel	109.4	109.5	109.4

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Node Element Data

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS041	Channel	113.2	113.3	113.2

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS042	Channel	114.5	114.6	114.5

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS043	Channel	113	113.1	113

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS044	Channel	113	113.1	113

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS045	Channel	116.97	117.1	116.97

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS046	Channel	117	117.1	117

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS047	Channel	117	117.1	117

No area relation associated with this node

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Node Element Data

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS048	Channel	119.3	119.4	119.3

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS049	Channel	123.4	123.5	123.4

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NCB3	Channel	88	89	88

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NCB4	Channel	87.5	88.5	87.5

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NCB2	Channel	105	106	105

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NCBR	Lake	114.7	115	114.7

Elev	114.7	118	120	125	130	135
Area	1	7.5	14	45	100	625

Elev	136
Area	675

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NCB1	Channel	114	115	114

No area relation associated with this node

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Node Element Data

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NC010	Channel	113.64	114	113.64

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NC015	Channel	113.9	115	113.9

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NC017	Channel	127.6	127.7	127.6

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NC016	Channel	121.8	121.9	121.8

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NC018	Lake	127.57	127.57	127.57

Elev	127.57	128.57	129.57	130.57	131.57	132.57
Area	0.04	0.32	0.86	1.84	3.06	3.69
Elev	133.57	134.57	135.57	136.57	137.57	138.57
Area	4.06	4.16	4.2	4.25	4.3	4.4

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NC019	Channel	128.7	129.7	128.7

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS131	Channel	123	126	123

Elev	123	124	125	126	127	128
Area	0.46	1.34	2.92	6.26	12.89	20.65
Elev	129	130	131	132	133	134

PCS DAMBREAK SA10V

Node Element Data

	Area	28.05	33.61	38.29	46.95	60.26	78.34
	Elev	135	136	137	138	139	140
	Area	85.76	93.37	94.45	94.49	94.5	94.5

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS130	Channel	128.16	130.1	128.16

Elev	128.16	129.16	130.16	131.16	132.16	133.16
Area	0.01	0.05	0.14	0.4	1.45	6.51
Elev	134.16	135.16	136.16	137.16	138.16	139.16
Area	14.08	27.29	53.05	62.35	64.22	64.67
Elev	140.16	141.16	142.16	143.16		
Area	64.83	64.86	64.87	64.88		

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS120	Channel	128	130.1	128

Elev	128	134.15	135.15	136.15	137.15	138.15
Area	1.92	4.07	5.82	7.2	8.06	8.61
Elev	139.15	140.15	141.15	142.15	143.15	
Area	8.9	8.99	9.02	9.03	9.03	

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS117	Channel	130	131.1	130

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS116	Lake	130	132.4	130

Elev	130	131.66	132.66	133.66	134.66	135.66
Area	0.01	3.5	4.84	5.82	6.79	7.88
Elev	136.66	137.66	138.66	139.66	140.66	141.66
Area	9.19	10.37	11.72	13.34	14.06	14.21
Elev	142.66	143.66	144.66	145.66	146.66	147.66
Area	14.33	14.52	14.78	15.07	15.21	15.28
Elev	148.66	149.66	150.66	151.66		

PCS DAMBREAK SA10V

Node Element Data

	Area	15.29	15.3	15.31	15.32	

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS113	Lake	130.6	132	130.6

Elev	130.6	132.41	133.41	134.41	135.41	136.41
Area	0.01	7.5	15.69	21.76	28.36	35.54
Elev	137.41	138.41	139.41	140.41	141.41	142.41
Area	43.91	50.18	58.25	68.16	75.27	77.92
Elev	143.41	144.41				
Area	78.63	78.76				

	Node Type	Bottom Elev	Initial Elev	Flood Elev
SWC34	Lake	114.39	115.3	114.39

Elev	114.39	115.39	116.39	117.39	118.39	119.39
Area	162.93	167.33	172.59	179.23	187.1	197.78
Elev	120.39	121.39	122.39	123.39	124.39	125.39
Area	209.96	220.89	230.27	238.3	246.41	255.38
Elev	126.39	127.39	128.39	129.39	130.39	131.39
Area	265.13	271.85	276.47	281.2	288.07	296.14
Elev	132.39	133.39	134.39	135.39	136.39	137.39
Area	301.16	304.33	307.37	310.57	314.62	317.58
Elev	138.39	139.39	140.39	141.39	142.39	143.39
Area	318.89	319.77	320.67	321.37	322.02	322.63
Elev	144.39	145.39	146.39	147.39	148.39	149.39
Area	323.14	323.5	323.9	324.25	324.5	324.81
Elev	150.39					
Area	324.9					

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS078	Channel	115.2	115.3	115.2

No area relation associated with this node

Node Type	Bottom Elev	Initial Elev	Flood Elev

PCS DAMBREAK SA10V

Node Element Data

NS108

Lake	124.5			124.5		124.5
Elev	124.5	130.04	131.04	132.04	133.04	134.04
Area	0.01	0.05	0.28	20.95	25.08	30.92
Elev	135.04	136.04	137.04	138.04	139.04	140.04
Area	35.77	41.35	47.54	55.12	61.37	65.37
Elev	141.04	142.04	143.04	144.04	145.04	146.04
Area	69.33	72.62	76.03	80.43	85.92	91.19
Elev	147.04	148.04	149.04	150.04	151.04	152.04
Area	95.41	98.54	101.12	103.04	104.62	105.93
Elev	153.04	154.04	155.04	156.04	157.04	158.04
Area	107.05	108.1	109.45	110.89	111.62	112.07
Elev	159.04	160.04	161.04			
Area	112.55	112.95	113.18			

NS105

Node Type	Bottom Elev	Initial Elev	Flood Elev
Channel	122	122.1	122

No area relation associated with this node

NS109

Node Type	Bottom Elev	Initial Elev	Flood Elev
Channel	133.3	133.4	133.3

No area relation associated with this node

NS112

Node Type	Bottom Elev	Initial Elev	Flood Elev
Channel	132	132.1	132

No area relation associated with this node

NS111

Node Type	Bottom Elev	Initial Elev	Flood Elev
Channel	130	130.1	130

No area relation associated with this node

NS110

Node Type	Bottom Elev	Initial Elev	Flood Elev
Channel	130	130.1	130

PCS DAMBREAK SA10V

Node Element Data

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS18	Channel	60	77	60

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS19	Channel	59	76.5	59

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NC020	Lake	128.19	128.7	128.19

Elev	128.19	129.19	130.19	131.19	132.19	133.19
Area	62.69	83.14	113.54	137.48	161.68	197.87
Elev	134.19	135.19	136.19	137.19	138.19	139.19
Area	243.93	286.26	316.68	350.48	385.85	419.18
Elev	140.19	141.19	142.19	143.19	144.19	145.19
Area	441.46	458.21	467.92	477.21	482.91	486.8
Elev	146.19	147.19	148.19	149.19	150.19	151.19
Area	489.3	491.37	493.18	494.75	496.1	497.32
Elev	152.19	153.19	154.19	155.19	156.19	157.19
Area	498.38	499.31	500.17	500.94	501.54	502.1
Elev	158.19	159.19	160.19	161.19	162.19	163.19
Area	502.57	503.03	503.51	503.98	504.39	504.75
Elev	164.19	165.19	166.19	167.19	168.19	169.19
Area	505.13	505.47	505.79	506.12	506.42	506.7
Elev	170.19	171.19	172.19	173.19	174.19	175.19
Area	506.95	507.19	507.39	507.59	507.75	507.92
Elev	176.19	177.19	178.19	179.19	180.19	181.19
Area	508.07	508.19	508.28	508.35	508.41	508.47
Elev	182.19	183.19	184.19			
Area	508.49	508.52	508.54			

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Node Element Data

NS080

Node Type	Bottom Elev	Initial Elev	Flood Elev
Lake	113.5	115.3	113.5

Elev	113.5	118	119.01	120.01	121.01	122.01
Area	0.01	95.74	109.86	121.82	130.67	141.16
Elev	123.01	124.01	125.01	126.01	127.01	128.01
Area	152.57	167.97	190.28	208.95	220.25	226.67
Elev	129.01	130.01	131.01	132.01	133.01	134.01
Area	230.13	232.17	233.39	234.13	234.81	235.39
Elev	135.01	136.01	137.01	138.01	139.01	140.01
Area	235.98	236.51	237.13	237.61	237.96	238.25
Elev	141.01	142.01	143.01	144.01		
Area	238.49	238.63	238.73	238.77		

NS079

Node Type	Bottom Elev	Initial Elev	Flood Elev
Channel	113.5	115.3	113.5

No area relation associated with this node

NS083

Node Type	Bottom Elev	Initial Elev	Flood Elev
Channel	130	130.1	130

No area relation associated with this node

NS081

Node Type	Bottom Elev	Initial Elev	Flood Elev
Channel	128	128.1	128

No area relation associated with this node

NS084

Node Type	Bottom Elev	Initial Elev	Flood Elev
Channel	130	130.1	130

No area relation associated with this node

NS085

Node Type	Bottom Elev	Initial Elev	Flood Elev
Channel	130	130.1	130

PCS DAMBREAK SA10V

Node Element Data

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS165	Lake	122	130	122

Elev	122	123	124	125	126	127
Area	27.85	33.79	38.43	42.86	47.77	53.26
Elev	128	129	130	131	132	133
Area	57.76	61.93	71.37	80.67	83.79	86.41
Elev	134	135	136	137	138	139
Area	92.94	97.22	101.27	105.49	110.03	112.98
Elev	140	141	142	143	144	145
Area	113.97	114.38	114.75	114.96	115.17	115.39
Elev	146	147	148	149	150	151
Area	115.59	115.8	116.02	116.23	116.44	116.64
Elev	152	153	154	155	156	
Area	116.81	116.96	117.09	117.17	117.27	

	Node Type	Bottom Elev	Initial Elev	Flood Elev
SWC31	Lake	114.25	114.25	114.25

Elev	114.25	115.25	116.25	117.25	118.25	119.25
Area	44.05	168.84	236.47	247.49	251.3	254.83
Elev	120.25	121.25	122.25	123.25	124.25	125.25
Area	258.55	262.3	265.79	268.26	270.78	272.82
Elev	126.25	127.25	128.25	129.25	130.25	131.25
Area	274.51	275.83	277.65	279.8	281.99	283.9
Elev	132.25	133.25	134.25	135.25	136.25	137.25
Area	285.72	287.06	287.91	288.53	289.12	289.63
Elev	138.25	139.25	140.25	141.25	142.25	143.25
Area	290.03	290.36	290.54	290.66	290.76	290.83
Elev	144.25	145.25	146.25	147.25	148.25	149.25
Area	290.9	290.97	291.04	291.1	291.16	291.22
Elev	150.25	151.25	152.25	153.25	154.25	155.25
Area	291.28	291.32	291.36	291.4	291.45	291.51

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Node Element Data

	Node Type	Bottom Elev	Initial Elev	Flood Elev
WET2	Lake	111	124	111

Elev	111	112	113	114	115	116
Area	0.49	0.55	6.01	12.37	13.22	16.47
Elev	117	118	119	120	121	122
Area	17.71	19.13	22.4	57.97	166.83	350.24
Elev	123	124	125	126	127	128
Area	418.3	452.9	473.86	488.43	502.19	515.14
Elev	129	130	131	132	133	134
Area	531.09	542.01	552.93	557.91	560.7	562.84
Elev	135	136	137	138	139	140
Area	564.67	566.3	567.7	569.4	571.48	572.96
Elev	141	142	143	144	145	146
Area	573.84	574.62	575.23	575.79	576.2	576.61
Elev	147	148	149	150	151	152
Area	576.95	577.61	578.26	578.78	578.99	579.15
Elev	153	154	155	156	157	158
Area	579.26	579.33	579.38	579.41	579.44	579.48
Elev	159					
Area	579.5					

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS17	Channel	79	80.5	79

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NR050	Channel	119	119.1	119

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NR040	Channel	111	111.1	111

No area relation associated with this node

PCS DAMBREAK SA10V

Node Element Data

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NR030	Channel	110	110.1	110

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NR020	Channel	90	90.1	90

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NR010	Channel	88.2	88.3	88.2

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
TWR	Tailwater	79	79	79

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS070	Channel	119.8	119.9	119.8

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS062	Channel	119.8	119.9	119.8

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
CSA	Lake	119.2	156.2	119.2

Elev	119.2	121.2	123.2	125.2	127.2	129.2
Area	665.81	673.12	680.41	692.88	697.77	707.66
Elev	131.2	133.2	135.2	137.2	139.2	141.2
Area	721.02	733.14	744.71	757.65	765.04	773.24

PCS DAMBREAK SA10V

Node Element Data

Elev	143.2	145.2	147.2	149.2	151.2	153.2
Area	783.62	790.99	799.71	808.64	816.32	823.78
Elev	155.2	156.2				
Area	832.2	832.2				

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS154	Lake	117	128	117

Elev	117	118	119	120	121	122
Area	1.16	1.31	2.01	43.68	48.36	53.2
Elev	123	124	125	126	127	128
Area	56.66	59.57	63.16	67.12	75.77	81.13
Elev	129	130	131	132	133	134
Area	94.92	105.94	119.72	134.02	145.31	148.95
Elev	135	136	137	138	139	140
Area	151.58	153.91	156.04	158.37	161.08	162.88
Elev	141	142	143	144	145	146
Area	163.9	164.72	165.33	165.86	166.35	166.83
Elev	147	148	149	150	151	152
Area	167.32	168.12	169.11	169.73	170.06	170.31
Elev	153	154	155	156	157	158
Area	170.51	170.69	170.86	171.03	171.18	171.44
Elev	159	160	161	162	163	164
Area	171.8	172	172.09	172.12	172.13	172.14

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS163	Lake	125	128	125

Elev	125	126	127	128	129	130
Area	17.53	22.3	27.05	31.4	38.21	42.7
Elev	131	132	133	134	135	136
Area	47.86	52.19	57.82	64.23	70.72	76.29
Elev	137	138	139	140	141	142
Area	82.3	86.01	88.93	91.23	92.7	94.2
Elev	143	144	145	146	147	148

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Node Element Data

Area	95.28	95.91	96.33	96.64	96.94	97.15
Elev	149	150	151	152	153	154
Area	97.39	97.68	97.94	98.09	98.13	98.19
Elev	155					
Area	98.27					

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS194	Lake	125	129	125

Elev	125	126	127	128	129	130
Area	1.72	2.17	2.67	3.33	27.22	49.93
Elev	131	132	133	134	135	136
Area	70.16	91.49	114.61	156.48	181.72	204.36
Elev	137	138	139	140	141	142
Area	246.75	294.76	338.7	349.44	352.88	353.51

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS072	Channel	126	126.1	126

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS071	Channel	126	126.1	126

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS058	Channel	126.5	126.6	126.5

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS057	Channel	123	123.1	123

No area relation associated with this node

PCS DAMBREAK SA10V

Node Element Data

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS056	Channel	124	124.1	124

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS055	Channel	124.4	124.5	124.4

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS054	Channel	122	122.1	122

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS053	Channel	122	122.1	122

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS052	Channel	124.3	124.4	124.3

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS051	Lake	122.89	123.89	122.89

Elev	122.89	123.89	124.89	125.89	126.89
Area	0.1	0.54	1.17	1.64	1.66

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS077	Channel	129.3	129.4	129.3

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS076	Channel	129	129.1	129

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Node Element Data

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS075	Channel	126	126.1	126

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS103	Lake	114.94	115.7	114.94

Elev	114.94	115.94	116.94	117.94	118.94	119.94
Area	0.76	5.04	9.66	12.96	32.45	98.47
Elev	120.94	121.94	122.94	123.94	124.94	125.94
Area	134.21	149.76	166.24	188.02	211.44	239.29
Elev	126.94	127.94	128.94	129.94	130.94	131.94
Area	264.01	286.09	304.49	318.28	325.65	330.2
Elev	132.94	133.94	134.94	135.94	136.94	137.94
Area	331.64	332.15	332.76	334.95	335.97	336

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS102	Lake	114.82	116	114.82

Elev	114.82	115.82	116.82	117.82	118.82	119.82
Area	0.03	0.17	0.34	0.51	0.68	0.82
Elev	120.82	121.82	122.82	123.82	124.82	125.82
Area	0.97	1.26	1.9	2.47	2.79	3.16
Elev	126.82					
Area	3.19					

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS101	Lake	112.06	113.06	112.06

Elev	112.06	113.06	114.06	115.06	116.06	117.06
Area	0.04	0.38	1.02	1.89	3.19	4.54
Elev	118.06	119.06	120.06	121.06	122.06	123.06
Area	6.37	8.88	11.29	12.53	13.2	13.49
Elev	124.06	125.06				

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Node Element Data

Area 13.6 13.63

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS100	Channel	112	112.1	112

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
WET1	Lake	120.04	124	120.04

Elev	120.04	121.04	122.04	123.04	124.04	125.04
Area	33.2	45.21	56.78	70.62	82.28	95.88
Elev	126.04	127.04	128.04	129.04	130.04	131.04
Area	121.21	140.76	157.5	169.02	180.58	194.12
Elev	132.04	133.04	134.04	135.04	136.04	137.04
Area	204.38	212.13	214.63	215.22	215.28	215.28

	Node Type	Bottom Elev	Initial Elev	Flood Elev
TWS	Tailwater	55	76	55

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS125	Lake	126	126.1	126

Elev	126	129.22	130.22	131.22	132.22	133.22
Area	0.07	0.12	0.19	0.28	0.34	0.42
Elev	134.22	135.22	136.22	137.22	138.22	139.22
Area	0.55	0.77	1.04	1.45	1.67	1.74
Elev	140.22	141.22	142.22	143.22	144.22	145.22
Area	1.81	1.84	1.86	1.87	1.88	1.89
Elev	146.22					
Area	1.89					

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS123	Channel	126	126.1	126

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Node Element Data

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS121	Channel	130.89	131.1	130.89

Elev	130.89	131.89	132.89	133.89	134.89	135.89
Area	0.09	0.3	0.7	1.45	5.12	12.44
Elev	136.89	137.89	138.89	139.89	140.89	141.89
Area	23.13	26.8	29.6	30.41	31.28	31.63
Elev	142.89	143.89	144.89	145.89	146.89	147.89
Area	31.78	31.89	31.94	31.96	31.98	31.99
Elev	148.89	149.89	150.89	151.89	152.89	153.89
Area	32	32.01	32.02	32.03	32.04	32.04
Elev	154.89	155.89	156.89	157.89	158.89	159.89
Area	32.05	32.06	32.07	32.07	32.08	32.08
Elev	160.89	161.89	162.89	163.89	164.89	165.89
Area	32.08	32.08	32.08	32.09	32.09	32.09
Elev	166.89	167.89				
Area	32.09	32.09				

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS104	Lake	96.27	115	96.27

Elev	96.27	97.27	98.27	99.27	100.27	101.27
Area	2.08	2.33	2.69	4.12	4.9	5.36
Elev	102.27	103.27	104.27	105.27	106.27	107.27
Area	7.32	8.44	10.43	12.65	14.22	15.63
Elev	108.27	109.27	110.27	111.27	112.27	113.27
Area	17.14	18.55	20	21.46	22.79	24.15
Elev	114.27	115.27	116.27	117.27	118.27	119.27
Area	92.55	98.04	120.98	131.52	163.54	173.72
Elev	120.27	121.27	122.27	123.27	124.27	125.27
Area	186.46	210.78	227.9	244.36	263.83	300.28
Elev	126.27	127.27	128.27	129.27	130.27	131.27
Area	341.56	383.74	424.24	459.02	491.58	524.31
Elev	132.27	133.27	134.27	135.27	136.27	137.27

PCS DAMBREAK SA10V

Node Element Data

Area	550.11	571.45	585.96	605.69	642.38	689.36
Elev	138.27	139.27	140.27	141.27	142.27	143.27
Area	721.87	744.49	760.78	769.47	774.05	777.42
Elev	144.27	145.27	146.27	147.27	148.27	149.27
Area	780.41	782.77	784.74	786.24	787.38	788.38
Elev	150.27	151.27	152.27	153.27	154.27	155.27
Area	789.29	790.07	790.83	791.48	792.01	792.48
Elev	156.27	157.27	158.27	159.27	160.27	161.27
Area	792.9	793.28	793.63	793.97	794.33	794.68
Elev	162.27	163.27	164.27	165.27	166.27	167.27
Area	795.02	795.28	795.52	795.72	795.88	796.01
Elev	168.27	169.27	170.27	171.27	172.27	173.27
Area	796.12	796.19	796.24	796.28	796.3	796.32
Elev	174.27	175.27	176.27	177.27	178.27	179.27
Area	796.33	796.35	796.35	796.36	796.36	796.36

	Node Type	Bottom Elev	Initial Elev	Flood Elev
WET7	Lake	134.63	135	134.63

Elev	134.63	135.63	136.63	137.63	138.63	139.63
Area	0.32	0.95	5.76	15.32	27.4	40.15
Elev	140.63	141.63	142.63	143.63	144.63	145.63
Area	55.27	71.33	80.04	84.46	87.78	88.8
Elev	146.63	147.63	148.63	149.63	150.63	151.63
Area	89.15	89.35	89.48	89.53	89.57	89.6
Elev	152.63	153.63				
Area	89.63	89.65				

	Node Type	Bottom Elev	Initial Elev	Flood Elev
WET6	Lake	128.62	132	128.62

Elev	128.62	129.62	130.62	131.62	132.62	133.62
Area	0.18	0.23	0.27	0.51	1.28	3.43
Elev	134.62	135.62	136.62	137.62	138.62	139.62

PCS DAMBREAK SA10V

Node Element Data

Area	9.75	24.19	42.37	61.11	77.05	89.63
Elev	140.62	141.62	142.62	143.62	144.62	145.62
Area	99.28	108.95	119.23	130.41	142.72	146.68
Elev	146.62					
Area	147.1					

	Node Type	Bottom Elev	Initial Elev	Flood Elev
CB11	Lake	129.22	130	129.22

Elev	129.22	130.22	131.22	132.22	133.22	134.22
Area	118.17	147.52	173.14	186.48	206.34	251.6
Elev	135.22	136.22	137.22	138.22	139.22	140.22
Area	379.94	605.42	789.99	917.84	1055.98	1176.67
Elev	141.22	142.22	143.22	144.22	145.22	146.22
Area	1303.82	1428.78	1570.71	1721.16	1858.64	1991.56
Elev	147.22	148.22	149.22	150.22	151.22	152.22
Area	2080.99	2154.08	2215.72	2266.37	2312.2	2345.56
Elev	153.22	154.22	155.22	156.22	157.22	158.22
Area	2356.85	2361.32	2364.43	2367.1	2368.5	2369.45
Elev	159.22	160.22	161.22	162.22	163.22	164.22
Area	2370.27	2370.86	2371.29	2371.59	2371.83	2372.03
Elev	165.22	166.22	167.22	168.22	169.22	170.22
Area	2372.21	2372.37	2372.51	2372.61	2372.69	2372.77

	Node Type	Bottom Elev	Initial Elev	Flood Elev
CB22	Lake	127.43	128.43	127.43

Elev	127.43	128.43	129.43	130.43	131.43	132.43
Area	0.07	5.39	6.71	9.55	13.55	18.38
Elev	133.43	134.43	135.43	136.43	137.43	138.43
Area	26.47	34.94	47.72	63.56	79.3	93.7
Elev	139.43	140.43	141.43	142.43	143.43	144.43
Area	108.71	112.04	112.32	112.37	112.43	112.49
Elev	145.43	146.43	147.43	148.43		
Area	112.55	112.62	112.66	112.67		

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Node Element Data

	Node Type	Bottom Elev	Initial Elev	Flood Elev
CB21	Lake	112.4	119	112.4

Elev	112.4	113.4	114.4	115.4	116.4	117.4
Area	0.14	3.55	5.56	7.55	9.58	12.06
Elev	118.4	119.4	120.4	121.4	122.4	123.4
Area	15.35	30.6	47.57	72.97	111.32	154.28
Elev	124.4	125.4	126.4	127.4	128.4	129.4
Area	181.77	195.15	208.59	220.47	227.94	234.78
Elev	130.4	131.4	132.4	133.4	134.4	135.4
Area	240.13	243.5	246.96	249.09	249.83	250.71
Elev	136.4					
Area	251.36					

	Node Type	Bottom Elev	Initial Elev	Flood Elev
CB23	Lake	110.38	110.38	110.38

Elev	110.38	111.38	112.38	113.38	114.38	115.38
Area	5.06	5.23	5.64	6.18	6.71	7.17
Elev	116.38	117.38	118.38	119.38	120.38	121.38
Area	7.63	8.17	9.21	10.45	11.73	12.98
Elev	122.38	123.38	124.38	125.38	126.38	127.38
Area	14.39	17.68	25.2	31.6	35.19	37.92
Elev	128.38	129.38	130.38	131.38	132.38	133.38
Area	39.79	42.49	46.94	52.08	59.99	68.77
Elev	134.38	135.38	136.38	137.38	138.38	139.38
Area	73.18	76.62	81.08	84.71	86.89	88.12
Elev	140.38	141.38	142.38	143.38	144.38	145.38
Area	88.67	89.01	89.17	89.27	89.32	89.36
Elev	146.38	147.38	148.38			
Area	89.37	89.38	89.38			

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS118	Channel	133	133.1	133

No area relation associated with this node

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Node Element Data

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS107	Channel	137	137.1	137

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS106	Lake	132.47	132.47	132.47

Elev	132.47	133.47	134.47	135.47	136.47	137.47
Area	2.1	7.57	14.77	23.05	27.46	31.06
Elev	138.47	139.47	140.47	141.47	142.47	143.47
Area	33.21	34.68	35.96	36.88	37.53	38.16
Elev	144.47	145.47	146.47	147.47	148.47	149.47
Area	38.82	39.28	39.57	39.83	40.07	40.31
Elev	150.47	151.47	152.47	153.47	154.47	155.47
Area	40.55	40.81	41.05	41.3	41.56	41.97
Elev	156.47	157.47	158.47	159.47	160.47	161.47
Area	42.67	43.23	43.53	43.77	44	44.4
Elev	162.47	163.47	164.47	165.47	166.47	167.47
Area	44.87	45.37	45.67	45.76	45.86	45.92
Elev	168.47					
Area	45.95					

	Node Type	Bottom Elev	Initial Elev	Flood Elev
BC1	Lake	114.94	138	114.94

Elev	114.94	115.94	116.94	117.94	118.94	119.94
Area	0.77	1.01	1.22	1.41	1.6	1.73
Elev	120.94	121.94	122.94	123.94	124.94	125.94
Area	2.95	5.13	6.69	8.88	14.25	16.31
Elev	126.94	127.94	128.94	129.94	130.94	131.94
Area	19.12	35.93	41.71	46.65	50.91	55.62
Elev	132.94	133.94	134.94	135.94	136.94	137.94
Area	60.29	68.02	75.73	90.68	100.16	107.97
Elev	138.94	139.94	140.94	141.94	142.94	143.94

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Node Element Data

Area	115.46	126.35	138.54	158.76	187.29	239.15
Elev	144.94	145.94	146.94	147.94	148.94	149.94
Area	288.68	319.98	345.02	388.28	418.75	449.69
Elev	150.94	151.94	152.94	153.94	154.94	155.94
Area	472.48	483.06	488.57	492.53	496.54	499.88
Elev	156.94	157.94	158.94	159.94	160.94	161.94
Area	502.73	505.11	507.15	509.01	510.66	512.2
Elev	162.94	163.94	164.94	165.94	166.94	167.94
Area	513.59	514.78	515.88	516.84	517.68	518.44
Elev	168.94	169.94	170.94	171.94	172.94	173.94
Area	519.12	519.72	520.24	520.69	521.08	521.43
Elev	174.94	175.94	176.94	177.94	178.94	179.94
Area	521.7	521.94	522.15	522.32	522.45	522.56
Elev	180.94	181.94	182.94	183.94	184.94	185.94
Area	522.63	522.67	522.7	522.71	522.73	522.74
Elev	186.94	187.94	188.94	189.94	190.94	191.94
Area	522.75	522.76	522.76	522.77	522.77	522.78
Elev	192.94	193.94	194.94			
Area	522.79	522.79	522.79			

	Node Type	Bottom Elev	Initial Elev	Flood Elev
WET10	Lake	132.56	138	132.56

Elev	132.56	133.56	134.56	135.56	136.56	137.56
Area	0.04	0.28	0.93	1.49	2.42	5.68
Elev	138.56	139.56	140.56	141.56	142.56	143.56
Area	18.88	31.07	39.17	48.48	59.71	69.7
Elev	144.56	145.56	146.56	147.56	148.56	149.56
Area	78.29	83.01	85.46	86.92	88.05	89.01
Elev	150.56	151.56	152.56	153.56	154.56	155.56
Area	89.87	90.24	90.46	90.5	90.54	90.55
Elev	156.56	157.56				
Area	90.57	90.58				

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Node Element Data

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NC037	Lake	136.5	138	136.5

Elev	136.5	139.96	140.96	141.96	142.96	143.96
Area	0.13	0.53	1.12	2.22	3.78	5.88
Elev	144.96	145.96				
Area	7.7	7.71				

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NC035	Lake	134.32	137.3	134.32

Elev	134.32	135.32	136.32	137.32	138.32	139.32
Area	0.07	0.27	0.45	0.66	3.34	5.87
Elev	140.32	141.32	142.32	143.32	144.32	145.32
Area	9.5	15.63	21.37	27.16	30.5	32.1
Elev	146.32	147.32	148.32	149.32		
Area	32.86	33.09	33.13	33.14		

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NC033	Lake	136.7	138.12	136.7

Elev	136.7	139.32	140.32	141.32	142.32	143.32
Area	0.11	0.43	1.39	4.08	7.98	14.56
Elev	144.32	145.32	146.32			
Area	19.18	21.58	21.69			

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NC031	Lake	136.7	138.12	136.7

Elev	136.7	139.12	140.12	141.12	142.12	143.12
Area	0.33	1.07	2.82	7.19	13.51	25.09
Elev	144.12	145.12	146.12	147.12		
Area	33.6	38.41	39.01	39.05		

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NC029	Lake	137.52	141.6	137.52

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Node Element Data

Elev	137.52	138.52	139.52	140.52	141.52	142.52
Area	1.63	2.22	3.35	5.28	8.13	13.16
Elev	143.52	144.52	145.52	146.52	147.52	148.52
Area	25.97	42.04	53.86	60.25	67.08	70.75
Elev	149.52	150.52	151.52	152.52	153.52	154.52
Area	72.16	72.7	72.8	72.86	72.89	72.9

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NC028	Lake	132.7	132.7	132.7

Elev	132.7	133.59	134.59	135.59	136.59	137.59
Area	0.01	0.13	0.83	2.49	4.7	7.34
Elev	138.59	139.59	140.59	141.59		
Area	8.44	8.9	9.07	9.11		

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NC027	Lake	129.49	129.49	129.49

Elev	129.49	130.49	131.49	132.49	133.49	134.49
Area	0.15	0.53	1.21	2.22	5.75	11.26
Elev	135.49	136.49	137.49	138.49	139.49	140.49
Area	16.99	21.97	25.4	27.03	27.82	28.42
Elev	141.49					
Area	28.62					

	Node Type	Bottom Elev	Initial Elev	Flood Elev
WET4	Lake	128.68	129.68	128.68

Elev	128.68	129.68	130.68	131.68	132.68	133.68
Area	0.96	1.24	8.86	19.64	39.01	58.09
Elev	134.68	135.68	136.68	137.68	138.68	139.68
Area	79.8	94.99	104.08	109.01	112.13	114.71
Elev	140.68	141.68	142.68	143.68	144.68	145.68
Area	116.67	117.75	118.55	119.13	119.17	119.2
Elev	146.68	147.68	148.68	149.68	150.68	
Area	119.22	119.24	119.26	119.27	119.27	

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Node Element Data

WET3

Node Type	Bottom Elev	Initial Elev	Flood Elev
Lake	128.65	131.5	128.65

Elev	128.65	129.65	130.65	131.65	132.65	133.65
Area	1.54	58.45	104.21	133.56	169.87	224.11
Elev	134.65	135.65	136.65	137.65	138.65	139.65
Area	284.41	317.22	338.68	350.23	357.9	363.59
Elev	140.65	141.65	142.65	143.65	144.65	145.65
Area	366.97	368.91	369.96	370.47	370.65	370.77
Elev	146.65	147.65	148.65	149.65		
Area	370.81	370.82	370.83	370.84		

NC050

Node Type	Bottom Elev	Initial Elev	Flood Elev
Lake	130	130.1	130

Elev	130	133.05	134.05	135.05	136.05	137.05
Area	0.01	0.42	1.31	2.23	3.98	4.21
Elev	138.05	139.05				
Area	4.29	4.3				

NS115

Node Type	Bottom Elev	Initial Elev	Flood Elev
Lake	130	130.1	130

Elev	130	132.67	133.67	134.67	135.67	136.67
Area	0.01	0.07	1.8	3.37	5.56	7.2
Elev	137.67	138.67	139.67	140.67	141.67	142.67
Area	7.86	8.37	10.1	11.84	14.44	16.24
Elev	143.67	144.67	145.67	146.67		
Area	16.32	16.35	16.36	16.36		

NS135

Node Type	Bottom Elev	Initial Elev	Flood Elev
Lake	123	126	123

Elev	123	125	126	127	128	129
Area	0.04	28.66	32.85	35.76	37.88	41.53
Elev	130	131	132	133	134	135
Area	45.04	51.41	56.56	60.91	66.13	79.29

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Node Element Data

Elev	136	137	138	139	140	141
Area	88.57	94.46	96.27	98.36	100.52	100.84
Elev	142	143	144			
Area	100.86	100.87	100.88			

	Node Type	Bottom Elev	Initial Elev	Flood Elev
WET11	Lake	111.04	114.04	111.04

Elev	111.04	112.04	113.04	114.04	115.04	116.04
Area	0.03	0.14	0.78	19.05	50.62	80.1
Elev	117.04	118.04	119.04	120.04	121.04	122.04
Area	180.91	288.43	420.38	544.23	676.08	868.23
Elev	123.04	124.04	125.04	126.04	127.04	128.04
Area	1162.96	1515.14	1690.72	1857.39	2078.77	2474.11
Elev	129.04	130.04	131.04	132.04	133.04	134.04
Area	3369.38	3459.48	3506.13	3543.62	3568.84	3591.93
Elev	135.04	136.04	137.04	138.04	139.04	140.04
Area	3593.4	3595.19	3596.61	3597.41	3597.44	3597.47
Elev	141.04	142.04	143.04			
Area	3597.49	3597.51	3597.52			

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NR060	Lake	116.38	116.38	116.38

Elev	116.38	117.38	118.38	119.38	120.38	121.38
Area	0.07	0.32	2.1	13.78	41.98	80.53
Elev	122.38	123.38	124.38	125.38	126.38	127.38
Area	140	407.28	766.5	1139.77	1681.32	2476.33
Elev	128.38	129.38	130.38	131.38	132.38	133.38
Area	3695.39	3983.13	4132.41	4217.95	4284.69	4337.31
Elev	134.38	135.38	136.38	137.38	138.38	139.38
Area	4366.69	4381.05	4391.54	4400.14	4406.54	4412.54
Elev	140.38	141.38				
Area	4414.43	4414.46				

	Node Type	Bottom Elev	Initial Elev	Flood Elev

PCS DAMBREAK SA10V

Node Element Data

WET8

Lake		120		124		120
Elev	120	121	122	123	124	125
Area	7.09	13.73	28.17	43.67	54.19	62.82
Elev	126	127	128	129	130	131
Area	74.58	87.54	104.42	249.6	265.4	278.66
Elev	132	133	134	135	136	137
Area	289.8	301.53	305.06	306.4	307.16	307.46
Elev	138	139	140	141	142	143
Area	307.71	307.83	307.91	307.94	307.96	307.98
Elev	144	145	146	147	148	149
Area	308	308.02	308.03	308.04	308.05	308.06
Elev	150	151	152			
Area	308.08	308.09	308.1			

CS1

Node Type		Bottom Elev		Initial Elev		Flood Elev
Lake		122		123		122
Elev	122	123	124	125	126	127
Area	9.3	30.31	60.5	109.34	183.82	335.54
Elev	128	129	130	131	132	133
Area	1352.96	4314.16	4541.52	4678.68	4818.2	5032.42
Elev	134	135	136	137	138	139
Area	5299.59	5369.89	5399.6	5421.71	5431.33	5434.91
Elev	140	141	142			
Area	5439.63	5441.61	5443.39			

CS3

Node Type		Bottom Elev		Initial Elev		Flood Elev
Lake		121.54		123		121.54
Elev	121.54	122.54	123.54	124.54	125.54	126.54
Area	3.23	25.29	1542.04	1965.69	2339.56	2794.34
Elev	127.54	128.54	129.54	130.54	131.54	132.54
Area	3598.96	7406.33	7664.98	7838.83	8003.07	8247.91
Elev	133.54	134.54	135.54	136.54	137.54	138.54
Area	9385.64	9851.75	10237.78	10740.76	11280.89	13413.98

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Node Element Data

Elev	139.54	140.54	141.54	142.54	143.54	144.54
Area	13721.36	13905.63	14081.36	14276.54	14414.96	14489.86
Elev	145.54	146.54	147.54	148.54	149.54	150.54
Area	14518.63	14532.36	14545.03	14556.5	14562.29	14564.31
Elev	151.54	152.54				
Area	14564.51	14564.54				

	Node Type	Bottom Elev	Initial Elev	Flood Elev
CS5	Lake	120.95	127	120.95

Elev	120.95	121.95	122.95	123.95	124.95	125.95
Area	0.07	59.99	143.77	220.83	331.96	467.8
Elev	126.95	127.95	128.95	129.95	130.95	131.95
Area	681.19	918.56	1477.25	1598.58	1661.63	1711.72
Elev	132.95	133.95	134.95	135.95	136.95	137.95
Area	1759.74	1801	1830.65	1856.59	1880.58	1895.54
Elev	138.95	139.95	140.95	141.95	142.95	143.95
Area	1899.55	1901.7	1901.93	1901.93	1902.99	1904.55

	Node Type	Bottom Elev	Initial Elev	Flood Elev
SPond	Lake	113.14	124.4	113.14

Elev	113.14	114.14	115.14	116.14	117.14	118.14
Area	5.34	10.36	16.44	35.37	70.36	121.76
Elev	119.14	120.14	121.14	122.14	123.14	124.14
Area	283.22	347.99	385.43	416.86	443.69	479.16
Elev	125.14	126.14	127.14	128.14	129.14	130.14
Area	514.96	547.71	576.7	604.82	640.48	679.91
Elev	131.14	132.14	133.14	134.14	135.14	136.14
Area	720.46	765.04	808.67	846.44	868.91	883.94
Elev	137.14	138.14	139.14	140.14	141.14	142.14
Area	904.32	923.3	947.39	967.32	977.09	980.45
Elev	143.14	144.14	145.14	146.14	147.14	
Area	982.93	985.5	987.5	987.5	988.24	

PCS DAMBREAK SA10V

Node Element Data

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NB062	Channel	115.17	120.6	115.17

Elev	115.17	116.17	117.17	118.17	119.17	120.17
Area	0.14	0.61	1.54	3.65	9.86	19.75
Elev	121.17	122.17	123.17	124.17	125.17	126.17
Area	28.29	36.62	46.7	57.99	70.53	83.77
Elev	127.17	128.17	129.17	130.17	131.17	132.17
Area	90.39	94.11	97.92	101.21	104.66	106
Elev	133.17					
Area	106.1					

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NB061	Channel	115.5	115.6	115.5

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NB060	Channel	115	115.1	115

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NB050	Channel	109	109.1	109

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NB030	Channel	108.45	108.55	108.45

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NB020	Channel	104.5	104.6	104.5

No area relation associated with this node

Node Type	Bottom Elev	Initial Elev	Flood Elev

PCS DAMBREAK SA10V

Node Element Data

NB010	Lake	102.62	103	102.62

Elev	102.62	116.5					
Area	0.01	0.01					

	Node Type	Bottom Elev	Initial Elev	Flood Elev
TWB	Tailwater	102	102	102

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NB065	Lake	118.02	125.8	118.02

Elev	118.02	119.02	120.02	121.02	122.02	123.02
Area	0.01	3.11	11.1	22.22	35.15	45.48
Elev	124.02	125.02	126.02	127.02	128.02	129.02
Area	52.76	58.77	65.4	71.88	79.02	86.19
Elev	130.02	131.02	132.02	133.02	134.02	135.02
Area	92.23	99.8	112.28	124.96	140.19	158.23
Elev	136.02	137.02	138.02	139.02	140.02	141.02
Area	181.11	211.46	243.37	261.31	274.53	276.66
Elev	142.02	143.02	144.02	145.02	146.02	
Area	276.67	276.67	276.67	276.67	276.94	

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS150	Lake	117.94	124	117.94

Elev	117.94	118.94	119.94	120.94	121.94	122.94
Area	0.15	0.21	0.77	9.72	75.05	134.06
Elev	123.94	124.94	125.94	126.94	127.94	128.94
Area	175.14	206.6	230.48	248.6	286.13	335.61
Elev	129.94	130.94	131.94	132.94	133.94	
Area	378.59	416.03	439.82	457.26	470.37	

	Node Type	Bottom Elev	Initial Elev	Flood Elev
CS2	Lake	122	124	122

Elev	122	123.88	124.88	125.88	126.88	127.88

PCS DAMBREAK SA10V

Node Element Data

Area	0.01	1.39	2.73	19.37	95.55	689.01
Elev	128.88	129.88	130.88	131.88	132.88	133.88
Area	3646.92	3996.2	4132.32	4236.01	4346.1	4471.11
Elev	134.88	135.88	136.88	137.88	138.88	139.88
Area	4497.43	4503.95	4506.99	4510.51	4513.72	4516.41
Elev	140.88	141.88	142.88	143.88	144.88	145.88
Area	4517.89	4519.32	4520.64	4521.84	4522.65	4524.19
Elev	146.88					
Area	4525.1					

	Node Type	Bottom Elev	Initial Elev	Flood Elev
BC2	Lake	126.69	129	126.69

Elev	126.69	127.69	128.69	129.69	130.69	131.69
Area	9.05	124.17	497.08	675.39	822.22	940.27
Elev	132.69	133.69	134.69	135.69	136.69	137.69
Area	1031.21	1280.06	1369.6	1398.23	1415.6	1422.49
Elev	138.69	139.69				
Area	1424.41	1425.96				

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NB070	Lake	117.75	122	117.75

Elev	117.75	118.75	119.75	120.75	121.75	122.75
Area	0.1	0.96	4.45	11.17	29.57	64.15
Elev	123.75	124.75	125.75	126.75	127.75	128.75
Area	121	209.04	343.16	488.52	619.98	695.47
Elev	129.75	130.75	131.75	132.75	133.75	134.75
Area	750.47	815.35	890.99	939.45	998.86	1019.39
Elev	135.75	136.75	137.75	138.75		
Area	1034.01	1042.03	1046.53	1047.98		

	Node Type	Bottom Elev	Initial Elev	Flood Elev
BC11	Lake	130.18	137	130.18

PCS DAMBREAK SA10V

Node Element Data

Elev	130.18	131.18	132.18	133.18	134.18	135.18
Area	0.12	0.52	4.98	32.54	110.42	139.67
Elev	136.18	137.18	138.18	139.18	140.18	141.18
Area	154.79	180.36	258.68	328.06	340.97	356.28
Elev	142.18	143.18	144.18	145.18	146.18	147.18
Area	391.41	427.01	449.69	456.12	459.09	459.93
Elev	148.18	149.18	150.18	151.18	152.18	153.18
Area	460.44	460.87	461.18	461.26	461.29	461.31
Elev	154.18	155.18				
Area	461.32	461.34				

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NB064	Channel	118	118.1	118

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NB040	Channel	109.25	109.35	109.25

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
RPond	Lake	110.06	115.7	110.06

Elev	110.06	111.06	112.06	113.06	114.06	115.06
Area	0.08	0.19	0.34	0.82	6.07	181.9
Elev	116.06	117.06	118.06	119.06	120.06	121.06
Area	224.97	258.97	286.01	311.14	333.22	353.04
Elev	122.06	123.06	124.06	125.06	126.06	127.06
Area	374.39	394.94	416.64	443.8	469.97	495.4
Elev	128.06	129.06	130.06	131.06	132.06	133.06
Area	523.63	552.62	577.84	601.45	628.2	647.38
Elev	134.06	135.06	136.06	137.06	138.06	139.06
Area	659.41	668.42	676.68	687.71	695.73	703.26
Elev	140.06	141.06	142.06	143.06	144.06	145.06
Area	712.78	724.61	735.05	746.72	756.82	763.41

PCS DAMBREAK SA10V

Node Element Data

Elev	146.06	147.06	148.06	149.06	150.06	151.06
Area	765.49	768.26	770.7	773.24	774.73	776.39
Elev	152.06	153.06	154.06	155.06	156.06	
Area	778.02	780.31	782.34	783.09	783.21	

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NB080	Lake	125	125	125

Elev	125	126.87	127.87	128.87	129.87	130.87
Area	0.65	11.11	18.88	32.15	48.09	63.22
Elev	131.87	132.87	133.87	134.87	135.87	136.87
Area	78.15	96.07	113.79	132.01	149.97	168.04
Elev	137.87	138.87	139.87	140.87	141.87	142.87
Area	186.7	206.88	231.88	259.52	291.99	326.57
Elev	143.87	144.87	145.87	146.87	147.87	148.87
Area	359.46	397.83	444.07	504.93	579.63	642.98
Elev	149.87	150.87	151.87	152.87	153.87	154.87
Area	674.6	689.95	694.65	694.84	694.84	694.84

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NB078	Lake	123.44	123.44	123.44

Elev	123.44	124.44	125.44	126.44	127.44	128.44
Area	12.06	16.05	23.79	34.12	44.71	54.07
Elev	129.44	130.44	131.44	132.44	133.44	134.44
Area	59.01	64.27	67.81	69.63	71.2	73.21
Elev	135.44	136.44	137.44	138.44	139.44	140.44
Area	76.27	80.82	87.51	94.45	102.18	105.13
Elev	141.44	142.44	143.44	144.44		
Area	106.42	107.47	107.85	107.89		

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NB076	Lake	120.49	124.5	120.49

Elev	120.49	121.49	122.49	123.49	124.49	125.49
Area	3.12	4.43	9.54	16.39	24.41	34.07

PCS DAMBREAK SA10V

Node Element Data

Elev	126.49	127.49	128.49	129.49	130.49	131.49
Area	42.34	51.55	69.33	86.77	102.27	117.64
Elev	132.49	133.49	134.49	135.49	136.49	137.49
Area	133.03	148.79	163.31	175.52	186.47	199.29
Elev	138.49	139.49	140.49	141.49	142.49	143.49
Area	209.76	217.23	223.02	228.22	235.95	237.24
Elev	144.49					
Area	237.37					

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS035	Lake	117	117.1	117

Elev	117	119.2	120.2	121.2	122.2	123.2
Area	0.01	25.7	29.47	31.97	37.74	42.31
Elev	124.2	125.2	126.2	127.2	128.2	129.2
Area	45.58	51.3	58.91	68.32	76.42	85.33
Elev	130.2	131.2	132.2	133.2	134.2	135.2
Area	94.27	98.81	102.49	105.04	107.13	108.75
Elev	136.2	137.2	138.2	139.2	140.2	141.2
Area	109.67	110.38	110.98	111.48	111.78	111.93
Elev	142.2	143.2	144.2	145.2	146.2	147.2
Area	112.03	112.06	112.11	112.15	112.18	112.22
Elev	148.2					
Area	112.25					

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS073	Lake	123.76	125	123.76

Elev	123.76	124.76	125.76	126.76	127.76	128.76
Area	107.05	114.76	129.5	140.79	152	163.61
Elev	129.76	130.76	131.76	132.76	133.76	134.76
Area	174.67	186.72	204.78	219.04	229.57	234.67
Elev	135.76	136.76	137.76	138.76	139.76	140.76
Area	237.24	239.22	240.87	242.43	243.74	245.08
Elev	141.76	142.76	143.76	144.76	145.76	146.76

PCS DAMBREAK SA10V

Node Element Data

Area	246.1	246.99	247.76	248.49	249.22	249.9
Elev	147.76	148.76	149.76	150.76	151.76	152.76
Area	250.61	251.28	251.8	252.27	252.71	253.13
Elev	153.76	154.76	155.76	156.76	157.76	158.76
Area	253.51	253.82	254.1	254.33	254.52	254.68
Elev	159.76	160.76	161.76	162.76	163.76	164.76
Area	254.83	254.92	255.01	255.07	255.13	255.17
Elev	165.76	166.76	167.76	168.76	169.76	170.76
Area	255.2	255.22	255.24	255.26	255.28	255.29
Elev	171.76	172.76	173.76			
Area	255.29	255.29	255.29			

NC040

Node Type	Bottom Elev	Initial Elev	Flood Elev
Lake	139.5	139.5	139.5

Elev	139.5	141.82	142.82	143.82	144.82	145.82
Area	0.11	0.87	1.52	2.38	2.92	2.98
Elev	146.82	147.82	148.82			
Area	3.02	3.03	3.03			

NCB5

Node Type	Bottom Elev	Initial Elev	Flood Elev
Channel	85	88	85

No area relation associated with this node

TWC

Node Type	Bottom Elev	Initial Elev	Flood Elev
Tailwater	85	88	85

No area relation associated with this node

NS020

Node Type	Bottom Elev	Initial Elev	Flood Elev
Lake	109	113	109

Elev	109	999
Area	0.01	0.01

PCS DAMBREAK SA10V

Node Element Data

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS128	Lake	129.27	131.1	129.27

Elev	129.27	130.27	131.27	132.27	133.27	134.27
Area	0.03	0.18	0.42	0.69	1.28	2.17
Elev	135.27	136.27	137.27	138.27	139.27	140.27
Area	4.22	7.63	10.26	12.21	13.07	13.64
Elev	141.27	142.27	143.27	144.27	145.27	146.27
Area	13.95	14.22	14.43	14.56	14.69	14.79
Elev	147.27	148.27	149.27	150.27	151.27	152.27
Area	14.88	14.99	15.07	15.13	15.18	15.21
Elev	153.27	154.27	155.27	156.27	157.27	158.27
Area	15.23	15.26	15.28	15.29	15.31	15.32
Elev	159.27	160.27	161.27	162.27	163.27	164.27
Area	15.32	15.32	15.32	15.32	15.32	15.32
Elev	165.27	166.27	167.27	168.27	169.27	170.27
Area	15.32	15.32	15.32	15.32	15.32	15.32
Elev	171.27	172.27	173.27	174.27		
Area	15.32	15.32	15.32	15.33		

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS127	Lake	129.94	129.94	129.94

Elev	129.94	130.94	131.94	132.94	133.94	134.94
Area	0.02	0.09	0.24	0.79	2.1	4.02
Elev	135.94	136.94	137.94	138.94		
Area	7.91	10.63	10.8	10.8		

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS126	Lake	131	131.29	131

Elev	131	132.29	133.29	134.29	135.29	136.29
Area	0.12	0.68	1.98	7.87	15.51	25.62
Elev	137.29	138.29	139.29	140.29	141.29	142.29
Area	36.96	43.71	48.07	50.62	53.28	55.81
Elev	143.29	144.29	145.29	146.29	147.29	148.29

PCS DAMBREAK SA10V

Node Element Data

Area	58.03	59.19	60.05	60.58	60.89	60.92
Elev	149.29	150.29				
Area	60.93	60.94				

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS114	Lake	131.5	134.33	131.5

Elev	131.5	135.33	136.33	137.33	138.33	139.33
Area	0.06	0.55	1.46	4.55	9.1	14.82
Elev	140.33	141.33	142.33	143.33	144.33	
Area	19.57	23.68	25.98	27.15	27.34	

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS30	Channel	55	76	55

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NB005	Lake	102	102	102

Elev	102	115
Area	0.01	0.01

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NR005	Channel	79	79.1	79

No area relation associated with this node

	Node Type	Bottom Elev	Initial Elev	Flood Elev
NS170	Lake	124	124	124

Elev	124	125	126	127	128	129
Area	1.47	3.76	8.69	14.49	20.15	27.62
Elev	130	131	132	133	134	135
Area	34.73	40.71	44.57	48.83	54.94	61.32
Elev	136	137	138	139	140	141
Area	71.67	86.87	95.82	101.62	101.82	101.95

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Node Element Data

Elev	142	143	144	145	146	147
Area	102.1	102.23	102.31	102.45	102.54	102.57
Elev	148	149	150	151	152	153
Area	102.59	102.62	102.65	102.68	102.71	102.76
Elev	154	155	156			
Area	102.77	102.78	102.82			

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Reach Element Data

	From Node	To Node	Initial Flow	# Elements
RS15S16	NS15	NS16	0	1

Element #1 :	Unsteady Open Channel			Section	XSECSC15	
Length (ft)	1800	Velocity Coef	1			

	From Node	To Node	Initial Flow	# Elements
RS13S14	NS13	NS14	0	2

Element #1 :	Bridge			Section	SEC41RR	
Length (ft)	16	US Inv (ft)	87.7	DS Inv (ft)	87.5	
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels	1	
Element #2 :	Rectangular Broad Crested Weir					
Length (ft)	500	Height (ft)	9999	Exponent	1.5	
Crest El (ft)	110.45	Cd	2.4	Number Weirs	1	

	From Node	To Node	Initial Flow	# Elements
RS12S13	NS12	NS13	0	1

Element #1 :	Unsteady Open Channel			Section	XSECT12	
Length (ft)	2000	Velocity Coef	1			

	From Node	To Node	Initial Flow	# Elements
RS11S12	NS11	NS12	0	3

Element #1 :	Bridge			Section	XCHURCH	
Length (ft)	15	US Inv (ft)	91	DS Inv (ft)	90	
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels	1	
Element #2 :	Rectangular Broad Crested Weir					
Length (ft)	300	Height (ft)	9999	Exponent	1.5	
Crest El (ft)	100	Cd	2.8	Number Weirs	1	
Element #3 :	Rectangular Broad Crested Weir					
Length (ft)	200	Height (ft)	9999	Exponent	1.5	
Crest El (ft)	100.7	Cd	2.8	Number Weirs	1	

	From Node	To Node	Initial Flow	# Elements
RSC9SC10	NSC9	NSC10	0	1

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Reach Element Data

	Element #1 :	Unsteady Open Channel		Section	XSECTSC1
	Length (ft) 4000	Velocity Coef	1		

	From Node	To Node	Initial Flow	# Elements
RS005	NS005	NSC9	0	3

	Element #1 :	Bridge		Section	Box10X10
	Length (ft) 50	US Inv (ft)	103	DS Inv (ft)	103
	Velocity Coef 1	Ent Loss Coef	0.5	Number Barrels	4
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft) 400	Height (ft)	9999	Exponent	1.5
	Crest El (ft) 110	Cd	2.4	Number Weirs	1
	Element #3 :	Rectangular Broad Crested Weir			
	Length (ft) 200	Height (ft)	9999	Exponent	1.5
	Crest El (ft) 113	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS041	NS041	NS040	0	1

	Element #1 :	Unsteady Open Channel		Section	RS041
	Length (ft) 1060	Velocity Coef	1		

	From Node	To Node	Initial Flow	# Elements
RS042	NS042	NS041	0	1

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft) 300	Height (ft)	9999	Exponent	1.5
	Crest El (ft) 120	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS043	NS043	NS042	0	1

	Element #1 :	Unsteady Open Channel		Section	RS043
	Length (ft) 1800	Velocity Coef	1		

	From Node	To Node	Initial Flow	# Elements
RS044	NS044	NS043	0	2

PCS DAMBREAK SA10V

Reach Element Data

	Element #1 :	Circular Culvert			
	Length (ft) 88	Rise (in)	36	Flap gate	NO
	US Inv (ft) 113	DS Inv (ft)	113	Manning's n	0.024
	Velocity Coef 1	Ent Loss Coef	0.5	Number Barrels	1
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft) 100	Height (ft)	9999	Exponent	1.5
	Crest El (f127.5	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS045	NS045	NS044	0	1

	Element #1 :	Unsteady Open Channel		Section	RS045
	Length (ft) 1370	Velocity Coef	1		

	From Node	To Node	Initial Flow	# Elements
RS046	NS046	NS045	0	2

	Element #1 :	Circular Culvert			
	Length (ft) 60	Rise (in)	24	Flap gate	NO
	US Inv (ft) 117	DS Inv (ft)	117	Manning's n	0.024
	Velocity Coef 1	Ent Loss Coef	0.5	Number Barrels	1
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft) 60	Height (ft)	9999	Exponent	1.5
	Crest El (f126.5	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS047	NS047	NS046	0	1

	Element #1 :	Unsteady Open Channel		Section	RS047
	Length (ft) 1670	Velocity Coef	1		

	From Node	To Node	Initial Flow	# Elements
RS048	NS048	NS047	0	1

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft) 300	Height (ft)	9999	Exponent	1.5
	Crest El (ft) 126	Cd	2.4	Number Weirs	1

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Reach Element Data

	From Node	To Node	Initial Flow	# Elements
RS049	NS049	NS048	0	1

Element #1 :	Unsteady Open Channel	Section	RS049
Length (ft) 6830	Velocity Coef 1		

	From Node	To Node	Initial Flow	# Elements
RCB3CB4	NCB3	NCB4	0	2

Element #1 :	Bridge	Section	BOX10X12
Length (ft) 188	US Inv (ft) 88	DS Inv (ft)	87.5
Velocity Coef 1	Ent Loss Coef 0.5	Number Barrels	2
Element #2 :	Rectangular Broad Crested Weir		
Length (ft) 750	Height (ft) 9999	Exponent	1.5
Crest El (f109.6	Cd 2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RCB2CB3	NCB2	NCB3	0	1

Element #1 :	Unsteady Open Channel	Section	SECTCB2
Length (ft) 3300	Velocity Coef 1		

	From Node	To Node	Initial Flow	# Elements
RCBRCB1	NCBR	NCB1	0	3

Element #1 :	Bridge	Section	9x5Box
Length (ft) 32	US Inv (ft) 114.7	DS Inv (ft)	114
Velocity Coef 1	Ent Loss Coef 0.5	Number Barrels	3
Element #2 :	Rectangular Broad Crested Weir		
Length (ft) 400	Height (ft) 9999	Exponent	1.5
Crest El (ft) 123	Cd 2.8	Number Weirs	1
Element #3 :	V-Notched Broad Crested Weir		
Length (ft) 950	Height (ft) 4	Exponent	2.5
Crest El (ft) 123	Cd 2.8	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RC010	NC010	NCBR	0	1

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Reach Element Data

	Element #1 :	Unsteady Open Channel		Section	RC010
	Length (ft)	4660	Velocity Coef	1	

	From Node	To Node	Initial Flow	# Elements
RC015	NC015	NC010	0	2

	Element #1 :	Bridge		Section	Box4x13
	Length (ft)	68	US Inv (ft)	115	DS Inv (ft)	115
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels	1
	Element #2 :	Rectangular Broad Crested Weir				
	Length (ft)	1000	Height (ft)	9999	Exponent	1.5
	Crest El (ft)	122	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RC017	NC017	NC016	0	1

	Element #1 :	Unsteady Open Channel		Section	RC017
	Length (ft)	3040	Velocity Coef	1	

	From Node	To Node	Initial Flow	# Elements
RC018	NC018	NC017	0	2

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft)	50	Height (ft)	9999	Exponent	1.5
	Crest El (f	130.5	Cd	2.4	Number Weirs	1
	Element #2 :	Rectangular Broad Crested Weir				
	Length (ft)	130	Height (ft)	9999	Exponent	1.5
	Crest El (ft)	132	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RC019	NC019	NC018	0	1

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft)	1000	Height (ft)	9999	Exponent	1.5
	Crest El (f	139.6	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS131	NS131	NS130	0	1

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Reach Element Data

	Element #1 :	Unsteady Open Channel		Section	RS131
	Length (ft) 2235	Velocity Coef	1		

	From Node	To Node	Initial Flow	# Elements
RS130A	NS130	NS120	0	2

	Element #1 :	Circular Culvert			
	Length (ft) 70	Rise (in)	36	Flap gate	NO
	US Inv (f128.16	DS Inv (ft)	128	Manning's n	0.024
	Velocity Coef 1	Ent Loss Coef	0.5	Number Barrels	1
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft) 60	Height (ft)	9999	Exponent	1.5
	Crest El (ft) 137	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS120B	NS120	NS117	0	1

	Element #1 :	Unsteady Open Channel		Section	RS120B
	Length (ft) 1950	Velocity Coef	1		

	From Node	To Node	Initial Flow	# Elements
RS117	NS117	NS116	0	2

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft) 150	Height (ft)	9999	Exponent	1.5
	Crest El (f137.7	Cd	2.4	Number Weirs	1
	Element #2 :	Circular Culvert			
	Length (ft) 70	Rise (in)	30	Flap gate	NO
	US Inv (ft) 130	DS Inv (ft)	130	Manning's n	0.01
	Velocity Coef 1	Ent Loss Coef	0.5	Number Barrels	1

	From Node	To Node	Initial Flow	# Elements
RS078	NS078	SWC34	0	3

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft) 20	Height (ft)	9999	Exponent	1.5
	Crest El (f115.3	Cd	2.4	Number Weirs	1

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Reach Element Data

	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft) 40	Height (ft)	9999	Exponent	1.5
	Crest El (f117.6	Cd	2.4	Number Weirs	1
	Element #3 :	Rectangular Broad Crested Weir			
	Length (ft) 80	Height (ft)	9999	Exponent	1.5
	Crest El (ft) 131	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS108	NS108	NS105	0	2

	Element #1 :	Circular Culvert			
	Length (ft) 80	Rise (in)	72	Flap gate	NO
	US Inv (ft)124.5	DS Inv (ft)	124.5	Manning's n	0.024
	Velocity Coef 1	Ent Loss Coef	0.5	Number Barrels	1
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft) 800	Height (ft)	9999	Exponent	1.5
	Crest El (f138.5	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS109	NS109	NS108	0	3

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft) 150	Height (ft)	9999	Exponent	1.5
	Crest El (f139.4	Cd	2.4	Number Weirs	1
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft) 200	Height (ft)	9999	Exponent	1.5
	Crest El (ft) 140	Cd	2.4	Number Weirs	1
	Element #3 :	Rectangular Broad Crested Weir			
	Length (ft) 200	Height (ft)	9999	Exponent	1.5
	Crest El (ft) 142	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS113	NS113	NS112	0	2

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft) 150	Height (ft)	9999	Exponent	1.5
	Crest El (f137.9	Cd	2.4	Number Weirs	1

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Reach Element Data

	Element #2 :	Circular Culvert			
	Length (ft) 80	Rise (in)	36	Flap gate	NO
	US Inv (ft) 132	DS Inv (ft)	132	Manning's n	0.1
	Velocity Coef 1	Ent Loss Coef	0.5	Number Barrels	1

	From Node	To Node	Initial Flow	# Elements
RS112A	NS112	NS111	0	1

	Element #1 :	Unsteady Open Channel		Section	RS112A
	Length (ft) 6960	Velocity Coef	1		

	From Node	To Node	Initial Flow	# Elements
RS111	NS111	NS110	0	3

	Element #1 :	Circular Culvert			
	Length (ft) 60	Rise (in)	36	Flap gate	NO
	US Inv (ft)132.1	DS Inv (ft)	132.1	Manning's n	0.024
	Velocity Coef 1	Ent Loss Coef	0.5	Number Barrels	1
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft) 100	Height (ft)	9999	Exponent	1.5
	Crest El (ft) 136	Cd	2.4	Number Weirs	1
	Element #3 :	Rectangular Broad Crested Weir			
	Length (ft) 80	Height (ft)	9999	Exponent	1.5
	Crest El (f136.5	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS110	NS110	NS109	0	1

	Element #1 :	Unsteady Open Channel		Section	RS110
	Length (ft) 7570	Velocity Coef	1		

	From Node	To Node	Initial Flow	# Elements
RS18S19	NS18	NS19	0	4

	Element #1 :	Bridge		Section	SECRIVRD
	Length (ft) 34	US Inv (ft)	60	DS Inv (ft)	59
	Velocity Coef 1	Ent Loss Coef	0.5	Number Barrels	1
	Element #2 :	Rectangular Broad Crested Weir			

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Reach Element Data

	Length (ft)	500	Height (ft)	9999	Exponent 1.5
	Crest El (f	83.55	Cd	2.8	Number Weirs 1
	Element #3 :		Rectangular Broad Crested Weir		
	Length (ft)	100	Height (ft)	9999	Exponent 1.5
	Crest El (ft)	84.5	Cd	2.8	Number Weirs 1
	Element #4 :		Rectangular Broad Crested Weir		
	Length (ft)	200	Height (ft)	9999	Exponent 1.5
	Crest El (ft)	85.6	Cd	2.8	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RS14S15	NS14	NS15	0	2

	Element #1 :		Bridge		Section SECUS41
	Length (ft)	32	US Inv (ft)	87.5	DS Inv (ft) 87
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Element #2 :		Rectangular Broad Crested Weir		
	Length (ft)	600	Height (ft)	9999	Exponent 1.5
	Crest El (ft)	99.8	Cd	2.8	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RC020	NC020	NC019	0	2

	Element #1 :		Circular Culvert		
	Length (ft)	80	Rise (in)	24	Flap gate NO
	US Inv (ft)	128.7	DS Inv (ft)	128.7	Manning's n 0.024
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Element #2 :		Rectangular Broad Crested Weir		
	Length (ft)	200	Height (ft)	9999	Exponent 1.5
	Crest El (f	135.8	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RS080A	NS080	NS079	0	2

	Element #1 :		Circular Culvert		
	Length (ft)	30	Rise (in)	48	Flap gate NO
	US Inv (ft)	118	DS Inv (ft)	118	Manning's n 0.024
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1

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Reach Element Data

	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft) 200	Height (ft)	9999	Exponent	1.5
	Crest El (ft) 126	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS079	NS079	NS078	0	1

	Element #1 :	Unsteady Open Channel		Section	RS079
	Length (ft10120	Velocity Coef	1		

	From Node	To Node	Initial Flow	# Elements
RS105A	NS105	NS078	0	1

	Element #1 :	Unsteady Open Channel		Section	RS105A
	Length (ft) 3700	Velocity Coef	1		

	From Node	To Node	Initial Flow	# Elements
RS083	NS083	NS081	0	1

	Element #1 :	Unsteady Open Channel		Section	RS083
	Length (ft10732	Velocity Coef	1		

	From Node	To Node	Initial Flow	# Elements
RS084	NS084	NS083	0	2

	Element #1 :	Circular Culvert			
	Length (ft) 120	Rise (in)	36	Flap gate	NO
	US Inv (ft) 132	DS Inv (ft)	132	Manning's n	0.024
	Velocity Coef 1	Ent Loss Coef	0.5	Number Barrels	2
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft) 100	Height (ft)	9999	Exponent	1.5
	Crest El (ft) 139	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS085	NS085	NS084	0	1

	Element #1 :	Unsteady Open Channel		Section	RS085
	Length (ft) 4500	Velocity Coef	1		

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Reach Element Data

	From Node	To Node	Initial Flow	# Elements
RSWC34A	SWC34	SWC31	0	3

Element #1 :	Rectangular Broad Crested Weir				
Length (ft)	100	Height (ft)	9999	Exponent	1.5
Crest El (ft)	120	Cd	2.4	Number Weirs	1
Element #2 :	Rectangular Broad Crested Weir				
Length (ft)	100	Height (ft)	9999	Exponent	1.5
Crest El (ft)	121	Cd	2.4	Number Weirs	1
Element #3 :	Rectangular Broad Crested Weir				
Length (ft)	400	Height (ft)	9999	Exponent	1.5
Crest El (ft)	122	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RC016	NC016	NC015	0	1

Element #1 :	Unsteady Open Channel			Section	RC016
Length (ft)	3040	Velocity Coef	1		

	From Node	To Node	Initial Flow	# Elements
RSC10SC1	NSC10	NS11	0	1

Element #1 :	Unsteady Open Channel			Section	XSECTSC2
Length (ft)	8000	Velocity Coef	1		

	From Node	To Node	Initial Flow	# Elements
RS16S17	NS16	NS17	0	2

Element #1 :	Bridge			Section	SECWUS41
Length (ft)	15	US Inv (ft)	80	DS Inv (ft)	79
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels	1
Element #2 :	Rectangular Broad Crested Weir				
Length (ft)	500	Height (ft)	9999	Exponent	1.5
Crest El (ft)	91.1	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS17S18	NS17	NS18	0	1

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Reach Element Data

	Element #1 :	Unsteady Open Channel	Section	XSECSC17
	Length (ft) 7000	Velocity Coef 1		

	From Node	To Node	Initial Flow	# Elements
RR050	NR050	NR040	0	1

	Element #1 :	Unsteady Open Channel	Section	RR050
	Length (ft) 7714	Velocity Coef 1		

	From Node	To Node	Initial Flow	# Elements
RR040	NR040	NR030	0	2

	Element #1 :	Bridge	Section	Box6x9
	Length (ft) 60	US Inv (ft) 111	DS Inv (ft)	110
	Velocity Coef 1	Ent Loss Coef 0.5	Number Barrels	3
	Element #2 :	Rectangular Broad Crested Weir		
	Length (ft) 500	Height (ft) 999	Exponent	1.5
	Crest El (ft) 124	Cd 2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RR030	NR030	NR020	0	1

	Element #1 :	Unsteady Open Channel	Section	RR030
	Length (ft17100	Velocity Coef 1		

	From Node	To Node	Initial Flow	# Elements
RR020	NR020	NR010	0	2

	Element #1 :	Rectangular Broad Crested Weir		
	Length (ft) 500	Height (ft) 999	Exponent	1.5
	Crest El (ft) 100	Cd 2.4	Number Weirs	1
	Element #2 :	Bridge	Section	Box6x9
	Length (ft) 64	US Inv (ft) 90.1	DS Inv (ft)	88.3
	Velocity Coef 1	Ent Loss Coef 0.5	Number Barrels	4

	From Node	To Node	Initial Flow	# Elements
RS070B	NS070	NS062	0	2

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Reach Element Data

Element #1 :		Bridge		Section	Box5x9
Length (ft)	60	US Inv (ft)	119.8	DS Inv (ft)	119.8
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels	2
Element #2 :		Rectangular Broad Crested Weir			
Length (ft)	1000	Height (ft)	9999	Exponent	1.5
Crest El (f	126.8	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
WEIR2	CSA	NS154	0	1

Element #1 :		Rectangular Broad Crested Weir			
Length (ft)	206	Height (ft)	9999	Exponent	1.5
Variable Crest Elevation				Elev (ft)	Crest El (ft)
Reference				0	156.2
				1	121
				100	121
Cd	2.8	Number Weirs	1		

	From Node	To Node	Initial Flow	# Elements
WEIR4	CSA	NS163	0	1

Element #1 :		Rectangular Broad Crested Weir			
Length (ft)	194	Height (ft)	9999	Exponent	1.5
Variable Crest Elevation				Elev (ft)	Crest El (ft)
Reference				0	156.2
				1	125
				100	125
Cd	2.8	Number Weirs	1		

	From Node	To Node	Initial Flow	# Elements
WEIR3	CSA	NS194	0	1

Element #1 :		Rectangular Broad Crested Weir			
Length (ft)	179	Height (ft)	9999	Exponent	1.5
Variable Crest Elevation				Elev (ft)	Crest El (ft)
Reference				0	156.2
				1	130
				100	130
Cd	2.8	Number Weirs	1		

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Reach Element Data

	From Node	To Node	Initial Flow	# Elements
RS072	NS072	NS071	0	1

Element #1 :	Unsteady Open Channel	Section	RS072	
Length (ft)	2373	Velocity Coef	1	

	From Node	To Node	Initial Flow	# Elements
RS071	NS071	NS070	0	1

Element #1 :	Rectangular Broad Crested Weir			
Length (ft)	100	Height (ft)	9999	Exponent 1.5
Crest El (ft)	129	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RS070A	NS070	NS058	0	1

Element #1 :	Unsteady Open Channel	Section	RS070A	
Length (ft)	6270	Velocity Coef	1	

	From Node	To Node	Initial Flow	# Elements
RS058	NS058	NS057	0	1

Element #1 :	Rectangular Broad Crested Weir			
Length (ft)	100	Height (ft)	9999	Exponent 1.5
Crest El (ft)	129	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RS057	NS057	NS056	0	1

Element #1 :	Unsteady Open Channel	Section	RS057	
Length (ft)	1700	Velocity Coef	1	

	From Node	To Node	Initial Flow	# Elements
RS056	NS056	NS055	0	1

Element #1 :	Rectangular Broad Crested Weir			
Length (ft)	50	Height (ft)	9999	Exponent 1.5
Crest El (f	126.5	Cd	2.4	Number Weirs 1

PCS DAMBREAK SA10V

Reach Element Data

	From Node	To Node	Initial Flow	# Elements
RS055	NS055	NS054	0	1

Element #1 :	Unsteady Open Channel			Section	RS055	
Length (ft)	1430	Velocity Coef	1			

	From Node	To Node	Initial Flow	# Elements
RS054	NS054	NS053	0	2

Element #1 :	Circular Culvert					
Length (ft)	200	Rise (in)	36	Flap gate	NO	
US Inv (ft)	122	DS Inv (ft)	122	Manning's n	0.024	
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels	1	
Element #2 :	Rectangular Broad Crested Weir					
Length (ft)	50	Height (ft)	9999	Exponent	1.5	
Crest El (ft)	129	Cd	2.4	Number Weirs	1	

	From Node	To Node	Initial Flow	# Elements
RS053	NS053	NS052	0	1

Element #1 :	Unsteady Open Channel			Section	RS053	
Length (ft)	572	Velocity Coef	1			

	From Node	To Node	Initial Flow	# Elements
RS052	NS052	NS051	0	1

Element #1 :	Rectangular Broad Crested Weir					
Length (ft)	100	Height (ft)	9999	Exponent	1.5	
Crest El (f	125.5	Cd	2.4	Number Weirs	1	

	From Node	To Node	Initial Flow	# Elements
RS070C	NS070	NS049	0	1

Element #1 :	Rectangular Broad Crested Weir					
Length (ft)	1000	Height (ft)	9999	Exponent	1.5	
Crest El (ft)	128	Cd	2.4	Number Weirs	1	

From Node	To Node	Initial Flow	# Elements

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Reach Element Data

RS077	NS077	NS076	0	1

Element #1 :	Unsteady Open Channel		Section	RS077
Length (ft) 1850	Velocity Coef	1		

	From Node	To Node	Initial Flow	# Elements
RS076A	NS076	NS075	0	1

Element #1 :	Rectangular Broad Crested Weir			
Length (ft) 100	Height (ft)	9999	Exponent	1.5
Crest El (ft) 133	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS075A	NS075	NS062	0	1

Element #1 :	Unsteady Open Channel		Section	RS075A
Length (ft) 5090	Velocity Coef	1		

	From Node	To Node	Initial Flow	# Elements
RS062	NS062	NS080	0	1

Element #1 :	Rectangular Broad Crested Weir			
Length (ft) 150	Height (ft)	9999	Exponent	1.5
Crest El (ft) 126	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS081	NS081	NS080	0	2

Element #1 :	Circular Culvert			
Length (ft) 70	Rise (in)	48	Flap gate	NO
US Inv (ft) 128	DS Inv (ft)	128	Manning's n	0.024
Velocity Coef 1	Ent Loss Coef	0.5	Number Barrels	1

Element #2 :	Rectangular Broad Crested Weir			
Length (ft) 200	Height (ft)	9999	Exponent	1.5
Crest El (ft) 140	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RCB1CB2	NCB1	NCB2	0	1

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Reach Element Data

	Element #1 :	Unsteady Open Channel		Section	XSECTCB1
	Length (ft) 2600	Velocity Coef	1		

	From Node	To Node	Initial Flow	# Elements
RS105B	NS105	NS103	0	2

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft) 100	Height (ft)	9999	Exponent	1.5
	Crest El (ft) 128	Cd	2.4	Number Weirs	1
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft) 50	Height (ft)	9999	Exponent	1.5
	Crest El (f128.5	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS103	NS103	NS102	0	2

	Element #1 :	Circular Culvert			
	Length (ft) 80	Rise (in)	72	Flap gate	NO
	US Inv (ft)115.7	DS Inv (ft)	115.7	Manning's n	0.024
	Velocity Coef 1	Ent Loss Coef	0.5	Number Barrels	3
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft) 1000	Height (ft)	9999	Exponent	1.5
	Crest El (f126.7	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS102	NS102	NS101	0	2

	Element #1 :	Circular Culvert			
	Length (ft) 80	Rise (in)	48	Flap gate	NO
	US Inv (ft) 116	DS Inv (ft)	116	Manning's n	0.024
	Velocity Coef 1	Ent Loss Coef	0.5	Number Barrels	1
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft) 1000	Height (ft)	9999	Exponent	1.5
	Crest El (ft) 123	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS101	NS101	NS100	0	3

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Reach Element Data

Element #1 :	Rectangular Broad Crested Weir				
Length (ft)	150	Height (ft)	9999	Exponent	1.5
Crest El (ft)	117	Cd	2.4	Number Weirs	1
Element #2 :	Rectangular Broad Crested Weir				
Length (ft)	150	Height (ft)	9999	Exponent	1.5
Crest El (ft)	118	Cd	2.4	Number Weirs	1
Element #3 :	Rectangular Broad Crested Weir				
Length (ft)	300	Height (ft)	9999	Exponent	1.5
Crest El (ft)	119	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS100	NS100	NSC10	0	1

Element #1 :	Unsteady Open Channel Section				RS100
Length (ft)	4350	Velocity Coef	1		

	From Node	To Node	Initial Flow	# Elements
RS076B	WET1	NS076	0	1

Element #1 :	Rectangular Broad Crested Weir				
Length (ft)	1000	Height (ft)	9999	Exponent	1.5
Crest El (ft)	132	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS075B	NS075	NS072	0	2

Element #1 :	Circular Culvert				
Length (ft)	65	Rise (in)	24	Flap gate	NO
US Inv (ft)	126	DS Inv (ft)	126	Manning's n	0.012
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels	2
Element #2 :	Rectangular Broad Crested Weir				
Length (ft)	2000	Height (ft)	9999	Exponent	1.5
Crest El (ft)	132	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS130B	NS130	NS125	0	2

Element #1 :	Circular Culvert

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Reach Element Data

	Length (ft)	70	Rise (in)	36	Flap gate NO
	US Inv (f	128.16	DS Inv (ft)	128	Manning's n 0.024
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Element #2 :		Rectangular Broad Crested Weir		
	Length (ft)	50	Height (ft)	9999	Exponent 1.5
	Crest El (ft)	137	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RS125	NS125	NS123	0	2

	Element #1 :		Circular Culvert		
	Length (ft)	60	Rise (in)	48	Flap gate NO
	US Inv (ft)	126	DS Inv (ft)	126	Manning's n 0.024
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Element #2 :		Rectangular Broad Crested Weir		
	Length (ft)	100	Height (ft)	9999	Exponent 1.5
	Crest El (ft)	136	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RS121	NS121	NS117	0	1

	Element #1 :		Rectangular Broad Crested Weir		
	Length (ft)	1000	Height (ft)	9999	Exponent 1.5
	Crest El (ft)	140	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RS123	NS123	NS121	0	1

	Element #1 :		Unsteady Open Channel Section	RS123
	Length (ft)	956	Velocity Coef 1	

	From Node	To Node	Initial Flow	# Elements
RS104	NS105	NS104	0	1

	Element #1 :		Rectangular Broad Crested Weir		
	Length (ft)	700	Height (ft)	9999	Exponent 1.5
	Crest El (f	132.5	Cd	2.4	Number Weirs 1

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Reach Element Data

	From Node	To Node	Initial Flow	# Elements
RWET7	WET7	WET6	0	2

Element #1 :	Bridge		Section	Box4x10	
Length (ft)	60	US Inv (ft)	135	DS Inv (ft)	135
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels	1
Element #2 :	Rectangular Broad Crested Weir				
Length (ft)	300	Height (ft)	9999	Exponent	1.5
Crest El (f	139.6	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RCB11	CB11	NC020	0	1

Element #1 :	Rectangular Broad Crested Weir				
Length (ft)	500	Height (ft)	9999	Exponent	1.5
Crest El (ft)	140	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RCB22	CB22	CB21	0	3

Element #1 :	Rectangular Broad Crested Weir				
Length (ft)	50	Height (ft)	9999	Exponent	1.5
Crest El (ft)	129	Cd	2.4	Number Weirs	1
Element #2 :	Rectangular Broad Crested Weir				
Length (ft)	300	Height (ft)	9999	Exponent	1.5
Crest El (ft)	130	Cd	2.4	Number Weirs	1
Element #3 :	Rectangular Broad Crested Weir				
Length (ft)	400	Height (ft)	9999	Exponent	1.5
Crest El (ft)	131	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RCB23	CB23	CB21	0	3

Element #1 :	Rectangular Broad Crested Weir				
Length (ft)	50	Height (ft)	9999	Exponent	1.5
Crest El (ft)	119	Cd	2.4	Number Weirs	1
Element #2 :	Rectangular Broad Crested Weir				
Length (ft)	300	Height (ft)	9999	Exponent	1.5

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Reach Element Data

	Crest El (ft)	123	Cd	2.4	Number Weirs 1
	Element #3 :		Rectangular Broad Crested Weir		
	Length (ft)	500	Height (ft)	9999	Exponent 1.5
	Crest El (ft)	127	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RCB21	CB21	NCB2	0	1

	Element #1 :		Rectangular Broad Crested Weir		
	Length (ft)	500	Height (ft)	9999	Exponent 1.5
	Crest El (ft)	119	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RS113B	NS113	NS118	0	2

	Element #1 :		Rectangular Broad Crested Weir		
	Length (ft)	250	Height (ft)	9999	Exponent 1.5
	Crest El (ft)	136	Cd	2.4	Number Weirs 1
	Element #2 :		Circular Culvert		
	Length (ft)	60	Rise (in)	30	Flap gate NO
	US Inv (ft)	133	DS Inv (ft)	133.1	Manning's n 0.01
	Velocity Coe	0.5	Ent Loss Coef	1	Number Barrels 1

	From Node	To Node	Initial Flow	# Elements
RS118	NS118	NS107	0	1

	Element #1 :		Unsteady Open Channel	Section	RS118
	Length (ft)	1186	Velocity Coef	1	

	From Node	To Node	Initial Flow	# Elements
RS107	NS107	NS106	0	3

	Element #1 :		Rectangular Broad Crested Weir		
	Length (ft)	50	Height (ft)	9999	Exponent 1.5
	Crest El (ft)	139	Cd	2.4	Number Weirs 1
	Element #2 :		Rectangular Broad Crested Weir		
	Length (ft)	50	Height (ft)	9999	Exponent 1.5
	Crest El (ft)	140	Cd	2.4	Number Weirs 1

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Reach Element Data

	Element #3 :	Rectangular Broad Crested Weir					
	Length (ft)	50	Height (ft)	9999	Exponent		1.5
	Crest El (ft)	141	Cd	2.4	Number Weirs		1

	From Node	To Node	Initial Flow	# Elements
RWET10	WET10	WET7	0	1

	Element #1 :	Rectangular Broad Crested Weir					
	Length (ft)	500	Height (ft)	9999	Exponent		1.5
	Crest El (ft)	140	Cd	2.4	Number Weirs		1

	From Node	To Node	Initial Flow	# Elements
RS070	NS070	NS062	0	2

	Element #1 :	Circular Culvert					
	Length (ft)	65	Rise (in)	24	Flap gate		NO
	US Inv (ft)	126	DS Inv (ft)	126	Manning's n		0.012
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels		1
	Element #2 :	Rectangular Broad Crested Weir					
	Length (ft)	1000	Height (ft)	9999	Exponent		1.5
	Crest El (ft)	130	Cd	2.4	Number Weirs		1

	From Node	To Node	Initial Flow	# Elements
RS070D	NS070	NS080	0	2

	Element #1 :	Circular Culvert					
	Length (ft)	65	Rise (in)	24	Flap gate		NO
	US Inv (ft)	123.5	DS Inv (ft)	123.5	Manning's n		0.012
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels		1
	Element #2 :	Rectangular Broad Crested Weir					
	Length (ft)	1000	Height (ft)	9999	Exponent		1.5
	Crest El (ft)	128	Cd	2.4	Number Weirs		1

	From Node	To Node	Initial Flow	# Elements
RS057A	NS057	NS080	0	2

	Element #1 :	Circular Culvert					
	Length (ft)	60	Rise (in)	24	Flap gate		NO

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Reach Element Data

	US Inv (ft)	123	DS Inv (ft)	123	Manning's n 0.012
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Element #2 :		Rectangular Broad Crested Weir		
	Length (ft)	1000	Height (ft)	9999	Exponent 1.5
	Crest El (f	127.5	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RS080	NS080	NS079	0	2

	Element #1 :		Circular Culvert		
	Length (ft)	60	Rise (in)	48	Flap gate NO
	US Inv (ft)	113.5	DS Inv (ft)	113.5	Manning's n 0.024
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Element #2 :		Rectangular Broad Crested Weir		
	Length (ft)	200	Height (ft)	9999	Exponent 1.5
	Crest El (f	124.5	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RC035A	NC035	NC033	0	2

	Element #1 :		Circular Culvert		
	Length (ft)	75	Rise (in)	30	Flap gate NO
	US Inv (ft)	139.8	DS Inv (ft)	139.8	Manning's n 0.012
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Element #2 :		Rectangular Broad Crested Weir		
	Length (ft)	1000	Height (ft)	9999	Exponent 1.5
	Crest El (f	144.8	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RC033A	NC033	NC031	0	2

	Element #1 :		Circular Culvert		
	Length (ft)	30	Rise (in)	36	Flap gate NO
	US Inv (ft)	137.6	DS Inv (ft)	137.6	Manning's n 0.012
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Element #2 :		Rectangular Broad Crested Weir		
	Length (ft)	1000	Height (ft)	9999	Exponent 1.5
	Crest El (f	144.6	Cd	2.4	Number Weirs 1

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Reach Element Data

	From Node	To Node	Initial Flow	# Elements
RC031	NC031	NC029	0	1

Element #1 :	Rectangular Broad Crested Weir				
Length (ft)	500	Height (ft)	9999	Exponent	1.5
Crest El (ft)	143	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RC035B	NC035	NC033	0	2

Element #1 :	Circular Culvert				
Length (ft)	30	Rise (in)	24	Flap gate	NO
US Inv (ft)	140.2	DS Inv (ft)	140.2	Manning's n	0.012
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels	1
Element #2 :	Rectangular Broad Crested Weir				
Length (ft)	1000	Height (ft)	9999	Exponent	1.5
Crest El (f	146.2	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RC033B	NC033	NC031	0	1

Element #1 :	Bridge			Section	Box3x5
Length (ft)	75	US Inv (ft)	140.8	DS Inv (ft)	140.8
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels	1

	From Node	To Node	Initial Flow	# Elements
RC035C	NC035	NC033	0	2

Element #1 :	Circular Culvert				
Length (ft)	35	Rise (in)	36	Flap gate	NO
US Inv (ft)	138	DS Inv (ft)	138	Manning's n	0.012
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels	1
Element #2 :	Rectangular Broad Crested Weir				
Length (ft)	1000	Height (ft)	9999	Exponent	1.5
Crest El (ft)	145	Cd	2.4	Number Weirs	1

From Node	To Node	Initial Flow	# Elements

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Reach Element Data

RC035D	NC035	NC033	0	3

Element #1 :		Circular Culvert				
Length (ft)	60	Rise (in)	48	Flap gate		NO
US Inv (ft)	137.3	DS Inv (ft)	137.3	Manning's n		0.024
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels		1
Element #2 :		Circular Culvert				
Length (ft)	60	Rise (in)	36	Flap gate		NO
US Inv (ft)	137.3	DS Inv (ft)	137.3	Manning's n		0.012
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels		1
Element #3 :		Rectangular Broad Crested Weir				
Length (ft)	1000	Height (ft)	9999	Exponent		1.5
Crest El (f	143.3	Cd	2.4	Number Weirs		1

	From Node	To Node	Initial Flow	# Elements
RS112	NS112	NC028	0	2

Element #1 :		Circular Culvert				
Length (ft)	40	Rise (in)	36	Flap gate		NO
US Inv (ft)	132.7	DS Inv (ft)	132.7	Manning's n		0.024
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels		2
Element #2 :		Rectangular Broad Crested Weir				
Length (ft)	1000	Height (ft)	9999	Exponent		1.5
Crest El (f	138.7	Cd	2.4	Number Weirs		1

	From Node	To Node	Initial Flow	# Elements
RC028	NC028	NC027	0	2

Element #1 :		H. Elliptical RCP Culvert				
Length (ft)	75	Rise (in)	36	Flap gate		NO
US Inv (ft)	133.7	DS Inv (ft)	133.7	Manning's n		0.012
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels		1
Element #2 :		Rectangular Broad Crested Weir				
Length (ft)	1000	Height (ft)	9999	Exponent		1.5
Crest El (f	138.7	Cd	2.4	Number Weirs		1

	From Node	To Node	Initial Flow	# Elements
RWET4	WET4	NC020	0	1

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Reach Element Data

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft) 1000	Height (ft)	9999	Exponent	1.5
	Crest El (ft) 133	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RWET4A	WET4	WET3	0	2

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft) 250	Height (ft)	9999	Exponent	1.5
	Crest El (ft) 136	Cd	2.4	Number Weirs	1
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft) 200	Height (ft)	9999	Exponent	1.5
	Crest El (ft) 137	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS111A	NS111	NC050	0	2

	Element #1 :	Circular Culvert			
	Length (ft) 35	Rise (in)	36	Flap gate	NO
	US Inv (ft) 130	DS Inv (ft)	130	Manning's n	0.012
	Velocity Coef 1	Ent Loss Coef	0.5	Number Barrels	1
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft) 1000	Height (ft)	9999	Exponent	1.5
	Crest El (ft) 137	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RC050	NC050	WET3	0	1

	Element #1 :	Circular Culvert			
	Length (ft) 75	Rise (in)	42	Flap gate	NO
	US Inv (ft) 131.5	DS Inv (ft)	131.5	Manning's n	0.012
	Velocity Coef 1	Ent Loss Coef	0.5	Number Barrels	1

	From Node	To Node	Initial Flow	# Elements
RS110A	NS110	NS115	0	1

	Element #1 :	Circular Culvert			
	Length (ft) 30	Rise (in)	36	Flap gate	NO

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Reach Element Data

	US Inv (ft)	130	DS Inv (ft)	130	Manning's n 0.012
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1

	From Node	To Node	Initial Flow	# Elements
RS115	NS115	WET3	0	2

	Element #1 :	Circular Culvert			
	Length (ft)	75	Rise (in)	24	Flap gate NO
	US Inv (ft)	132	DS Inv (ft)	132	Manning's n 0.012
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 2
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft)	1000	Height (ft)	9999	Exponent 1.5
	Crest El (f	136.7	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RC029	NC029	CB11	0	3

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft)	100	Height (ft)	9999	Exponent 1.5
	Crest El (ft)	144	Cd	2.4	Number Weirs 1
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft)	300	Height (ft)	9999	Exponent 1.5
	Crest El (ft)	145	Cd	2.4	Number Weirs 1
	Element #3 :	Rectangular Broad Crested Weir			
	Length (ft)	300	Height (ft)	9999	Exponent 1.5
	Crest El (ft)	147	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RS109A	NS109	WET3	0	2

	Element #1 :	Circular Culvert			
	Length (ft)	75	Rise (in)	30	Flap gate NO
	US Inv (ft)	138	DS Inv (ft)	138	Manning's n 0.012
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft)	1000	Height (ft)	9999	Exponent 1.5
	Crest El (ft)	143	Cd	2.4	Number Weirs 1

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Reach Element Data

	From Node	To Node	Initial Flow	# Elements
RWET1	WET1	NS075	0	2

Element #1 :		Circular Culvert			
Length (ft)	90	Rise (in)	18	Flap gate	NO
US Inv (ft)	129	DS Inv (ft)	129	Manning's n	0.024
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels	1
Element #2 :		Rectangular Broad Crested Weir			
Length (ft)	100	Height (ft)	9999	Exponent	1.5
Crest El (ft)	133	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RET11A	WET11	NR060	0	2

Element #1 :		H. Elliptical RCP Culvert			
Length (ft)	60	Rise (in)	36	Flap gate	NO
US Inv (ft)	129	DS Inv (ft)	129	Manning's n	0.012
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels	2
Element #2 :		Rectangular Broad Crested Weir			
Length (ft)	2000	Height (ft)	9999	Exponent	1.5
Crest El (ft)	134	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RET11B	WET11	NR060	0	2

Element #1 :		Circular Culvert			
Length (ft)	70	Rise (in)	84	Flap gate	NO
US Inv (ft)	126.7	DS Inv (ft)	126.7	Manning's n	0.012
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels	3
Element #2 :		Rectangular Broad Crested Weir			
Length (ft)	2000	Height (ft)	9999	Exponent	1.5
Crest El (f	134.7	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RET11C	WET11	NR060	0	2

Element #1 :		H. Elliptical RCP Culvert			
Length (ft)	60	Rise (in)	36	Flap gate	NO

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Reach Element Data

	US Inv (ft)	131.4	DS Inv (ft)	131.4	Manning's n 0.012
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 2
	Element #2 :		Rectangular Broad Crested Weir		
	Length (ft)	2000	Height (ft)	9999	Exponent 1.5
	Crest El (f	136.4	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RET11D	WET11	NR060	0	2

	Element #1 :		Circular Culvert		
	Length (ft)	60	Rise (in)	24	Flap gate NO
	US Inv (ft)	134.2	DS Inv (ft)	134.2	Manning's n 0.012
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Element #2 :		Rectangular Broad Crested Weir		
	Length (ft)	1000	Height (ft)	9999	Exponent 1.5
	Crest El (f	137.7	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RWET8C	WET8	CS1	0	1

	Element #1 :		Circular Culvert		
	Length (ft)	65	Rise (in)	30	Flap gate NO
	US Inv (ft)	125	DS Inv (ft)	125	Manning's n 0.012
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1

	From Node	To Node	Initial Flow	# Elements
RCS1D	CS1	CS3	0	2

	Element #1 :		H. Elliptical RCP Culvert		
	Length (ft)	65	Rise (in)	36	Flap gate NO
	US Inv (ft)	127	DS Inv (ft)	127	Manning's n 0.012
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 3
	Element #2 :		Rectangular Broad Crested Weir		
	Length (ft)	2000	Height (ft)	9999	Exponent 1.5
	Crest El (ft)	132	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RCS1E	CS1	CS5	0	1

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Reach Element Data

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft) 1000	Height (ft)	9999	Exponent	1.5
	Crest El (ft) 129	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RSPONDA	SPond	NB062	0	1

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft) 200	Height (ft)	9999	Exponent	1.5
	Crest El (f124.4	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RB062	NB062	NB061	0	1

	Element #1 :	Unsteady Open Channel	Section	RB062
	Length (ft) 2920	Velocity Coef	1	

	From Node	To Node	Initial Flow	# Elements
RB061	NB061	NB060	0	1

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft) 200	Height (ft)	9999	Exponent	1.5
	Crest El (f119.7	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RB060	NB060	NB050	0	1

	Element #1 :	Unsteady Open Channel	Section	RB060
	Length (ft) 2205	Velocity Coef	1	

	From Node	To Node	Initial Flow	# Elements
RB030	NB030	NB020	0	1

	Element #1 :	Unsteady Open Channel	Section	RB030
	Length (ft) 3470	Velocity Coef	1	

	From Node	To Node	Initial Flow	# Elements
RB020	NB020	NB010	0	2

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Reach Element Data

	Element #1 :	Circular Culvert			
	Length (ft)	75	Rise (in)	84	Flap gate	NO
	US Inv (ft)	105.5	DS Inv (ft)	105.5	Manning's n	0.024
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels	3
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft)	500	Height (ft)	999	Exponent	1.5
	Crest El (f	118.5	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RCS3R	CS3	NR050	0	1

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft)	600	Height (ft)	999	Exponent	1.5
	Crest El (ft)	123	Cd	2.6	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RB065	NB065	SPond	0	1

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft)	200	Height (ft)	9999	Exponent	1.5
	Crest El (f	125.8	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RCS5	CS5	NB065	0	1

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft)	200	Height (ft)	9999	Exponent	1.5
	Crest El (f	127.5	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS150	NS150	WET1	0	1

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft)	500	Height (ft)	9999	Exponent	1.5
	Crest El (ft)	126	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RWET1A	WET1	CS2	0	2

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Reach Element Data

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft) 500	Height (ft)	9999	Exponent	1.5
	Crest El (f131.4	Cd	2.4	Number Weirs	1
	Element #2 :	Bridge		Section	Box5x9
	Length (ft) 60	US Inv (ft)	122	DS Inv (ft)	122
	Velocity Coef 1	Ent Loss Coef	0.5	Number Barrels	1

	From Node	To Node	Initial Flow	# Elements
RBC2R	BC2	NB070	0	1
	Element #1 :	Rectangular Broad Crested Weir		
	Length (ft) 1000	Height (ft)	9999	Exponent 1.5
	Crest El (ft) 129	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RS194A	NS194	BC11	0	1
	Element #1 :	Rectangular Broad Crested Weir		
	Length (ft) 500	Height (ft)	999	Exponent 1.5
	Crest El (ft) 137	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RBC11R	BC11	BC2	0	1
	Element #1 :	Rectangular Broad Crested Weir		
	Length (ft) 1000	Height (ft)	9999	Exponent 1.5
	Crest El (ft) 137	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RB064	NB064	NB050	0	1
	Element #1 :	Unsteady Open Channel Section		RB064
	Length (ft) 2246	Velocity Coef	1	

	From Node	To Node	Initial Flow	# Elements
RB040	NB040	NB030	0	1
	Element #1 :	Rectangular Broad Crested Weir		

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Reach Element Data

	Length (ft)	500	Height (ft)	9999	Exponent 1.5
	Crest El (f	114.5	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RB050	NB050	NB040	0	1

	Element #1 :	Unsteady Open Channel		Section	RB050
	Length (ft)	995	Velocity Coef	1	

	From Node	To Node	Initial Flow	# Elements
RWET2	WET2	WET1	0	1

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft)	500	Height (ft)	9999	Exponent 1.5
	Crest El (ft)	124	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RWET6	WET6	BC2	0	2

	Element #1 :	Bridge		Section	Box3x10
	Length (ft)	60	US Inv (ft)	132	DS Inv (ft) 132
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft)	1000	Height (ft)	9999	Exponent 1.5
	Crest El (f	137.4	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RSPONDB	SPond	RPond	0	1

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft)	300	Height (ft)	9999	Exponent 1.5
	Crest El (ft)	126	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RRPOND	RPond	NB030	0	2

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft)	40	Height (ft)	9999	Exponent 1.5
	Crest El (f	115.7	Cd	2.4	Number Weirs 1

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Reach Element Data

	Element #2 :	Rectangular Broad Crested Weir				
	Length (ft)	500	Height (ft)	9999	Exponent	1.5
	Crest El (ft)	125	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS150B	NS150	CS2	0	2

	Element #1 :	Circular Culvert				
	Length (ft)	65	Rise (in)	30	Flap gate	NO
	US Inv (ft)	125	DS Inv (ft)	125	Manning's n	0.012
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels	1
	Element #2 :	Rectangular Broad Crested Weir				
	Length (ft)	1000	Height (ft)	9999	Exponent	1.5
	Crest El (ft)	133	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RCS2B	CS2	CS1	0	1

	Element #1 :	Rectangular Broad Crested Weir				
	Length (ft)	1000	Height (ft)	9999	Exponent	1.5
	Crest El (ft)	129	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RCS2A	CS2	CS3	0	2

	Element #1 :	Circular Culvert				
	Length (ft)	70	Rise (in)	84	Flap gate	NO
	US Inv (ft)	124	DS Inv (ft)	124	Manning's n	0.012
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels	5
	Element #2 :	Rectangular Broad Crested Weir				
	Length (ft)	1000	Height (ft)	9999	Exponent	1.5
	Crest El (ft)	133	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RWET8A	WET8	CS1	0	1

	Element #1 :	Bridge			Section	Box3x9
	Length (ft)	60	US Inv (ft)	124	DS Inv (ft)	124

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Reach Element Data

	Velocity Coef 1	Ent Loss Coef	0.5	Number Barrels	1

	From Node	To Node	Initial Flow	# Elements
RWET8B	WET8	CS1	0	2

	Element #1 :	Circular Culvert			
	Length (ft) 60	Rise (in)	24	Flap gate	NO
	US Inv (ft) 125	DS Inv (ft)	125	Manning's n	0.012
	Velocity Coef 1	Ent Loss Coef	0.5	Number Barrels	1
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft) 500	Height (ft)	9999	Exponent	1.5
	Crest El (ft) 135	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS150A	NS150	CS2	0	1

	Element #1 :	Circular Culvert			
	Length (ft) 60	Rise (in)	24	Flap gate	NO
	US Inv (ft) 126	DS Inv (ft)	126	Manning's n	0.012
	Velocity Coef 1	Ent Loss Coef	0.5	Number Barrels	2

	From Node	To Node	Initial Flow	# Elements
RS150C	NS150	CS2	0	1

	Element #1 :	Bridge		Section	Box4x13
	Length (ft) 90	US Inv (ft)	122	DS Inv (ft)	122
	Velocity Coef 1	Ent Loss Coef	0.5	Number Barrels	2

	From Node	To Node	Initial Flow	# Elements
RB070	NB070	NB064	0	1

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft) 500	Height (ft)	9999	Exponent	1.5
	Crest El (ft) 122	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RCSAN	CSA	WET8	0	1

	Element #1 :	Rectangular Broad Crested Weir			

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Reach Element Data

Length (ft)	209	Height (ft)	999	Exponent	1.5
Variable Crest Elevation				Elev (ft)	Crest El (ft)
Reference				0	156.2
				1	120
				100	120
Cd	2.8	Number Weirs	1		

	From Node	To Node	Initial Flow	# Elements
RS154C	NS154	WET8	0	1

Element #1 :		Rectangular Broad Crested Weir			
Length (ft)	500	Height (ft)	9999	Exponent	1.5
Crest El (ft)	132	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS154B	NS154	WET2	0	1

Element #1 :		Rectangular Broad Crested Weir			
Length (ft)	500	Height (ft)	9999	Exponent	1.5
Crest El (ft)	137	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS154A	NS154	NS150	0	1

Element #1 :		Rectangular Broad Crested Weir			
Length (ft)	500	Height (ft)	999	Exponent	1.5
Crest El (ft)	132	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS194B	NS194	CS1	0	2

Element #1 :		Circular Culvert			
Length (ft)	65	Rise (in)	24	Flap gate	NO
US Inv (ft)	131	DS Inv (ft)	131	Manning's n	0.012
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels	1

Element #2 :		Rectangular Broad Crested Weir			
Length (ft)	500	Height (ft)	9999	Exponent	1.5
Crest El (ft)	136	Cd	2.4	Number Weirs	1

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Reach Element Data

	From Node	To Node	Initial Flow	# Elements
RB080A	NB080	NB078	0	2

Element #1 :	Bridge		Section	Box5x10
Length (ft)	73	US Inv (ft)	125	DS Inv (ft)	125
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels	3
Element #2 :	Rectangular Broad Crested Weir				
Length (ft)	1000	Height (ft)	9999	Exponent	1.5
Crest El (ft)	132	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RB080B	NB080	NB078	0	2

Element #1 :	Circular Culvert				
Length (ft)	80	Rise (in)	36	Flap gate	NO
US Inv (ft)	127	DS Inv (ft)	127	Manning's n	0.012
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels	1
Element #2 :	Rectangular Broad Crested Weir				
Length (ft)	1000	Height (ft)	9999	Exponent	1.5
Crest El (ft)	131	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RB080C	NB080	NB078	0	1

Element #1 :	Bridge		Section	Box3x5
Length (ft)	70	US Inv (ft)	126	DS Inv (ft)	126
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels	1

	From Node	To Node	Initial Flow	# Elements
RB078	NB078	NB076	0	1

Element #1 :	Rectangular Broad Crested Weir				
Length (ft)	500	Height (ft)	9999	Exponent	1.5
Crest El (ft)	127	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RB076A	NB076	NB070	0	1

Element #1 :	Rectangular Broad Crested Weir

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Reach Element Data

	Length (ft)	500	Height (ft)	9999	Exponent 1.5
	Crest El (ft)	125	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RB076B	NB076	NB064	0	1

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft)	500	Height (ft)	9999	Exponent 1.5
	Crest El (f	124.5	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RCS1A	CS1	CS3	0	1

	Element #1 :	H. Elliptical RCP Culvert			
	Length (ft)	65	Rise (in)	36	Flap gate NO
	US Inv (ft)	125	DS Inv (ft)	125	Manning's n 0.012
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 3

	From Node	To Node	Initial Flow	# Elements
RCS1B	CS1	CS3	0	2

	Element #1 :	H. Elliptical RCP Culvert			
	Length (ft)	64	Rise (in)	24	Flap gate NO
	US Inv (ft)	127	DS Inv (ft)	127	Manning's n 0.012
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 4
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft)	3000	Height (ft)	9999	Exponent 1.5
	Crest El (ft)	131	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RCS1C	CS1	CS3	0	2

	Element #1 :	H. Elliptical RCP Culvert			
	Length (ft)	60	Rise (in)	18	Flap gate NO
	US Inv (ft)	123	DS Inv (ft)	123	Manning's n 0.012
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft)	200	Height (ft)	9999	Exponent 1.5
	Crest El (ft)	130	Cd	2.4	Number Weirs 1

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Reach Element Data

	From Node	To Node	Initial Flow	# Elements
RCS2C	CS2	CS3	0	2

Element #1 :		Circular Culvert				
Length (ft)	60	Rise (in)	24	Flap gate		NO
US Inv (ft)	128.5	DS Inv (ft)	128.5	Manning's n		0.012
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels		1
Element #2 :		Rectangular Broad Crested Weir				
Length (ft)	1000	Height (ft)	9999	Exponent		1.5
Crest El (ft)	132	Cd	2.4	Number Weirs		1

	From Node	To Node	Initial Flow	# Elements
RCS2D	CS2	CS3	0	1

Element #1 :		CMP Arch 49x33 Culvert				
Length (ft)	60	Rise (in)	48	Flap gate		NO
US Inv (ft)	126	DS Inv (ft)	126	Manning's n		0.024
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels		1

	From Node	To Node	Initial Flow	# Elements
RCS5A	CS5	CS3	0	2

Element #1 :		H. Elliptical RCP Culvert				
Length (ft)	65	Rise (in)	24	Flap gate		NO
US Inv (ft)	128	DS Inv (ft)	128	Manning's n		0.012
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels		3
Element #2 :		Rectangular Broad Crested Weir				
Length (ft)	500	Height (ft)	9999	Exponent		1.5
Crest El (ft)	133	Cd	2.4	Number Weirs		1

	From Node	To Node	Initial Flow	# Elements
RCS5B	CS5	CS3	0	2

Element #1 :		Circular Culvert				
Length (ft)	65	Rise (in)	48	Flap gate		NO
US Inv (ft)	127	DS Inv (ft)	127	Manning's n		0.012
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels		3

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Reach Element Data

	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft) 500	Height (ft)	9999	Exponent	1.5
	Crest El (f 133.5	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RCS5C	CS5	CS3	0	2

	Element #1 :	H. Elliptical RCP Culvert			
	Length (ft) 65	Rise (in)	24	Flap gate	NO
	US Inv (ft) 130	DS Inv (ft)	130	Manning's n	0.012
	Velocity Coef 1	Ent Loss Coef	0.5	Number Barrels	2
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft) 5000	Height (ft)	9999	Exponent	1.5
	Crest El (ft) 134	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RCS5D	CS5	CS3	0	2

	Element #1 :	H. Elliptical RCP Culvert			
	Length (ft) 65	Rise (in)	30	Flap gate	NO
	US Inv (ft) 130	DS Inv (ft)	130	Manning's n	0.012
	Velocity Coef 1	Ent Loss Coef	0.5	Number Barrels	2
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft) 1000	Height (ft)	9999	Exponent	1.5
	Crest El (ft) 135	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RWET8D	WET8	NS194	0	1

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft) 500	Height (ft)	9999	Exponent	1.5
	Crest El (ft) 129	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RWET2B	WET2	NS150	0	1

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft) 1000	Height (ft)	9999	Exponent	1.5
	Crest El (ft) 124	Cd	2.4	Number Weirs	1

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Reach Element Data

	From Node	To Node	Initial Flow	# Elements
RR060	NR060	TWR	0	2

Element #1 :	Rectangular Broad Crested Weir				
Length (ft)	100	Height (ft)	999	Exponent	1.5
Crest El (f	127.2	Cd	2.4	Number Weirs	1
Element #2 :	Rectangular Broad Crested Weir				
Length (ft)	200	Height (ft)	999	Exponent	1.5
Crest El (f	127.5	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RCS2	CS2	WET11	0	1

Element #1 :	Rectangular Broad Crested Weir				
Length (ft)	1000	Height (ft)	999	Exponent	1.5
Crest El (ft)	129	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS035	NS035	NS047	0	2

Element #1 :	Circular Culvert				
Length (ft)	60	Rise (in)	36	Flap gate	NO
US Inv (ft)	117	DS Inv (ft)	117	Manning's n	0.024
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels	1
Element #2 :	Rectangular Broad Crested Weir				
Length (ft)	100	Height (ft)	9999	Exponent	1.5
Crest El (ft)	129	Cd	2.6	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS072A	NS072	NS073	0	1

Element #1 :	Rectangular Broad Crested Weir				
Length (ft)	1000	Height (ft)	9999	Exponent	1.5
Crest El (ft)	129	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RWET1B	WET1	NS073	0	1

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Reach Element Data

	Element #1 :	Rectangular Broad Crested Weir					
	Length (ft)	1000	Height (ft)	9999	Exponent		1.5
	Crest El (f	132.5	Cd	2.4	Number Weirs		1
	From Node		To Node		Initial Flow		# Elements
RS154	NS154		CS2		0		2
	Element #1 :	Circular Culvert					
	Length (ft)	60	Rise (in)	24	Flap gate		NO
	US Inv (ft)	128	DS Inv (ft)	128	Manning's n		0.012
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels		1
	Element #2 :	Rectangular Broad Crested Weir					
	Length (ft)	500	Height (ft)	9999	Exponent		1.5
	Crest El (f	133.5	Cd	2.4	Number Weirs		1
	From Node		To Node		Initial Flow		# Elements
RR060B	NR060		NR010		0		1
	Element #1 :	Rectangular Broad Crested Weir					
	Length (ft)	1000	Height (ft)	999	Exponent		1.5
	Crest El (ft)	129	Cd	2.4	Number Weirs		1
	From Node		To Node		Initial Flow		# Elements
RC037	NC037		BC1		0		2
	Element #1 :	Bridge			Section		Box4x4
	Length (ft)	80	US Inv (ft)	138	DS Inv (ft)		138
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels		2
	Element #2 :	Rectangular Broad Crested Weir					
	Length (ft)	1000	Height (ft)	999	Exponent		1.5
	Crest El (ft)	145	Cd	2.4	Number Weirs		1
	From Node		To Node		Initial Flow		# Elements
RET10	WET10		NC037		0		3
	Element #1 :	Circular Culvert					
	Length (ft)	35	Rise (in)	48	Flap gate		NO
	US Inv (ft)	136.5	DS Inv (ft)	136.5	Manning's n		0.024

Reach Element Data

	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Element #2 :		Circular Culvert		
	Length (ft)	30	Rise (in)	36	Flap gate NO
	US Inv (ft)	136.5	DS Inv (ft)	136.5	Manning's n 0.012
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Element #3 :		Rectangular Broad Crested Weir		
	Length (ft)	1000	Height (ft)	999	Exponent 1.5
	Crest El (f	143.5	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RWET10B	WET10	NC035	0	1

	Element #1 :		Rectangular Broad Crested Weir		
	Length (ft)	100	Height (ft)	999	Exponent 1.5
	Crest El (f	144.5	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RC040	NC040	BC1	0	2

	Element #1 :		Bridge		Section Box4x4
	Length (ft)	80	US Inv (ft)	139.7	DS Inv (ft) 139.7
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 2
	Element #2 :		Rectangular Broad Crested Weir		
	Length (ft)	1000	Height (ft)	999	Exponent 1.5
	Crest El (f	144.8	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RWET7A	WET7	NC040	0	3

	Element #1 :		Circular Culvert		
	Length (ft)	35	Rise (in)	36	Flap gate NO
	US Inv (ft)	139.5	DS Inv (ft)	139.5	Manning's n 0.024
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Element #2 :		Circular Culvert		
	Length (ft)	30	Rise (in)	30	Flap gate NO
	US Inv (ft)	139.5	DS Inv (ft)	139.5	Manning's n 0.012
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1

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Reach Element Data

	Element #3 :	Rectangular Broad Crested Weir			
	Length (ft)	1000	Height (ft)	999	Exponent 1.5
	Crest El (f	144.5	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RS106	NS106	NS110	0	1

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft)	100	Height (ft)	9999	Exponent 1.5
	Crest El (f	135.6	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RC027	NC027	NC020	0	1

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft)	1000	Height (ft)	9999	Exponent 1.5
	Crest El (ft)	136	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RC027B	NC027	WET4	0	1

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft)	450	Height (ft)	9999	Exponent 1.5
	Crest El (ft)	135	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RS135A	NS135	NS131	0	2

	Element #1 :	Circular Culvert			
	Length (ft)	30	Rise (in)	48	Flap gate NO
	US Inv (ft)	123	DS Inv (ft)	123	Manning's n 0.024
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1

	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft)	80	Height (ft)	9999	Exponent 1.5
	Crest El (ft)	128	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RS163A	NS163	NS131	0	1

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Reach Element Data

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft)	1000	Height (ft)	9999	Exponent 1.5
	Crest El (f	139.5	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RS165A	NS165	NS085	0	2

	Element #1 :	Circular Culvert			
	Length (ft)	100	Rise (in)	48	Flap gate NO
	US Inv (ft)	130	DS Inv (ft)	130	Manning's n 0.024
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft)	200	Height (ft)	9999	Exponent 1.5
	Crest El (f	139.5	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RC019A	NC019	NC017	0	1

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft)	100	Height (ft)	9999	Exponent 1.5
	Crest El (f	136.5	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RC019C	NC019	WET3	0	1

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft)	150	Height (ft)	9999	Exponent 1.5
	Crest El (f	133.6	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RCB4CB5	NCB4	NCB5	0	1

	Element #1 :	Unsteady Open Channel	Section	XSECTCB3
	Length (ft) 3000	Velocity Coef 1		

	From Node	To Node	Initial Flow	# Elements
RCB5	NCB5	TWC	0	1

	Element #1 :	Junction Channel	Section XSECTCB3

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Reach Element Data

	Length (ft)	100	US Inv (ft)	85	DS Inv (ft)	85
	Velocity Coef	1	Ent Loss Coef	0.01	Number	1

	From Node	To Node	Initial Flow	# Elements
SWC31A	SWC31	NS010	0	3

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft)	40	Height (ft)	9999	Exponent	1.5
	Crest El (ft)	115	Cd	2.4	Number Weirs	1
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft)	50	Height (ft)	9999	Exponent	1.5
	Crest El (ft)	117	Cd	2.4	Number Weirs	1
	Element #3 :	Rectangular Broad Crested Weir			
	Length (ft)	130	Height (ft)	9999	Exponent	1.5
	Crest El (ft)	120	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RSC8SC9	NS010	NS005	0	2

	Element #1 :	Bridge		Section	SECELRR
	Length (ft)	14	US Inv (ft)	104.5	DS Inv (ft)	104.5
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels	1
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft)	1000	Height (ft)	9999	Exponent	1.5
	Crest El (ft)	114	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS080B	NS080	NS010	0	1

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft)	1000	Height (ft)	9999	Exponent	1.5
	Crest El (ft)	125	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS040	NS040	NS010	0	2

	Element #1 :	Bridge		Section	Box14x6
	Length (ft)	60	US Inv (ft)	109.5	DS Inv (ft)	109.5

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Reach Element Data

	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Element #2 :		Rectangular Broad Crested Weir		
	Length (ft)	1000	Height (ft)	9999	Exponent 1.5
	Crest El (f	118.5	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RS051	NS051	NS010	0	1

	Element #1 :		Rectangular Broad Crested Weir		
	Length (ft)	300	Height (ft)	9999	Exponent 1.5
	Crest El (ft)	126	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RS116	NS116	NS113	0	2

	Element #1 :		Rectangular Broad Crested Weir		
	Length (ft)	200	Height (ft)	9999	Exponent 1.5
	Crest El (ft)	135	Cd	2.4	Number Weirs 1
	Element #2 :		Circular Culvert		
	Length (ft)	80	Rise (in)	30	Flap gate NO
	US Inv (ft)	130.8	DS Inv (ft)	130.6	Manning's n 0.01
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1

	From Node	To Node	Initial Flow	# Elements
RSWC34B	SWC34	NS020	0	2

	Element #1 :		Bridge		Section Box8x4
	Length (ft)	65	US Inv (ft)	115.3	DS Inv (ft) 113
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 3
	Element #2 :		Rectangular Broad Crested Weir		
	Length (ft)	500	Height (ft)	9999	Exponent 1.5
	Crest El (ft)	123	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RS020	NS020	NS010	0	1

	Element #1 :		Rectangular Broad Crested Weir		
	Length (ft)	12	Height (ft)	9999	Exponent 1.5

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Reach Element Data

	Crest El (ft)	113	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RS125B	NS125	NS128	0	2

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft)	200	Height (ft) 9999	Exponent	1.5
	Crest El (ft)	138	Cd 2.4	Number Weirs	1
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft)	100	Height (ft) 9999	Exponent	1.5
	Crest El (ft)	139	Cd 2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS128	NS128	NS121	0	2

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft)	300	Height (ft) 9999	Exponent	1.5
	Crest El (ft)	136	Cd 2.4	Number Weirs	1
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft)	300	Height (ft) 9999	Exponent	1.5
	Crest El (ft)	137	Cd 2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS128B	NS128	NS127	0	2

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft)	1000	Height (ft) 9999	Exponent	1.5
	Crest El (f	136.8	Cd 2.4	Number Weirs	1
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft)	1000	Height (ft) 9999	Exponent	1.5
	Crest El (f	137.8	Cd 2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS127	NS127	NS126	0	2

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft)	2000	Height (ft) 9999	Exponent	1.5
	Crest El (ft)	137	Cd 2.4	Number Weirs	1

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Reach Element Data

Element #2 :	Circular Culvert				
Length (ft)	72	Rise (in)	30	Flap gate	NO
US Inv (ft)	132	DS Inv (ft)	133	Manning's n	0.01
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels	1

	From Node	To Node	Initial Flow	# Elements
RS126	NS126	NS114	0	5

Element #1 :	Rectangular Broad Crested Weir				
Length (ft)	500	Height (ft)	9999	Exponent	1.5
Crest El (f	138.5	Cd	2.4	Number Weirs	1
Element #2 :	Rectangular Broad Crested Weir				
Length (ft)	100	Height (ft)	9999	Exponent	1.5
Crest El (ft)	139	Cd	2.4	Number Weirs	1
Element #3 :	Rectangular Broad Crested Weir				
Length (ft)	100	Height (ft)	9999	Exponent	1.5
Crest El (ft)	140	Cd	2.4	Number Weirs	1
Element #4 :	Rectangular Broad Crested Weir				
Length (ft)	100	Height (ft)	9999	Exponent	1.5
Crest El (ft)	141	Cd	2.4	Number Weirs	1
Element #5 :	Circular Culvert				
Length (ft)	70	Rise (in)	30	Flap gate	NO
US Inv (ft)	132	DS Inv (ft)	131.5	Manning's n	0.01
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels	1

	From Node	To Node	Initial Flow	# Elements
RS126B	NS126	NC035	0	3

Element #1 :	Rectangular Broad Crested Weir				
Length (ft)	30	Height (ft)	9999	Exponent	1.5
Crest El (f	140.5	Cd	2.4	Number Weirs	1
Element #2 :	Rectangular Broad Crested Weir				
Length (ft)	50	Height (ft)	9999	Exponent	1.5
Crest El (ft)	142	Cd	2.4	Number Weirs	1
Element #3 :	Rectangular Broad Crested Weir				
Length (ft)	200	Height (ft)	9999	Exponent	1.5

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Reach Element Data

	Crest El (ft)	144	Cd	2.6	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RS114	NS114	NC020	0	2

	Element #1 :	Circular Culvert			
	Length (ft)	80	Rise (in)	24	Flap gate NO
	US Inv (ft)	141.1	DS Inv (ft)	141.1	Manning's n 0.012
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft)	300	Height (ft)	9999	Exponent 1.5
	Crest El (ft)	145	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RS127B	NS127	NS114	0	2

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft)	150	Height (ft)	9999	Exponent 1.5
	Crest El (f	138.5	Cd	2.4	Number Weirs 1
	Element #2 :	Circular Culvert			
	Length (ft)	70	Rise (in)	30	Flap gate NO
	US Inv (ft)	131	DS Inv (ft)	133	Manning's n 0.01
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1

	From Node	To Node	Initial Flow	# Elements
RS114B	NS114	NS113	0	2

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft)	300	Height (ft)	9999	Exponent 1.5
	Crest El (ft)	138	Cd	2.4	Number Weirs 1
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft)	600	Height (ft)	9999	Exponent 1.5
	Crest El (ft)	140	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RS121B	NS121	NS113	0	3

	Element #1 :	Rectangular Broad Crested Weir

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Reach Element Data

Length (ft)	100	Height (ft)	9999	Exponent	1.5
Crest El (f	138.4	Cd	2.4	Number Weirs	1

Element #2 :		Rectangular Broad Crested Weir			
Length (ft)	350	Height (ft)	9999	Exponent	1.5
Crest El (ft)	139	Cd	2.4	Number Weirs	1

Element #3 :		Rectangular Broad Crested Weir			
Length (ft)	100	Height (ft)	9999	Exponent	1.5
Crest El (ft)	140	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RC033C	NC033	NC031	0	2

Element #1 :		Bridge		Section	Box3x5
Length (ft)	75	US Inv (ft)	141.6	DS Inv (ft)	141.6
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels	1

Element #2 :		Rectangular Broad Crested Weir			
Length (ft)	1000	Height (ft)	9999	Exponent	1.5
Crest El (f	145.6	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RC033D	NC033	NC031	0	2

Element #1 :		Bridge		Section	Box4x4
Length (ft)	75	US Inv (ft)	136.7	DS Inv (ft)	136.7
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels	2

Element #2 :		Rectangular Broad Crested Weir			
Length (ft)	1000	Height (ft)	9999	Exponent	1.5
Crest El (f	143.7	Cd	2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RC031A	NC031	CB11	0	1

Element #1 :		Rectangular Broad Crested Weir			
Length (ft)	1000	Height (ft)	9999	Exponent	1.5
Crest El (f	142.7	Cd	2.4	Number Weirs	1

From Node	To Node	Initial Flow	# Elements

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Reach Element Data

RS30 NS30 TWS 0 1

Element #1 :		Junction Channel		Section	XSECSC19
Length (ft)	100	US Inv (ft)	55.1	DS Inv (ft)	55.1
Velocity Coef	1	Ent Loss Coef	0.01	Number	1

From Node	To Node	Initial Flow	# Elements
RS19 NS19	NS30	0	1

Element #1 :		Unsteady Open Channel		Section	XSECSC19
Length (ft)	3600	Velocity Coef	1		

From Node	To Node	Initial Flow	# Elements
RB005 NB005	TWB	0	1

Element #1 :		Junction Channel		Section	RB030
Length (ft)	100	US Inv (ft)	102	DS Inv (ft)	102
Velocity Coef	1	Ent Loss Coef	0.01	Number	1

From Node	To Node	Initial Flow	# Elements
RB010 NB010	NB005	0	2

Element #1 :		Bridge		Section	Box6x9
Length (ft)	85	US Inv (ft)	103	DS Inv (ft)	103
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels	3
Element #2 :		Rectangular Broad Crested Weir			
Length (ft)	1000	Height (ft)	9999	Exponent	1.5
Crest El (f	118.5	Cd	2.4	Number Weirs	1

From Node	To Node	Initial Flow	# Elements
RR005 NR005	TWR	0	1

Element #1 :		Junction Channel		Section	RR010
Length (ft)	100	US Inv (ft)	79.1	DS Inv (ft)	79
Velocity Coef	1	Ent Loss Coef	0.01	Number	1

From Node	To Node	Initial Flow	# Elements
RR010 NR010	NR005	0	1

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Reach Element Data

	Element #1 :	Unsteady Open Channel	Section	RR010
	Length (ft) 7350	Velocity Coef 1		

	From Node	To Node	Initial Flow	# Elements
RBC11	BC11	WET10	0	1

	Element #1 :	Rectangular Broad Crested Weir		
	Length (ft) 500	Height (ft) 9999	Exponent	1.5
	Crest El (ft) 140	Cd 2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS194C	NS194	NS135	0	1

	Element #1 :	Rectangular Broad Crested Weir		
	Length (ft) 300	Height (ft) 9999	Exponent	1.5
	Crest El (ft) 135	Cd 2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS165	NS165	WET2	0	1

	Element #1 :	Rectangular Broad Crested Weir		
	Length (ft) 1000	Height (ft) 9999	Exponent	1.5
	Crest El (f139.5	Cd 2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS170	NS170	NS163	0	1

	Element #1 :	Rectangular Broad Crested Weir		
	Length (ft) 600	Height (ft) 9999	Exponent	1.5
	Crest El (f139.5	Cd 2.4	Number Weirs	1

	From Node	To Node	Initial Flow	# Elements
RS170B	NS170	NS135	0	2

	Element #1 :	Rectangular Broad Crested Weir		
	Length (ft) 100	Height (ft) 9999	Exponent	1.5
	Crest El (ft) 130	Cd 2.4	Number Weirs	1
	Element #2 :	Rectangular Broad Crested Weir		
	Length (ft) 400	Height (ft) 9999	Exponent	1.5

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Reach Element Data

	Crest El (ft)	134	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RS170C	NS170	NS194	0	1

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft)	500	Height (ft)	9999	Exponent 1.5
	Crest El (f	138.5	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RS163B	NS163	NS194	0	1

	Element #1 :	Rectangular Broad Crested Weir			
	Length (ft)	500	Height (ft)	9999	Exponent 1.5
	Crest El (f	139.5	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RS163C	NS163	NS120	0	2

	Element #1 :	Circular Culvert			
	Length (ft)	100	Rise (in)	36	Flap gate NO
	US Inv (ft)	132	DS Inv (ft)	132	Manning's n 0.01
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1
	Element #2 :	Rectangular Broad Crested Weir			
	Length (ft)	150	Height (ft)	9999	Exponent 1.5
	Crest El (f	139.5	Cd	2.4	Number Weirs 1

	From Node	To Node	Initial Flow	# Elements
RS127C	NS127	NS126	0	1

	Element #1 :	Circular Culvert			
	Length (ft)	100	Rise (in)	30	Flap gate NO
	US Inv (ft)	131	DS Inv (ft)	131	Manning's n 0.01
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1

	From Node	To Node	Initial Flow	# Elements
RS127D	NS127	NS126	0	1

	Element #1 :	Circular Culvert

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Reach Element Data

	Length (ft)	90	Rise (in)	30	Flap gate NO
	US Inv (ft)	131	DS Inv (ft)	132	Manning's n 0.01
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1

	From Node	To Node	Initial Flow	# Elements
RS127E	NS127	NS126	0	1

	Element #1 :		Circular Culvert		
	Length (ft)	100	Rise (in)	30	Flap gate NO
	US Inv (ft)	131	DS Inv (ft)	131	Manning's n 0.01
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1

	From Node	To Node	Initial Flow	# Elements
RS127F	NS127	NS126	0	1

	Element #1 :		Circular Culvert		
	Length (ft)	80	Rise (in)	30	Flap gate NO
	US Inv (ft)	132	DS Inv (ft)	132.5	Manning's n 0.01
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1

	From Node	To Node	Initial Flow	# Elements
RS127G	NS127	NS126	0	1

	Element #1 :		Circular Culvert		
	Length (ft)	86	Rise (in)	30	Flap gate NO
	US Inv (ft)	131	DS Inv (ft)	131.5	Manning's n 0.01
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1

	From Node	To Node	Initial Flow	# Elements
RS127H	NS127	NS126	0	1

	Element #1 :		Circular Culvert		
	Length (ft)	100	Rise (in)	30	Flap gate NO
	US Inv (ft)	131.5	DS Inv (ft)	132	Manning's n 0.01
	Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels 1

	From Node	To Node	Initial Flow	# Elements
RS121C	NS121	NS114	0	2

	Element #1 :	Circular Culvert

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Reach Element Data

Length (ft)	75	Rise (in)	30	Flap gate	NO
US Inv (ft)	133	DS Inv (ft)	134	Manning's n	0.01
Velocity Coef	1	Ent Loss Coef	0.5	Number Barrels	1
Element #2 :		Rectangular Broad Crested Weir			
Length (ft)	250	Height (ft)	9999	Exponent	1.5
Crest El (ft)	138	Cd	2.4	Number Weirs	1

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Section Element Data

Box4x13	Rectangular Section w/ Constant Roughness, Manning's n = 0.012			
	Width	13	Depth	4
Box5x9	Rectangular Section w/ Constant Roughness, Manning's n = 0.012			
	Width	9	Depth	5
Box3x9	Rectangular Section w/ Constant Roughness, Manning's n = 0.012			
	Width	9	Depth	3
Box4x10	Rectangular Section w/ Constant Roughness, Manning's n = 0.012			
	Width	10	Depth	4
Box3x10	Rectangular Section w/ Constant Roughness, Manning's n = 0.012			
	Width	10	Depth	3
Box5x10	Rectangular Section w/ Constant Roughness, Manning's n = 0.012			
	Width	10	Depth	5
Box3x5	Rectangular Section w/ Constant Roughness, Manning's n = 0.012			
	Width	5	Depth	3
Box6x9	Rectangular Section w/ Constant Roughness, Manning's n = 0.012			
	Width	9	Depth	6

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Section Element Data

RB064 Irregular Section w/ Variable Roughness

Sta	0	4.97	9.95	14.92	19.89
Elev	118.17	118.18	117.87	117.67	117.21
n	0.12	0.12	0.12	0.12	0.12
Sta	24.87	29.84	34.81	39.79	44.76
Elev	116.48	115.85	115.7	115.61	115.46
n	0.12	0.12	0.12	0.12	0.12
Sta	49.73	54.71	59.68	64.65	69.63
Elev	115.35	115.34	115.54	115.7	115.7
n	0.12	0.12	0.12	0.12	0.12
Sta	74.6	79.57	84.54	89.52	94.49
Elev	115.68	115.73	115.65	115.66	115.83
n	0.12	0.12	0.12	0.12	0.12
Sta	99.46	104.44	109.41	114.38	119.36
Elev	115.89	115.85	115.69	115.47	115.3
n	0.12	0.12	0.12	0.12	0.12
Sta	124.33	129.3	134.28	139.25	144.22
Elev	115.21	115.26	115.27	115.42	115.94
n	0.12	0.12	0.12	0.12	0.12
Sta	149.2	154.17	159.14	164.12	169.09
Elev	116.35	116.51	116.68	116.92	117.19
n	0.12	0.12	0.12	0.12	0.12
Sta	174.06	179.04	184.01	188.98	193.96
Elev	117.32	117.23	117.15	117.32	117.61
n	0.12	0.12	0.12	0.12	0.12
Sta	198.93	203.9	208.88	213.85	
Elev	118.05	118.37	118.38	118.32	
n	0.12	0.12	0.12	0.12	

RB060 Irregular Section w/ Variable Roughness

Sta	0	4.91	9.81	14.72	19.63
Elev	117.59	117.38	117.22	117.16	116.96
n	0.12	0.12	0.12	0.12	0.12
Sta	24.54	29.44	34.35	39.26	44.16
Elev	116.05	114.61	113.59	113.3	113.7
n	0.12	0.12	0.06	0.06	0.06
Sta	49.07	53.98	58.89	63.79	68.7

Section Element Data

Elev	114.48	115.14	115.3	115.38	115.46
n	0.12	0.12	0.12	0.12	0.12
Sta	73.61	78.52	83.42	88.33	93.24
Elev	115.38	115.23	115.12	114.85	114.24
n	0.12	0.12	0.12	0.12	0.12
Sta	98.14	103.05	107.96	112.87	117.77
Elev	113.67	113.75	114.05	114	113.62
n	0.12	0.12	0.12	0.12	0.06
Sta	122.68	127.59	132.49	137.4	142.31
Elev	113.22	113.16	113.42	114.02	114.31
n	0.06	0.06	0.06	0.12	0.12
Sta	147.22	152.12	157.03	161.94	166.84
Elev	114.47	114.61	114.88	115.21	115.48
n	0.12	0.12	0.12	0.12	0.12
Sta	171.75	176.66	181.57	186.47	191.38
Elev	115.92	116.4	116.58	116.45	116.58
n	0.12	0.12	0.12	0.12	0.12
Sta	196.29	201.2	206.1	211.01	215.92
Elev	117	117.4	117.82	118.28	118.42
n	0.12	0.12	0.12	0.12	0.12

RB050 Irregular Section w/ Variable Roughness

Sta	0	4.94	9.88	14.83	19.77
Elev	115.86	115.06	114.39	113.91	113.66
n	0.12	0.12	0.12	0.12	0.12
Sta	24.71	29.65	34.59	39.53	44.48
Elev	113.6	113.78	114.09	114.2	114.01
n	0.12	0.12	0.12	0.12	0.12
Sta	49.42	54.36	59.3	64.24	69.18
Elev	113.88	113.97	113.94	113.83	113.8
n	0.12	0.12	0.12	0.12	0.12
Sta	74.13	79.07	84.01	88.95	93.89
Elev	113.66	113.55	113.44	112.93	112.38
n	0.12	0.12	0.12	0.12	0.12
Sta	98.84	103.78	108.72	113.66	118.6

PCS DAMBREAK SA10V

Section Element Data

Elev	112.24	112.13	112.11	112.31	112.4
n	0.12	0.12	0.12	0.12	0.12
Sta	123.54	128.49	133.43	138.37	143.31
Elev	112.57	112.79	112.77	112.85	113.12
n	0.12	0.12	0.12	0.12	0.12
Sta	148.25	153.19	158.14	163.08	168.02
Elev	113.07	112.93	112.68	112.11	110.37
n	0.12	0.12	0.12	0.12	0.12
Sta	172.96	177.9	182.84	187.79	192.73
Elev	109.08	108.85	109.56	111.6	112.73
n	0.06	0.06	0.06	0.12	0.12
Sta	197.67	202.61	207.55	212.5	217.44
Elev	112.99	113.22	113.52	113.55	114
n	0.12	0.12	0.12	0.12	0.12
Sta	222.38	227.32	232.26	237.2	242.15
Elev	114.1	114.1	114.1	114.29	114.46
n	0.12	0.12	0.12	0.12	0.12
Sta	247.09	252.03	256.97	261.91	266.85
Elev	114.45	114.44	114.71	114.83	114.76
n	0.12	0.12	0.12	0.12	0.12
Sta	271.8	276.74	281.68	286.62	291.56
Elev	114.81	115.25	115.36	115.27	115.32
n	0.12	0.12	0.12	0.12	0.12
Sta	296.51	301.45			
Elev	115.53	115.78			
n	0.12	0.12			

RB030 Irregular Section w/ Variable Roughness

Sta	0	4.72	9.45	14.17	18.9
Elev	111.35	111.22	111.14	111.02	110.68
n	0.12	0.12	0.12	0.12	0.12
Sta	23.62	28.35	33.07	37.8	42.52
Elev	108.89	106.29	106.24	106.47	107.01
n	0.12	0.06	0.06	0.06	0.06

PCS DAMBREAK SA10V

Section Element Data

Sta	47.25	51.97	56.7	61.42	66.15
Elev	107.48	109.13	110.82	111.11	111.25
n	0.06	0.12	0.12	0.12	0.12

Sta	70.87	75.6	80.32
Elev	111.35	111.44	111.51
n	0.12	0.12	0.12

RB062 Irregular Section w/ Variable Roughness

Sta	0	4.97	9.95	14.92	19.9
Elev	124.64	124.52	124.13	123.55	123.27
n	0.12	0.12	0.12	0.12	0.12

Sta	24.87	29.85	34.82	39.79	44.77
Elev	123.13	122.86	122.51	122.01	121.47
n	0.12	0.12	0.12	0.12	0.12

Sta	49.74	54.72	59.69	64.67	69.64
Elev	121.34	121.36	121.25	121.22	121.4
n	0.12	0.12	0.12	0.12	0.12

Sta	74.61	79.59	84.56	89.54	94.51
Elev	121.02	120.95	120.91	120.97	121
n	0.12	0.12	0.12	0.12	0.12

Sta	99.49	104.46	109.44	114.41	119.38
Elev	119.43	118.57	118.61	118.88	119.29
n	0.06	0.06	0.06	0.06	0.12

Sta	124.36	129.33	134.31	139.28	144.26
Elev	119.78	120.23	120.65	121.09	121.51
n	0.12	0.12	0.12	0.12	0.12

Sta	149.23	154.2	159.18	164.15	169.13
Elev	122.15	122.94	123.51	123.83	123.96
n	0.12	0.12	0.12	0.12	0.12

Sta	174.1	179.08	184.05	189.02
Elev	123.99	124.02	124.05	124.11
n	0.12	0.12	0.12	0.12

RR050 Irregular Section w/ Variable Roughness

Sta	0	49.88	54.86	59.85	154.62
Elev	121.39	121.39	121.2	121.12	121.12
n	0.12	0.12	0.12	0.12	0.12

PCS DAMBREAK SA10V

Section Element Data

Sta	159.61	164.59	169.58	264.35	269.33
Elev	121.07	120.79	120.65	120.65	120.63
n	0.12	0.12	0.12	0.12	0.12
Sta	274.32	374.08	379.06	384.05	389.04
Elev	120.42	120.42	120.37	120.19	120.09
n	0.12	0.12	0.12	0.12	0.12
Sta	394.03	399.01	483.8	488.79	493.78
Elev	119.98	119.92	119.92	119.81	119.65
n	0.12	0.12	0.12	0.12	0.12
Sta	593.53	598.52	603.51	608.5	613.48
Elev	119.65	119.51	119.4	119.4	119.27
n	0.12	0.12	0.12	0.12	0.12
Sta	618.47	623.46	628.45	703.26	708.25
Elev	118.98	118.7	118.67	118.67	117.52
n	0.12	0.12	0.12	0.12	0.12
Sta	713.24	812.99	817.98	822.97	837.93
Elev	117.03	117.03	115.32	115.02	115.02
n	0.12	0.12	0.06	0.06	0.06
Sta	842.92	847.91	852.89	917.73	922.72
Elev	115.12	115.23	115.3	115.3	115.41
n	0.06	0.06	0.06	0.06	0.06
Sta	927.71	1032.45	1037.44	1042.42	1062.38
Elev	116.59	116.59	116.85	118.26	118.26
n	0.12	0.12	0.12	0.12	0.12
Sta	1067.36	1072.35	1077.34	1082.33	1142.18
Elev	118.35	118.62	118.88	118.94	118.94
n	0.12	0.12	0.12	0.12	0.12
Sta	1147.17	1152.15	1212.01	1216.99	1221.98
Elev	119.35	120.28	120.28	120.28	120.28
n	0.12	0.12	0.12	0.12	0.12
Sta	1226.97	1231.96	1236.94	1241.93	1246.92
Elev	120.28	120.28	120.28	120.28	120.28
n	0.12	0.12	0.12	0.12	0.12

PCS DAMBREAK SA10V

Section Element Data

Sta	1251.91	1256.89	1261.88	1266.87	1271.86
Elev	120.28	120.95	121.75	121.75	121.75
n	0.12	0.12	0.12	0.12	0.12
Sta	1276.85	1281.83	1286.82	1291.81	1296.8
Elev	121.75	121.75	121.75	121.75	121.9
n	0.12	0.12	0.12	0.12	0.12
Sta	1301.78	1306.77	1311.76	1316.75	1321.73
Elev	122.1	122.25	122.25	122.25	122.25
n	0.12	0.12	0.12	0.12	0.12
Sta	1326.72	1331.71	1336.7	1341.69	1346.67
Elev	122.25	122.25	122.25	122.25	122.25
n	0.12	0.12	0.12	0.12	0.12
Sta	1351.66	1356.65	1361.64	1366.62	1371.61
Elev	122.25	122.25	122.25	123.19	123.79
n	0.12	0.12	0.12	0.12	0.12
Sta	1376.6	1381.59	1386.57	1391.56	1396.55
Elev	123.79	123.79	123.79	123.79	123.79
n	0.12	0.12	0.12	0.12	0.12
Sta	1401.54	1406.53	1411.51	1416.5	1421.49
Elev	123.79	123.79	123.79	123.79	123.79
n	0.12	0.12	0.12	0.12	0.12
Sta	1426.48	1431.46	1436.45	1441.44	1446.43
Elev	123.79	123.79	123.79	123.79	123.79
n	0.12	0.12	0.12	0.12	0.12

RR030 Irregular Section w/ Variable Roughness

Sta	0	9.98	19.97	44.92	54.91
Elev	113.79	113.96	113.34	113.33	112.77
n	0.12	0.12	0.12	0.12	0.12
Sta	64.89	84.86	124.79	149.75	174.71
Elev	113.12	112.33	112.31	110.7	110.68
n	0.12	0.12	0.12	0.12	0.12
Sta	199.66	219.63	249.58	304.49	334.44
Elev	109.93	109.75	108.95	107.79	107.3
n	0.12	0.12	0.12	0.12	0.12

PCS DAMBREAK SA10V

Section Element Data

Sta	349.41	359.39	394.34	409.31	429.28
Elev	106.56	106.53	104.93	104.8	103.52
n	0.12	0.12	0.12	0.12	0.12
Sta	469.21	484.18	504.15	534.1	569.04
Elev	102.66	101.74	101.71	100.19	99.46
n	0.12	0.12	0.12	0.12	0.12
Sta	603.98	623.95	663.88	683.85	693.83
Elev	100.1	99.85	99.92	99.35	100.17
n	0.12	0.12	0.12	0.12	0.12
Sta	708.81	718.79	733.76	748.74	758.72
Elev	100.45	99.64	99.69	100.59	100.13
n	0.12	0.12	0.12	0.12	0.12
Sta	783.68	793.66	818.62	838.59	858.55
Elev	100.68	100.27	101.09	100.98	100.45
n	0.12	0.12	0.12	0.12	0.12
Sta	873.53	888.5	898.49	918.45	928.44
Elev	101.01	101.11	100.57	100.3	99.42
n	0.12	0.12	0.12	0.12	0.12
Sta	938.42	948.4	958.38	968.37	983.34
Elev	99.8	99.29	97.96	98.13	94.81
n	0.12	0.12	0.12	0.12	0.06
Sta	988.33	998.32	1008.3	1013.29	1033.26
Elev	94.23	94.65	99.03	99.98	99.45
n	0.06	0.06	0.12	0.12	0.12
Sta	1053.22	1068.2	1073.19	1093.16	1103.14
Elev	100.08	99.61	98.7	98.51	98.9
n	0.12	0.12	0.12	0.12	0.12
Sta	1118.12	1138.08	1148.06	1158.05	1183.01
Elev	98.65	99.24	100.46	100.71	102.36
n	0.12	0.12	0.12	0.12	0.12
Sta	1202.97	1222.94	1237.91	1282.84	1307.8
Elev	102.59	103.85	103.9	105.13	106.04
n	0.12	0.12	0.12	0.12	0.12

Section Element Data

Sta	1322.77	1337.75	1377.68	1412.62	1422.6
Elev	105.97	106.71	107.26	108.2	107.98
n	0.12	0.12	0.12	0.12	0.12
Sta	1452.55	1472.52	1492.48	1522.43	1532.42
Elev	108.69	108.81	110.15	110.34	109.73
n	0.12	0.12	0.12	0.12	0.12
Sta	1572.35	1617.27	1627.26	1642.23	1677.17
Elev	109.57	110.64	110.13	110.77	110.81
n	0.12	0.12	0.12	0.12	0.12
Sta	1707.12	1737.07	1747.06	1767.02	1777
Elev	112.1	111.72	112.06	112	112.58
n	0.12	0.12	0.12	0.12	0.12
Sta	1821.93	1836.9	1866.85	1886.82	1906.79
Elev	113.25	114.05	114.8	115.92	115.71
n	0.12	0.12	0.12	0.12	0.12
Sta	1941.73	1951.71	1976.67	1996.63	2011.61
Elev	116.04	116.56	116.14	116.4	117.17
n	0.12	0.12	0.12	0.12	0.12

RS131 Irregular Section w/ Variable Roughness

Sta	0	4.94	9.89	14.83	19.78
Elev	134.99	134.73	134.19	133.81	133.69
n	0.12	0.12	0.12	0.12	0.12
Sta	24.72	29.66	34.61	39.55	44.5
Elev	133.4	132.94	132.51	131.28	128.97
n	0.12	0.12	0.12	0.12	0.06
Sta	49.44	54.39	59.33	64.27	69.22
Elev	127.24	126.7	126.66	126.9	128.3
n	0.06	0.06	0.06	0.06	0.06
Sta	74.16	79.11	84.05	88.99	93.94
Elev	130.57	132.58	134.06	134.97	135.25
n	0.12	0.12	0.12	0.12	0.12
Sta	98.88				
Elev	135.55				
n	0.12				

PCS DAMBREAK SA10V

Section Element Data

RS123 Irregular Section w/ Variable Roughness

Sta	0	4.66	9.32	13.98	18.64
Elev	141.17	140.09	136.51	133.03	131.14
n	0.12	0.12	0.12	0.12	0.12
Sta	23.3	27.96	32.62	37.28	41.94
Elev	130.58	130.92	132.29	135.62	138.49
n	0.12	0.12	0.12	0.12	0.12
Sta	46.6	51.26			
Elev	139.97	140.44			
n	0.12	0.12			

RS120B Irregular Section w/ Variable Roughness

Sta	0	4.86	9.73	14.59	19.45
Elev	141.9	141.58	139.46	137.51	137.1
n	0.12	0.12	0.12	0.12	0.12
Sta	24.32	29.18	34.04	38.91	43.77
Elev	137.06	137.08	136.87	136.16	135.26
n	0.12	0.12	0.12	0.12	0.12
Sta	48.63	53.5	58.36	63.22	68.08
Elev	134.36	134.29	134.26	134.2	134.18
n	0.12	0.12	0.12	0.12	0.12
Sta	72.95	77.81	82.67	87.54	92.4
Elev	134.18	134.19	134.19	134.25	134.78
n	0.12	0.12	0.12	0.12	0.12
Sta	97.26	102.13	106.99	111.85	116.72
Elev	135.2	135.35	136.02	136.1	136.75
n	0.12	0.12	0.12	0.12	0.12
Sta	121.58	126.44	131.31	136.17	141.03
Elev	137.3	137.82	138.22	138.72	139.32
n	0.12	0.12	0.12	0.12	0.12
Sta	145.9	150.76	155.62	160.49	165.35
Elev	140.07	141.37	142.92	144.66	146.48
n	0.12	0.12	0.12	0.12	0.12

RS114 Irregular Section w/ Variable Roughness

Sta	0	4.9	9.8	14.71	19.61

PCS DAMBREAK SA10V

Section Element Data

Elev	136.01	135.67	134.43	133.83	133.48
n	0.12	0.12	0.12	0.12	0.12
Sta	24.51	29.41	34.31	39.22	44.12
Elev	133.4	133.22	133.11	133.11	133.01
n	0.12	0.12	0.12	0.12	0.12
Sta	49.02	53.92	58.82	63.73	68.63
Elev	132.88	132.75	132.74	132.87	132.9
n	0.12	0.12	0.12	0.12	0.12
Sta	73.53	78.43	83.33	88.24	93.14
Elev	132.8	132.85	133.01	134.02	134.66
n	0.12	0.12	0.12	0.12	0.12
Sta	98.04	102.94	107.84	112.75	
Elev	134.68	134.89	135.26	135.52	
n	0.12	0.12	0.12	0.12	

RS112A Irregular Section w/ Variable Roughness

Sta	0	4.91	9.81	14.72	19.63
Elev	140.65	140.42	140.11	139.71	138.29
n	0.12	0.12	0.12	0.12	0.12
Sta	24.54	29.44	34.35	39.26	44.17
Elev	136.95	135.62	134.72	133.84	133.38
n	0.12	0.12	0.12	0.12	0.12
Sta	49.07	53.98	58.89	63.8	68.7
Elev	133.51	133.64	133.77	133.89	134.11
n	0.12	0.12	0.12	0.12	0.12
Sta	73.61	78.52	83.43	88.33	93.24
Elev	134.31	134.72	135.61	137.22	138.39
n	0.12	0.12	0.12	0.12	0.12
Sta	98.15	103.05	107.96	112.87	117.78
Elev	138.49	138.52	138.86	138.91	139.85
n	0.12	0.12	0.12	0.12	0.12
Sta	122.68	127.59			
Elev	142.11	143.74			
n	0.12	0.12			

RS118 Irregular Section w/ Variable Roughness

PCS DAMBREAK SA10V

Section Element Data

Sta	0	4.92	9.84	14.76	19.67
Elev	144.48	144.12	143.77	143.48	143.18
n	0.12	0.12	0.12	0.12	0.12
Sta	24.59	29.51	34.43	39.35	44.27
Elev	142.92	142.45	142.18	141.77	141.32
n	0.12	0.12	0.12	0.12	0.12
Sta	49.19	54.1	59.02	63.94	68.86
Elev	140.79	140.29	139.53	138.71	138.26
n	0.12	0.12	0.12	0.12	0.12
Sta	73.78	78.7	83.62	88.53	93.45
Elev	137.96	137.67	137.44	137.08	136.6
n	0.12	0.12	0.12	0.12	0.12
Sta	98.37	103.29	108.21	113.13	118.04
Elev	136.29	135.8	135.01	134.51	134.38
n	0.12	0.12	0.12	0.12	0.12
Sta	122.96	127.88	132.8	137.72	142.64
Elev	134.36	134.41	134.48	134.55	134.66
n	0.12	0.12	0.12	0.12	0.12
Sta	147.56	152.47	157.39	162.31	167.23
Elev	134.84	135.05	135.38	135.87	136.81
n	0.12	0.12	0.12	0.12	0.12
Sta	172.15	177.07	181.99	186.9	191.82
Elev	137.65	138.06	138.56	138.8	139.27
n	0.12	0.12	0.12	0.12	0.12
Sta	196.74	201.66	206.58	211.5	216.42
Elev	139.75	140.21	140.37	140.45	140.76
n	0.12	0.12	0.12	0.12	0.12

RS110 Irregular Section w/ Variable Roughness

Sta	0	4.86	9.72	14.58	19.44
Elev	137.11	136.87	136.52	136.3	136.24
n	0.12	0.12	0.12	0.12	0.12
Sta	24.3	29.16	34.02	38.88	43.74
Elev	136.14	136.24	136.13	135.91	135.83
n	0.12	0.12	0.12	0.12	0.12
Sta	48.59	53.45	58.31	63.17	68.03
Elev	135.49	134.81	134.02	133.9	133.88

Section Element Data

n	0.12	0.12	0.12	0.12	0.12
Sta	72.89	77.75	82.61	87.47	92.33
Elev	133.87	133.85	133.83	133.82	133.81
n	0.12	0.12	0.12	0.12	0.12
Sta	97.19	102.05	106.91	111.77	116.63
Elev	133.81	133.94	133.91	134.25	134.48
n	0.12	0.12	0.12	0.12	0.12
Sta	121.49	126.35	131.21	136.06	140.92
Elev	135.27	136.63	138.07	138.79	138.85
n	0.12	0.12	0.12	0.12	0.12
Sta	145.78	150.64	155.5	160.36	165.22
Elev	140.28	142.34	143.81	144.75	145.11
n	0.12	0.12	0.12	0.12	0.12

RC017 Irregular Section w/ Variable Roughness

Sta	0	4.93	9.85	14.78	19.71
Elev	131.66	131.37	131.04	130.82	130.7
n	0.12	0.12	0.12	0.12	0.12
Sta	24.63	29.56	34.48	39.41	44.34
Elev	130.56	130.37	129.95	129.64	129.53
n	0.12	0.12	0.12	0.12	0.12
Sta	49.26	54.19	59.12	64.04	68.97
Elev	129.43	129.06	128.59	128.31	128.12
n	0.12	0.12	0.12	0.12	0.12
Sta	73.89	78.82	83.75	88.67	93.6
Elev	127.68	127.21	126.86	126.62	126.96
n	0.12	0.12	0.12	0.12	0.12
Sta	98.53	103.45	108.38	113.31	118.23
Elev	126.8	126.38	126.17	126.29	126.45
n	0.12	0.06	0.06	0.06	0.12
Sta	123.16	128.08	133.01	137.94	142.86
Elev	126.62	126.75	126.81	126.67	126.22
n	0.12	0.12	0.12	0.12	0.06
Sta	147.79	152.72	157.64	162.57	167.49
Elev	126	125.97	126.25	126.42	126.57
n	0.06	0.06	0.06	0.12	0.12

PCS DAMBREAK SA10V

Section Element Data

Sta	172.42	177.35	182.27	187.2	192.13
Elev	126.69	126.8	126.89	126.82	127.07
n	0.12	0.12	0.12	0.12	0.12
Sta	197.05	201.98	206.91	211.83	216.76
Elev	127.47	127.8	127.99	128.01	128.21
n	0.12	0.12	0.12	0.12	0.12
Sta	221.68	226.61	231.54	236.46	241.39
Elev	128.53	128.79	128.92	129.05	129.25
n	0.12	0.12	0.12	0.12	0.12
Sta	246.32	251.24	256.17	261.1	266.02
Elev	129.59	129.84	129.93	129.93	129.9
n	0.12	0.12	0.12	0.12	0.12
Sta	270.95	275.87	280.8	285.73	290.65
Elev	129.87	130.27	130.45	130.44	130.59
n	0.12	0.12	0.12	0.12	0.12
Sta	295.58	300.51	305.43	310.36	315.28
Elev	131.02	131.51	131.82	131.99	132.14
n	0.12	0.12	0.12	0.12	0.12

RC016 Irregular Section w/ Variable Roughness

Sta	0	4.97	9.93	14.9	19.86
Elev	128.29	128.24	128.36	128.24	127.98
n	0.12	0.12	0.12	0.12	0.12
Sta	24.83	29.79	39.72	44.69	54.62
Elev	127.85	128.11	127.79	127.79	127.28
n	0.12	0.12	0.12	0.12	0.12
Sta	59.58	64.55	69.51	74.48	89.38
Elev	127.09	126.99	126.64	126.4	126.65
n	0.12	0.12	0.12	0.12	0.12
Sta	94.34	109.24	114.2	124.13	129.1
Elev	126.63	125.77	125.54	125.36	125.22
n	0.12	0.12	0.12	0.12	0.12
Sta	139.03	148.96	153.93	168.82	178.75
Elev	124.74	124.47	124.42	123.95	123.33
n	0.12	0.12	0.12	0.12	0.12

PCS DAMBREAK SA10V

Section Element Data

Sta	183.72	188.68	193.65	203.58	208.54
Elev	123.43	123.44	123.31	122.76	122.64
n	0.12	0.12	0.12	0.12	0.12
Sta	218.47	223.44	228.41	233.37	243.3
Elev	122.61	122.52	122.25	122.08	122.14
n	0.12	0.12	0.12	0.12	0.12
Sta	248.27	253.23	263.16	268.13	273.09
Elev	121.98	121.69	121.46	121.15	121.15
n	0.12	0.12	0.12	0.12	0.12
Sta	278.06	283.02	292.95	297.92	302.89
Elev	121.28	121.27	120.95	120.69	120.35
n	0.12	0.12	0.12	0.12	0.12
Sta	307.85	312.82	317.78	322.75	327.71
Elev	119.85	119.24	118.86	118.68	118.65
n	0.12	0.12	0.06	0.06	0.06
Sta	337.64	347.57	352.54	357.5	367.43
Elev	118.81	119.1	118.99	118.64	119.24
n	0.06	0.12	0.12	0.12	0.12
Sta	372.4	377.37	382.33	387.3	392.26
Elev	119.38	119.36	119.23	119.02	118.48
n	0.12	0.12	0.12	0.12	0.06
Sta	402.19	417.09	422.05	427.02	446.88
Elev	118.18	118.41	119.16	119.78	121.57
n	0.06	0.06	0.12	0.12	0.12
Sta	451.85	456.81	461.78	471.71	476.67
Elev	122.1	122.75	123.18	123.76	123.98
n	0.12	0.12	0.12	0.12	0.12
Sta	486.6	491.57	496.53	506.46	511.43
Elev	124.15	124.5	124.95	125.29	125.6
n	0.12	0.12	0.12	0.12	0.12
Sta	516.39	521.36	526.33	541.22	551.15
Elev	125.47	125.45	125.66	126.02	126.05
n	0.12	0.12	0.12	0.12	0.12

PCS DAMBREAK SA10V

Section Element Data

Sta	566.05	571.01	575.98	580.94	585.91
Elev	125.94	126.16	126.64	126.79	126.79
n	0.12	0.12	0.12	0.12	0.12
Sta	590.87	595.84	605.77	610.74	615.7
Elev	127.32	127.58	127.48	127.17	127.42
n	0.12	0.12	0.12	0.12	0.12
Sta	625.63	630.6	640.53	645.49	655.42
Elev	127.75	127.83	127.58	127.63	128.07
n	0.12	0.12	0.12	0.12	0.12
Sta	660.39	665.35	670.32	675.29	685.22
Elev	128.18	127.99	127.94	128.22	128.58
n	0.12	0.12	0.12	0.12	0.12

RS105A Irregular Section w/ Variable Roughness

Sta	0	4.88	9.77	14.65	19.53
Elev	132.08	131.42	129.6	127.92	126.39
n	0.12	0.12	0.12	0.12	0.12
Sta	24.42	29.3	34.18	39.07	43.95
Elev	124.13	121.63	118.7	116.84	117.41
n	0.12	0.12	0.12	0.12	0.12
Sta	48.83	53.72	58.6	63.48	68.37
Elev	118.11	118.8	118.89	119.8	121.97
n	0.12	0.12	0.12	0.12	0.12
Sta	73.25	78.13	83.02	87.9	92.78
Elev	124.6	128.03	129.77	130.14	130.37
n	0.12	0.12	0.12	0.12	0.12

RS100 Irregular Section w/ Variable Roughness

Sta	0	4.98	9.96	14.94	19.92
Elev	110.43	110.18	109.92	109.67	109.62
n	0.12	0.12	0.12	0.12	0.12
Sta	24.9	29.88	34.86	39.84	44.83
Elev	109.7	109.49	109.16	108.86	108.3
n	0.12	0.12	0.12	0.12	0.12
Sta	49.81	54.79	59.77	64.75	69.73
Elev	107.98	107.54	107.51	108.06	108.26

PCS DAMBREAK SA10V

Section Element Data

n	0.12	0.12	0.12	0.12	0.12
Sta	74.71	79.69	84.67	89.65	94.63
Elev	108.04	107.46	107.29	107.4	107.39
n	0.12	0.12	0.12	0.12	0.12
Sta	99.61	104.59	109.57	114.55	119.53
Elev	107.6	107.33	106.9	106.9	107.09
n	0.12	0.12	0.06	0.06	0.06
Sta	124.51	129.5	134.48	139.46	144.44
Elev	107.91	108.95	109.56	109.85	110.11
n	0.12	0.12	0.12	0.12	0.12
Sta	149.42	154.4	159.38	164.36	169.34
Elev	110.66	111.1	111.35	111.46	111.28
n	0.12	0.12	0.12	0.12	0.12
Sta	174.32	179.3			
Elev	111.33	111.52			
n	0.12	0.12			

XSECT10 Trapezoidal Section w/ Constant Roughness, Manning's n = 0.1

Bot Width	10	Depth	7
Lt Slope	2.5	Rt Slope	2.5

XSECT50 Trapezoidal Section w/ Constant Roughness, Manning's n = 0.05

Bot Width	50	Depth	7
Lt Slope	2.5	Rt Slope	2.5

XSECTSC1 Irregular Section w/ Variable Roughness

Sta	0	50	1350	3400	4000
Elev	129	125	120	120	120
n	0.1	0.1	0.1	0.1	0.1
Sta	4200	4800	4925	4930	4980
Elev	115	110	108	103	103
n	0.12	0.08	0.08	0.08	0.08

PCS DAMBREAK SA10V

Section Element Data

Sta	5100	5250	5900	7300
Elev	110	115	120	125
n	0.1	0.1	0.1	0.1

XSECTSC2 Irregular Section w/ Variable Roughness

Sta	0	850	1080	1130	1200
Elev	135	130	125	120	115
n	0.12	0.12	0.12	0.12	0.1
Sta	1275	1350	1425	1500	1625
Elev	110	105	100	98	100
n	0.1	0.12	0.1	0.08	0.12
Sta	1775	1850	1925	2000	2125
Elev	105	110	115	120	125
n	0.12	0.1	0.12	0.1	0.1
Sta	2750	3050	3125	3400	4175
Elev	130	130	128	130	135
n	0.1	0.1	0.12	0.12	0.1

XSECTCB1 Irregular Section w/ Variable Roughness

Sta	0	480	700	800	910
Elev	140	135	130	125	120
n	0.12	0.12	0.12	0.15	0.15
Sta	1000	1080	1220	1290	1360
Elev	115	112	115	120	125
n	0.15	0.15	0.15	0.15	0.15
Sta	1470	1800	2000		
Elev	130	135	137		
n	0.12	0.12	0.12		

XSECTUSW Irregular Section w/ Constant Roughness, Manning's n = 0.1

Sta	0	23	45	50	320
Elev	143	130	130	128	128
Sta	325	330	338	350	370
Elev	125	125	128	130	130
Sta	395	403	407	415	449
Elev	128	125	125	127	127

PCS DAMBREAK SA10V

Section Element Data

Sta	459	467	481	521	531
Elev	124	124	128	128	131
Sta	554				
Elev	139				

XSECTMSW Irregular Section w/ Variable Roughness

Sta	0	23	45	50	250
Elev	143	130	130	128	128
n	0.1	0.1	0.1	0.12	0.12
Sta	255	260	268	280	300
Elev	125	125	128	130	130
n	0.12	0.12	0.1	0.1	0.1
Sta	324	332	336	344	600
Elev	128	125	125	127	127
n	0.1	0.12	0.1	0.12	0.12
Sta	610	720	734	950	960
Elev	124	124	128	128	131
n	0.1	0.1	0.12	0.1	0.1
Sta	983				
Elev	139				
n	0.1				

XSECTBR1 Irregular Section w/ Constant Roughness, Manning's n = 0.06

Sta	0	9.2	30	52.4	58.7
Elev	96.91	90.66	90.94	91.12	94.57
Sta	74				
Elev	96.11				

XSECTBR3 Irregular Section w/ Constant Roughness, Manning's n = 0.06

Sta	0	1	5	14	22
Elev	114.33	111.46	107.99	105.6	106.14
Sta	28	36	47	55	56
Elev	106.43	106.06	107.99	112.75	114.24

XSECT12 Irregular Section w/ Constant Roughness, Manning's n = 0.15

PCS DAMBREAK SA10V

Section Element Data

Sta	0	70	170	250	300
Elev	115	110	105	100	95
Sta	380	410	460	750	900
Elev	90	89	90	95	100
Sta	1000	1170	1200		
Elev	105	110	115		

XSECSCRR Irregular Section w/ Constant Roughness, Manning's n = 0.06

Sta	0	13.6	27.1	40.95	54.35
Elev	108.9	104.9	100.1	96.24	91.02
Sta	68.05	81.95	95.75	109.65	123.05
Elev	90.98	90.08	88.37	87.68	87.65
Sta	136.25	150.7	164.25	178.9	
Elev	88.3	90.6	95.79	102.61	

XSECSC41 Irregular Section w/ Constant Roughness, Manning's n = 0.06

Sta	0	18.5	22.5	45.85	61.5
Elev	90.26	88.86	87.96	87.06	87.06
Sta	66.94	72.1	90.8	109.5	
Elev	88.36	90.06	92.06	94.06	

XSECSC15 Irregular Section w/ Constant Roughness, Manning's n = 0.15

Sta	0	100	200	350	450
Elev	115	110	105	100	95
Sta	520	600	630	680	710
Elev	90	85	84	85	90
Sta	800	900	1000	1150	1200
Elev	95	100	105	110	115

XSECSC16 Irregular Section w/ Constant Roughness, Manning's n = 0.06

Sta	0	6	7	35	36
Elev	85	82	79.6	79.6	83
Sta	41				
Elev	85				

PCS DAMBREAK SA10V

Section Element Data

XSECSC17 Irregular Section w/ Constant Roughness, Manning's n = 0.15

Sta	0	100	180	220	270
Elev	125	120	115	110	105
Sta	300	340	400	480	490
Elev	100	95	90	85	80
Sta	500	560	580	700	900
Elev	78	80	85	90	95
Sta	1000	1090	1170	1250	1350
Elev	100	105	110	115	120
Sta	1410				
Elev	125				

XSECSC18 Irregular Section w/ Constant Roughness, Manning's n = 0.06

Sta	0	12	24	29	38
Elev	81.96	75.29	74.94	68.74	64.82
Sta	41	47	53	58	68
Elev	61.31	60.17	59.4	59.95	61.38
Sta	79	98	117	127	140
Elev	72.76	72.43	69.83	65.68	66.07
Sta	154	164	179	189	198
Elev	65.82	71.02	78.47	78.48	82.71

XSECSC19 Irregular Section w/ Constant Roughness, Manning's n = 0.15

Sta	0	70	150	160	170
Elev	92	90	85	80	75
Sta	190	210	220	230	260
Elev	70	65	60	65	70
Sta	300	500	950	1020	1130
Elev	75	80	85	90	95
Sta	1200				
Elev	100				

SECELRR Irregular Section w/ Variable Roughness

Sta	0	1	5	14	14
Elev	114.33	111.46	107.99	105.6	105.6

PCS DAMBREAK SA10V

Section Element Data

n	0.06	0.06	0.06	0.06	0.015
Sta	14	15	15	22	28
Elev	114.33	114.33	105.67	106.14	106.43
n	0.015	0.015	0.06	0.06	0.06
Sta	28.5	28.5	29.5	29.5	36
Elev	106.41	114.33	114.33	106.36	106.06
n	0.015	0.015	0.015	0.06	0.06
Sta	42.5	42.5	43.5	43.5	47
Elev	107.2	114.33	114.33	107.38	107.99
n	0.015	0.015	0.015	0.06	0.06
Sta	55	56	56	43.5	42.5
Elev	112.75	114.24	114.33	114.33	114.33
n	0.06	0.06	0.015	0.015	0.015
Sta	29.5	28.5	15	14	0
Elev	114.33	114.33	114.33	114.33	114.33
n	0.015	0.015	0.015	0.015	0.015

XCHURCH Irregular Section w/ Variable Roughness

Sta	0	0	9.2	15.3	15.3
Elev	99.9	96.91	90.66	90.74	99.9
n	0.015	0.06	0.06	0.015	0.015
Sta	16.3	16.3	29.5	29.5	30.5
Elev	99.9	90.76	90.93	99.9	99.9
n	0.015	0.06	0.015	0.015	0.015
Sta	30.5	43.9	43.9	44.9	44.9
Elev	90.94	91.05	99.9	99.9	91.06
n	0.06	0.015	0.015	0.015	0.06
Sta	52.4	58.5	58.5	59.5	59.5
Elev	91.12	94.46	99.9	99.9	94.65
n	0.06	0.015	0.015	0.015	0.06
Sta	74	74	59.5	58.5	44.9
Elev	96.11	99.9	99.9	99.9	99.9
n	0.06	0.015	0.015	0.015	0.015
Sta	43.9	30.5	29.5	16.3	15.3
Elev	99.9	99.9	99.9	99.9	99.9
n	0.015	0.015	0.015	0.015	0.015

Section Element Data

Sta	0
Elev	99.9
n	0.015

SEC41RR Irregular Section w/ Variable Roughness

Sta	0	13.1	13.1	14.1	14.1
Elev	108.9	105.05	108.9	108.9	104.72
n	0.06	0.015	0.015	0.015	0.06
Sta	26.6	26.6	27.6	27.6	40.45
Elev	100.28	108.9	108.9	99.96	96.38
n	0.015	0.015	0.015	0.06	0.015
Sta	40.45	41.45	41.45	53.85	53.85
Elev	108.9	108.9	96.05	91.21	108.9
n	0.015	0.015	0.06	0.015	0.015
Sta	54.85	54.85	67.55	67.55	68.55
Elev	108.9	91.02	90.98	108.9	108.9
n	0.015	0.06	0.015	0.015	0.015
Sta	68.55	81.45	81.45	82.45	82.45
Elev	90.95	90.11	108.9	108.9	90.02
n	0.06	0.015	0.015	0.015	0.06
Sta	95.25	95.25	96.25	96.25	109.15
Elev	88.43	108.9	108.9	88.35	87.7
n	0.015	0.015	0.015	0.06	0.015
Sta	109.15	110.15	110.15	122.55	122.55
Elev	108.9	108.9	87.68	87.65	108.9
n	0.015	0.015	0.06	0.015	0.015
Sta	123.55	123.55	135.75	135.75	136.75
Elev	108.9	87.67	88.28	108.9	108.9
n	0.015	0.06	0.015	0.015	0.015
Sta	136.75	150.2	150.2	151.2	151.2
Elev	88.38	90.52	108.9	108.9	90.79
n	0.06	0.015	0.015	0.015	0.06
Sta	163.75	163.75	164.75	164.75	178.9
Elev	95.6	108.9	108.9	96.02	102.61
n	0.015	0.015	0.015	0.06	0.06
Sta	178.9	164.75	163.75	151.2	150.2
Elev	108.9	108.9	108.9	108.9	108.9

PCS DAMBREAK SA10V

Section Element Data

n	0.015	0.015	0.015	0.015	0.015
Sta	136.75	135.75	123.55	122.55	110.15
Elev	108.9	108.9	108.9	108.9	108.9
n	0.015	0.015	0.015	0.015	0.015
Sta	109.15	96.25	95.25	82.45	81.45
Elev	108.9	108.9	108.9	108.9	108.9
n	0.015	0.015	0.015	0.015	0.015
Sta	68.55	67.55	54.85	53.85	41.45
Elev	108.9	108.9	108.9	108.9	108.9
n	0.015	0.015	0.015	0.015	0.015
Sta	40.45	27.6	26.6	14.1	13.1
Elev	108.9	108.9	108.9	108.9	108.9
n	0.015	0.015	0.015	0.015	0.015
Sta	0				
Elev	108.9				
n	0.015				

SECUS41 Irregular Section w/ Variable Roughness

Sta	0	0	18.5	22.5	27.75
Elev	99.26	90.26	88.86	87.96	87.76
n	0.015	0.06	0.06	0.06	0.015
Sta	27.75	29.75	29.75	45.85	53.75
Elev	99.26	99.26	87.68	87.06	87.06
n	0.015	0.015	0.06	0.06	0.015
Sta	53.75	55.75	55.75	61.5	66.94
Elev	99.26	99.26	87.06	87.06	88.36
n	0.015	0.015	0.06	0.06	0.06
Sta	72.1	79.9	79.9	81.9	81.9
Elev	90.06	90.89	99.26	99.26	91.11
n	0.06	0.015	0.015	0.015	0.06
Sta	90.8	109.5	109.5	81.9	79.9
Elev	92.06	94.06	99.26	99.26	99.26
n	0.06	0.06	0.015	0.015	0.015
Sta	55.75	53.75	29.75	27.75	0
Elev	99.26	99.26	99.26	99.26	99.26
n	0.015	0.015	0.015	0.015	0.015

PCS DAMBREAK SA10V

Section Element Data

SECWUS41 Irregular Section w/ Variable Roughness

Sta	0	0	6	7	13.5
Elev	90	85	82	79.6	79.6
n	0.015	0.06	0.06	0.06	0.015
Sta	13.5	14.5	14.5	34.5	34.5
Elev	90	90	79.6	79.6	90
n	0.015	0.015	0.06	0.015	0.015
Sta	35.5	35.5	36	41	41
Elev	90	81.3	83	85	90
n	0.015	0.06	0.06	0.06	0.015
Sta	35.5	34.5	14.5	13.5	0
Elev	90	90	90	90	90
n	0.015	0.015	0.015	0.015	0.015

SECRIVRD Irregular Section w/ Variable Roughness

Sta	0	0	12	24	28.5
Elev	91.96	81.96	75.29	74.94	69.36
n	0.015	0.06	0.06	0.06	0.015
Sta	28.5	29.5	29.5	38	41
Elev	91.96	91.96	68.52	64.82	61.31
n	0.015	0.015	0.06	0.06	0.06
Sta	47	53	58	63.5	63.5
Elev	60.17	59.4	59.95	60.74	91.96
n	0.06	0.06	0.06	0.015	0.015
Sta	64.5	64.5	68	79	97.5
Elev	91.96	60.88	61.38	72.76	72.44
n	0.015	0.06	0.06	0.06	0.015
Sta	97.5	98.5	98.5	117	127
Elev	91.96	91.96	72.36	69.83	65.68
n	0.015	0.015	0.06	0.06	0.06
Sta	132.5	132.5	133.5	133.5	140
Elev	65.85	91.96	91.96	65.88	66.07
n	0.015	0.015	0.015	0.06	0.06
Sta	154	164	167.5	167.5	168.5
Elev	65.82	71.02	72.76	91.96	91.96
n	0.06	0.06	0.015	0.015	0.015

PCS DAMBREAK SA10V

Section Element Data

Sta	168.5	179	189	198	198
Elev	73.26	78.47	78.48	82.71	91.96
n	0.06	0.06	0.06	0.06	0.015
Sta	168.5	167.5	133.5	132.5	98.5
Elev	91.96	91.96	91.96	91.96	91.96
n	0.015	0.015	0.015	0.015	0.015
Sta	97.5	64.5	63.5	29.5	28.5
Elev	91.96	91.96	91.96	91.96	91.96
n	0.015	0.015	0.015	0.015	0.015
Sta	0				
Elev	91.96				
n	0.015				

9x5Box Rectangular Section w/ Constant Roughness, Manning's n = 0.012

Width 9 Depth 5

SECTCB2 Irregular Section w/ Variable Roughness

Sta	0	750	800	850	880
Elev	125	120	115	110	105
n	0.15	0.15	0.15	0.15	0.15
Sta	940	970	1000	1020	1200
Elev	100	95	94	95	100
n	0.15	0.15	0.15	0.15	0.15
Sta	1370	1500	1600	1740	2000
Elev	105	110	115	120	125
n	0.15	0.15	0.15	0.15	0.15

BOX10X12 Rectangular Section w/ Constant Roughness, Manning's n = 0.012

Width 10 Depth 12

XSECTCB3 Irregular Section w/ Variable Roughness

PCS DAMBREAK SA10V

Section Element Data

Sta	0	100	180	250	300
Elev	125	120	115	110	105
n	0.15	0.15	0.15	0.15	0.15
Sta	350	440	580	650	750
Elev	100	95	90	87	90
n	0.15	0.15	0.15	0.15	0.15
Sta	900	1080	1220	1400	1600
Elev	95	100	105	110	115
n	0.15	0.15	0.15	0.15	0.15
Sta	1780	1900			
Elev	120	125			
n	0.15	0.15			

RC010 Irregular Section w/ Variable Roughness

Sta	0	4.98	9.95	14.93	24.88
Elev	124.79	124.79	124.7	124.38	124.11
n	0.12	0.12	0.12	0.12	0.12
Sta	29.85	34.83	39.8	44.78	54.73
Elev	123.68	123.75	123.39	123.41	123.23
n	0.12	0.12	0.12	0.12	0.12
Sta	59.7	69.66	79.61	84.58	104.48
Elev	123.04	122.45	122.23	122.21	121.52
n	0.12	0.12	0.12	0.12	0.12
Sta	114.43	119.41	129.36	134.34	139.31
Elev	121.06	120.92	121.08	120.95	120.37
n	0.12	0.12	0.12	0.12	0.12
Sta	154.24	159.21	164.19	169.16	179.11
Elev	119.21	118.6	117.75	115.8	111.64
n	0.12	0.12	0.12	0.12	0.12
Sta	184.09	189.06	194.04	199.02	203.99
Elev	110.27	108.48	107.96	108.2	108.2
n	0.12	0.06	0.06	0.06	0.06
Sta	208.97	213.94	218.92	223.89	228.87
Elev	108.81	109.66	110.18	110.57	110.7
n	0.12	0.12	0.12	0.12	0.12
Sta	238.82	243.79	248.77	253.74	258.72

PCS DAMBREAK SA10V

Section Element Data

Elev	110.53	110.76	110.7	110.24	109.95
n	0.12	0.12	0.12	0.12	0.12
Sta	263.69	268.67	273.65	278.62	293.55
Elev	110.29	110.29	110.74	110.94	111.27
n	0.12	0.12	0.12	0.12	0.12
Sta	303.5	313.45	318.42	323.4	328.37
Elev	111.71	111.95	111.9	111.68	111.35
n	0.12	0.12	0.12	0.12	0.12
Sta	338.33	343.3	353.25	363.2	368.18
Elev	111.05	110.8	110.6	110.88	111.28
n	0.12	0.12	0.12	0.12	0.12
Sta	373.15	378.13	383.1	393.05	398.03
Elev	111.04	111.33	110.89	111.15	110.84
n	0.12	0.12	0.12	0.12	0.12
Sta	403.01	412.96	417.93	427.88	432.86
Elev	110.98	111.46	111.49	111.13	111.3
n	0.12	0.12	0.12	0.12	0.12
Sta	437.83	442.81	452.76	462.71	467.69
Elev	111.57	111.7	112.08	112.78	113.38
n	0.12	0.12	0.12	0.12	0.12
Sta	472.66	477.64	482.61	487.59	492.56
Elev	114.09	114.24	114.24	114.39	114.26
n	0.12	0.12	0.12	0.12	0.12
Sta	497.54	502.51	507.49	517.44	522.41
Elev	114.5	114.54	114.82	115.81	116.17
n	0.12	0.12	0.12	0.12	0.12
Sta	527.39	532.37	537.34	542.32	552.27
Elev	116.44	116.81	117.07	117.13	117.46
n	0.12	0.12	0.12	0.12	0.12
Sta	557.24	562.22	567.19	572.17	577.14
Elev	117.73	118.28	118.68	119.26	119.57
n	0.12	0.12	0.12	0.12	0.12
Sta	587.09	597.05	602.02	607	616.95
Elev	120.49	122.04	122.95	123.05	123.59

Section Element Data

n	0.12	0.12	0.12	0.12	0.12
Sta	621.92	626.9	636.85	641.82	646.8
Elev	123.62	123.77	124.54	124.83	124.86
n	0.12	0.12	0.12	0.12	0.12

Box13x10 Rectangular Section w/ Constant Roughness, Manning's n = 0.045

Width 13 Depth 10

RS10B Irregular Section w/ Variable Roughness

Box14x6 Rectangular Section w/ Constant Roughness, Manning's n = 0.012

Width 1 Depth 6

RS079 Irregular Section w/ Variable Roughness

Sta	0	4.91	9.82	14.72	19.63
Elev	130.31	130.33	129.99	129.87	129.63
n	0.12	0.12	0.12	0.12	0.12
Sta	24.54	29.45	34.36	39.27	44.17
Elev	128.99	127.69	126.54	125.15	124.03
n	0.12	0.12	0.12	0.12	0.12
Sta	49.08	53.99	58.9	63.81	68.71
Elev	122.54	121.67	121.02	120.24	118.93
n	0.12	0.12	0.12	0.12	0.12
Sta	73.62	78.53	83.44	88.35	93.26
Elev	117.62	116.49	115.53	115.39	115.48
n	0.12	0.12	0.06	0.06	0.06
Sta	98.16	103.07	107.98	112.89	117.8
Elev	115.57	115.61	115.7	116.03	116.85
n	0.06	0.06	0.06	0.06	0.12
Sta	122.71	127.61	132.52	137.43	142.34
Elev	117.99	119.23	120.47	121.88	123.1
n	0.12	0.12	0.12	0.12	0.12
Sta	147.25	152.15	157.06	161.97	166.88

Section Element Data

Elev	124.15	124.96	125.51	125.8	125.88
n	0.12	0.12	0.12	0.12	0.12
Sta	171.79				
Elev	125.94				
n	0.12				

RS041 Irregular Section w/ Variable Roughness

Sta	0	4.77	9.53	14.3	19.07
Elev	122.47	122.41	122.1	120.87	119.27
n	0.12	0.12	0.12	0.12	0.12
Sta	23.84	28.6	33.37	38.14	42.91
Elev	118.22	117.96	117.46	116.44	115.26
n	0.12	0.12	0.12	0.12	0.12
Sta	47.67	52.44	57.21	61.98	66.74
Elev	113.84	112.26	113.67	116.11	117.34
n	0.12	0.12	0.12	0.12	0.12
Sta	71.51	76.28	81.05	85.81	
Elev	119.13	119.68	119.38	119.39	
n	0.12	0.12	0.12	0.12	

RS043 Irregular Section w/ Variable Roughness

Sta	0	4.71	9.43	14.14	18.85
Elev	126.12	126.06	125.75	125.22	124.5
n	0.12	0.12	0.12	0.12	0.12
Sta	23.57	28.28	32.99	37.71	42.42
Elev	123.31	122.22	119.76	117.12	115.58
n	0.12	0.12	0.12	0.12	0.12
Sta	47.13	51.84	56.56	61.27	65.98
Elev	115.07	114.99	115.73	116.99	118.69
n	0.12	0.12	0.12	0.12	0.12
Sta	70.7	75.41	80.12		
Elev	120.25	121.64	122.34		
n	0.12	0.12	0.12		

RS053 Irregular Section w/ Variable Roughness

Sta	0	4.94	9.89	14.83	19.78

Section Element Data

Elev	126.97	126.59	125.77	125.22	124.81
n	0.12	0.12	0.12	0.12	0.12
Sta	24.72	29.67	34.61	39.56	44.5
Elev	124.71	124.93	124.78	124.07	123.89
n	0.12	0.12	0.12	0.12	0.12
Sta	49.45	54.39	59.33	64.28	69.22
Elev	124.9	126.25	127.26	127.66	127.7
n	0.12	0.12	0.12	0.12	0.12

RS045 Irregular Section w/ Variable Roughness

Sta	0	4.79	9.59	14.38	19.17
Elev	127.09	127	123.42	118.8	117.45
n	0.12	0.12	0.12	0.12	0.12
Sta	23.97	28.76	33.56	38.35	43.14
Elev	117.62	118.27	121.51	125.49	127.02
n	0.12	0.12	0.12	0.12	0.12
Sta	47.94				
Elev	127.09				
n	0.12				

RS055 Irregular Section w/ Variable Roughness

Sta	0	4.69	9.37	14.06	18.74
Elev	128.34	127.64	126.78	125.96	125.71
n	0.12	0.12	0.12	0.12	0.12
Sta	23.43	28.11			
Elev	126.02	126.34			
n	0.12	0.12			

RS057 Irregular Section w/ Variable Roughness

Sta	0	4.61	9.21	13.82	18.43
Elev	127.88	127.03	125.96	125.35	125.56
n	0.12	0.12	0.12	0.12	0.12
Sta	23.03	27.64	32.25		
Elev	126.45	126.83	126.87		
n	0.12	0.12	0.12		

PCS DAMBREAK SA10V

Section Element Data

RS047 Irregular Section w/ Variable Roughness

Sta	0	4.69	9.38	14.06	18.75
Elev	128.03	127.72	127.42	126.96	126.43
n	0.12	0.12	0.12	0.12	0.12
Sta	23.44	28.13	32.81	37.5	42.19
Elev	126.03	125.84	125.42	123.73	120.98
n	0.12	0.12	0.12	0.12	0.12
Sta	46.88	51.56	56.25	60.94	65.63
Elev	119.76	118.9	118.43	120.27	126.45
n	0.12	0.12	0.12	0.12	0.12
Sta	70.31	75			
Elev	127.88	127.93			
n	0.12	0.12			

RS070A Irregular Section w/ Variable Roughness

Sta	0	4.98	9.96	14.94	19.92
Elev	126.8	125.68	124.13	123.47	123.65
n	0.12	0.12	0.12	0.12	0.12
Sta	24.9	29.88	34.86	39.84	44.82
Elev	123.97	124.26	124.54	124.85	124.93
n	0.12	0.12	0.12	0.12	0.12
Sta	49.8	54.78	59.76	64.74	69.72
Elev	124.8	124.86	125.06	125	124.87
n	0.12	0.12	0.12	0.12	0.12
Sta	74.7	79.67	84.65	89.63	94.61
Elev	124.44	124.99	125.13	124.99	124.89
n	0.12	0.12	0.12	0.12	0.12
Sta	99.59	104.57	109.55	114.53	119.51
Elev	124.78	124.86	125.07	124.96	124.86
n	0.12	0.12	0.12	0.12	0.12
Sta	124.49	129.47	134.45	139.43	144.41
Elev	124.85	124.79	124.92	125.38	125.99
n	0.12	0.12	0.12	0.12	0.12

RS049 Irregular Section w/ Variable Roughness

Sta	0	4.99	9.98	14.97	19.95

Section Element Data

Elev	125.12	124.99	124.95	124.98	124.67
n	0.12	0.12	0.12	0.12	0.12
Sta	24.94	29.93	34.92	39.91	44.9
Elev	124.14	123.67	123.16	122.53	121.67
n	0.12	0.12	0.12	0.12	0.12
Sta	49.89	54.88	59.86	64.85	69.84
Elev	121.24	121.35	121.4	122.31	124.01
n	0.12	0.12	0.12	0.12	0.12
Sta	74.83	79.82	84.81	84.81	89.71
Elev	125.23	125.74	125.88	125.54	125.56
n	0.12	0.12	0.12	0.12	0.12
Sta	94.6	99.5	104.4	109.3	114.2
Elev	125.6	125.42	125.46	125.68	125.68
n	0.12	0.12	0.12	0.12	0.12
Sta	119.09	123.99	128.89	133.79	138.69
Elev	125.63	125.18	123.68	121.46	120.96
n	0.12	0.12	0.12	0.12	0.12
Sta	143.58	148.48	153.38		
Elev	123.89	127.1	127.4		
n	0.12	0.12	0.12		

RS075A Irregular Section w/ Variable Roughness

Sta	0	4.96	9.91	14.87	19.82
Elev	139.1	138.6	136.91	134.82	133.17
n	0.12	0.12	0.12	0.12	0.12
Sta	24.78	29.73	34.69	39.64	44.6
Elev	132.3	131.89	131.68	131.38	130.79
n	0.12	0.12	0.12	0.12	0.12
Sta	49.55	54.51	59.46	64.42	69.37
Elev	130.48	130.18	130.06	129.98	129.89
n	0.12	0.12	0.12	0.12	0.12
Sta	74.33	79.28	84.24	89.2	94.15
Elev	129.6	129.87	130.01	129.56	128.2
n	0.12	0.12	0.12	0.12	0.12
Sta	99.11	104.06	109.02	113.97	118.93

Section Element Data

Elev	126.64	126.37	126.9	127.96	129.59
n	0.12	0.12	0.12	0.12	0.12
Sta	123.88	128.84	133.79	138.75	143.7
Elev	130.75	131.66	132.66	133	132.8
n	0.12	0.12	0.12	0.12	0.12
Sta	148.66	153.61	158.57	163.52	168.48
Elev	132.68	132.36	132.08	131.3	131.14
n	0.12	0.12	0.12	0.12	0.12
Sta	173.43	178.39	183.35	188.3	193.26
Elev	131.16	130.74	130.17	130.63	131.41
n	0.12	0.12	0.12	0.12	0.12
Sta	198.21	203.17	208.12	213.08	
Elev	131.82	131.88	131.97	131.96	
n	0.12	0.12	0.12	0.12	

RS072 Irregular Section w/ Variable Roughness

Sta	0	4.87	9.74	14.61	19.48
Elev	132.25	132.15	132.17	131.66	130.59
n	0.12	0.12	0.12	0.12	0.12
Sta	24.34	29.21	34.08	38.95	43.82
Elev	129.66	129.35	129.85	130.53	130.83
n	0.12	0.12	0.12	0.12	0.12
Sta	48.69	53.56	58.43	63.29	68.16
Elev	130.51	129.98	129.75	129.57	129.41
n	0.12	0.12	0.12	0.12	0.12
Sta	73.03	77.9	82.77	87.64	92.51
Elev	129.29	129.56	129.67	129.55	129.49
n	0.12	0.12	0.12	0.12	0.12
Sta	97.38	102.24	107.11	111.98	116.85
Elev	129.48	129.56	129.47	129.38	129.3
n	0.12	0.12	0.12	0.12	0.12
Sta	121.72	126.59	131.46	136.33	141.2
Elev	129.2	129.04	129.04	128.96	128.94
n	0.12	0.12	0.12	0.12	0.12
Sta	146.06	150.93	155.8	160.67	165.54
Elev	129.19	129.42	129.44	129.95	130.2

Section Element Data

n	0.12	0.12	0.12	0.12	0.12

RS077 Irregular Section w/ Variable Roughness

Sta	0	4.91	9.82	14.74	19.65
Elev	132.12	132.14	131.96	131.57	131.3
n	0.12	0.12	0.12	0.12	0.12
Sta	24.56	29.47	34.38	39.29	44.21
Elev	130.97	131.47	131.22	131.51	132.15
n	0.12	0.12	0.12	0.12	0.12
Sta	49.12	54.03	58.94	63.85	68.76
Elev	132.96	134.04	135.34	136.81	137.97
n	0.12	0.12	0.12	0.12	0.12

RS085 Irregular Section w/ Variable Roughness

Sta	0	4.97	9.94	14.91	19.88
Elev	137.58	137.72	137.66	136.98	135.64
n	0.12	0.12	0.12	0.12	0.12
Sta	24.85	29.82	34.79	39.76	44.73
Elev	135.01	134.84	134.72	134.61	134.5
n	0.12	0.12	0.12	0.12	0.12
Sta	49.7	54.67	59.64	64.61	69.58
Elev	134.4	134.29	134.2	134.11	134.02
n	0.12	0.12	0.12	0.12	0.12
Sta	74.55	79.52	84.49	89.46	94.43
Elev	133.93	133.94	134.73	136.56	139.2
n	0.12	0.12	0.12	0.12	0.12
Sta	99.4	104.37	109.34		
Elev	139.75	139.76	139.83		
n	0.12	0.12	0.12		

RS083 Irregular Section w/ Variable Roughness

Sta	0	4.9	9.81	14.71	19.62
Elev	137.64	137.99	138.08	137.76	136.64
n	0.12	0.12	0.12	0.12	0.12
Sta	24.52	29.43	34.33	39.24	44.14
Elev	135.38	134.88	134.79	134.71	134.62
n	0.12	0.12	0.12	0.12	0.12

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Section Element Data

Sta	49.05	53.95	58.86	63.76	68.67
Elev	134.54	134.46	134.38	134.34	134.29
n	0.12	0.12	0.12	0.12	0.12
Sta	73.57	78.48	83.38	88.28	93.19
Elev	134.25	134.22	134.18	134.32	135.51
n	0.12	0.12	0.12	0.12	0.12
Sta	98.09	103	107.9	112.81	117.71
Elev	137.17	138.03	138.29	138.22	138.16
n	0.12	0.12	0.12	0.12	0.12
Sta	122.62	127.52	132.43	137.33	142.24
Elev	138.17	138.06	138.98	140.01	141.35
n	0.12	0.12	0.12	0.12	0.12
Sta	147.14	152.05			
Elev	143.02	144.8			
n	0.12	0.12			

RC020 Irregular Section w/ Variable Roughness

Sta	0	4.89	9.77	14.66	19.55
Elev	132.77	132.83	132.77	131.7	130.71
n	0.12	0.12	0.12	0.12	0.12
Sta	24.43	29.32	34.2	39.09	43.98
Elev	131.1	131.33	131.83	133.07	133.63
n	0.12	0.12	0.12	0.12	0.12

RC028 Irregular Section w/ Variable Roughness

Sta	0	4.87	9.73	14.6	19.47
Elev	142.14	141.89	141.81	141.19	140.6
n	0.12	0.12	0.12	0.12	0.12
Sta	24.33	29.2	34.07	38.93	43.8
Elev	139.78	139.37	139.19	137.55	132.46
n	0.12	0.12	0.12	0.12	0.12
Sta	48.67	53.53	58.4	63.27	68.14
Elev	129.24	128.85	128.91	129	131.17
n	0.12	0.12	0.12	0.12	0.12

Section Element Data

Sta	73	77.87	82.74	87.6
Elev	136.68	139.9	141.35	141.35
n	0.12	0.12	0.12	0.12

RS010A Irregular Section w/ Variable Roughness

Sta	0	4.99	9.98	14.97	19.96
Elev	119.55	118.23	116.94	115.79	114.8
n	0.12	0.12	0.12	0.12	0.12
Sta	24.95	29.94	34.93	39.92	44.91
Elev	113.85	112.75	111.53	110.45	110.01
n	0.12	0.12	0.12	0.12	0.12
Sta	49.9	54.89	59.88	64.87	69.87
Elev	110.01	109.85	110.12	110.75	110.96
n	0.12	0.12	0.12	0.12	0.12
Sta	74.86	79.85	84.84	89.83	94.82
Elev	110.93	111.01	111.08	110.99	111.01
n	0.12	0.12	0.12	0.12	0.12
Sta	99.81	104.8	109.79	114.78	119.77
Elev	110.84	111.09	111.28	110.81	111.33
n	0.12	0.12	0.12	0.12	0.12
Sta	124.76	129.75	134.74	139.73	144.72
Elev	112.26	113.41	114.73	115.87	116.48
n	0.12	0.12	0.12	0.12	0.12
Sta	149.71	154.7	159.69		
Elev	116.69	116.75	116.8		
n	0.12	0.12	0.12		

RS010B Irregular Section w/ Variable Roughness

Sta	0	4.99	9.97	14.96	19.94
Elev	114.17	114.83	113.15	111.28	110.08
n	0.12	0.12	0.12	0.12	0.12
Sta	24.93	29.91	34.9	39.89	44.87
Elev	108.94	108.41	108.26	108.08	108.21
n	0.12	0.12	0.12	0.12	0.12
Sta	49.86	54.84	59.83	64.82	69.8
Elev	108.33	108.21	108.14	108.7	110.4
n	0.12	0.12	0.12	0.12	0.12

PCS DAMBREAK SA10V

Section Element Data

Sta	74.79	79.77	84.76	89.74	94.73
Elev	112.01	112.49	112.52	113.16	114.65
n	0.12	0.12	0.12	0.12	0.12
Sta	99.72	104.7	109.69	114.67	
Elev	115.49	116.12	116.54	116.29	
n	0.12	0.12	0.12	0.12	

RS020 Irregular Section w/ Variable Roughness

Sta	0	4.89	9.78	14.68	19.57
Elev	113.35	113.44	112.05	110.3	109.64
n	0.12	0.12	0.12	0.12	0.12
Sta	24.46	29.35	34.25	39.14	44.03
Elev	109.73	109.87	110.01	110.14	110.27
n	0.12	0.12	0.12	0.12	0.12
Sta	48.92	53.82	58.71	63.6	
Elev	110.64	111.38	112.66	112.91	
n	0.12	0.12	0.12	0.12	

RS030 Irregular Section w/ Variable Roughness

Sta	0	4.96	9.93	14.89	19.85
Elev	115.42	116.29	114.76	113.19	112.67
n	0.12	0.12	0.12	0.12	0.12
Sta	24.81	29.78	34.74	39.7	44.67
Elev	112.24	111.74	111.31	110.97	111.07
n	0.12	0.12	0.12	0.12	0.12
Sta	49.63	54.59	59.56	64.52	69.48
Elev	112.4	113.56	114.12	114.81	115.36
n	0.12	0.12	0.12	0.12	0.12
Sta	74.44				
Elev	115.38				
n	0.12				

RS060 Irregular Section w/ Variable Roughness

Sta	0	4.81	9.61	14.42	19.23
Elev	116.52	116.76	116.15	114.75	112.97
n	0.12	0.12	0.12	0.12	0.12

PCS DAMBREAK SA10V

Section Element Data

Sta	24.03	28.84	33.65	38.46	43.26
Elev	110.88	110.39	110.46	110.55	110.69
n	0.12	0.12	0.12	0.12	0.12
Sta	48.07	52.88	57.68	62.49	67.3
Elev	111.51	112.38	113.4	113.83	114.39
n	0.12	0.12	0.12	0.12	0.12
Sta	72.1	76.91			
Elev	115.54	116.18			
n	0.12	0.12			

RS116 Irregular Section w/ Variable Roughness

Sta	0	4.91	9.81	14.72	19.62
Elev	140.52	140.07	139.78	139.36	138.68
n	0.12	0.12	0.12	0.12	0.12
Sta	24.53	29.43	34.34	39.24	44.15
Elev	138.33	138.52	137.98	136.82	136.39
n	0.12	0.12	0.12	0.12	0.12
Sta	49.05	53.96	58.86	63.77	68.68
Elev	136.26	135.6	134.5	133.67	133.39
n	0.12	0.12	0.12	0.12	0.12
Sta	73.58	78.49	83.39	88.3	93.2
Elev	133.18	133.11	133.04	133.04	133.23
n	0.12	0.12	0.12	0.12	0.12
Sta	98.11	103.01	107.92	112.82	117.73
Elev	133.77	134.91	136	136.66	136.72
n	0.12	0.12	0.12	0.12	0.12
Sta	122.64	127.54	132.45	137.35	142.26
Elev	137	137.38	137.07	136.99	137.38
n	0.12	0.12	0.12	0.12	0.12
Sta	147.16	152.07	156.97	161.88	
Elev	138.23	139.58	140.92	142.28	
n	0.12	0.12	0.12	0.12	

RS120A Irregular Section w/ Variable Roughness

Sta	0	4.89	9.77	14.66	19.54
Elev	138.57	138.64	138.66	138.66	138.46
n	0.12	0.12	0.12	0.12	0.12

PCS DAMBREAK SA10V

Section Element Data

Sta	24.43	29.32	34.2	39.09	43.98
Elev	137.5	136.02	134.95	134.67	134.32
n	0.12	0.12	0.12	0.12	0.12
Sta	48.86	53.75	58.63	63.52	68.41
Elev	134.06	134.08	134.1	134.13	134.15
n	0.12	0.12	0.12	0.12	0.12
Sta	73.29	78.18	83.07	87.95	92.84
Elev	134.18	134.2	134.23	134.27	134.31
n	0.12	0.12	0.12	0.12	0.12
Sta	97.72	102.61	107.5	112.38	117.27
Elev	134.35	134.48	134.7	134.72	135.42
n	0.12	0.12	0.12	0.12	0.12
Sta	122.16	127.04	131.93	136.81	141.7
Elev	137.11	138.29	139.15	139.99	140.76
n	0.12	0.12	0.12	0.12	0.12

RS137 Irregular Section w/ Variable Roughness

Sta	0	4.89	9.78	14.68	19.57
Elev	131.08	130.91	130.72	130.49	129.14
n	0.12	0.12	0.12	0.12	0.12
Sta	24.46	29.35	34.24	39.14	44.03
Elev	127.39	126.53	126.24	126.05	126.05
n	0.12	0.12	0.12	0.12	0.12
Sta	48.92	53.81	58.7	63.6	68.49
Elev	125.57	123.68	122.18	122.57	122.89
n	0.12	0.12	0.12	0.12	0.12
Sta	73.38	78.27	83.16	88.05	92.95
Elev	123.35	124.41	125.17	125.45	126.72
n	0.12	0.12	0.12	0.12	0.12
Sta	97.84	102.73	107.62	112.51	117.41
Elev	128.68	130.34	131.91	133.45	134.57
n	0.12	0.12	0.12	0.12	0.12
Sta	122.3	127.19			
Elev	134.33	133.96			
n	0.12	0.12			

PCS DAMBREAK SA10V

Section Element Data

RS140A Irregular Section w/ Variable Roughness

Sta	0	4.89	9.79	14.68	19.57
Elev	139.85	140.47	139.89	137.2	133.22
n	0.12	0.12	0.12	0.12	0.12
Sta	24.46	29.36	34.25	39.14	44.04
Elev	130.2	128.53	128.28	128.37	128.38
n	0.12	0.12	0.12	0.12	0.12
Sta	48.93	53.82	58.72	63.61	68.5
Elev	125.18	123.22	122.72	122.62	122.81
n	0.12	0.12	0.12	0.12	0.12
Sta	73.39	78.29	83.18	88.07	92.97
Elev	123.08	122.91	123.55	125.9	128.23
n	0.12	0.12	0.12	0.12	0.12
Sta	97.86	102.75	107.65	112.54	117.43
Elev	129.22	129.81	131.14	133.71	136.77
n	0.12	0.12	0.12	0.12	0.12
Sta	122.32				
Elev	138.17				
n	0.12				

RS160 Irregular Section w/ Variable Roughness

Sta	0	4.8	9.6	14.4	19.19
Elev	135.07	132.58	129.14	127.23	127.34
n	0.12	0.12	0.12	0.12	0.12
Sta	23.99	28.79	33.59	38.39	43.19
Elev	127.19	126.27	124.08	122.47	122.62
n	0.12	0.12	0.12	0.12	0.12
Sta	47.98	52.78	57.58	62.38	67.18
Elev	122.77	122.91	123.38	123.95	124.87
n	0.12	0.12	0.12	0.12	0.12
Sta	71.98	76.78	81.57	86.37	91.17
Elev	126.62	127.42	127.38	127.43	127.84
n	0.12	0.12	0.12	0.12	0.12
Sta	95.97	100.77	105.57		
Elev	128.75	129.83	130.51		
n	0.12	0.12	0.12		

PCS DAMBREAK SA10V

Section Element Data

RS162 Irregular Section w/ Variable Roughness

Sta	0	4.93	9.86	14.79	19.73
Elev	129.26	128.82	127.46	126.32	125.79
n	0.12	0.12	0.12	0.12	0.12
Sta	24.66	29.59	34.52	39.45	44.38
Elev	125.5	125.64	125.15	124.47	124.19
n	0.12	0.12	0.12	0.12	0.12
Sta	49.31	54.25	59.18	64.11	69.04
Elev	124.39	124.9	125.93	127.04	128.18
n	0.12	0.12	0.12	0.12	0.12
Sta	73.97	78.9	83.83	88.76	
Elev	129.26	130.81	133.56	134.73	
n	0.12	0.12	0.12	0.12	

RS19 Irregular Section w/ Variable Roughness

Sta	0	14.95	19.93	24.92	29.9
Elev	85.56	85.59	85.2	84.11	83.47
n	0.12	0.12	0.12	0.12	0.12
Sta	39.87	49.83	64.78	79.73	84.72
Elev	83.57	83.5	82.62	82.54	82.7
n	0.12	0.12	0.12	0.12	0.12
Sta	89.7	94.69	104.65	114.62	129.57
Elev	82.27	82.29	82.08	82.34	82.16
n	0.12	0.12	0.12	0.12	0.12
Sta	144.52	149.5	159.47	164.45	179.4
Elev	82.17	81.89	82	81.89	82.04
n	0.12	0.12	0.12	0.12	0.12
Sta	199.34	209.3	219.27	224.25	234.22
Elev	81.84	81.54	81.42	81.49	81.16
n	0.12	0.12	0.12	0.12	0.12
Sta	244.19	259.14	264.12	279.07	289.04
Elev	81.35	80.94	81.17	81.52	81.25
n	0.12	0.12	0.12	0.12	0.12
Sta	294.02	308.97	318.94	323.92	343.86
Elev	81.41	81.26	80.89	81.07	80.79
n	0.12	0.12	0.12	0.12	0.12

PCS DAMBREAK SA10V

Section Element Data

Sta	358.81	363.79	368.77	373.76	383.72
Elev	81.02	81.26	81.05	81.12	80.59
n	0.12	0.12	0.12	0.12	0.12
Sta	388.71	393.69	398.67	413.62	418.61
Elev	80.72	80.21	80.1	79.31	78.82
n	0.12	0.12	0.12	0.12	0.12
Sta	423.59	438.54	448.51	453.49	463.46
Elev	78.81	76.71	74.54	73.63	72.69
n	0.12	0.12	0.12	0.12	0.12
Sta	468.44	473.43	478.41	483.39	488.38
Elev	72.73	72.48	71.99	71.2	69.46
n	0.12	0.12	0.12	0.12	0.12
Sta	493.36	498.34	503.33	508.31	513.29
Elev	68.45	66.86	61.64	59.7	59
n	0.12	0.12	0.12	0.12	0.12
Sta	518.28	523.26	528.24	533.23	538.21
Elev	58.72	59.17	61.53	65.63	69.12
n	0.12	0.12	0.12	0.12	0.12
Sta	543.19	553.16	563.13	573.09	578.08
Elev	70.93	73.37	75.06	76.86	77.31
n	0.12	0.12	0.12	0.12	0.12
Sta	593.03	602.99	612.96	617.94	627.91
Elev	77.65	77.54	77.15	76.75	76.5
n	0.12	0.12	0.12	0.12	0.12
Sta	632.89	637.88	642.86	652.83	662.8
Elev	75.94	75.73	75.84	75.57	75.75
n	0.12	0.12	0.12	0.12	0.12
Sta	677.75	687.71	697.68	707.65	712.63
Elev	76.35	76.96	76.71	77.16	77
n	0.12	0.12	0.12	0.12	0.12
Sta	717.61	727.58	732.56	737.55	752.5
Elev	77.07	76.92	76.97	76.81	76.81
n	0.12	0.12	0.12	0.12	0.12
Sta	767.45	782.4	787.38	797.35	802.33

PCS DAMBREAK SA10V

Section Element Data

Elev	76.97	77.46	77.19	76.89	76.85
n	0.12	0.12	0.12	0.12	0.12
Sta	807.31	817.28	822.26	832.23	842.2
Elev	77.11	77.32	77.6	77.56	78.43
n	0.12	0.12	0.12	0.12	0.12

Box8x4 Rectangular Section w/ Constant Roughness, Manning's n = 0.012

Width 8 Depth 4

Box10X10 Rectangular Section w/ Constant Roughness, Manning's n = 0.045

Width 10 Depth 10

Box4x4 Rectangular Section w/ Constant Roughness, Manning's n = 0.012

Width 4 Depth 4

RR010 Irregular Section w/ Variable Roughness

Sta	0	19.97	29.95	34.94	49.92
Elev	102.18	101.2	100.94	100.31	100.44
n	0.12	0.12	0.12	0.12	0.12
Sta	59.9	64.89	74.87	84.86	94.84
Elev	99.34	99.52	101.2	101.13	99.1
n	0.12	0.12	0.12	0.12	0.12
Sta	109.81	124.79	129.78	144.76	174.7
Elev	97.75	97.22	96.2	95.18	95.18
n	0.12	0.12	0.12	0.12	0.12
Sta	194.67	209.65	219.63	234.6	239.6
Elev	94.41	94.56	94.26	95.06	94.73
n	0.12	0.12	0.12	0.12	0.12
Sta	249.58	254.57	259.56	274.54	279.53
Elev	93.08	91.75	91.55	94.07	94.5
n	0.12	0.12	0.12	0.12	0.12

PCS DAMBREAK SA10V

Section Element Data

Sta	289.51	294.5	299.49	314.47	324.45
Elev	93.67	92.02	89.19	86.06	85.96
n	0.12	0.12	0.06	0.06	0.06
Sta	329.44	344.42	349.41	354.4	369.38
Elev	86.54	91.69	93.11	93.56	93.14
n	0.06	0.12	0.12	0.12	0.12
Sta	389.34	399.33	414.3	419.29	429.27
Elev	93.2	92.61	93.7	93.47	93.91
n	0.12	0.12	0.12	0.12	0.12
Sta	444.25	469.21	484.18	504.15	514.13
Elev	93.5	94.29	93.92	92.43	93.04
n	0.12	0.12	0.12	0.12	0.12
Sta	524.11	544.08	564.05	569.04	584.01
Elev	94.52	94.61	94.34	93.92	93.63
n	0.12	0.12	0.12	0.12	0.12
Sta	594	603.98	613.96	618.95	628.94
Elev	94	93.52	91.35	92.12	94.57
n	0.12	0.12	0.12	0.12	0.12
Sta	633.93	648.9	663.88	678.85	698.82
Elev	94.94	94.27	93.91	94.33	94.03
n	0.12	0.12	0.12	0.12	0.12
Sta	703.81	718.79	723.78	743.74	748.74
Elev	93.55	94.04	94.58	94.12	93.68
n	0.12	0.12	0.12	0.12	0.12
Sta	758.72	768.7	793.66	808.63	818.62
Elev	94.32	94.07	94.79	94.37	94.58
n	0.12	0.12	0.12	0.12	0.12
Sta	838.58	848.57	858.55	868.53	888.5
Elev	94.24	94.66	94.6	93.69	94.63
n	0.12	0.12	0.12	0.12	0.12
Sta	918.45	923.44	948.4	953.39	968.36
Elev	93.96	94.17	94.05	94.42	94.34
n	0.12	0.12	0.12	0.12	0.12
Sta	973.36	1003.31	1013.29	1033.25	1053.22

PCS DAMBREAK SA10V

Section Element Data

Elev	93.75	94.25	93.89	93.84	94.68
n	0.12	0.12	0.12	0.12	0.12
Sta	1058.21	1068.2	1078.18	1098.15	1118.11
Elev	93.88	94.59	94.05	93.92	94.7
n	0.12	0.12	0.12	0.12	0.12
Sta	1128.09	1133.09	1143.07	1158.04	1178.01
Elev	95.67	95.64	96.48	97.21	97.66
n	0.12	0.12	0.12	0.12	0.12
Sta	1207.96	1222.93	1227.93	1242.9	1247.89
Elev	99.23	100.83	100.66	102.1	102.24
n	0.12	0.12	0.12	0.12	0.12

APPENDIX B

OUTPUT MAXIMUM STAGE AND MAXIMUM DISCHARGE FILES

Dam Break North Scenario SA No. 10V

PCS Phosphate - White Springs

Prepared by
Jane Dai

CHAN Version 2
Report of Output Data

Dam Break North Scenario
Maximum Stages Report

Node ID	Time of Max Stage hours	Maximum Stage feet	Flood Elevation feet	Flood Depth feet
NS15	0.28	89.69	87.00	2.69
NS16	0.69	81.13	80.00	1.13
NS13	0.00	91.00	87.70	3.30
NS14	0.09	90.01	87.50	2.51
NS12	0.00	92.00	90.00	2.00
NS11	2.84	92.09	91.00	1.09
NSC9	0.00	107.00	103.00	4.00
NSC10	1.93	103.50	102.00	1.50
NS005	0.00	107.00	103.00	4.00
NS010	0.00	107.00	104.50	2.50
NS040	0.47	109.50	109.40	0.10
NS041	0.00	113.30	113.20	0.10
NS042	0.00	114.60	114.50	0.10
NS043	48.00	113.11	113.00	0.11
NS044	48.00	113.11	113.00	0.11
NS045	0.00	117.10	116.97	0.13
NS046	0.00	117.10	117.00	0.10
NS047	0.00	117.10	117.00	0.10
NS048	48.00	119.40	119.30	0.10
NS049	0.00	123.50	123.40	0.10
NCB3	0.00	89.00	88.00	1.00
NCB4	0.23	88.62	87.50	1.12
NCB2	0.40	106.01	105.00	1.01
NCBR	0.00	115.00	114.70	0.30
NCB1	0.00	115.00	114.00	1.00
NC010	10.34	114.01	113.64	0.37
NC015	13.05	115.00	113.90	1.10
NC017	0.00	127.70	127.60	0.10
NC016	0.00	121.90	121.80	0.10
NC018	0.00	127.57	127.57	0.00
NC019	0.00	129.70	128.70	1.00
NS131	6.86	135.68	123.00	12.68
NS130	7.05	135.67	128.16	7.51
NS120	48.00	134.15	128.00	6.15
NS117	48.00	134.15	130.00	4.15
NS116	48.00	134.10	130.00	4.10
NS113	48.00	134.04	130.60	3.44
SWC34	48.00	115.30	114.39	0.91
NS078	48.00	115.31	115.20	0.11
NS108	0.00	124.50	124.50	0.00
NS105	0.00	122.10	122.00	0.10
NS109	0.00	133.40	133.30	0.10
NS112	29.49	133.15	132.00	1.15
NS111	48.00	132.23	130.00	2.23
NS110	48.00	130.13	130.00	0.13
NS18	0.00	77.00	60.00	17.00
NS19	0.02	76.85	59.00	17.85
NC020	48.00	128.87	128.19	0.68

Dam Break North Scenario
Maximum Stages Report

Node ID	Time of Max Stage hours	Maximum Stage feet	Flood Elevation feet	Flood Depth feet
NS080	48.00	115.31	113.50	1.81
NS079	48.00	115.31	113.50	1.81
NS083	0.00	130.10	130.00	0.10
NS081	0.00	128.10	128.00	0.10
NS084	0.00	130.10	130.00	0.10
NS085	0.00	130.10	130.00	0.10
NS165	48.00	130.00	122.00	8.00
SWC31	0.00	114.25	114.25	0.00
WET2	17.94	130.31	111.00	19.31
NS17	0.00	80.50	79.00	1.50
NR050	48.00	125.47	119.00	6.47
NR040	0.00	111.10	111.00	0.10
NR030	48.00	110.54	110.00	0.54
NR020	48.00	90.10	90.00	0.10
NR010	48.00	88.34	88.20	0.14
TWR	0.00	79.00	79.00	0.00
NS070	48.00	121.46	119.80	1.66
NS062	48.00	121.46	119.80	1.66
CSA	0.00	156.20	119.20	37.00
NS154	1.85	137.07	117.00	20.07
NS163	48.00	129.41	125.00	4.41
NS194	2.03	138.92	125.00	13.92
NS072	19.19	126.96	126.00	0.96
NS071	45.92	126.80	126.00	0.80
NS058	0.00	126.60	126.50	0.10
NS057	0.00	123.10	123.00	0.10
NS056	0.00	124.10	124.00	0.10
NS055	0.00	124.50	124.40	0.10
NS054	48.00	122.11	122.00	0.11
NS053	48.00	122.11	122.00	0.11
NS052	0.00	124.40	124.30	0.10
NS051	0.00	123.89	122.89	1.00
NS077	0.00	129.40	129.30	0.10
NS076	48.00	129.10	129.00	0.10
NS075	18.59	127.01	126.00	1.01
NS103	2.67	115.71	114.94	0.77
NS102	0.00	116.00	114.82	1.18
NS101	0.00	113.06	112.06	1.00
NS100	0.00	112.10	112.00	0.10
WET1	17.94	130.31	120.04	10.27
TWS	0.00	76.00	55.00	21.00
NS125	10.50	135.28	126.00	9.28
NS123	10.98	135.27	126.00	9.27
NS121	11.03	135.27	130.89	4.38
NS104	0.00	115.00	96.27	18.73
WET7	0.00	135.00	134.63	0.37
WET6	0.00	132.00	128.62	3.38
CB11	0.00	130.00	129.22	0.78

Dam Break North Scenario
Maximum Stages Report

Node ID	Time of Max Stage hours	Maximum Stage feet	Flood Elevation feet	Flood Depth feet
CB22	0.00	128.43	127.43	1.00
CB21	0.00	119.00	112.40	6.60
CB23	0.00	110.38	110.38	0.00
NS118	48.00	134.04	133.00	1.04
NS107	0.00	137.10	137.00	0.10
NS106	0.00	132.47	132.47	0.00
BC1	0.00	138.00	114.94	23.06
WET10	0.00	138.00	132.56	5.44
NC037	0.00	138.00	136.50	1.50
NC035	22.37	137.68	134.32	3.36
NC033	0.00	138.12	136.70	1.42
NC031	0.00	138.12	136.70	1.42
NC029	0.00	141.60	137.52	4.08
NC028	29.55	133.15	132.70	0.45
NC027	0.00	129.49	129.49	0.00
WET4	0.00	129.68	128.68	1.00
WET3	48.00	131.52	128.65	2.87
NC050	48.00	132.21	130.00	2.21
NS115	48.00	130.13	130.00	0.13
NS135	6.82	135.69	123.00	12.69
WET11	0.00	114.04	111.04	3.00
NR060	0.00	116.38	116.38	0.00
WET8	1.33	139.78	120.00	19.78
CS1	15.70	129.04	122.00	7.04
CS3	48.00	125.47	121.54	3.93
CS5	48.00	127.07	120.95	6.12
SPond	0.00	124.40	113.14	11.26
NB062	0.00	120.60	115.17	5.43
NB061	1.24	119.95	115.50	4.45
NB060	1.71	116.81	115.00	1.81
NB050	5.99	116.51	109.00	7.51
NB030	5.99	115.80	108.45	7.35
NB020	7.50	114.43	104.50	9.93
NB010	8.31	115.24	102.62	12.62
TWB	0.00	102.00	102.00	0.00
NB065	0.00	125.80	118.02	7.78
NS150	17.93	130.31	117.94	12.37
CS2	37.02	128.87	122.00	6.87
BC2	4.36	129.45	126.69	2.76
NB070	4.97	122.68	117.75	4.93
BC11	2.91	137.93	130.18	7.75
NB064	3.87	119.95	118.00	1.95
NB040	6.00	115.86	109.25	6.61
RPond	7.47	115.70	110.06	5.64
NB080	0.00	125.00	125.00	0.00
NB078	0.00	123.44	123.44	0.00
NB076	0.00	124.50	120.49	4.01
NS035	0.00	117.10	117.00	0.10

Dam Break North Scenario
Maximum Stages Report

Node ID	Time of Max Stage hours	Maximum Stage feet	Flood Elevation feet	Flood Depth feet
NS073	0.00	125.00	123.76	1.24
NC040	0.00	139.50	139.50	0.00
NCB5	0.12	88.03	85.00	3.03
TWC	0.00	88.00	85.00	3.00
NS020	48.00	113.00	109.00	4.00
NS128	0.00	131.10	129.27	1.83
NS127	48.00	134.70	129.94	4.76
NS126	48.00	134.70	131.00	3.70
NS114	48.00	134.70	131.50	3.20
NS30	0.02	76.04	55.00	21.04
NB005	5.70	106.50	102.00	4.50
NR005	48.00	79.10	79.00	0.10
NS170	6.83	135.69	124.00	11.69

Dam Break North Scenario
Maximum Discharges Report

Reach ID	Time of Max Flow hours	Maximum Flow cfs	Time of Max Vel. hours	Maximum Velocity fps
RS15S16	0.42	85.61	0.35	0.75
RS13S14	0.00	602.74	0.00	6.95
RS12S13	0.01	72.91	3.87	0.34
RS11S12	2.88	76.93	9.75	1.37
RSC9SC10	0.02	169.22	0.02	0.94
RS005	0.02	106.61	0.02	0.67
RS041	0.00	0.00	0.00	0.12
RS042	0.00	0.00	0.00	0.00
RS043	0.00	-0.00	0.00	-0.03
RS044	0.74	0.00	0.70	0.00
RS045	0.00	0.00	0.00	0.10
RS046	0.43	0.00	0.49	0.00
RS047	48.00	0.00	48.00	0.00
RS048	0.00	0.00	0.00	0.00
RS049	0.00	0.00	0.00	0.02
RCB3CB4	0.00	49.59	0.00	2.48
RCB2CB3	0.00	11.16	0.00	0.45
RCBRCB1	10.34	7.77	0.67	0.14
RC010	48.00	1.#R	48.00	1.#R
RC015	13.05	0.01	13.05	0.01
RC017	0.00	0.00	48.00	0.06
RC018	0.00	0.00	0.00	0.00
RC019	0.00	0.00	0.00	0.00
RS131	5.03	306.80	0.02	-1.65
RS130A	6.02	54.96	6.02	7.78
RS120B	7.73	28.34	0.01	-0.35
RS117	10.10	21.82	0.00	6.32
RS078	48.00	0.03	48.00	0.32
RS108	0.00	0.00	0.00	0.00
RS109	0.00	0.00	0.00	0.00
RS113	48.00	5.04	48.00	2.47
RS112A	37.26	5.91	32.48	0.18
RS111	48.00	0.54	0.00	0.00
RS110	48.00	-0.00	0.00	-0.01
RS18S19	0.00	5736.21	0.00	4.11
RS14S15	0.11	329.43	0.07	5.95
RC020	0.00	-3.38	0.00	3.96
RS080A	0.00	0.00	0.00	0.00
RS079	48.00	0.04	48.00	0.00
RS105A	6.70	0.00	0.00	0.06
RS083	0.00	0.00	6.86	0.01
RS084	0.00	0.00	0.00	0.00
RS085	2.38	-0.00	2.70	-0.00
RSWC34A	0.00	0.00	0.00	0.00
RC016	0.00	0.01	0.00	0.07
RSC10SC1	2.38	39.20	2.38	0.48
RS16S17	0.69	81.07	0.68	3.25
RS17S18	0.02	488.79	0.03	0.61

Dam Break North Scenario
Maximum Discharges Report

Reach ID	Time of Max Flow hours	Maximum Flow cfs	Time of Max Vel. hours	Maximum Velocity fps
RR050	48.00	0.01	48.00	0.05
RR040	6.99	15.00	6.99	1.81
RR030	48.00	0.03	48.00	0.05
RR020	48.00	0.03	48.00	0.01
RS070B	25.83	-1.34	0.00	0.00
WEIR2	0.00	0.00	0.00	0.00
WEIR4	0.00	0.00	0.00	0.00
WEIR3	0.00	0.00	0.00	0.00
RS072	19.65	1.49	18.55	0.07
RS071	0.00	0.00	0.00	0.00
RS070A	48.00	-0.00	0.00	-0.03
RS058	0.00	0.00	0.00	0.00
RS057	0.00	-0.00	0.22	-0.02
RS056	0.00	0.00	0.00	0.00
RS055	0.00	0.00	0.00	0.05
RS054	0.33	-0.00	0.32	0.00
RS053	0.00	-0.00	0.00	-0.13
RS052	0.00	0.00	0.00	0.00
RS070C	0.00	0.00	0.00	0.00
RS077	0.00	0.00	0.00	0.01
RS076A	0.00	0.00	0.00	0.00
RS075A	23.24	2.11	19.84	0.30
RS062	0.00	0.00	0.00	0.00
RS081	0.00	0.45	0.00	0.00
RCB1CB2	0.00	13.41	0.00	0.37
RS105B	0.00	0.00	0.00	0.00
RS103	0.00	-4.43	0.03	2.98
RS102	0.00	0.00	0.00	0.00
RS101	0.00	0.00	0.00	0.00
RS100	1.85	0.01	48.00	0.07
RS076B	0.00	0.00	0.00	0.00
RS075B	14.70	2.13	9.86	1.50
RS130B	5.97	27.33	0.00	5.42
RS125	6.26	24.38	0.14	3.54
RS121	0.00	0.00	0.00	0.00
RS123	6.41	22.84	2.95	0.24
RS104	0.00	0.00	0.00	0.00
RWET7	0.00	0.00	0.00	0.00
RCB11	0.00	0.00	0.00	0.00
RCB22	0.00	0.00	0.00	0.00
RCB23	0.00	0.00	0.00	0.00
RCB21	0.00	0.00	0.00	0.00
RS113B	21.25	0.29	21.19	1.00
RS118	31.31	-0.01	0.00	-0.11
RS107	0.00	0.00	0.00	0.00
RWET10	0.00	0.00	0.00	0.00
RS070	0.00	0.00	0.00	0.00
RS070D	0.00	0.00	0.00	0.00

Dam Break North Scenario
Maximum Discharges Report

Reach ID	Time of Max Flow hours	Maximum Flow cfs	Time of Max Vel. hours	Maximum Velocity fps
RS057A	0.00	0.40	0.00	0.00
RS080	1.19	0.07	1.18	0.01
RC035A	0.00	0.00	0.00	0.00
RC033A	0.03	-0.13	0.91	0.21
RC031	0.00	0.00	0.00	0.00
RC035B	0.00	0.00	0.00	0.00
RC033B	0.00	0.00	0.00	0.00
RC035C	0.00	-0.56	0.00	0.00
RC035D	0.00	-7.51	0.00	3.85
RS112	21.08	0.03	17.21	1.00
RC028	0.00	0.00	0.00	0.00
RWET4	0.00	0.00	0.00	0.00
RWET4A	0.00	0.00	0.00	0.00
RS111A	48.00	3.45	48.00	0.62
RC050	48.00	3.37	48.00	3.62
RS110A	48.00	0.00	48.00	0.02
RS115	0.00	0.00	0.00	0.00
RC029	0.00	0.00	0.00	0.00
RS109A	0.00	0.00	0.00	0.00
RWET1	17.94	3.24	17.94	4.16
RET11A	0.00	0.00	0.00	0.00
RET11B	0.00	0.00	0.00	0.00
RET11C	0.00	0.00	0.00	0.00
RET11D	0.00	0.00	0.00	0.00
RWET8C	1.33	97.47	1.33	20.02
RCS1D	15.70	81.20	15.70	5.80
RCS1E	15.70	21.23	15.70	0.74
RSPONDA	0.00	0.00	0.00	0.00
RB062	0.55	182.98	0.12	1.09
RB061	1.24	61.50	1.24	1.81
RB060	2.12	56.80	1.93	1.06
RB030	6.15	610.98	4.81	2.34
RB020	8.31	879.38	5.75	9.36
RCS3R	6.30	298.81	6.30	2.25
RB065	0.00	0.00	0.00	0.00
RCS5	0.00	0.00	0.00	0.00
RS150	3.58	1624.79	3.58	3.98
RWET1A	16.74	361.84	16.74	8.04
RBC2R	4.36	713.37	4.36	2.40
RS194A	2.03	3187.37	2.03	4.99
RBC11R	2.91	2155.52	2.91	3.47
RB064	4.76	693.31	4.04	1.22
RB040	6.15	607.97	4.82	2.63
RB050	5.85	604.77	4.83	0.89
RWET2	2.86	1422.57	2.27	3.36
RWET6	0.00	0.00	0.00	0.00
RSPONDB	0.00	0.00	0.00	0.00
RRPOND	5.99	-3.24	5.99	-1.16

Dam Break North Scenario
Maximum Discharges Report

Reach ID	Time of Max Flow hours	Maximum Flow cfs	Time of Max Vel. hours	Maximum Velocity fps
RS150B	16.73	34.99	16.73	7.13
RCS2B	15.70	-21.23	15.70	-0.74
RCS2A	37.02	735.70	37.02	8.87
RWET8A	1.33	609.37	1.33	22.57
RWET8B	1.33	12620.36	1.33	19.83
RS150A	16.73	43.47	16.73	6.92
RS150C	16.73	827.73	16.73	7.96
RB070	4.97	671.78	4.97	2.97
RCSAN	1.00	104447.86	1.00	23.65
RS154C	1.33	-26063.33	1.33	-10.04
RS154B	1.85	21.07	1.85	0.94
RS154A	1.85	13689.20	1.85	8.10
RS194B	2.03	6022.79	2.03	13.32
RB080A	0.00	0.00	0.00	0.00
RB080B	0.00	0.00	0.00	0.00
RB080C	0.00	0.00	0.00	0.00
RB078	0.00	0.00	0.00	0.00
RB076A	0.00	0.00	0.00	0.00
RB076B	0.00	0.00	0.00	0.00
RCS1A	15.70	242.20	15.70	8.62
RCS1B	15.70	76.41	15.70	5.87
RCS1C	15.70	33.12	15.70	11.58
RCS2C	37.02	1.48	31.16	3.15
RCS2D	37.02	59.13	37.02	6.88
RCS5A	0.00	0.00	0.00	0.00
RCS5B	48.00	1.00	48.00	2.32
RCS5C	0.00	0.00	0.00	0.00
RCS5D	0.00	0.00	0.00	0.00
RWET8D	1.20	29420.65	0.99	10.34
RWET2B	2.77	-11503.80	2.77	-6.07
RR060	0.00	0.00	0.00	0.00
RCS2	0.00	0.00	0.00	0.00
RS035	48.00	0.00	48.00	0.00
RS072A	0.00	0.00	0.00	0.00
RWET1B	0.00	0.00	0.00	0.00
RS154	1.85	8131.91	1.85	14.72
RR060B	0.00	0.00	0.00	0.00
RC037	0.00	0.00	0.00	0.00
RET10	0.00	0.00	0.00	0.00
RWET10B	0.00	0.00	0.00	0.00
RC040	0.00	0.00	0.00	0.00
RWET7A	0.00	0.00	0.00	0.00
RS106	0.00	0.00	0.00	0.00
RC027	0.00	0.00	0.00	0.00
RC027B	0.00	0.00	0.00	0.00
RS135A	2.61	2660.80	1.90	10.66
RS163A	0.00	0.00	0.00	0.00
RS165A	0.00	-0.43	0.00	0.00

Dam Break North Scenario
Maximum Discharges Report

Reach ID	Time of Max Flow hours	Maximum Flow cfs	Time of Max Vel. hours	Maximum Velocity fps
RC019A	0.00	0.00	0.00	0.00
RC019C	0.00	0.00	0.00	0.00
RCB4CB5	0.23	17.53	0.23	0.14
RCB5	0.12	34.37	0.12	0.13
SWC31A	0.00	0.00	0.00	0.00
RSC8SC9	0.04	34.50	1.83	1.00
RS080B	0.00	0.00	0.00	0.00
RS040	0.47	0.00	0.47	0.00
RS051	0.00	0.00	0.00	0.00
RS116	13.59	15.52	10.03	3.67
RSWC34B	48.00	0.01	48.00	0.00
RS020	48.00	0.01	48.00	0.22
RS125B	0.00	0.00	0.00	0.00
RS128	0.00	0.00	0.00	0.00
RS128B	0.00	0.00	0.00	0.00
RS127	42.51	5.80	42.51	1.18
RS126	0.00	-19.27	0.00	6.36
RS126B	0.00	0.00	0.00	0.00
RS114	0.00	0.00	0.00	0.00
RS127B	34.05	14.50	0.00	4.57
RS114B	0.00	0.00	0.00	0.00
RS121B	0.00	0.00	0.00	0.00
RC033C	0.00	0.00	0.00	0.00
RC033D	0.03	-5.40	0.00	0.00
RC031A	0.00	0.00	0.00	0.00
RS30	0.02	971.60	0.02	0.42
RS19	0.04	813.44	0.04	0.46
RB005	8.31	782.47	8.31	9.06
RB010	8.31	911.67	8.31	10.28
RR005	48.00	0.00	48.00	0.00
RR010	48.00	0.00	48.00	0.04
RBC11	0.00	0.00	0.00	0.00
RS194C	2.03	5583.65	2.03	7.13
RS165	0.00	0.00	0.00	0.00
RS170	0.00	0.00	0.00	0.00
RS170B	3.32	-2240.55	3.32	-7.43
RS170C	2.03	-324.22	2.03	-2.33
RS163B	0.00	0.00	0.00	0.00
RS163C	48.00	-18.02	48.00	5.84
RS127C	0.08	-2.45	0.08	3.52
RS127D	34.08	-0.66	34.08	0.13
RS127E	0.08	-2.45	0.08	3.52
RS127F	42.51	5.71	42.51	1.16
RS127G	0.18	-1.00	0.18	1.43
RS127H	34.08	-0.65	34.08	0.13
RS121C	11.03	7.14	11.03	4.60

Dam Break East Scenario SA No. 10V

PCS Phosphate - White Springs

Prepared by
Jane Dai

CHAN Version 2
Report of Output Data

Dam Break East Scenario
Maximum Stages Report

Node ID	Time of Max Stage hours	Maximum Stage feet	Flood Elevation feet	Flood Depth feet
NS15	0.28	89.69	87.00	2.69
NS16	0.69	81.13	80.00	1.13
NS13	0.00	91.00	87.70	3.30
NS14	0.09	90.01	87.50	2.51
NS12	0.00	92.00	90.00	2.00
NS11	2.84	92.09	91.00	1.09
NSC9	0.00	107.00	103.00	4.00
NSC10	1.93	103.50	102.00	1.50
NS005	0.00	107.00	103.00	4.00
NS010	0.00	107.00	104.50	2.50
NS040	0.47	109.50	109.40	0.10
NS041	0.00	113.30	113.20	0.10
NS042	0.00	114.60	114.50	0.10
NS043	61.90	113.11	113.00	0.11
NS044	61.90	113.11	113.00	0.11
NS045	0.00	117.10	116.97	0.13
NS046	0.00	117.10	117.00	0.10
NS047	0.00	117.10	117.00	0.10
NS048	61.90	119.40	119.30	0.10
NS049	0.00	123.50	123.40	0.10
NCB3	0.00	89.00	88.00	1.00
NCB4	0.23	88.62	87.50	1.12
NCB2	0.40	106.01	105.00	1.01
NCBR	0.00	115.00	114.70	0.30
NCB1	0.00	115.00	114.00	1.00
NC010	10.34	114.01	113.64	0.37
NC015	13.05	115.00	113.90	1.10
NC017	0.00	127.70	127.60	0.10
NC016	0.00	121.90	121.80	0.10
NC018	0.00	127.57	127.57	0.00
NC019	0.00	129.70	128.70	1.00
NS131	6.40	130.46	123.00	7.46
NS130	6.47	130.46	128.16	2.30
NS120	7.22	130.46	128.00	2.46
NS117	0.00	131.10	130.00	1.10
NS116	0.00	132.40	130.00	2.40
NS113	0.78	132.06	130.60	1.46
SWC34	61.90	115.30	114.39	0.91
NS078	61.90	115.31	115.20	0.11
NS108	0.00	124.50	124.50	0.00
NS105	0.00	122.10	122.00	0.10
NS109	0.00	133.40	133.30	0.10
NS112	0.00	132.10	132.00	0.10
NS111	61.90	130.10	130.00	0.10
NS110	61.90	130.10	130.00	0.10
NS18	0.00	77.00	60.00	17.00
NS19	0.02	76.85	59.00	17.85
NC020	61.90	128.92	128.19	0.73

Dam Break East Scenario
Maximum Stages Report

Node ID	Time of Max Stage hours	Maximum Stage feet	Flood Elevation feet	Flood Depth feet
NS080	61.90	115.31	113.50	1.81
NS079	61.90	115.31	113.50	1.81
NS083	0.00	130.10	130.00	0.10
NS081	0.00	128.10	128.00	0.10
NS084	0.00	130.10	130.00	0.10
NS085	0.00	130.10	130.00	0.10
NS165	61.90	130.00	122.00	8.00
SWC31	0.00	114.25	114.25	0.00
WET2	11.22	132.16	111.00	21.16
NS17	0.00	80.50	79.00	1.50
NR050	51.03	121.79	119.00	2.79
NR040	27.26	119.13	111.00	8.13
NR030	23.68	118.19	110.00	8.19
NR020	42.02	99.04	90.00	9.04
NR010	41.64	98.06	88.20	9.86
TWR	0.00	79.00	79.00	0.00
NS070	61.90	122.96	119.80	3.16
NS062	61.90	122.96	119.80	3.16
CSA	0.00	156.20	119.20	37.00
NS154	1.15	140.64	117.00	23.64
NS163	0.00	128.00	125.00	3.00
NS194	3.56	136.60	125.00	11.60
NS072	19.84	127.11	126.00	1.11
NS071	19.84	127.11	126.00	1.11
NS058	0.00	126.60	126.50	0.10
NS057	0.00	123.10	123.00	0.10
NS056	0.00	124.10	124.00	0.10
NS055	0.00	124.50	124.40	0.10
NS054	61.90	122.11	122.00	0.11
NS053	61.90	122.11	122.00	0.11
NS052	0.00	124.40	124.30	0.10
NS051	0.00	123.89	122.89	1.00
NS077	11.16	132.16	129.30	2.86
NS076	11.22	132.16	129.00	3.16
NS075	10.45	127.20	126.00	1.20
NS103	2.67	115.71	114.94	0.77
NS102	0.00	116.00	114.82	1.18
NS101	0.00	113.06	112.06	1.00
NS100	0.00	112.10	112.00	0.10
WET1	11.23	132.16	120.04	12.12
TWS	0.00	76.00	55.00	21.00
NS125	6.50	130.46	126.00	4.46
NS123	6.50	130.46	126.00	4.46
NS121	0.07	131.12	130.89	0.23
NS104	0.00	115.00	96.27	18.73
WET7	0.00	135.00	134.63	0.37
WET6	0.00	132.00	128.62	3.38
CB11	0.00	130.00	129.22	0.78

Dam Break East Scenario
Maximum Stages Report

Node ID	Time of Max Stage hours	Maximum Stage feet	Flood Elevation feet	Flood Depth feet
CB22	0.00	128.43	127.43	1.00
CB21	0.00	119.00	112.40	6.60
CB23	0.00	110.38	110.38	0.00
NS118	3.02	133.10	133.00	0.10
NS107	0.00	137.10	137.00	0.10
NS106	0.00	132.47	132.47	0.00
BC1	0.00	138.00	114.94	23.06
WET10	0.00	138.00	132.56	5.44
NC037	0.00	138.00	136.50	1.50
NC035	22.37	137.68	134.32	3.36
NC033	0.00	138.12	136.70	1.42
NC031	0.00	138.12	136.70	1.42
NC029	0.00	141.60	137.52	4.08
NC028	0.00	132.70	132.70	0.00
NC027	0.00	129.49	129.49	0.00
WET4	0.00	129.68	128.68	1.00
WET3	0.00	131.50	128.65	2.85
NC050	61.90	130.10	130.00	0.10
NS115	61.90	130.10	130.00	0.10
NS135	6.40	130.46	123.00	7.46
WET11	61.61	120.32	111.04	9.28
NR060	0.00	116.38	116.38	0.00
WET8	3.53	136.60	120.00	16.60
CS1	53.22	128.60	122.00	6.60
CS3	49.10	123.85	121.54	2.31
CS5	0.00	127.00	120.95	6.05
SPond	0.00	124.40	113.14	11.26
NB062	0.00	120.60	115.17	5.43
NB061	1.24	119.95	115.50	4.45
NB060	1.71	116.81	115.00	1.81
NB050	61.90	111.35	109.00	2.35
NB030	0.00	108.55	108.45	0.10
NB020	61.90	104.60	104.50	0.10
NB010	0.00	103.00	102.62	0.38
TWB	0.00	102.00	102.00	0.00
NB065	0.00	125.80	118.02	7.78
NS150	11.22	132.16	117.94	14.22
CS2	15.39	129.40	122.00	7.40
BC2	0.00	129.00	126.69	2.31
NB070	0.00	122.00	117.75	4.25
BC11	0.00	137.00	130.18	6.82
NB064	0.00	118.10	118.00	0.10
NB040	61.90	111.35	109.25	2.10
RPond	0.00	115.70	110.06	5.64
NB080	0.00	125.00	125.00	0.00
NB078	0.00	123.44	123.44	0.00
NB076	0.00	124.50	120.49	4.01
NS035	0.00	117.10	117.00	0.10

Dam Break East Scenario
Maximum Stages Report

Node ID	Time of Max Stage hours	Maximum Stage feet	Flood Elevation feet	Flood Depth feet
NS073	0.00	125.00	123.76	1.24
NC040	0.00	139.50	139.50	0.00
NCB5	0.12	88.03	85.00	3.03
TWC	0.00	88.00	85.00	3.00
NS020	61.90	113.01	109.00	4.01
NS128	0.00	131.10	129.27	1.83
NS127	7.11	132.11	129.94	2.17
NS126	7.11	132.11	131.00	1.11
NS114	0.00	134.33	131.50	2.83
NS30	0.02	76.04	55.00	21.04
NB005	0.00	102.00	102.00	0.00
NR005	43.42	86.33	79.00	7.33
NS170	61.90	128.70	124.00	4.70

Dam Break East Scenario
Maximum Discharges Report

Reach ID	Time of Max Flow hours	Maximum Flow cfs	Time of Max Vel. hours	Maximum Velocity fps
RS15S16	0.42	85.61	0.35	0.75
RS13S14	0.00	602.74	0.00	6.95
RS12S13	0.01	72.91	3.87	0.34
RS11S12	2.88	76.93	9.75	1.37
RSC9SC10	0.02	169.22	0.02	0.94
RS005	0.02	106.61	0.02	0.67
RS041	0.00	0.00	0.00	0.12
RS042	0.00	0.00	0.00	0.00
RS043	0.00	-0.00	0.00	-0.03
RS044	0.74	0.00	0.70	0.00
RS045	0.00	0.00	0.00	0.10
RS046	0.43	0.00	0.49	0.00
RS047	61.90	0.00	61.90	0.00
RS048	0.00	0.00	0.00	0.00
RS049	0.00	0.00	0.00	0.02
RCB3CB4	0.00	49.59	0.00	2.48
RCB2CB3	0.00	11.16	0.00	0.45
RCBRCB1	10.34	7.77	0.67	0.14
RC010	61.90	1.#R	61.90	1.#R
RC015	13.05	0.01	13.05	0.01
RC017	0.00	0.00	61.90	0.06
RC018	0.00	0.00	0.00	0.00
RC019	0.00	0.00	0.00	0.00
RS131	0.01	-76.71	0.02	-1.65
RS130A	0.90	-14.41	0.90	5.47
RS120B	0.01	-27.55	0.01	-0.35
RS117	0.00	-18.96	0.00	6.32
RS078	61.90	0.04	61.90	0.34
RS108	0.00	0.00	0.00	0.00
RS109	0.00	0.00	0.00	0.00
RS113	0.00	-0.24	0.00	0.00
RS112A	0.00	0.00	0.00	0.01
RS111	0.00	0.00	0.00	0.00
RS110	0.00	-0.00	0.00	-0.01
RS18S19	0.00	5736.21	0.00	4.11
RS14S15	0.11	329.43	0.07	5.95
RC020	0.00	-3.38	0.00	3.96
RS080A	0.00	0.00	0.00	0.00
RS079	61.90	0.04	61.90	0.00
RS105A	6.70	0.00	0.00	0.06
RS083	0.00	0.00	6.86	0.01
RS084	0.00	0.00	0.00	0.00
RS085	2.38	-0.00	2.70	-0.00
RSWC34A	0.00	0.00	0.00	0.00
RC016	0.00	0.01	0.00	0.07
RSC10SC1	2.38	39.20	2.38	0.48
RS16S17	0.69	81.07	0.68	3.25
RS17S18	0.02	488.79	0.03	0.61

Dam Break East Scenario
Maximum Discharges Report

Reach ID	Time of Max Flow hours	Maximum Flow cfs	Time of Max Vel. hours	Maximum Velocity fps
RR050	53.47	1215.75	4.96	1.01
RR040	38.25	1296.29	38.25	8.00
RR030	35.57	1487.04	11.87	1.65
RR020	42.55	1374.41	9.00	6.60
RS070B	24.71	-6.53	0.00	0.00
WEIR2	1.00	99244.76	1.00	23.36
WEIR4	0.00	0.00	0.00	0.00
WEIR3	0.00	0.00	0.00	0.00
RS072	11.65	4.93	9.27	0.12
RS071	0.00	0.00	0.00	0.00
RS070A	61.90	-0.01	0.00	-0.03
RS058	0.00	0.00	0.00	0.00
RS057	0.00	-0.00	0.22	-0.02
RS056	0.00	0.00	0.00	0.00
RS055	0.00	0.00	0.00	0.05
RS054	0.33	-0.00	0.32	0.00
RS053	0.00	-0.00	0.00	-0.13
RS052	0.00	0.00	0.00	0.00
RS070C	0.00	0.00	0.00	0.00
RS077	9.68	-37.09	9.37	-0.49
RS076A	0.00	0.00	0.00	0.00
RS075A	24.70	7.86	23.90	0.42
RS062	0.00	0.00	0.00	0.00
RS081	0.00	0.45	0.00	0.00
RCB1CB2	0.00	13.41	0.00	0.37
RS105B	0.00	0.00	0.00	0.00
RS103	0.00	-4.43	0.03	2.98
RS102	0.00	0.00	0.00	0.00
RS101	0.00	0.00	0.00	0.00
RS100	1.85	0.01	61.90	0.07
RS076B	9.34	73.38	9.34	1.13
RS075B	8.91	4.79	4.42	2.88
RS130B	0.00	13.89	0.00	5.42
RS125	5.07	4.28	0.14	3.54
RS121	0.00	0.00	0.00	0.00
RS123	1.43	-0.05	0.01	-0.18
RS104	0.00	0.00	0.00	0.00
RWET7	0.00	0.00	0.00	0.00
RCB11	0.00	0.00	0.00	0.00
RCB22	0.00	0.00	0.00	0.00
RCB23	0.00	0.00	0.00	0.00
RCB21	0.00	0.00	0.00	0.00
RS113B	3.02	-0.00	0.00	0.00
RS118	0.00	-0.00	0.00	-0.11
RS107	0.00	0.00	0.00	0.00
RWET10	0.00	0.00	0.00	0.00
RS070	0.00	0.00	0.00	0.00
RS070D	0.00	0.00	0.00	0.00

Dam Break East Scenario
Maximum Discharges Report

Reach ID	Time of Max Flow hours	Maximum Flow cfs	Time of Max Vel. hours	Maximum Velocity fps
RS057A	0.00	0.40	0.00	0.00
RS080	1.19	0.07	1.18	0.01
RC035A	0.00	0.00	0.00	0.00
RC033A	0.03	-0.13	0.91	0.21
RC031	0.00	0.00	0.00	0.00
RC035B	0.00	0.00	0.00	0.00
RC033B	0.00	0.00	0.00	0.00
RC035C	0.00	-0.56	0.00	0.00
RC035D	0.00	-7.51	0.00	3.85
RS112	0.00	0.00	0.00	0.00
RC028	0.00	0.00	0.00	0.00
RWET4	0.00	0.00	0.00	0.00
RWET4A	0.00	0.00	0.00	0.00
RS111A	1.18	0.00	1.18	0.00
RC050	0.00	0.00	0.00	0.00
RS110A	0.37	0.00	0.31	0.00
RS115	0.00	0.00	0.00	0.00
RC029	0.00	0.00	0.00	0.00
RS109A	0.00	0.00	0.00	0.00
RWET1	11.23	7.35	11.23	5.58
RET11A	0.00	0.00	0.00	0.00
RET11B	0.00	0.00	0.00	0.00
RET11C	0.00	0.00	0.00	0.00
RET11D	0.00	0.00	0.00	0.00
RWET8C	3.53	83.81	3.53	17.22
RCS1D	53.22	52.08	53.22	5.13
RCS1E	0.00	0.00	0.00	0.00
RSPONDA	0.00	0.00	0.00	0.00
RB062	0.55	182.98	0.12	1.09
RB061	1.24	61.50	1.24	1.81
RB060	2.12	56.81	1.93	1.06
RB030	0.00	0.00	0.00	0.04
RB020	0.00	0.00	0.00	0.00
RCS3R	49.10	1214.71	49.10	3.59
RB065	0.00	0.00	0.00	0.00
RCS5	0.00	0.00	0.00	0.00
RS150	1.96	4164.98	1.96	5.45
RWET1A	11.21	1273.28	10.86	10.64
RBC2R	0.00	0.00	0.00	0.00
RS194A	0.00	0.00	0.00	0.00
RBC11R	0.00	0.00	0.00	0.00
RB064	4.60	0.07	0.00	0.13
RB040	0.00	0.00	0.00	0.00
RB050	2.51	3.60	2.31	0.37
RWET2	1.61	2398.28	1.26	4.30
RWET6	0.00	0.00	0.00	0.00
RSPONDB	0.00	0.00	0.00	0.00
RRPOND	0.00	0.00	0.00	0.00

Dam Break East Scenario
Maximum Discharges Report

Reach ID	Time of Max Flow hours	Maximum Flow cfs	Time of Max Vel. hours	Maximum Velocity fps
RS150B	10.85	46.29	10.85	9.43
RCS2B	15.39	618.42	15.39	2.29
RCS2A	15.39	882.36	15.39	9.36
RWET8A	3.53	528.16	3.53	19.56
RWET8B	3.53	2491.84	3.53	17.18
RS150A	10.85	57.50	10.85	9.15
RS150C	10.85	1094.94	10.85	10.53
RB070	0.00	0.00	0.00	0.00
RCSAN	0.00	0.00	0.00	0.00
RS154C	1.15	30485.83	1.15	10.58
RS154B	1.15	8340.27	1.15	6.87
RS154A	1.15	30485.83	1.15	10.58
RS194B	3.56	583.32	3.56	10.56
RB080A	0.00	0.00	0.00	0.00
RB080B	0.00	0.00	0.00	0.00
RB080C	0.00	0.00	0.00	0.00
RB078	0.00	0.00	0.00	0.00
RB076A	0.00	0.00	0.00	0.00
RB076B	0.00	0.00	0.00	0.00
RCS1A	53.22	206.61	53.22	7.99
RCS1B	53.22	50.52	53.22	5.08
RCS1C	53.22	31.48	53.22	11.03
RCS2C	15.39	3.58	15.39	4.02
RCS2D	15.39	77.76	15.39	7.61
RCS5A	0.00	0.00	0.00	0.00
RCS5B	0.00	0.00	0.00	0.00
RCS5C	0.00	0.00	0.00	0.00
RCS5D	0.00	0.00	0.00	0.00
RWET8D	1.98	7049.48	1.34	6.46
RWET2B	1.54	-19248.04	1.54	-7.21
RR060	0.00	0.00	0.00	0.00
RCS2	15.39	618.42	15.39	2.29
RS035	61.90	0.00	61.90	0.00
RS072A	0.00	0.00	0.00	0.00
RWET1B	0.00	0.00	0.00	0.00
RS154	1.15	22960.03	1.15	18.09
RR060B	0.00	0.00	0.00	0.00
RC037	0.00	0.00	0.00	0.00
RET10	0.00	0.00	0.00	0.00
RWET10B	0.00	0.00	0.00	0.00
RC040	0.00	0.00	0.00	0.00
RWET7A	0.00	0.00	0.00	0.00
RS106	0.00	0.00	0.00	0.00
RC027	0.00	0.00	0.00	0.00
RC027B	0.00	0.00	0.00	0.00
RS135A	4.78	733.29	3.79	7.97
RS163A	0.00	0.00	0.00	0.00
RS165A	0.00	-0.43	0.00	0.00

Dam Break East Scenario
Maximum Discharges Report

Reach ID	Time of Max Flow hours	Maximum Flow cfs	Time of Max Vel. hours	Maximum Velocity fps
RC019A	0.00	0.00	0.00	0.00
RC019C	0.00	0.00	0.00	0.00
RCB4CB5	0.23	17.53	0.23	0.14
RCB5	0.12	34.37	0.12	0.13
SWC31A	0.00	0.00	0.00	0.00
RSC8SC9	0.04	34.50	55.01	1.00
RS080B	0.00	0.00	0.00	0.00
RS040	0.47	0.00	0.47	0.00
RS051	0.00	0.00	0.00	0.00
RS116	0.00	9.62	5.44	3.93
RSWC34B	61.90	0.01	61.90	0.01
RS020	61.90	0.01	61.90	0.26
RS125B	0.00	0.00	0.00	0.00
RS128	0.00	0.00	0.00	0.00
RS128B	0.00	0.00	0.00	0.00
RS127	0.00	0.00	0.00	0.00
RS126	0.00	-19.27	0.00	6.36
RS126B	0.00	0.00	0.00	0.00
RS114	0.00	0.00	0.00	0.00
RS127B	0.00	-6.78	0.00	4.57
RS114B	0.00	0.00	0.00	0.00
RS121B	0.00	0.00	0.00	0.00
RC033C	0.00	0.00	0.00	0.00
RC033D	0.03	-5.40	0.00	0.00
RC031A	0.00	0.00	0.00	0.00
RS30	0.02	971.60	0.02	0.42
RS19	0.04	813.44	0.04	0.46
RB005	0.00	0.00	0.00	0.00
RB010	0.00	0.00	0.00	0.00
RR005	43.54	1414.23	43.54	10.07
RR010	43.38	1398.69	27.13	2.65
RBC11	0.00	0.00	0.00	0.00
RS194C	3.56	1450.44	3.56	4.55
RS165	0.00	0.00	0.00	0.00
RS170	0.00	0.00	0.00	0.00
RS170B	6.40	-74.25	6.40	-2.43
RS170C	0.00	0.00	0.00	0.00
RS163B	0.00	0.00	0.00	0.00
RS163C	0.00	0.00	0.00	0.00
RS127C	0.08	-2.45	0.08	3.52
RS127D	0.70	-0.08	0.70	0.05
RS127E	0.08	-2.45	0.08	3.52
RS127F	0.00	0.00	0.00	0.00
RS127G	0.18	-1.00	0.18	1.43
RS127H	0.70	-0.08	0.70	0.12
RS121C	0.00	-1.45	0.00	3.06

Dam Break West Scenario SA No. 10V

PCS Phosphate - White Springs

Prepared by
Jane Dai

CHAN Version 2
Report of Output Data

Dam Break West Scenario
Maximum Stages Report

Node ID	Time of Max Stage hours	Maximum Stage feet	Flood Elevation feet	Flood Depth feet
NS15	0.28	89.69	87.00	2.69
NS16	0.69	81.13	80.00	1.13
NS13	0.00	91.00	87.70	3.30
NS14	0.09	90.01	87.50	2.51
NS12	0.00	92.00	90.00	2.00
NS11	2.84	92.09	91.00	1.09
NSC9	0.00	107.00	103.00	4.00
NSC10	1.93	103.50	102.00	1.50
NS005	0.00	107.00	103.00	4.00
NS010	0.00	107.00	104.50	2.50
NS040	0.47	109.50	109.40	0.10
NS041	0.00	113.30	113.20	0.10
NS042	0.00	114.60	114.50	0.10
NS043	71.40	113.11	113.00	0.11
NS044	71.40	113.11	113.00	0.11
NS045	0.00	117.10	116.97	0.13
NS046	0.00	117.10	117.00	0.10
NS047	0.00	117.10	117.00	0.10
NS048	71.40	119.40	119.30	0.10
NS049	0.00	123.50	123.40	0.10
NCB3	0.00	89.00	88.00	1.00
NCB4	0.23	88.62	87.50	1.12
NCB2	0.40	106.01	105.00	1.01
NCBR	0.00	115.00	114.70	0.30
NCB1	0.00	115.00	114.00	1.00
NC010	10.34	114.01	113.64	0.37
NC015	13.05	115.00	113.90	1.10
NC017	0.00	127.70	127.60	0.10
NC016	0.00	121.90	121.80	0.10
NC018	0.00	127.57	127.57	0.00
NC019	0.00	129.70	128.70	1.00
NS131	6.52	136.69	123.00	13.69
NS130	6.91	136.64	128.16	8.48
NS120	51.38	134.19	128.00	6.19
NS117	51.45	134.19	130.00	4.19
NS116	57.98	134.15	130.00	4.15
NS113	61.66	134.11	130.60	3.51
SWC34	71.40	115.30	114.39	0.91
NS078	71.40	115.31	115.20	0.11
NS108	0.00	124.50	124.50	0.00
NS105	0.00	122.10	122.00	0.10
NS109	0.00	133.40	133.30	0.10
NS112	28.45	133.16	132.00	1.16
NS111	71.40	132.40	130.00	2.40
NS110	71.40	130.63	130.00	0.63
NS18	0.00	77.00	60.00	17.00
NS19	0.02	76.85	59.00	17.85
NC020	71.40	128.95	128.19	0.76

Dam Break West Scenario
Maximum Stages Report

Node ID	Time of Max Stage hours	Maximum Stage feet	Flood Elevation feet	Flood Depth feet
NS080	71.40	115.31	113.50	1.81
NS079	71.40	115.31	113.50	1.81
NS083	0.00	130.10	130.00	0.10
NS081	0.00	128.10	128.00	0.10
NS084	0.00	130.10	130.00	0.10
NS085	0.00	130.10	130.00	0.10
NS165	71.40	130.00	122.00	8.00
SWC31	0.00	114.25	114.25	0.00
WET2	22.27	130.48	111.00	19.48
NS17	0.00	80.50	79.00	1.50
NR050	71.40	126.22	119.00	7.22
NR040	0.00	111.10	111.00	0.10
NR030	71.40	110.62	110.00	0.62
NR020	71.40	90.10	90.00	0.10
NR010	71.40	88.42	88.20	0.22
TWR	0.00	79.00	79.00	0.00
NS070	71.40	121.74	119.80	1.94
NS062	71.40	121.74	119.80	1.94
CSA	0.00	156.20	119.20	37.00
NS154	3.10	135.69	117.00	18.69
NS163	71.40	130.36	125.00	5.36
NS194	2.09	139.03	125.00	14.03
NS072	21.96	126.97	126.00	0.97
NS071	47.48	126.85	126.00	0.85
NS058	0.00	126.60	126.50	0.10
NS057	0.00	123.10	123.00	0.10
NS056	0.00	124.10	124.00	0.10
NS055	0.00	124.50	124.40	0.10
NS054	71.40	122.12	122.00	0.12
NS053	71.40	122.12	122.00	0.12
NS052	0.00	124.40	124.30	0.10
NS051	0.00	123.89	122.89	1.00
NS077	0.00	129.40	129.30	0.10
NS076	71.40	129.10	129.00	0.10
NS075	21.50	127.03	126.00	1.03
NS103	2.67	115.71	114.94	0.77
NS102	0.00	116.00	114.82	1.18
NS101	0.00	113.06	112.06	1.00
NS100	0.00	112.10	112.00	0.10
WET1	22.27	130.48	120.04	10.44
TWS	0.00	76.00	55.00	21.00
NS125	10.21	135.71	126.00	9.71
NS123	11.24	135.65	126.00	9.65
NS121	11.34	135.65	130.89	4.76
NS104	0.00	115.00	96.27	18.73
WET7	0.00	135.00	134.63	0.37
WET6	0.00	132.00	128.62	3.38
CB11	0.00	130.00	129.22	0.78

Dam Break West Scenario
Maximum Stages Report

Node ID	Time of Max Stage hours	Maximum Stage feet	Flood Elevation feet	Flood Depth feet
CB22	0.00	128.43	127.43	1.00
CB21	0.00	119.00	112.40	6.60
CB23	0.00	110.38	110.38	0.00
NS118	61.94	134.11	133.00	1.11
NS107	0.00	137.10	137.00	0.10
NS106	0.00	132.47	132.47	0.00
BC1	0.00	138.00	114.94	23.06
WET10	0.00	138.00	132.56	5.44
NC037	0.00	138.00	136.50	1.50
NC035	22.37	137.68	134.32	3.36
NC033	0.00	138.12	136.70	1.42
NC031	0.00	138.12	136.70	1.42
NC029	0.00	141.60	137.52	4.08
NC028	28.51	133.16	132.70	0.46
NC027	0.00	129.49	129.49	0.00
WET4	0.00	129.68	128.68	1.00
WET3	71.40	131.58	128.65	2.93
NC050	71.40	132.38	130.00	2.38
NS115	71.40	130.63	130.00	0.63
NS135	6.43	136.69	123.00	13.69
WET11	0.00	114.04	111.04	3.00
NR060	0.00	116.38	116.38	0.00
WET8	3.11	137.53	120.00	17.53
CS1	37.86	128.92	122.00	6.92
CS3	71.40	126.22	121.54	4.68
CS5	0.00	127.00	120.95	6.05
SPond	0.00	124.40	113.14	11.26
NB062	0.00	120.60	115.17	5.43
NB061	1.24	119.95	115.50	4.45
NB060	6.80	117.95	115.00	2.95
NB050	6.80	117.95	109.00	8.95
NB030	6.90	117.61	108.45	9.16
NB020	6.99	116.96	104.50	12.46
NB010	6.99	117.15	102.62	14.53
TWB	0.00	102.00	102.00	0.00
NB065	0.00	125.80	118.02	7.78
NS150	22.26	130.48	117.94	12.54
CS2	44.10	128.85	122.00	6.85
BC2	4.65	129.60	126.69	2.91
NB070	5.18	122.92	117.75	5.17
BC11	3.01	138.06	130.18	7.88
NB064	3.75	120.31	118.00	2.31
NB040	6.90	117.62	109.25	8.37
RPond	10.38	116.02	110.06	5.96
NB080	0.00	125.00	125.00	0.00
NB078	0.00	123.44	123.44	0.00
NB076	0.00	124.50	120.49	4.01
NS035	0.00	117.10	117.00	0.10

Dam Break West Scenario
Maximum Stages Report

Node ID	Time of Max Stage hours	Maximum Stage feet	Flood Elevation feet	Flood Depth feet
NS073	0.00	125.00	123.76	1.24
NC040	0.00	139.50	139.50	0.00
NCB5	0.12	88.03	85.00	3.03
TWC	0.00	88.00	85.00	3.00
NS020	71.40	113.01	109.00	4.01
NS128	0.00	131.10	129.27	1.83
NS127	45.28	134.87	129.94	4.93
NS126	45.28	134.87	131.00	3.87
NS114	45.28	134.87	131.50	3.37
NS30	0.02	76.04	55.00	21.04
NB005	5.87	107.12	102.00	5.12
NR005	71.40	79.10	79.00	0.10
NS170	6.43	136.69	124.00	12.69

Dam Break West Scenario
Maximum Discharges Report

Reach ID	Time of Max Flow hours	Maximum Flow cfs	Time of Max Vel. hours	Maximum Velocity fps
RS15S16	0.42	85.61	0.35	0.75
RS13S14	0.00	602.74	0.00	6.95
RS12S13	0.01	72.91	3.87	0.34
RS11S12	2.88	76.93	9.75	1.37
RSC9SC10	0.02	169.22	0.02	0.94
RS005	0.02	106.61	0.02	0.67
RS041	0.00	0.00	0.00	0.12
RS042	0.00	0.00	0.00	0.00
RS043	0.00	-0.00	0.00	-0.03
RS044	0.74	0.00	0.70	0.00
RS045	0.00	0.00	0.00	0.10
RS046	0.43	0.00	0.49	0.00
RS047	71.40	0.00	71.40	0.00
RS048	0.00	0.00	0.00	0.00
RS049	0.00	0.00	0.00	0.02
RCB3CB4	0.00	49.59	0.00	2.48
RCB2CB3	0.00	11.16	0.00	0.45
RCBRCB1	10.34	7.77	0.67	0.14
RC010	71.40	1.#R	71.40	1.#R
RC015	13.05	0.01	13.05	0.01
RC017	0.00	0.00	71.40	0.06
RC018	0.00	0.00	0.00	0.00
RC019	0.00	0.00	0.00	0.00
RS131	5.22	551.13	0.02	-1.65
RS130A	6.37	61.30	6.37	8.67
RS120B	7.01	31.60	0.01	-0.35
RS117	9.71	23.83	0.00	6.32
RS078	71.40	0.04	71.40	0.35
RS108	0.00	0.00	0.00	0.00
RS109	0.00	0.00	0.00	0.00
RS113	61.70	5.32	61.52	2.59
RS112A	36.57	6.13	31.28	0.18
RS111	71.40	1.24	71.40	2.78
RS110	71.40	-0.00	0.00	-0.01
RS18S19	0.00	5736.21	0.00	4.11
RS14S15	0.11	329.43	0.07	5.95
RC020	0.00	-3.38	0.00	3.96
RS080A	0.00	0.00	0.00	0.00
RS079	71.40	0.05	71.40	0.00
RS105A	6.70	0.00	0.00	0.06
RS083	0.00	0.00	6.86	0.01
RS084	0.00	0.00	0.00	0.00
RS085	2.38	-0.00	2.70	-0.00
RSWC34A	0.00	0.00	0.00	0.00
RC016	0.00	0.01	0.00	0.07
RSC10SC1	2.38	39.20	2.38	0.48
RS16S17	0.69	81.07	0.68	3.25
RS17S18	0.02	488.79	0.03	0.61

Dam Break West Scenario
Maximum Discharges Report

Reach ID	Time of Max Flow hours	Maximum Flow cfs	Time of Max Vel. hours	Maximum Velocity fps
RR050	71.40	0.01	71.40	0.05
RR040	56.50	13.35	3.00	1.51
RR030	71.40	0.05	71.40	0.06
RR020	71.40	0.05	68.96	0.01
RS070B	32.33	-1.88	0.00	0.00
WEIR2	0.00	0.00	0.00	0.00
WEIR4	0.00	0.00	0.00	0.00
WEIR3	1.00	58044.54	1.00	20.47
RS072	22.47	1.83	21.38	0.08
RS071	0.00	0.00	0.00	0.00
RS070A	54.39	-0.00	0.00	-0.03
RS058	0.00	0.00	0.00	0.00
RS057	0.00	-0.00	0.22	-0.02
RS056	0.00	0.00	0.00	0.00
RS055	0.00	0.00	0.00	0.05
RS054	0.33	-0.00	0.32	0.00
RS053	0.00	-0.00	0.00	-0.13
RS052	0.00	0.00	0.00	0.00
RS070C	0.00	0.00	0.00	0.00
RS077	0.00	0.00	0.00	0.01
RS076A	0.00	0.00	0.00	0.00
RS075A	27.56	2.57	24.13	0.32
RS062	0.00	0.00	0.00	0.00
RS081	0.00	0.45	0.00	0.00
RCB1CB2	0.00	13.41	0.00	0.37
RS105B	0.00	0.00	0.00	0.00
RS103	0.00	-4.43	0.03	2.98
RS102	0.00	0.00	0.00	0.00
RS101	0.00	0.00	0.00	0.00
RS100	1.85	0.01	71.40	0.07
RS076B	0.00	0.00	0.00	0.00
RS075B	17.62	2.28	12.83	1.51
RS130B	6.33	35.75	0.00	5.42
RS125	6.69	32.41	0.14	3.54
RS121	0.00	0.00	0.00	0.00
RS123	6.80	30.96	2.70	0.25
RS104	0.00	0.00	0.00	0.00
RWET7	0.00	0.00	0.00	0.00
RCB11	0.00	0.00	0.00	0.00
RCB22	0.00	0.00	0.00	0.00
RCB23	0.00	0.00	0.00	0.00
RCB21	0.00	0.00	0.00	0.00
RS113B	19.87	0.31	20.02	1.00
RS118	29.62	-0.01	0.00	-0.11
RS107	0.00	0.00	0.00	0.00
RWET10	0.00	0.00	0.00	0.00
RS070	0.00	0.00	0.00	0.00
RS070D	0.00	0.00	0.00	0.00

Dam Break West Scenario
Maximum Discharges Report

Reach ID	Time of Max Flow hours	Maximum Flow cfs	Time of Max Vel. hours	Maximum Velocity fps
RS057A	0.00	0.40	0.00	0.00
RS080	1.19	0.07	1.18	0.01
RC035A	0.00	0.00	0.00	0.00
RC033A	0.03	-0.13	0.91	0.21
RC031	0.00	0.00	0.00	0.00
RC035B	0.00	0.00	0.00	0.00
RC033B	0.00	0.00	0.00	0.00
RC035C	0.00	-0.56	0.00	0.00
RC035D	0.00	-7.51	0.00	3.85
RS112	20.06	0.03	16.35	1.00
RC028	0.00	0.00	0.00	0.00
RWET4	0.00	0.00	0.00	0.00
RWET4A	0.00	0.00	0.00	0.00
RS111A	69.52	4.13	67.82	0.69
RC050	70.34	4.13	70.34	3.94
RS110A	71.40	0.01	47.01	0.02
RS115	0.00	0.00	0.00	0.00
RC029	0.00	0.00	0.00	0.00
RS109A	0.00	0.00	0.00	0.00
RWET1	22.27	3.67	22.27	4.31
RET11A	0.00	0.00	0.00	0.00
RET11B	0.00	0.00	0.00	0.00
RET11C	0.00	0.00	0.00	0.00
RET11D	0.00	0.00	0.00	0.00
RWET8C	2.32	86.97	2.26	17.83
RCS1D	37.86	72.54	37.86	5.52
RCS1E	0.00	0.00	0.00	0.00
RSPONDA	0.00	0.00	0.00	0.00
RB062	0.55	182.98	0.12	1.09
RB061	1.24	61.50	1.24	1.81
RB060	4.38	-75.90	1.93	1.06
RB030	5.39	774.10	4.42	2.42
RB020	5.87	1023.88	5.02	9.36
RCS3R	7.59	272.14	7.59	2.18
RB065	0.00	0.00	0.00	0.00
RCS5	0.00	0.00	0.00	0.00
RS150	5.10	925.94	5.10	3.30
RWET1A	20.69	389.94	20.69	8.67
RBC2R	4.65	1120.96	4.65	2.79
RS194A	2.09	3467.34	2.09	5.13
RBC11R	3.01	2622.33	3.01	3.71
RB064	5.29	1068.57	3.90	1.33
RB040	5.49	901.58	4.39	2.74
RB050	5.54	939.95	4.39	0.96
RWET2	4.01	1307.52	3.43	3.28
RWET6	0.00	0.00	0.00	0.00
RSPONDB	0.00	0.00	0.00	0.00
RRPOND	6.90	-253.86	6.90	-4.98

Dam Break West Scenario
Maximum Discharges Report

Reach ID	Time of Max Flow hours	Maximum Flow cfs	Time of Max Vel. hours	Maximum Velocity fps
RS150B	20.68	37.71	20.68	7.68
RCS2B	0.00	0.00	0.00	0.00
RCS2A	44.10	730.15	44.10	8.84
RWET8A	1.99	535.37	1.99	19.83
RWET8B	3.11	4890.44	1.96	17.37
RS150A	20.68	46.84	20.68	7.46
RS150C	20.68	891.99	20.68	8.58
RB070	5.18	1066.41	5.18	3.46
RCSAN	0.00	0.00	0.00	0.00
RS154C	2.69	-15137.31	2.69	-8.38
RS154B	0.00	0.00	0.00	0.00
RS154A	3.10	8502.52	3.10	6.91
RS194B	2.09	6366.84	2.09	13.44
RB080A	0.00	0.00	0.00	0.00
RB080B	0.00	0.00	0.00	0.00
RB080C	0.00	0.00	0.00	0.00
RB078	0.00	0.00	0.00	0.00
RB076A	0.00	0.00	0.00	0.00
RB076B	0.00	0.00	0.00	0.00
RCS1A	37.86	232.77	37.86	8.47
RCS1B	37.86	69.09	37.86	5.67
RCS1C	29.35	32.67	29.22	11.43
RCS2C	44.10	1.40	44.10	3.15
RCS2D	44.10	58.41	44.10	6.85
RCS5A	0.00	0.00	0.00	0.00
RCS5B	0.00	0.00	0.00	0.00
RCS5C	0.00	0.00	0.00	0.00
RCS5D	0.00	0.00	0.00	0.00
RWET8D	1.51	-35797.51	1.51	-11.16
RWET2B	4.01	-8419.92	4.01	-5.47
RR060	0.00	0.00	0.00	0.00
RCS2	0.00	0.00	0.00	0.00
RS035	71.40	0.00	71.40	0.00
RS072A	0.00	0.00	0.00	0.00
RWET1B	0.00	0.00	0.00	0.00
RS154	3.10	3927.66	3.10	13.22
RR060B	0.00	0.00	0.00	0.00
RC037	0.00	0.00	0.00	0.00
RET10	0.00	0.00	0.00	0.00
RWET10B	0.00	0.00	0.00	0.00
RC040	0.00	0.00	0.00	0.00
RWET7A	0.00	0.00	0.00	0.00
RS106	0.00	0.00	0.00	0.00
RC027	0.00	0.00	0.00	0.00
RC027B	0.00	0.00	0.00	0.00
RS135A	2.37	2797.03	1.64	10.49
RS163A	0.00	0.00	0.00	0.00
RS165A	0.00	-0.43	0.00	0.00

Dam Break West Scenario
Maximum Discharges Report

Reach ID	Time of Max Flow hours	Maximum Flow cfs	Time of Max Vel. hours	Maximum Velocity fps
RC019A	0.00	0.00	0.00	0.00
RC019C	0.00	0.00	0.00	0.00
RCB4CB5	0.23	17.53	0.23	0.14
RCB5	0.12	34.37	0.12	0.13
SWC31A	0.00	0.00	0.00	0.00
RSC8SC9	0.04	34.50	55.01	1.00
RS080B	0.00	0.00	0.00	0.00
RS040	0.47	0.00	0.47	0.00
RS051	0.00	0.00	0.00	0.00
RS116	13.10	16.88	9.97	3.88
RSWC34B	71.40	0.01	71.40	0.01
RS020	71.40	0.01	71.40	0.28
RS125B	0.00	0.00	0.00	0.00
RS128	0.00	0.00	0.00	0.00
RS128B	0.00	0.00	0.00	0.00
RS127	45.29	9.03	45.29	1.84
RS126	0.00	-19.27	0.00	6.36
RS126B	0.00	0.00	0.00	0.00
RS114	0.00	0.00	0.00	0.00
RS127B	45.43	16.92	0.00	4.57
RS114B	0.00	0.00	0.00	0.00
RS121B	0.00	0.00	0.00	0.00
RC033C	0.00	0.00	0.00	0.00
RC033D	0.03	-5.40	0.00	0.00
RC031A	0.00	0.00	0.00	0.00
RS30	0.02	971.60	0.02	0.42
RS19	0.04	813.44	0.04	0.46
RB005	5.87	990.70	5.87	9.54
RB010	5.87	1148.34	5.87	10.34
RR005	71.40	0.00	71.40	0.01
RR010	71.40	0.00	71.40	0.04
RBC11	0.00	0.00	0.00	0.00
RS194C	2.09	5822.02	2.09	7.23
RS165	0.00	0.00	0.00	0.00
RS170	0.00	0.00	0.00	0.00
RS170B	2.94	-2709.09	2.94	-7.67
RS170C	2.09	-461.26	2.09	-2.62
RS163B	0.00	0.00	0.00	0.00
RS163C	51.38	-18.65	51.38	5.91
RS127C	0.08	-2.45	0.08	3.52
RS127D	23.43	-0.66	23.43	0.13
RS127E	0.08	-2.45	0.08	3.52
RS127F	45.37	8.69	45.37	1.77
RS127G	0.18	-1.00	0.18	1.43
RS127H	23.43	-0.65	23.43	0.13
RS121C	11.34	12.21	11.34	5.45

Dam Break South Scenario SA No. 10V

PCS Phosphate - White Springs

Prepared by
Jane Dai

CHAN Version 2
Report of Output Data

Dam Break South Scenario
Maximum Stages Report

Node ID	Time of Max Stage hours	Maximum Stage feet	Flood Elevation feet	Flood Depth feet
NS15	0.28	89.69	87.00	2.69
NS16	0.69	81.13	80.00	1.13
NS13	0.00	91.00	87.70	3.30
NS14	0.09	90.01	87.50	2.51
NS12	0.00	92.00	90.00	2.00
NS11	2.84	92.09	91.00	1.09
NSC9	0.00	107.00	103.00	4.00
NSC10	1.93	103.50	102.00	1.50
NS005	0.00	107.00	103.00	4.00
NS010	0.00	107.00	104.50	2.50
NS040	0.47	109.50	109.40	0.10
NS041	0.00	113.30	113.20	0.10
NS042	0.00	114.60	114.50	0.10
NS043	74.20	113.11	113.00	0.11
NS044	74.20	113.11	113.00	0.11
NS045	0.00	117.10	116.97	0.13
NS046	0.00	117.10	117.00	0.10
NS047	0.00	117.10	117.00	0.10
NS048	74.20	119.40	119.30	0.10
NS049	0.00	123.50	123.40	0.10
NCB3	0.00	89.00	88.00	1.00
NCB4	0.23	88.62	87.50	1.12
NCB2	0.40	106.01	105.00	1.01
NCBR	0.00	115.00	114.70	0.30
NCB1	0.00	115.00	114.00	1.00
NC010	10.34	114.01	113.64	0.37
NC015	13.05	115.00	113.90	1.10
NC017	0.00	127.70	127.60	0.10
NC016	0.00	121.90	121.80	0.10
NC018	0.00	127.57	127.57	0.00
NC019	0.00	129.70	128.70	1.00
NS131	1.96	143.40	123.00	20.40
NS130	2.82	142.19	128.16	14.03
NS120	2.54	142.08	128.00	14.08
NS117	2.56	140.48	130.00	10.48
NS116	5.60	140.05	130.00	10.05
NS113	5.62	140.04	130.60	9.44
SWC34	74.20	115.30	114.39	0.91
NS078	74.20	115.31	115.20	0.11
NS108	0.00	124.50	124.50	0.00
NS105	0.00	122.10	122.00	0.10
NS109	13.47	136.15	133.30	2.85
NS112	5.69	139.31	132.00	7.31
NS111	6.65	136.82	130.00	6.82
NS110	13.39	136.15	130.00	6.15
NS18	0.00	77.00	60.00	17.00
NS19	0.02	76.85	59.00	17.85
NC020	22.84	130.43	128.19	2.24

Dam Break South Scenario
Maximum Stages Report

Node ID	Time of Max Stage hours	Maximum Stage feet	Flood Elevation feet	Flood Depth feet
NS080	74.20	115.31	113.50	1.81
NS079	74.20	115.31	113.50	1.81
NS083	0.00	130.10	130.00	0.10
NS081	0.00	128.10	128.00	0.10
NS084	0.00	130.10	130.00	0.10
NS085	0.00	130.10	130.00	0.10
NS165	74.20	130.00	122.00	8.00
SWC31	0.00	114.25	114.25	0.00
WET2	19.01	128.95	111.00	17.95
NS17	0.00	80.50	79.00	1.50
NR050	74.20	125.55	119.00	6.55
NR040	0.00	111.10	111.00	0.10
NR030	74.20	110.63	110.00	0.63
NR020	74.20	90.10	90.00	0.10
NR010	74.20	88.43	88.20	0.23
TWR	0.00	79.00	79.00	0.00
NS070	74.20	119.90	119.80	0.10
NS062	74.20	119.90	119.80	0.10
CSA	0.00	156.20	119.20	37.00
NS154	4.56	135.15	117.00	18.15
NS163	0.92	144.75	125.00	19.75
NS194	3.67	137.62	125.00	12.62
NS072	0.00	126.10	126.00	0.10
NS071	0.00	126.10	126.00	0.10
NS058	0.00	126.60	126.50	0.10
NS057	0.00	123.10	123.00	0.10
NS056	0.00	124.10	124.00	0.10
NS055	0.00	124.50	124.40	0.10
NS054	74.20	122.12	122.00	0.12
NS053	74.20	122.12	122.00	0.12
NS052	0.00	124.40	124.30	0.10
NS051	0.00	123.89	122.89	1.00
NS077	0.00	129.40	129.30	0.10
NS076	74.20	129.10	129.00	0.10
NS075	0.00	126.10	126.00	0.10
NS103	2.67	115.71	114.94	0.77
NS102	0.00	116.00	114.82	1.18
NS101	0.00	113.06	112.06	1.00
NS100	0.00	112.10	112.00	0.10
WET1	19.02	128.95	120.04	8.91
TWS	0.00	76.00	55.00	21.00
NS125	5.42	140.08	126.00	14.08
NS123	5.43	140.08	126.00	14.08
NS121	5.60	140.06	130.89	9.17
NS104	0.00	115.00	96.27	18.73
WET7	0.00	135.00	134.63	0.37
WET6	0.00	132.00	128.62	3.38
CB11	0.00	130.00	129.22	0.78

Dam Break South Scenario
Maximum Stages Report

Node ID	Time of Max Stage hours	Maximum Stage feet	Flood Elevation feet	Flood Depth feet
CB22	0.00	128.43	127.43	1.00
CB21	0.00	119.00	112.40	6.60
CB23	0.00	110.38	110.38	0.00
NS118	5.62	140.04	133.00	7.04
NS107	5.65	139.94	137.00	2.94
NS106	13.39	136.15	132.47	3.68
BC1	0.00	138.00	114.94	23.06
WET10	0.00	138.00	132.56	5.44
NC037	0.00	138.00	136.50	1.50
NC035	22.37	137.68	134.32	3.36
NC033	0.00	138.12	136.70	1.42
NC031	0.00	138.12	136.70	1.42
NC029	0.00	141.60	137.52	4.08
NC028	5.71	139.14	132.70	6.44
NC027	5.88	135.82	129.49	6.33
WET4	6.79	133.44	128.68	4.76
WET3	74.20	133.04	128.65	4.39
NC050	9.30	135.27	130.00	5.27
NS115	14.40	135.26	130.00	5.26
NS135	2.55	141.25	123.00	18.25
WET11	0.00	114.04	111.04	3.00
NR060	0.00	116.38	116.38	0.00
WET8	4.55	136.73	120.00	16.73
CS1	58.78	128.41	122.00	6.41
CS3	74.20	125.55	121.54	4.01
CS5	0.00	127.00	120.95	6.05
SPond	0.00	124.40	113.14	11.26
NB062	0.00	120.60	115.17	5.43
NB061	1.24	119.95	115.50	4.45
NB060	1.71	116.81	115.00	1.81
NB050	20.62	114.56	109.00	5.56
NB030	20.46	110.01	108.45	1.56
NB020	21.84	106.56	104.50	2.06
NB010	21.85	103.50	102.62	0.88
TWB	0.00	102.00	102.00	0.00
NB065	0.00	125.80	118.02	7.78
NS150	19.01	128.95	117.94	11.01
CS2	29.96	128.23	122.00	6.23
BC2	7.00	129.07	126.69	2.38
NB070	8.37	122.11	117.75	4.36
BC11	4.67	137.24	130.18	7.06
NB064	7.44	118.85	118.00	0.85
NB040	20.64	114.56	109.25	5.31
RPond	0.00	115.70	110.06	5.64
NB080	0.00	125.00	125.00	0.00
NB078	0.00	123.44	123.44	0.00
NB076	0.00	124.50	120.49	4.01
NS035	0.00	117.10	117.00	0.10

Dam Break South Scenario
Maximum Stages Report

Node ID	Time of Max Stage hours	Maximum Stage feet	Flood Elevation feet	Flood Depth feet
NS073	0.00	125.00	123.76	1.24
NC040	0.00	139.50	139.50	0.00
NCB5	0.12	88.03	85.00	3.03
TWC	0.00	88.00	85.00	3.00
NS020	74.20	113.01	109.00	4.01
NS128	5.61	140.06	129.27	10.79
NS127	5.61	140.05	129.94	10.11
NS126	5.61	140.06	131.00	9.06
NS114	5.61	140.06	131.50	8.56
NS30	0.02	76.04	55.00	21.04
NB005	21.94	103.29	102.00	1.29
NR005	74.20	79.10	79.00	0.10
NS170	2.51	141.32	124.00	17.32

Dam Break South Scenario
Maximum Discharges Report

Reach ID	Time of Max Flow hours	Maximum Flow cfs	Time of Max Vel. hours	Maximum Velocity fps
RS15S16	0.42	85.61	0.35	0.75
RS13S14	0.00	602.74	0.00	6.95
RS12S13	0.01	72.91	3.87	0.34
RS11S12	2.88	76.93	9.75	1.37
RSC9SC10	0.02	169.22	0.02	0.94
RS005	0.02	106.61	0.02	0.67
RS041	0.00	0.00	0.00	0.12
RS042	0.00	0.00	0.00	0.00
RS043	0.00	-0.00	0.00	-0.03
RS044	0.74	0.00	0.70	0.00
RS045	0.00	0.00	0.00	0.10
RS046	0.43	0.00	0.49	0.00
RS047	74.20	0.00	74.20	0.00
RS048	0.00	0.00	0.00	0.00
RS049	0.00	0.00	0.00	0.02
RCB3CB4	0.00	49.59	0.00	2.48
RCB2CB3	0.00	11.16	0.00	0.45
RCBRCB1	10.34	7.77	0.67	0.14
RC010	74.20	1.#R	74.20	1.#R
RC015	13.05	0.01	13.05	0.01
RC017	0.00	0.00	74.20	0.06
RC018	0.00	0.00	0.00	0.00
RC019	0.00	0.00	0.00	0.00
RS131	1.76	3908.74	1.58	3.86
RS130A	1.70	-1447.85	1.10	10.70
RS120B	2.54	2501.99	2.54	1.64
RS117	2.56	1708.54	1.06	14.99
RS078	74.20	0.05	74.20	0.36
RS108	0.00	0.00	0.00	0.00
RS109	0.00	0.00	0.00	0.00
RS113	5.62	1138.41	2.83	6.01
RS112A	5.64	326.50	4.34	0.92
RS111	6.65	259.30	6.65	8.43
RS110	9.07	95.80	8.57	0.31
RS18S19	0.00	5736.21	0.00	4.11
RS14S15	0.11	329.43	0.07	5.95
RC020	22.84	6.67	22.84	4.25
RS080A	0.00	0.00	0.00	0.00
RS079	74.20	0.05	74.20	0.00
RS105A	6.70	0.00	0.00	0.06
RS083	0.00	0.00	6.86	0.01
RS084	0.00	0.00	0.00	0.00
RS085	2.38	-0.00	2.70	-0.00
RSWC34A	0.00	0.00	0.00	0.00
RC016	0.00	0.01	0.00	0.07
RSC10SC1	2.38	39.20	2.38	0.48
RS16S17	0.69	81.07	0.68	3.25
RS17S18	0.02	488.79	0.03	0.61

Dam Break South Scenario
Maximum Discharges Report

Reach ID	Time of Max Flow hours	Maximum Flow cfs	Time of Max Vel. hours	Maximum Velocity fps
RR050	74.20	0.01	74.20	0.05
RR040	56.50	13.35	3.00	1.51
RR030	74.20	0.05	74.20	0.06
RR020	74.20	0.05	68.96	0.01
RS070B	74.09	-0.00	0.00	0.00
WEIR2	0.00	0.00	0.00	0.00
WEIR4	0.92	71884.69	0.92	21.40
WEIR3	0.00	0.00	0.00	0.00
RS072	74.20	-0.00	74.20	-0.00
RS071	0.00	0.00	0.00	0.00
RS070A	0.00	-0.00	0.00	-0.03
RS058	0.00	0.00	0.00	0.00
RS057	0.00	-0.00	0.22	-0.02
RS056	0.00	0.00	0.00	0.00
RS055	0.00	0.00	0.00	0.05
RS054	0.33	-0.00	0.32	0.00
RS053	0.00	-0.00	0.00	-0.13
RS052	0.00	0.00	0.00	0.00
RS070C	0.00	0.00	0.00	0.00
RS077	0.00	0.00	0.00	0.01
RS076A	0.00	0.00	0.00	0.00
RS075A	0.00	0.00	0.00	0.04
RS062	0.00	0.00	0.00	0.00
RS081	0.00	0.45	0.00	0.00
RCB1CB2	0.00	13.41	0.00	0.37
RS105B	0.00	0.00	0.00	0.00
RS103	0.00	-4.43	0.03	2.98
RS102	0.00	0.00	0.00	0.00
RS101	0.00	0.00	0.00	0.00
RS100	1.85	0.01	74.20	0.07
RS076B	0.00	0.00	0.00	0.00
RS075B	1.20	-0.00	1.20	0.00
RS130B	2.82	1468.49	1.01	9.16
RS125	2.54	489.23	1.62	3.67
RS121	2.56	-788.62	2.56	-2.48
RS123	2.55	485.65	2.14	1.90
RS104	0.00	0.00	0.00	0.00
RWET7	0.00	0.00	0.00	0.00
RCB11	0.00	0.00	0.00	0.00
RCB22	0.00	0.00	0.00	0.00
RCB23	0.00	0.00	0.00	0.00
RCB21	0.00	0.00	0.00	0.00
RS113B	2.09	254.15	2.02	7.82
RS118	5.55	109.12	5.52	0.28
RS107	5.65	108.89	5.65	3.49
RWET10	0.00	0.00	0.00	0.00
RS070	0.00	0.00	0.00	0.00
RS070D	0.00	0.00	0.00	0.00

Dam Break South Scenario
Maximum Discharges Report

Reach ID	Time of Max Flow hours	Maximum Flow cfs	Time of Max Vel. hours	Maximum Velocity fps
RS057A	0.00	0.40	0.00	0.00
RS080	1.19	0.07	1.18	0.01
RC035A	0.00	0.00	0.00	0.00
RC033A	0.03	-0.13	0.91	0.21
RC031	0.00	0.00	0.00	0.00
RC035B	0.00	0.00	0.00	0.00
RC033B	0.00	0.00	0.00	0.00
RC035C	0.00	-0.56	0.00	0.00
RC035D	0.00	-7.51	0.00	3.85
RS112	5.67	811.59	3.94	8.08
RC028	5.71	811.43	5.71	10.29
RWET4	6.79	691.67	6.79	2.38
RWET4A	0.00	0.00	0.00	0.00
RS111A	5.89	59.35	5.89	8.40
RC050	9.30	52.71	9.30	7.99
RS110A	8.73	47.68	8.73	6.74
RS115	14.40	40.07	14.40	7.44
RC029	0.00	0.00	0.00	0.00
RS109A	0.00	0.00	0.00	0.00
RWET1	0.00	0.00	0.00	0.00
RET11A	0.00	0.00	0.00	0.00
RET11B	0.00	0.00	0.00	0.00
RET11C	0.00	0.00	0.00	0.00
RET11D	0.00	0.00	0.00	0.00
RWET8C	4.55	84.38	4.55	17.34
RCS1D	58.78	41.02	36.91	4.67
RCS1E	0.00	0.00	0.00	0.00
RSPONDA	0.00	0.00	0.00	0.00
RB062	0.55	182.98	0.12	1.09
RB061	1.24	61.50	1.24	1.81
RB060	2.12	56.81	1.93	1.06
RB030	21.12	20.97	20.75	0.89
RB020	21.84	18.24	20.46	4.29
RCS3R	9.88	232.01	9.88	2.07
RB065	0.00	0.00	0.00	0.00
RCS5	0.00	0.00	0.00	0.00
RS150	6.86	614.87	6.86	2.88
RWET1A	5.99	-285.02	17.35	5.92
RBC2R	7.00	47.48	7.00	0.97
RS194A	3.67	587.32	3.67	2.84
RBC11R	4.67	284.94	4.67	1.77
RB064	8.48	45.28	7.24	0.34
RB040	20.64	15.93	20.64	0.85
RB050	20.56	15.94	2.31	0.37
RWET2	5.45	1116.35	4.74	2.88
RWET6	0.00	0.00	0.00	0.00
RSPONDB	0.00	0.00	0.00	0.00
RRPOND	0.00	0.00	0.00	0.00

Dam Break South Scenario
Maximum Discharges Report

Reach ID	Time of Max Flow hours	Maximum Flow cfs	Time of Max Vel. hours	Maximum Velocity fps
RS150B	17.34	25.77	6.53	6.44
RCS2B	0.00	0.00	0.00	0.00
RCS2A	29.96	569.55	29.96	8.24
RWET8A	4.07	528.60	4.07	19.58
RWET8B	4.55	2776.69	4.02	17.17
RS150A	17.34	32.01	17.34	5.09
RS150C	5.26	-760.71	17.34	5.86
RB070	8.37	44.66	8.37	1.20
RCSAN	0.00	0.00	0.00	0.00
RS154C	3.98	-11717.00	3.98	-7.69
RS154B	0.00	0.00	0.00	0.00
RS154A	4.56	6714.80	4.56	6.39
RS194B	3.67	2513.45	3.67	11.83
RB080A	0.00	0.00	0.00	0.00
RB080B	0.00	0.00	0.00	0.00
RB080C	0.00	0.00	0.00	0.00
RB078	0.00	0.00	0.00	0.00
RB076A	0.00	0.00	0.00	0.00
RB076B	0.00	0.00	0.00	0.00
RCS1A	58.78	190.25	58.78	7.74
RCS1B	58.78	40.24	58.78	4.78
RCS1C	38.16	30.60	37.73	10.73
RCS2C	0.00	0.00	0.00	0.00
RCS2D	29.96	37.95	29.96	6.00
RCS5A	0.00	0.00	0.00	0.00
RCS5B	0.00	0.00	0.00	0.00
RCS5C	0.00	0.00	0.00	0.00
RCS5D	0.00	0.00	0.00	0.00
RWET8D	2.45	-22796.05	2.45	-9.60
RWET2B	5.45	-6927.24	5.45	-5.13
RR060	0.00	0.00	0.00	0.00
RCS2	0.00	0.00	0.00	0.00
RS035	74.20	0.00	74.20	0.00
RS072A	0.00	0.00	0.00	0.00
RWET1B	0.00	0.00	0.00	0.00
RS154	4.56	2586.89	4.56	12.59
RR060B	0.00	0.00	0.00	0.00
RC037	0.00	0.00	0.00	0.00
RET10	0.00	0.00	0.00	0.00
RWET10B	0.00	0.00	0.00	0.00
RC040	0.00	0.00	0.00	0.00
RWET7A	0.00	0.00	0.00	0.00
RS106	11.68	-90.54	11.68	-2.60
RC027	0.00	0.00	0.00	0.00
RC027B	5.88	808.34	5.89	3.27
RS135A	1.41	-10118.14	0.96	16.15
RS163A	0.92	28841.36	0.92	8.25
RS165A	0.00	-0.43	0.00	0.00

Dam Break South Scenario
Maximum Discharges Report

Reach ID	Time of Max Flow hours	Maximum Flow cfs	Time of Max Vel. hours	Maximum Velocity fps
RC019A	0.00	0.00	0.00	0.00
RC019C	0.00	0.00	0.00	0.00
RCB4CB5	0.23	17.53	0.23	0.14
RCB5	0.12	34.37	0.12	0.13
SWC31A	0.00	0.00	0.00	0.00
RSC8SC9	0.04	34.50	55.01	1.00
RS080B	0.00	0.00	0.00	0.00
RS040	0.47	0.00	0.47	0.00
RS051	0.00	0.00	0.00	0.00
RS116	2.06	1595.93	1.35	10.96
RSWC34B	74.20	0.01	74.20	0.01
RS020	74.20	0.01	74.20	0.28
RS125B	3.64	1028.53	3.64	4.49
RS128	2.95	-1109.59	2.10	-3.39
RS128B	2.81	2301.61	2.53	3.23
RS127	2.95	1966.78	2.59	10.42
RS126	5.48	200.25	2.39	8.53
RS126B	0.00	0.00	0.00	0.00
RS114	0.00	0.00	0.00	0.00
RS127B	3.44	-52.97	2.38	9.21
RS114B	3.23	-585.29	3.23	-3.36
RS121B	5.33	294.82	3.53	-2.97
RC033C	0.00	0.00	0.00	0.00
RC033D	0.03	-5.40	0.00	0.00
RC031A	0.00	0.00	0.00	0.00
RS30	0.02	971.60	0.02	0.42
RS19	0.04	813.44	0.04	0.46
RB005	21.94	18.30	21.94	3.59
RB010	21.85	19.64	21.46	2.85
RR005	74.20	0.00	74.20	0.01
RR010	74.20	0.00	74.20	0.04
RBC11	0.00	0.00	0.00	0.00
RS194C	2.55	-11239.59	2.55	-9.00
RS165	0.00	0.00	0.00	0.00
RS170	0.92	-17304.82	0.92	-8.25
RS170B	1.26	10626.70	1.26	9.75
RS170C	2.51	5682.90	2.51	6.05
RS163B	0.92	14420.68	0.92	8.25
RS163C	0.92	4430.07	0.77	17.19
RS127C	2.51	45.23	2.51	9.21
RS127D	2.51	53.65	2.50	10.93
RS127E	2.51	45.23	2.51	9.21
RS127F	2.55	48.19	2.54	10.27
RS127G	2.51	46.10	2.51	9.39
RS127H	2.51	49.23	2.50	10.03
RS121C	3.30	-309.02	2.61	9.54