Composite Outlet Structure Detailed Report: 3C-3 Outlet - Weir to RCB Option 100-YR WSE

Element Details			
Label	3C-3 Outlet - Weir to RCB Option 100-YR WSE	Notes	

Headwater Range			
Headwater Type	Use Pond for Headwater Range	Maximum (Headwater)	297.00 ft
Pond	Flood Basin 3C-3	Increment (Headwater)	1.00 ft
Minimum (Headwater)	278.00 ft		

SpotElevation (ft)

Tailwater Setup			
Tailwater Type	Constant Tailwater	Constant Tailwater	284.80 ft

Tailwater Tolerances			
Maximum Iterations	30	Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft	Flow Tolerance (Minimum)	0.001 ft³/s
Headwater Tolerance (Maximum)	0.50 ft	Flow Tolerance (Maximum)	10.000 ft³/s
Tailwater Tolerance (Minimum)	0.01 ft		

Outlet Structure			
Outlet Structure Type	Culvert	Culvert Type	Box

Outlet Structure (IDs and Direction)			
Outlet ID	Culvert - 1	Downstream ID	Tailwater
Flow Direction	Forward and Reverse Flow	Notes	

Outlet Structure (Advanced)			
Elevation (On)	0.00 ft	Elevation (Off)	0.00 ft

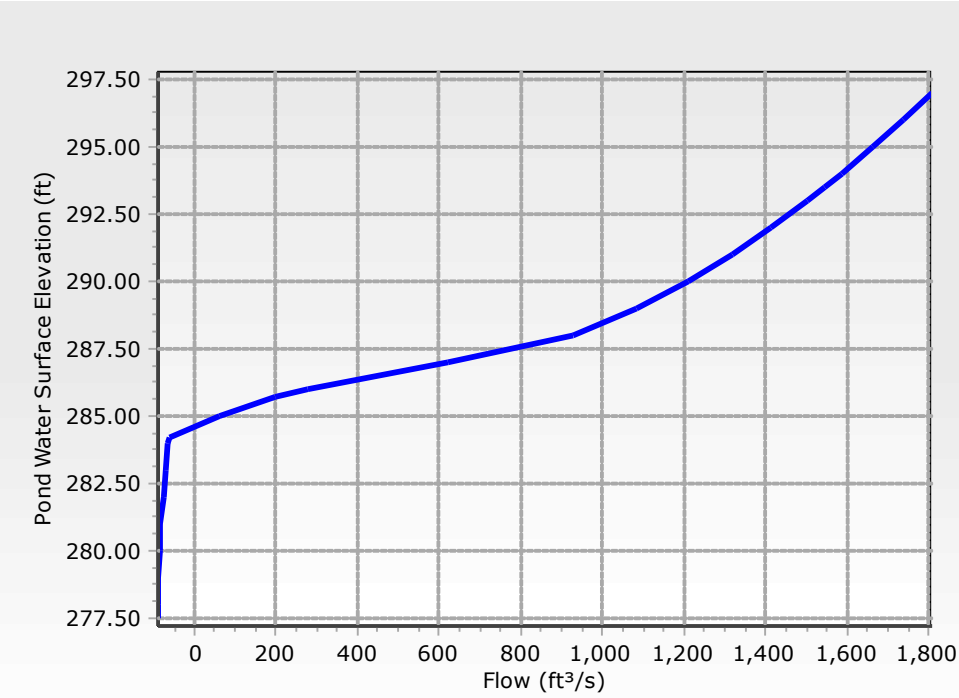
Culvert Data			
Number of Barrels	1	Downstream Invert	275.40 ft
Length	178.00 ft	Width	12.00 ft
Upstream Invert	277.30 ft	Height	8.00 ft

Composite Outlet Structure Detailed Report: 3C-3 Outlet - Weir to RCB Option 100-YR WSE

Unsubmerged->Submerged			
Specify Transitions	False	Compute Inlet Control Only	False

Culvert Coefficients			
Inlet Description	90° headwall w/3/4" chamfers	C	0.0375
Chart	Chart 10	Y	0.7900
Nomograph	Nomograph 1	Manning's n	0.013
Equation Form	Form 2	Ke	0.200
K	0.5150	Kr	0.000
M	0.6670	Slope Correction Factor	-0.500

Culvert (Advanced)			
Convergence Tolerance	0.00 ft	Specify Number of Backwater Sections	False



RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Culvert - 1 (Culvert-Box)

Mannings open channel maximum capacity: 2,578 ft³/s
Upstream ID = Orifice - 1, Weir - 1, Weir - 2
Downstream ID = Tailwater (Pond Outfall)

Composite Outlet Structure Detailed Report: 3C-3 Outlet - Weir to RCB Option 100-YR WSE

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Culvert - 1 (Culvert-Box)

Mannings open channel maximum capacity: 2,578 ft³/s
Upstream ID = Orifice - 1, Weir - 1, Weir - 2
Downstream ID = Tailwater (Pond Outfall)

Water Surface Elevation (ft)	Device Flow (ft³/s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)
277.50	-89	284.78	284.80	284.80
278.00	-89	284.78	284.80	284.80
279.00	-89	284.78	284.80	284.80
280.00	-82	284.78	284.80	284.80
281.00	-82	284.78	284.80	284.80
282.00	-76	284.78	284.80	284.80
283.00	-70	284.79	284.80	284.80
284.00	-67	284.79	284.80	284.80
284.20	-61	284.79	284.80	284.80
285.00	63	284.80	284.80	284.80
285.70	196	284.90	284.80	284.80
286.00	279	284.99	284.80	284.80
287.00	623	285.77	284.80	284.80
288.00	930	286.95	284.80	284.80
289.00	1,083	288.34	284.80	284.80
290.00	1,210	289.53	284.80	284.80
291.00	1,319	290.65	284.80	284.80
292.00	1,415	291.73	284.80	284.80
293.00	1,504	292.78	284.80	284.80
293.50	1,546	293.30	284.80	284.80
294.00	1,587	293.82	284.80	284.80
295.00	1,664	294.85	284.80	284.80
296.00	1,738	295.87	284.80	284.80
297.00	1,809	296.89	284.80	284.80

Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft³/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	1	284.80	0.00
0.00	2	284.80	0.00
0.00	2	284.80	0.00
0.00	1	284.80	0.00
0.00	2	284.80	0.00
0.00	1	284.80	0.00
0.00	3	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00

Composite Outlet Structure Detailed Report: 3C-3 Outlet - Weir to RCB Option 100-YR WSE

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Culvert - 1 (Culvert-Box)

Mannings open channel maximum capacity: 2,578 ft³/s
Upstream ID = Orifice - 1, Weir - 1, Weir - 2
Downstream ID = Tailwater (Pond Outfall)

Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft³/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)
0.00	1	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	1	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	1	284.80	0.00
0.00	1	284.80	0.00
0.00	1	284.80	0.00
0.00	1	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00

Message
REVERSE FULL: Lfull=129.39ft Vh=.013ft HL=.018ft Hev= .00ft
REVERSE FULL: Lfull=129.39ft Vh=.013ft HL=.018ft Hev= .00ft
REVERSE FULL: Lfull=129.47ft Vh=.013ft HL=.018ft Hev= .00ft
REVERSE FULL: Lfull=129.63ft Vh=.011ft HL=.016ft Hev= .00ft
REVERSE FULL: Lfull=129.69ft Vh=.011ft HL=.016ft Hev= .00ft
REVERSE FULL: Lfull=129.85ft Vh=.010ft HL=.014ft Hev= .00ft
REVERSE FULL: Lfull=130.07ft Vh=.008ft HL=.012ft Hev= .00ft
REVERSE FULL: Lfull=130.26ft Vh=.008ft HL=.011ft Hev= .00ft
REVERSE FULL: Lfull=130.25ft Vh=.006ft HL=.009ft Hev= .00ft
FLOW PRECEDENCE SET TO UPSTREAM CONTROLLING STRUCTURE
BACKWATER CONTROL.. Vh= .074ft hwDi= 7.507ft Lbw= 45.6ft Hev= .00ft

Composite Outlet Structure Detailed Report: 3C-3 Outlet - Weir to RCB Option 100-YR WSE

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Culvert - 1 (Culvert-Box)

Mannings open channel maximum capacity: 2,578 ft³/s
Upstream ID = Orifice - 1, Weir - 1, Weir - 2
Downstream ID = Tailwater (Pond Outfall)

Message
BACKWATER CONTROL.. Vh= .148ft hwDi= 7.515ft Lbw= 44.3ft Hev= .00ft
BACKWATER CONTROL.. Vh= .726ft hwDi= 7.596ft Lbw= 33.2ft Hev= .00ft
BACKWATER CONTROL.. Vh= 1.526ft hwDi= 7.821ft Lbw= 12.1ft Hev= .00ft
INLET CONTROL... Transition: HW =11.04
INLET CONTROL... Submerged: HW =12.23
INLET CONTROL... Submerged: HW =13.35
INLET CONTROL... Submerged: HW =14.43
INLET CONTROL... Submerged: HW =15.48
INLET CONTROL... Submerged: HW =16.00
INLET CONTROL... Submerged: HW =16.52
INLET CONTROL... Submerged: HW =17.55
INLET CONTROL... Submerged: HW =18.57
INLET CONTROL... Submerged: HW =19.59

Outlet Structure	
Outlet Structure Type	Orifice

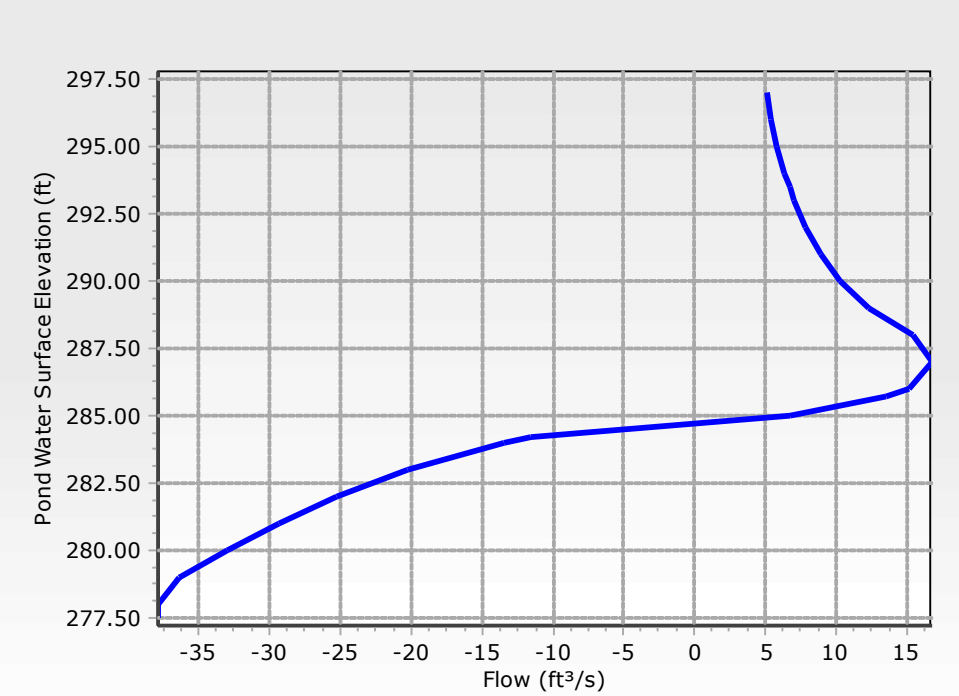
Outlet Structure (IDs and Direction)			
Outlet ID	Orifice - 1	Downstream ID	Culvert - 1
Flow Direction	Forward and Reverse Flow	Notes	

Outlet Structure (Advanced)			
Elevation (On)	0.00 ft	Elevation (Off)	0.00 ft

Composite Outlet Structure Detailed Report: 3C-3 Outlet - Weir to RCB Option 100-YR WSE

Outlet Structure (Orifice)			
Orifice	Circular Orifice	Orifice Coefficient	0.600
Number of Openings	1	Orifice Diameter	24.0 in

Outlet Structure (Common)	
Elevation	277.50 ft



RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 1 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Box)

Water Surface Elevation (ft)	Device Flow (ft³/s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)
277.50	-38	277.50	284.78	284.78
278.00	-38	278.00	284.78	284.78
279.00	-36	279.00	284.78	284.78
280.00	-33	280.00	284.78	284.78
281.00	-29	281.00	284.78	284.78
282.00	-25	282.00	284.78	284.78
283.00	-20	283.00	284.79	284.79

Composite Outlet Structure Detailed Report: 3C-3 Outlet - Weir to RCB Option 100-YR WSE

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 1 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Box)

Water Surface Elevation (ft)	Device Flow (ft³/s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)	Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft³/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)
284.00	-13	284.00	284.79	284.79	0.00	0	284.80	0.00
284.20	-12	284.20	284.79	284.79	0.00	0	284.80	0.00
285.00	7	285.00	284.80	284.80	0.00	0	284.80	0.00
285.70	14	285.70	284.90	284.90	0.00	0	284.80	0.00
286.00	15	286.00	284.99	284.99	0.00	0	284.80	0.00
287.00	17	287.00	285.77	285.77	0.00	0	284.80	0.00
288.00	15	288.00	286.95	286.95	0.00	0	284.80	0.00
289.00	12	289.00	288.34	288.34	0.00	0	284.80	0.00
290.00	10	290.00	289.53	289.53	0.00	0	284.80	0.00
291.00	9	291.00	290.65	290.65	0.00	0	284.80	0.00
292.00	8	292.00	291.73	291.73	0.00	0	284.80	0.00
293.00	7	293.00	292.78	292.78	0.00	0	284.80	0.00
293.50	7	293.50	293.30	293.30	0.00	0	284.80	0.00
294.00	6	294.00	293.82	293.82	0.00	0	284.80	0.00
295.00	6	295.00	294.85	294.85	0.00	0	284.80	0.00
296.00	5	296.00	295.87	295.87	0.00	0	284.80	0.00
297.00	5	297.00	296.89	296.89	0.00	0	284.80	0.00
					0.00	0	284.80	0.00
					0.00	0	284.80	0.00

Composite Outlet Structure Detailed Report: 3C-3 Outlet - Weir to RCB Option 100-YR WSE

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 1 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Box)

Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft^3/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00

Message
REVERSE: H =6.28
REVERSE: H =6.28
REVERSE: H =5.78
REVERSE: H =4.78
REVERSE: H =3.78
REVERSE: H =2.78
REVERSE: H =1.79
REVERSE: H =.79
REVERSE: H =.59
H =.20
H =.80
H =1.01
H =1.23
H =1.05
H =.66
H =.47
H =.35
H =.27
H =.22
H =.20
H =.18
H =.15
H =.13
H =.11

Outlet Structure	
Outlet Structure Type	Weir

Outlet Structure (IDs and Direction)			
Outlet ID	Weir - 1	Downstream ID	Culvert - 1
Flow Direction	Forward and Reverse Flow	Notes	

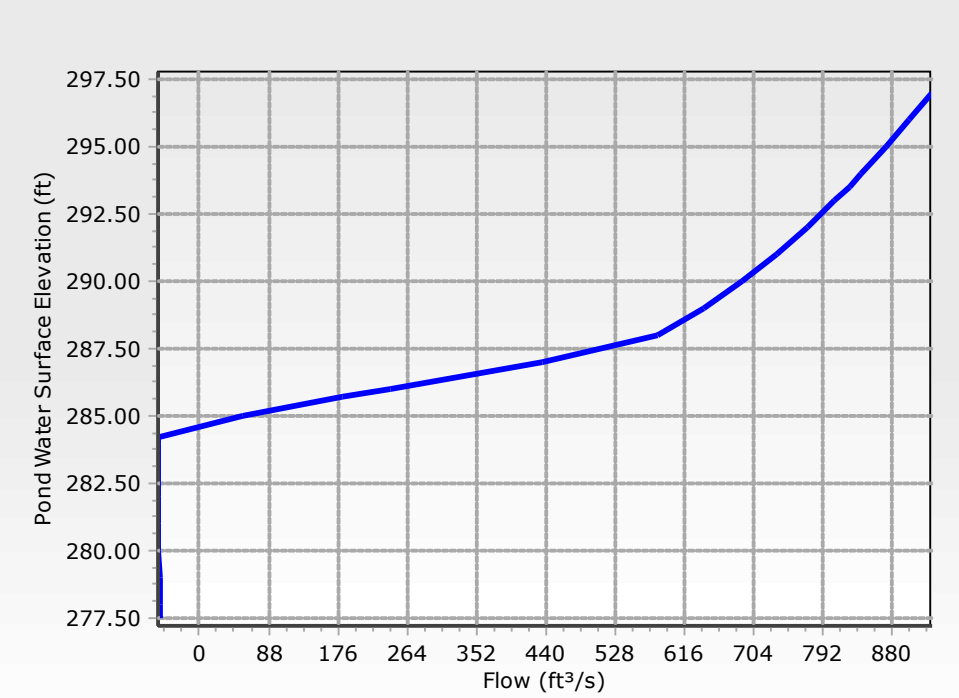
Composite Outlet Structure Detailed Report: 3C-3 Outlet - Weir to RCB Option 100-YR WSE

Outlet Structure (Advanced)			
Elevation (On)	0.00 ft	Elevation (Off)	0.00 ft

Outlet Structure (Weir)			
Weir	Rectangular Weir	Rectangular Weir	Contracted
Vary Coefficient with Depth	False	Weir Length	35.00 ft
Weir Coefficient	3.32 (ft^0.5)/s		

Outlet Structure (Common)	
Elevation	284.20 ft

Outlet Structure (Weir, Advanced)	
User Defined Table	False



RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Weir - 1 (Rectangular Weir)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Box)

Composite Outlet Structure Detailed Report: 3C-3 Outlet - Weir to RCB Option 100-YR WSE

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Weir - 1 (Rectangular Weir)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Box)

Water Surface Elevation (ft)	Device Flow (ft³/s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)
277.50	-51	277.50	284.78	284.78
278.00	-51	278.00	284.78	284.78
279.00	-51	279.00	284.78	284.78
280.00	-51	280.00	284.78	284.78
281.00	-51	281.00	284.78	284.78
282.00	-52	282.00	284.78	284.78
283.00	-52	283.00	284.79	284.79
284.00	-52	284.00	284.79	284.79
284.20	-52	284.20	284.79	284.79
285.00	55	285.00	284.80	284.80
285.70	183	285.70	284.90	284.90
286.00	243	286.00	284.99	284.99
287.00	435	287.00	285.77	285.77
288.00	582	288.00	286.95	286.95
289.00	640	289.00	288.34	288.34
290.00	690	290.00	289.53	289.53
291.00	733	291.00	290.65	290.65
292.00	771	292.00	291.73	291.73
293.00	807	293.00	292.78	292.78
293.50	825	293.50	293.30	293.30
294.00	840	294.00	293.82	293.82
295.00	872	295.00	294.85	294.85
296.00	902	296.00	295.87	295.87
297.00	930	297.00	296.89	296.89

Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft³/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00

Composite Outlet Structure Detailed Report: 3C-3 Outlet - Weir to RCB Option 100-YR WSE

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Weir - 1 (Rectangular Weir)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Box)

Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft^3/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00

Message
REVERSE: H=.00; Htw=.58; Qfree=-50.96;
REVERSE: H=.00; Htw=.58; Qfree=-50.96;
REVERSE: H=.00; Htw=.58; Qfree=-51.06;
REVERSE: H=.00; Htw=.58; Qfree=-51.34;
REVERSE: H=.00; Htw=.58; Qfree=-51.42;
REVERSE: H=.00; Htw=.58; Qfree=-51.70;
REVERSE: H=.00; Htw=.59; Qfree=-52.05;
REVERSE: H=.00; Htw=.59; Qfree=-52.33;
REVERSE: H=.00; Htw=.59; Qfree=-52.35;
H=.80; Htw=.60; Qfree=82.77;
H=1.50; Htw=.70; Qfree=211.64;
H=1.80; Htw=.79; Qfree=277.73;
H=2.80; Htw=1.57; Qfree=535.72;
H=3.80; Htw=2.75; Qfree=842.07;
H=4.80; Htw=4.14; Qfree=1188.47;
H=5.80; Htw=5.33; Qfree=1569.32;
H=6.80; Htw=6.45; Qfree=1980.42;
H=7.80; Htw=7.53; Qfree=2418.50;

Composite Outlet Structure Detailed Report: 3C-3 Outlet - Weir to RCB Option 100-YR WSE

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Weir - 1 (Rectangular Weir)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Box)

Message
H=8.80; Htw=8.58; Qfree=2880.87;
H=9.30; Htw=9.10; Qfree=3120.43;
H=9.80; Htw=9.62; Qfree=3365.25;
H=10.80; Htw=10.65; Qfree=3869.70;
H=11.80; Htw=11.67; Qfree=4392.49;
H=12.80; Htw=12.69; Qfree=4932.12;

Outlet Structure			
Outlet Structure Type	Weir		

Outlet Structure (IDs and Direction)			
Outlet ID	Weir - 2	Downstream ID	Culvert - 1
Flow Direction	Forward and Reverse Flow	Notes	

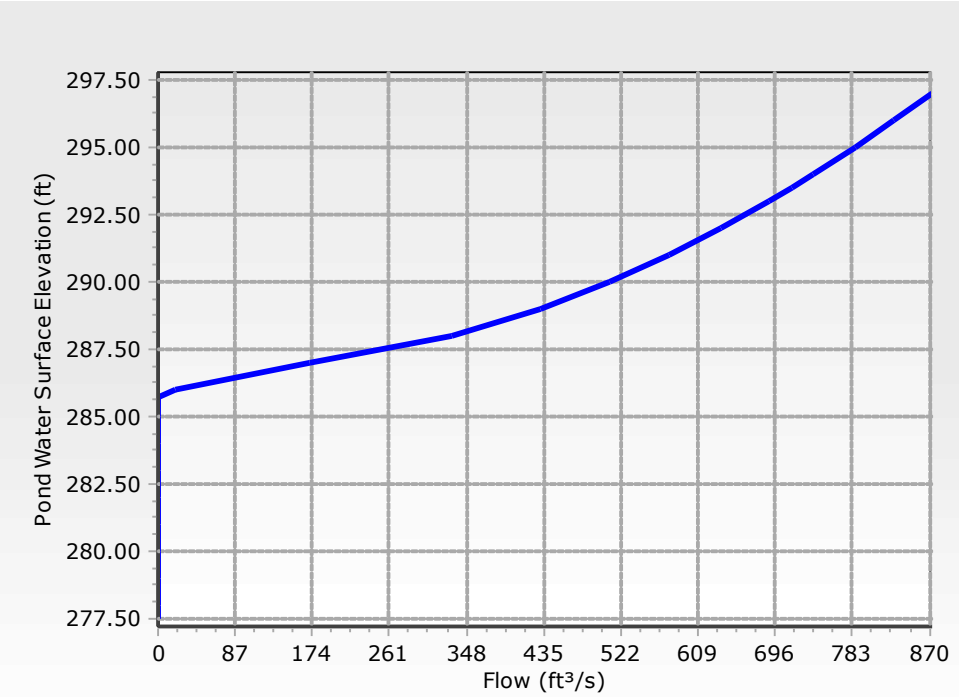
Outlet Structure (Advanced)			
Elevation (On)	0.00 ft	Elevation (Off)	0.00 ft

Outlet Structure (Weir)			
Weir	Rectangular Weir	Rectangular Weir	Suppressed
Vary Coefficient with Depth	False	Weir Length	35.00 ft
Weir Coefficient	3.32 (ft^0.5)/s		

Outlet Structure (Common)	
Elevation	285.70 ft

Outlet Structure (Weir, Advanced)	
User Defined Table	False

Composite Outlet Structure Detailed Report: 3C-3 Outlet - Weir to RCB Option 100-YR WSE



RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Weir - 2 (Rectangular Weir)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Box)

Water Surface Elevation (ft)	Device Flow (ft³/s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)
277.50	0	277.50	284.78	284.78
278.00	0	278.00	284.78	284.78
279.00	0	279.00	284.78	284.78
280.00	0	280.00	284.78	284.78
281.00	0	281.00	284.78	284.78
282.00	0	282.00	284.78	284.78
283.00	0	283.00	284.79	284.79
284.00	0	284.00	284.79	284.79
284.20	0	284.20	284.79	284.79
285.00	0	0.00	0.00	284.80
285.70	0	0.00	0.00	284.90
286.00	19	286.00	Free Outfall	284.99
287.00	171	287.00	285.77	285.77
288.00	333	288.00	286.95	286.95
289.00	430	289.00	288.34	288.34
290.00	509	290.00	289.53	289.53

Composite Outlet Structure Detailed Report: 3C-3 Outlet - Weir to RCB Option 100-YR WSE

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Weir - 2 (Rectangular Weir)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Box)

Water Surface Elevation (ft)	Device Flow (ft³/s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)
291.00	577	291.00	290.65	290.65
292.00	636	292.00	291.73	291.73
293.00	690	293.00	292.78	292.78
293.50	716	293.50	293.30	293.30
294.00	739	294.00	293.82	293.82
295.00	786	295.00	294.85	294.85
296.00	831	296.00	295.87	295.87
297.00	873	297.00	296.89	296.89

Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft³/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00
0.00	0	284.80	0.00

Message
REMARKS: HW & TW below Inv.El.=285.700

Composite Outlet Structure Detailed Report: 3C-3 Outlet - Weir to RCB Option 100-YR WSE

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Weir - 2 (Rectangular Weir)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Box)

Message
REMARKS: HW & TW below Inv.El.=285.700
REMARKS: HW & TW below Inv.El.=285.700
REMARKS: HW & TW below Inv.El.=285.700
REMARKS: HW & TW below Inv.El.=285.700
REMARKS: HW & TW below Inv.El.=285.700
REMARKS: HW & TW below Inv.El.=285.700
REMARKS: HW & TW below Inv.El.=285.700
REMARKS: HW & TW below Inv.El.=285.700
WS below an invert; no flow.
WS below an invert; no flow.
H=.30; Htw=.00; Qfree=19.09;
H=1.30; Htw=.07; Qfree=172.23;
H=2.30; Htw=1.25; Qfree=405.32;
H=3.30; Htw=2.64; Qfree=696.59;
H=4.30; Htw=3.83; Qfree=1036.12;
H=5.30; Htw=4.95; Qfree=1417.82;
H=6.30; Htw=6.03; Qfree=1837.46;
H=7.30; Htw=7.08; Qfree=2291.87;
H=7.80; Htw=7.60; Qfree=2531.33;
H=8.30; Htw=8.12; Qfree=2778.58;
H=9.30; Htw=9.15; Qfree=3295.57;
H=10.30; Htw=10.17; Qfree=3841.16;
H=11.30; Htw=11.19; Qfree=4413.91;

Outlet Structure	
Outlet Structure Type	Weir

Outlet Structure (IDs and Direction)			
Outlet ID	Weir - 3	Downstream ID	Tailwater
Flow Direction	Forward and Reverse Flow	Notes	

Outlet Structure (Advanced)			
Elevation (On)	0.00 ft	Elevation (Off)	0.00 ft

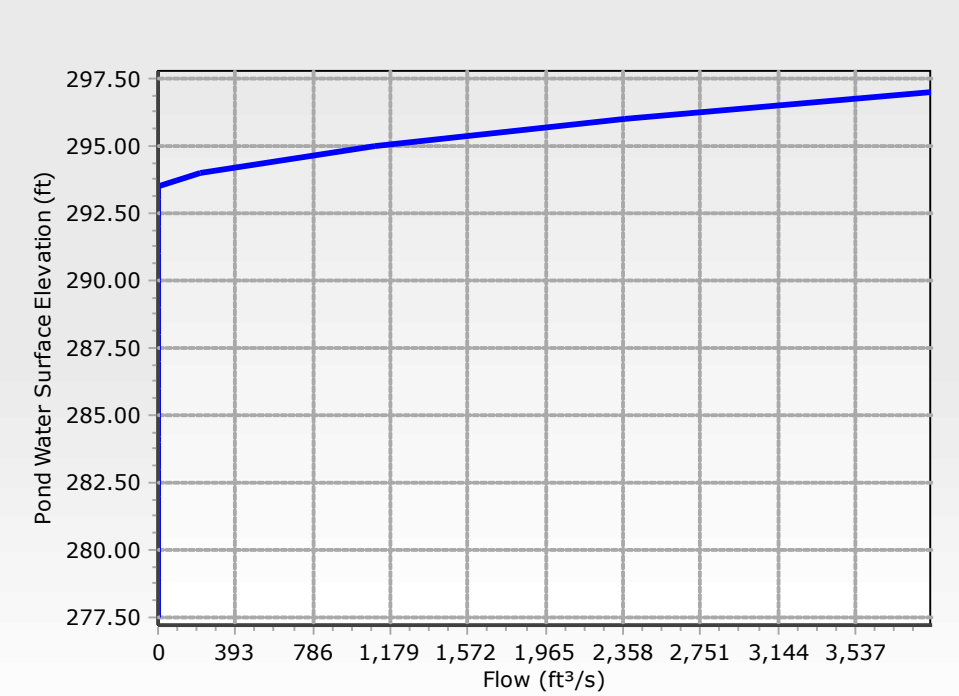
Composite Outlet Structure Detailed Report: 3C-3 Outlet - Weir to RCB Option 100-YR WSE

Outlet Structure (Advanced)			

Outlet Structure (Weir)			
Weir	Rectangular Weir	Rectangular Weir	Suppressed
Vary Coefficient with Depth	False	Weir Length	200.00 ft
Weir Coefficient	3.00 (ft^0.5)/s		

Outlet Structure (Common)	
Elevation	293.50 ft

Outlet Structure (Weir, Advanced)	
User Defined Table	False



RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Weir - 3 (Rectangular Weir)

Upstream ID = (Pond Water Surface)
Downstream ID = Tailwater (Pond Outfall)

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)

Composite Outlet Structure Detailed Report: 3C-3 Outlet - Weir to RCB Option 100-YR WSE

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Weir - 3 (Rectangular Weir)

Upstream ID = (Pond Water Surface)
Downstream ID = Tailwater (Pond Outfall)

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
277.50	0	284.80	0.00
278.00	0	284.80	0.00
279.00	0	284.80	0.00
280.00	0	284.80	0.00
281.00	0	284.80	0.00
282.00	0	284.80	0.00
283.00	0	284.80	0.00
284.00	0	284.80	0.00
284.20	0	284.80	0.00
285.00	0	284.80	0.00
285.70	0	284.80	0.00
286.00	0	284.80	0.00
287.00	0	284.80	0.00
288.00	0	284.80	0.00
289.00	0	284.80	0.00
290.00	0	284.80	0.00
291.00	0	284.80	0.00
292.00	0	284.80	0.00
293.00	0	284.80	0.00
293.50	0	284.80	0.00
294.00	212	284.80	0.00
295.00	1,102	284.80	0.00
296.00	2,372	284.80	0.00
297.00	3,929	284.80	0.00

Computation Messages
HW & TW below Inv.El.=293.500
HW & TW below Inv.El.=293.500
HW & TW below Inv.El.=293.500
HW & TW below Inv.El.=293.500
HW & TW below Inv.El.=293.500
HW & TW below Inv.El.=293.500
HW & TW below Inv.El.=293.500

Composite Outlet Structure Detailed Report: 3C-3 Outlet - Weir to RCB Option 100-YR WSE

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Weir - 3 (Rectangular Weir)

Upstream ID = (Pond Water Surface)
Downstream ID = Tailwater (Pond Outfall)

Computation Messages
HW & TW below Inv.El.=293.500
HW & TW below Inv.El.=293.500
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
H=.50; Htw=.00; Qfree=212.13;
H=1.50; Htw=.00; Qfree=1102.27;
H=2.50; Htw=.00; Qfree=2371.71;
H=3.50; Htw=.00; Qfree=3928.74;

Composite Outlet Structure Detailed Report: 3C-3 Outlet - Weir to RCB Option 100-YR WSE

Composite Rating Table
Tailwater Elevation = 284.80 ft (3C-3 Outlet - Weir to RCB Option 100-YR WSE)

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
277.50	-89	284.80	0.00
278.00	-89	284.80	0.00
279.00	-89	284.80	0.00
280.00	-82	284.80	0.00
281.00	-82	284.80	0.00
282.00	-76	284.80	0.00
283.00	-70	284.80	0.00
284.00	-67	284.80	0.00
284.20	-61	284.80	0.00
285.00	62	284.80	0.00
285.70	196	284.80	0.00
286.00	279	284.80	0.00
287.00	623	284.80	0.00
288.00	930	284.80	0.00
289.00	1,083	284.80	0.00
290.00	1,210	284.80	0.00
291.00	1,319	284.80	0.00
292.00	1,415	284.80	0.00
293.00	1,504	284.80	0.00
293.50	1,546	284.80	0.00
294.00	1,799	284.80	0.00
295.00	2,767	284.80	0.00
296.00	4,110	284.80	0.00
297.00	5,737	284.80	0.00

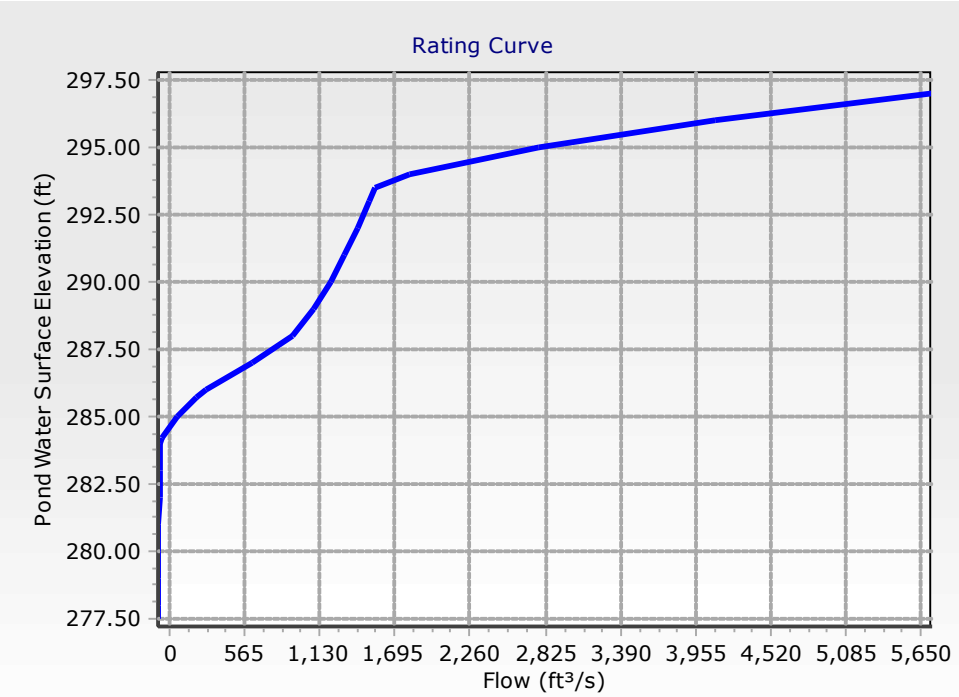
Contributing Structures
None Contributing
None Contributing
None Contributing
None Contributing
None Contributing
None Contributing
None Contributing
None Contributing
None Contributing
Orifice - 1,Weir - 1,Culvert - 1 (no Q: Weir - 2,Weir - 3)
Orifice - 1,Weir - 1,Culvert - 1 (no Q: Weir - 2,Weir - 3)
Orifice - 1,Weir - 1,Weir - 2,Culvert - 1 (no Q: Weir - 3)

Composite Outlet Structure Detailed Report: 3C-3 Outlet - Weir to RCB Option 100-YR WSE

Composite Rating Table
Tailwater Elevation = 284.80 ft (3C-3 Outlet - Weir to RCB Option 100-YR WSE)

Contributing Structures
Orifice - 1,Weir - 1,Weir - 2,Culvert - 1 (no Q: Weir - 3)
Orifice - 1,Weir - 1,Weir - 2,Culvert - 1 (no Q: Weir - 3)
Orifice - 1,Weir - 1,Weir - 2,Culvert - 1 (no Q: Weir - 3)
Orifice - 1,Weir - 1,Weir - 2,Culvert - 1 (no Q: Weir - 3)
Orifice - 1,Weir - 1,Weir - 2,Culvert - 1 (no Q: Weir - 3)
Orifice - 1,Weir - 1,Weir - 2,Culvert - 1 (no Q: Weir - 3)
Orifice - 1,Weir - 1,Weir - 2,Culvert - 1 (no Q: Weir - 3)
Orifice - 1,Weir - 1,Weir - 2,Culvert - 1 (no Q: Weir - 3)
Orifice - 1,Weir - 1,Weir - 2,Culvert - 1,Weir - 3
Orifice - 1,Weir - 1,Weir - 2,Culvert - 1,Weir - 3
Orifice - 1,Weir - 1,Weir - 2,Culvert - 1,Weir - 3
Orifice - 1,Weir - 1,Weir - 2,Culvert - 1,Weir - 3

Composite Outlet Structure Detailed Report: 3C-3 Outlet - Weir to RCB Option 100-YR WSE



Composite Outlet Structure Detailed Report: B1 to Desilting

Element Details			
Label	B1 to Desilting	Notes	

Headwater Range			
Headwater Type	Use Pond for Headwater Range	Maximum (Headwater)	289.00 ft
Pond	3B-1	Increment (Headwater)	0.50 ft
Minimum (Headwater)	280.00 ft		

SpotElevation (ft)

Tailwater Setup			
Tailwater Type	Interconnected Ponds	Increment (Tailwater)	0.50 ft
Minimum (Tailwater)	278.00 ft	Maximum (Tailwater)	288.00 ft

Spot Elevation (ft)

Tailwater Tolerances			
Maximum Iterations	30	Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft	Flow Tolerance (Minimum)	0.001 ft³/s
Headwater Tolerance (Maximum)	0.50 ft	Flow Tolerance (Maximum)	10.000 ft³/s
Tailwater Tolerance (Minimum)	0.01 ft		

Outlet Structure			
Outlet Structure Type	Culvert	Culvert Type	Circular

Outlet Structure (IDs and Direction)			
Outlet ID	Culvert - 1	Downstream ID	Tailwater
Flow Direction	Forward Flow Only	Notes	

Outlet Structure (Advanced)			
Elevation (On)	0.00 ft	Elevation (Off)	282.55 ft

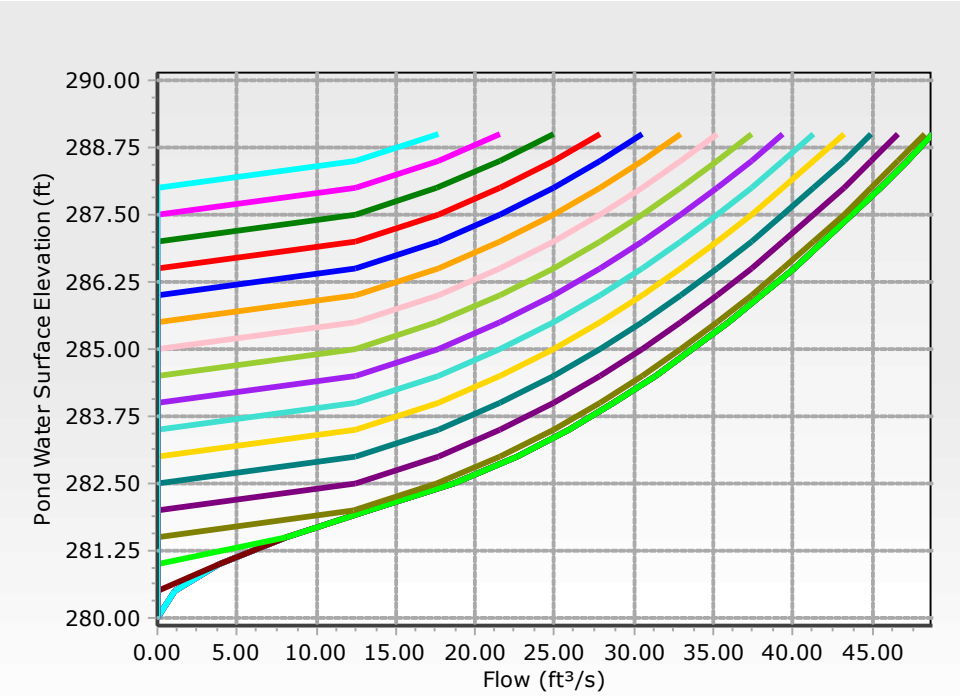
Culvert Data			
Number of Barrels	1	Downstream Invert	278.00 ft
Length	68.00 ft	Diameter	24.0 in
Upstream Invert	280.00 ft		

Composite Outlet Structure Detailed Report: B1 to Desilting

Unsubmerged->Submerged			
Specify Transitions	False	Compute Inlet Control Only	False

Culvert Coefficients			
Inlet Description	Concrete - Groove end projecting	C	0.0317
Chart	Chart 1	Y	0.6900
Nomograph	Nomograph 3	Manning's n	0.013
Equation Form	Form 1	Ke	0.200
K	0.0045	Kr	0.000
M	2.0000	Slope Correction Factor	-0.500

Culvert (Advanced)			
Convergence Tolerance	0.00 ft	Specify Number of Backwater Sections	False



RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Culvert - 1 (Culvert-Circular)

Mannings open channel maximum capacity: 41.73 ft³/s
Upstream ID = (Pond Water Surface)
Downstream ID = Tailwater (Pond Outfall)

Composite Outlet Structure Detailed Report: B1 to Desilting

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Culvert - 1 (Culvert-Circular)

Mannings open channel maximum capacity: 41.73 ft³/s
Upstream ID = (Pond Water Surface)
Downstream ID = Tailwater (Pond Outfall)

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
280.00	0.00	278.00	0.00
280.50	1.05	278.00	0.00
281.00	3.92	278.00	0.00
281.50	8.17	278.00	0.00
282.00	13.27	278.00	0.00
282.50	18.66	278.00	0.00
283.00	22.66	278.00	0.00
283.50	25.87	278.00	0.00
284.00	28.72	278.00	0.00
284.50	31.32	278.00	0.00
285.00	33.71	278.00	0.00
285.50	35.94	278.00	0.00
286.00	38.05	278.00	0.00
286.50	40.04	278.00	0.00
287.00	41.94	278.00	0.00
287.50	43.76	278.00	0.00
288.00	45.50	278.00	0.00
288.50	47.18	278.00	0.00
289.00	48.80	278.00	0.00

Computation Messages

Upstream HW & DNstream TW < Inv.El
CRIT.DEPTH CONTROL Vh= .122ft Dcr= .352ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .254ft Dcr= .694ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .402ft Dcr= 1.018ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .574ft Dcr= 1.311ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .788ft Dcr= 1.555ft CRIT.DEPTH Hev= .00ft
INLET CONTROL... Submerged: HW =3.00
INLET CONTROL... Submerged: HW =3.50
INLET CONTROL... Submerged: HW =4.00
INLET CONTROL... Submerged: HW =4.50
INLET CONTROL... Submerged: HW =5.00

Composite Outlet Structure Detailed Report: B1 to Desilting

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Culvert - 1 (Culvert-Circular)

Mannings open channel maximum capacity: 41.73 ft³/s
Upstream ID = (Pond Water Surface)
Downstream ID = Tailwater (Pond Outfall)

Computation Messages
INLET CONTROL... Submerged: HW =5.50
INLET CONTROL... Submerged: HW =6.00
INLET CONTROL... Submerged: HW =6.50
INLET CONTROL... Submerged: HW =7.00
INLET CONTROL... Submerged: HW =7.50
INLET CONTROL... Submerged: HW =8.00
INLET CONTROL... Submerged: HW =8.50
INLET CONTROL... Submerged: HW =9.00

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Culvert - 1 (Culvert-Circular)

Mannings open channel maximum capacity: 41.73 ft³/s
Upstream ID = (Pond Water Surface)
Downstream ID = Tailwater (Pond Outfall)

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
280.00	0.00	278.50	0.00
280.50	1.05	278.50	0.00
281.00	3.92	278.50	0.00
281.50	8.17	278.50	0.00
282.00	13.27	278.50	0.00
282.50	18.66	278.50	0.00
283.00	22.66	278.50	0.00
283.50	25.87	278.50	0.00
284.00	28.72	278.50	0.00
284.50	31.32	278.50	0.00
285.00	33.71	278.50	0.00
285.50	35.94	278.50	0.00
286.00	38.05	278.50	0.00
286.50	40.04	278.50	0.00
287.00	41.94	278.50	0.00

Composite Outlet Structure Detailed Report: Outlet - 3B-1 to Imaginary Basin 2

Element Details			
Label	Outlet - 3B-1 to Imaginary Basin 2	Notes	

Headwater Range			
Headwater Type	Use Pond for Headwater Range	Maximum (Headwater)	289.00 ft
Pond	3B-1	Increment (Headwater)	0.50 ft
Minimum (Headwater)	280.00 ft		

SpotElevation (ft)

Tailwater Setup			
Tailwater Type	Interconnected Ponds	Increment (Tailwater)	0.50 ft
Minimum (Tailwater)	242.00 ft	Maximum (Tailwater)	262.00 ft

Spot Elevation (ft)

Tailwater Tolerances			
Maximum Iterations	30	Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft	Flow Tolerance (Minimum)	0.001 ft³/s
Headwater Tolerance (Maximum)	0.50 ft	Flow Tolerance (Maximum)	10.000 ft³/s
Tailwater Tolerance (Minimum)	0.01 ft		

Outlet Structure			
Outlet Structure Type	Culvert	Culvert Type	Circular

Outlet Structure (IDs and Direction)			
Outlet ID	Culvert - 1	Downstream ID	Tailwater
Flow Direction	Forward Flow Only	Notes	

Outlet Structure (Advanced)			
Elevation (On)	0.00 ft	Elevation (Off)	0.00 ft

Culvert Data			
Number of Barrels	1	Downstream Invert	242.00 ft
Length	600.00 ft	Diameter	36.0 in

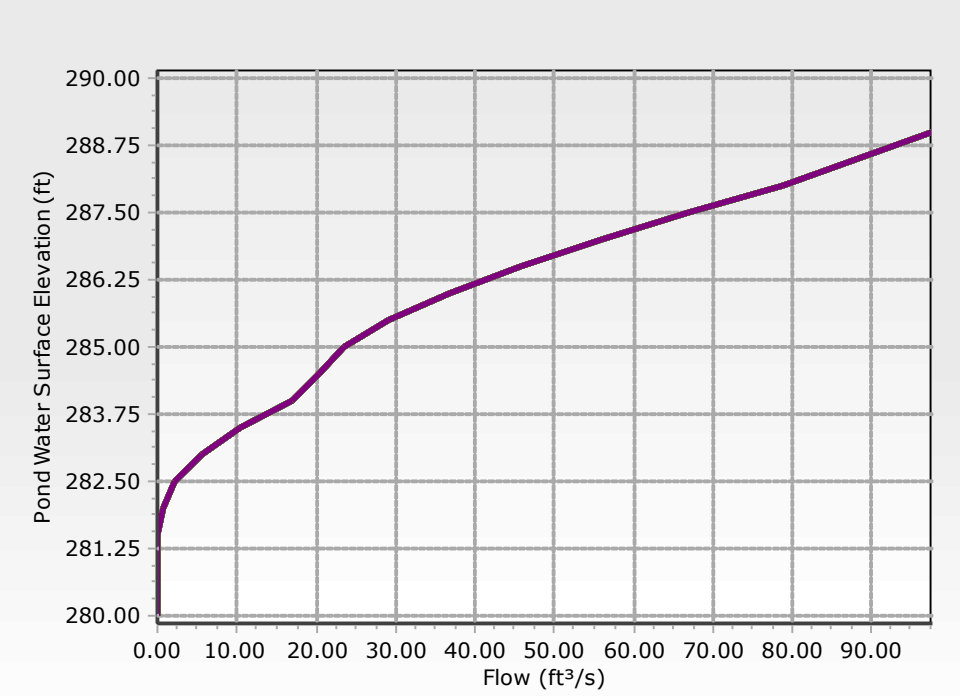
Composite Outlet Structure Detailed Report: Outlet - 3B-1 to Imaginary Basin 2

Culvert Data			
Upstream Invert	277.00 ft		

Unsubmerged->Submerged			
Specify Transitions	False	Compute Inlet Control Only	False

Culvert Coefficients			
Inlet Description	Concrete - Groove end projecting	C	0.0317
Chart	Chart 1	Y	0.6900
Nomograph	Nomograph 3	Manning's n	0.013
Equation Form	Form 1	Ke	0.200
K	0.0045	Kr	0.200
M	2.0000	Slope Correction Factor	-0.500

Culvert (Advanced)			
Convergence Tolerance	0.00 ft	Specify Number of Backwater Sections	False



Composite Outlet Structure Detailed Report: Outlet - 3B-1 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Culvert - 1 (Culvert-Circular)

Mannings open channel maximum capacity: 173.28 ft³/s
Upstream ID = Orifice - 2, Riser - 1, Orifice - 1
Downstream ID = Tailwater (Pond Outfall)

Water Surface Elevation (ft)	Device Flow (ft³/s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)
280.00	0.00	0.00	0.00	242.00
280.50	0.00	0.00	0.00	242.00
281.00	0.00	0.00	0.00	242.00
281.50	0.00	277.00	242.00	242.00
282.00	0.83	0.00	242.00	242.00
282.50	2.22	277.66	242.00	242.00
283.00	5.60	278.06	242.00	242.00
283.50	10.42	278.47	242.00	242.00
284.00	16.88	278.91	242.00	242.00
284.50	20.45	279.13	242.00	242.00
285.00	23.48	279.31	242.00	242.00
285.50	29.03	279.61	242.00	242.00
286.00	36.73	280.01	242.00	242.00
286.50	45.82	280.47	242.00	242.00
287.00	55.95	280.98	242.00	242.00
287.50	66.95	281.83	242.00	242.00
288.00	78.70	282.91	242.00	242.00
288.50	88.17	283.91	242.00	242.00
289.00	97.69	285.04	242.00	242.00

Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft³/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.48	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.01	242.00	0.00
0.00	0.01	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.01	242.00	0.00
0.00	0.01	242.00	0.00
0.00	0.02	242.00	0.00
0.00	0.01	242.00	0.00
0.00	0.03	242.00	0.00

Composite Outlet Structure Detailed Report: Outlet - 3B-1 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Culvert - 1 (Culvert-Circular)

Mannings open channel maximum capacity: 173.28 ft³/s
Upstream ID = Orifice - 2, Riser - 1, Orifice - 1
Downstream ID = Tailwater (Pond Outfall)

Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft³/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)
0.00	0.06	242.00	0.00
0.00	0.07	242.00	0.00
0.00	0.06	242.00	0.00

Message
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
CRIT.DEPTH CONTROL Vh= .002ft Dcr= .006ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .095ft Dcr= .281ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .160ft Dcr= .463ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .263ft Dcr= .742ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .374ft Dcr= 1.022ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .500ft Dcr= 1.313ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .565ft Dcr= 1.452ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .620ft Dcr= 1.561ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .720ft Dcr= 1.744ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .864ft Dcr= 1.971ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= 1.052ft Dcr= 2.205ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= 1.297ft Dcr= 2.426ft CRIT.DEPTH Hev= .00ft
INLET CONTROL... Submerged: HW =4.83
INLET CONTROL... Submerged: HW =5.91
INLET CONTROL... Submerged: HW =6.91
INLET CONTROL... Submerged: HW =8.04

Composite Outlet Structure Detailed Report: Outlet - 3B-1 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Culvert - 1 (Culvert-Circular)

Mannings open channel maximum capacity: 173.28 ft³/s
Upstream ID = Orifice - 2, Riser - 1, Orifice - 1
Downstream ID = Tailwater (Pond Outfall)

Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft³/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)	Message
0.00	0.06	262.00	0.00	
0.00	0.07	262.00	0.00	
0.00	0.06	262.00	0.00	

Outlet Structure			
Outlet Structure Type	Orifice		

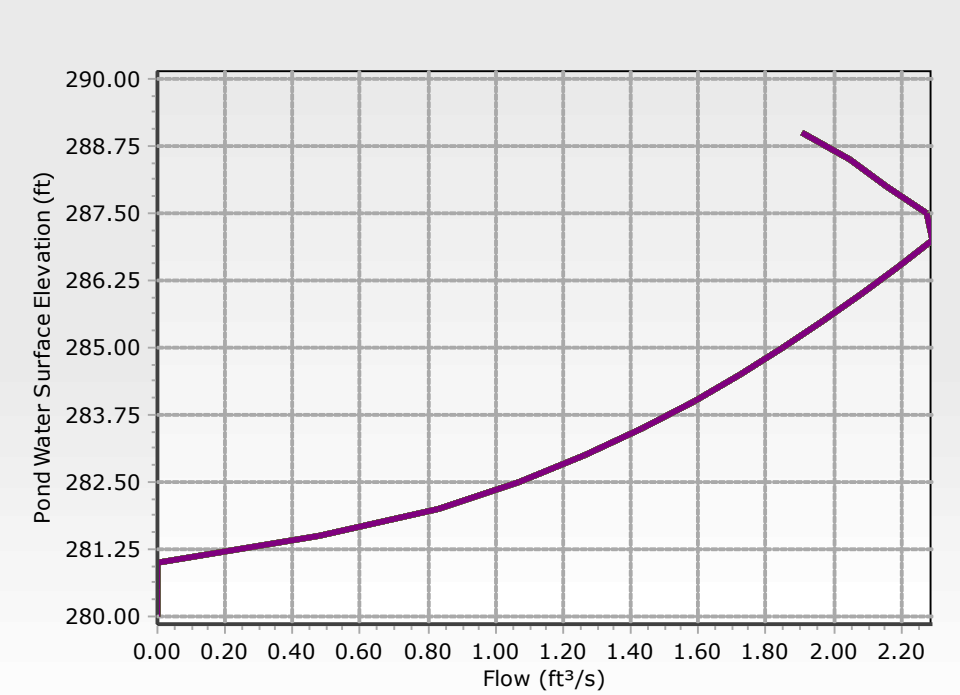
Outlet Structure (IDs and Direction)			
Outlet ID	Orifice - 1	Downstream ID	Culvert - 1
Flow Direction	Forward Flow Only	Notes	

Outlet Structure (Advanced)			
Elevation (On)	0.00 ft	Elevation (Off)	0.00 ft

Outlet Structure (Orifice)			
Orifice	Circular Orifice	Orifice Coefficient	0.607
Number of Openings	1	Orifice Diameter	6.0 in

Outlet Structure (Common)	
Elevation	281.00 ft

Composite Outlet Structure Detailed Report: Outlet - 3B-1 to Imaginary Basin 2



RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 1 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Water Surface Elevation (ft)	Device Flow (ft³/s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)
280.00	0.00	0.00	0.00	0.00
280.50	0.00	0.00	0.00	0.00
281.00	0.00	0.00	0.00	0.00
281.50	0.48	281.50	Free Outfall	277.00
282.00	0.83	282.00	Free Outfall	0.00
282.50	1.07	282.50	Free Outfall	277.66
283.00	1.26	283.00	Free Outfall	278.06
283.50	1.43	283.50	Free Outfall	278.47
284.00	1.59	284.00	Free Outfall	278.91
284.50	1.72	284.50	Free Outfall	279.13
285.00	1.85	285.00	Free Outfall	279.31
285.50	1.97	285.50	Free Outfall	279.61
286.00	2.08	286.00	Free Outfall	280.01
286.50	2.19	286.50	Free Outfall	280.47
287.00	2.29	287.00	Free Outfall	280.98
287.50	2.28	287.50	281.83	281.83

Composite Outlet Structure Detailed Report: Outlet - 3B-1 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 1 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Water Surface Elevation (ft)	Device Flow (ft³/s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)
288.00	2.16	288.00	282.91	282.91
288.50	2.05	288.50	283.91	283.91
289.00	1.90	289.00	285.04	285.04

Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft³/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00

Message
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
H =.25
H =.75
H =1.25
H =1.75
H =2.25
H =2.75
H =3.25
H =3.75
H =4.25
H =4.75

Composite Outlet Structure Detailed Report: Outlet - 3B-1 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 1 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft³/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00

Message

Outlet Structure

Outlet Structure Type	Riser

Outlet Structure (IDs and Direction)

Outlet ID	Riser - 1	Downstream ID	Culvert - 1
Flow Direction	Forward Flow Only	Notes	

Outlet Structure (Advanced)

Elevation (On)	0.00 ft	Elevation (Off)	0.00 ft

Outlet Structure (Riser)

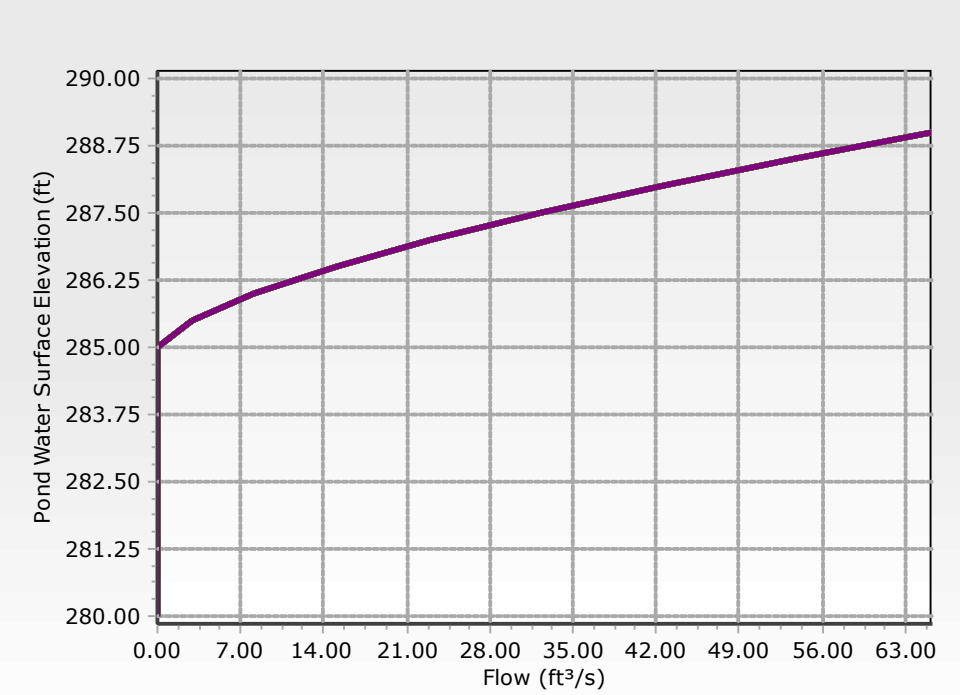
Riser	Inlet Box	Orifice Area	9.0 ft²
Weir Length	3.00 ft	Transition Elevation	0.00 ft
Weir Coefficient	2.72 (ft^0.5)/s	Transition Height	0.00 ft
Orifice Coefficient	0.613	K Reverse	1.000

Outlet Structure (Common)

Elevation	285.00 ft

Composite Outlet Structure Detailed Report: Outlet - 3B-1 to Imaginary Basin 2

Outlet Structure (Riser, Advanced)			
Use Orifice Depth to Crest?	True	Use Submerged Weir Equation?	False



RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Riser - 1 (Inlet Box)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Water Surface Elevation (ft)	Device Flow (ft³/s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)
280.00	0.00	0.00	0.00	0.00
280.50	0.00	0.00	0.00	0.00
281.00	0.00	0.00	0.00	0.00
281.50	0.00	0.00	0.00	277.00
282.00	0.00	0.00	0.00	0.00
282.50	0.00	0.00	0.00	277.66
283.00	0.00	0.00	0.00	278.06
283.50	0.00	0.00	0.00	278.47
284.00	0.00	0.00	0.00	278.91
284.50	0.00	0.00	0.00	279.13
285.00	0.00	0.00	0.00	279.31

Composite Outlet Structure Detailed Report: Outlet - 3B-1 to Imaginary Basin 2

```
RATING TABLE FOR ONE OUTLET TYPE
Structure  ID  = Riser - 1  (Inlet Box)
--------------------------------------
Upstream   ID  =    (Pond Water Surface)
Downstream ID  = Culvert - 1  (Culvert-Circular)
```

Water Surface Elevation (ft)	Device Flow (ft³/s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)
285.50	2.88	285.50	Free Outfall	279.61
286.00	8.16	286.00	Free Outfall	280.01
286.50	14.99	286.50	Free Outfall	280.47
287.00	23.08	287.00	Free Outfall	280.98
287.50	32.26	287.50	Free Outfall	281.83
288.00	42.40	288.00	Free Outfall	282.91
288.50	53.43	288.50	Free Outfall	283.91
289.00	65.28	289.00	285.04	285.04

Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft³/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00

Message
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.

Composite Outlet Structure Detailed Report: Outlet - 3B-1 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Riser - 1 (Inlet Box)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Message
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
Weir: H =0.5ft
Weir: H =1ft
Weir: H =1.5ft
Weir: H =2ft
Weir: H =2.5ft
Weir: H =3ft
Weir: H =3.5ft
FULLY CHARGED RISER: ADJUSTED TO WEIR: H =4ft

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Riser - 1 (Inlet Box)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Water Surface Elevation (ft)	Device Flow (ft^3/s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)
280.00	0.00	0.00	0.00	0.00
280.50	0.00	0.00	0.00	0.00
281.00	0.00	0.00	0.00	0.00
281.50	0.00	0.00	0.00	277.00
282.00	0.00	0.00	0.00	0.00
282.50	0.00	0.00	0.00	277.66
283.00	0.00	0.00	0.00	278.06
283.50	0.00	0.00	0.00	278.47
284.00	0.00	0.00	0.00	278.91
284.50	0.00	0.00	0.00	279.13
285.00	0.00	0.00	0.00	279.31
285.50	2.88	285.50	Free Outfall	279.61
286.00	8.16	286.00	Free Outfall	280.01
286.50	14.99	286.50	Free Outfall	280.47
287.00	23.08	287.00	Free Outfall	280.98
287.50	32.26	287.50	Free Outfall	281.83
288.00	42.40	288.00	Free Outfall	282.91
288.50	53.43	288.50	Free Outfall	283.91
289.00	65.28	289.00	285.04	285.04

Composite Outlet Structure Detailed Report: Outlet - 3B-1 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Riser - 1 (Inlet Box)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft^3/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00

Message

Outlet Structure	
Outlet Structure Type	Weir

Outlet Structure (IDs and Direction)			
Outlet ID	Weir - 1	Downstream ID	Tailwater
Flow Direction	Forward Flow Only	Notes	

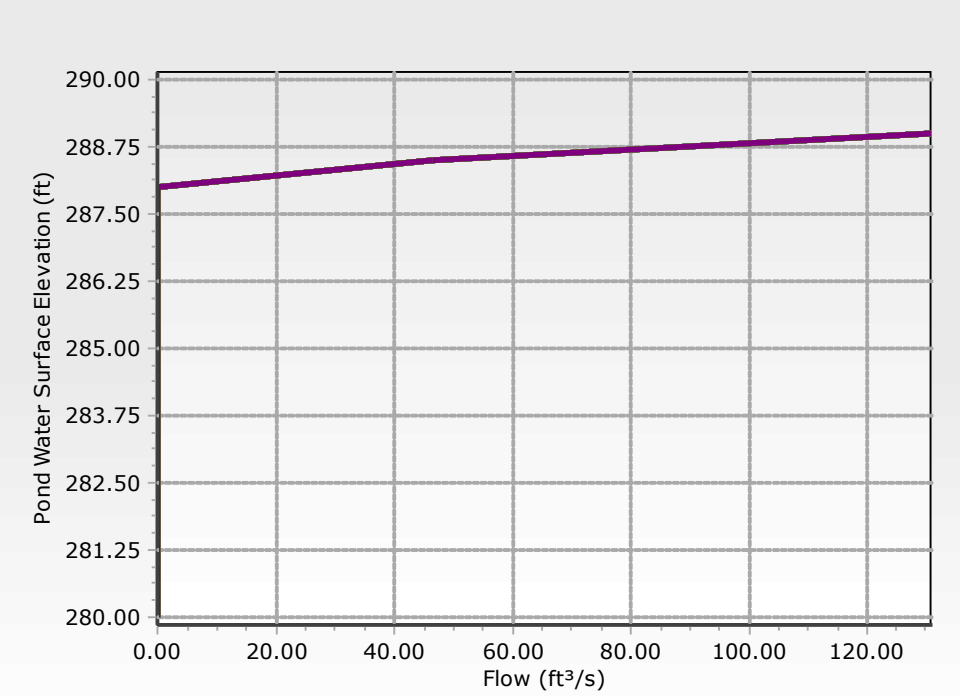
Outlet Structure (Advanced)			
Elevation (On)	0.00 ft	Elevation (Off)	0.00 ft

Outlet Structure (Weir)			
Weir	Rectangular Weir	Rectangular Weir	Contracted
Vary Coefficient with Depth	False	Weir Length	50.00 ft
Weir Coefficient	2.63 (ft^0.5)/s		

Outlet Structure (Common)	
Elevation	288.00 ft

Composite Outlet Structure Detailed Report: Outlet - 3B-1 to Imaginary Basin 2

Outlet Structure (Weir, Advanced)	
User Defined Table	False



RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Weir - 1 (Rectangular Weir)

Upstream ID = (Pond Water Surface)
Downstream ID = Tailwater (Pond Outfall)

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
280.00	0.00	242.00	0.00
280.50	0.00	242.00	0.00
281.00	0.00	242.00	0.00
281.50	0.00	242.00	0.00
282.00	0.00	242.00	0.00
282.50	0.00	242.00	0.00
283.00	0.00	242.00	0.00
283.50	0.00	242.00	0.00
284.00	0.00	242.00	0.00
284.50	0.00	242.00	0.00
285.00	0.00	242.00	0.00
285.50	0.00	242.00	0.00

Composite Outlet Structure Detailed Report: Outlet - 3B-1 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Weir - 1 (Rectangular Weir)

Upstream ID = (Pond Water Surface)
Downstream ID = Tailwater (Pond Outfall)

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
286.00	0.00	242.00	0.00
286.50	0.00	242.00	0.00
287.00	0.00	242.00	0.00
287.50	0.00	242.00	0.00
288.00	0.00	242.00	0.00
288.50	46.40	242.00	0.00
289.00	130.97	242.00	0.00

Computation Messages
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
H=.50; Htw=.00; Qfree=46.40;
H=1.00; Htw=.00; Qfree=130.97;

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Weir - 1 (Rectangular Weir)

Upstream ID = (Pond Water Surface)
Downstream ID = Tailwater (Pond Outfall)

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
280.00	0.00	242.50	0.00
280.50	0.00	242.50	0.00
281.00	0.00	242.50	0.00
281.50	0.00	242.50	0.00

Composite Outlet Structure Detailed Report: Outlet - 3B-1 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Weir - 1 (Rectangular Weir)

Upstream ID = (Pond Water Surface)
Downstream ID = Tailwater (Pond Outfall)

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
282.00	0.00	242.50	0.00
282.50	0.00	242.50	0.00
283.00	0.00	242.50	0.00
283.50	0.00	242.50	0.00
284.00	0.00	242.50	0.00
284.50	0.00	242.50	0.00
285.00	0.00	242.50	0.00
285.50	0.00	242.50	0.00
286.00	0.00	242.50	0.00
286.50	0.00	242.50	0.00
287.00	0.00	242.50	0.00
287.50	0.00	242.50	0.00
288.00	0.00	242.50	0.00
288.50	46.40	242.50	0.00
289.00	130.97	242.50	0.00

Computation Messages
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
H=.50; Htw=.00; Qfree=46.40;
H=1.00; Htw=.00; Qfree=130.97;

Composite Outlet Structure Detailed Report: Outlet - 3B-1 to Imaginary Basin 2

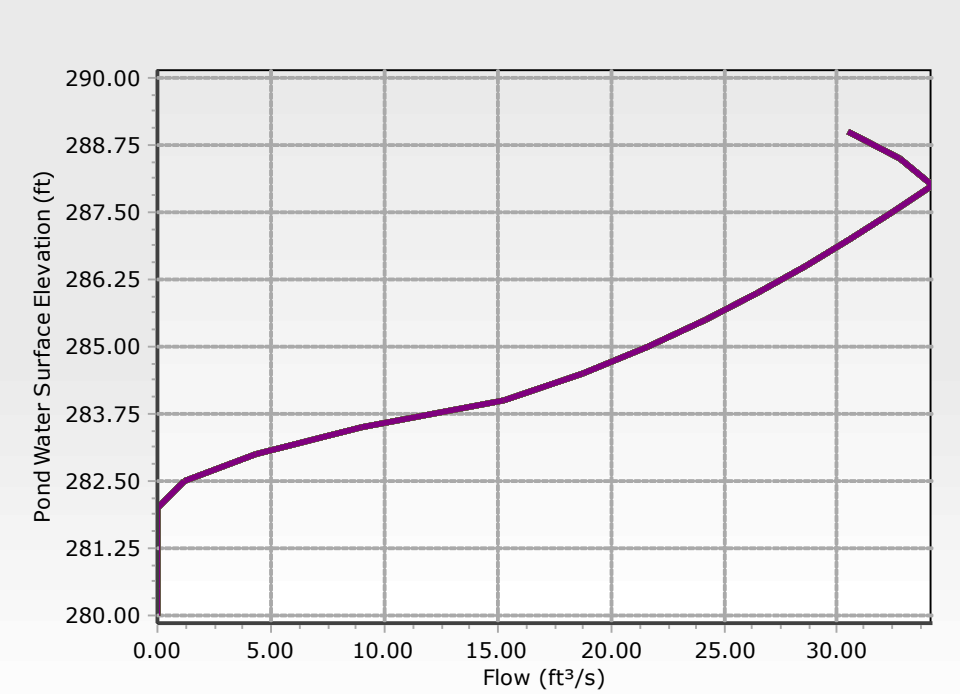
Outlet Structure			
Outlet Structure Type	Orifice		

Outlet Structure (IDs and Direction)			
Outlet ID	Orifice - 2	Downstream ID	Culvert - 1
Flow Direction	Forward Flow Only	Notes	

Outlet Structure (Advanced)			
Elevation (On)	0.00 ft	Elevation (Off)	0.00 ft

Outlet Structure (Orifice)			
Orifice	Circular Orifice	Orifice Coefficient	0.607
Number of Openings	1	Orifice Diameter	24.0 in

Outlet Structure (Common)	
Elevation	282.00 ft



Composite Outlet Structure Detailed Report: Outlet - 3B-1 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 2 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Water Surface Elevation (ft)	Device Flow (ft^3/s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)
280.00	0.00	0.00	0.00	0.00
280.50	0.00	0.00	0.00	0.00
281.00	0.00	0.00	0.00	0.00
281.50	0.00	0.00	0.00	277.00
282.00	0.00	0.00	0.00	0.00
282.50	1.16	282.50	Free Outfall	277.66
283.00	4.33	283.00	Free Outfall	278.06
283.50	8.99	283.50	Free Outfall	278.47
284.00	15.30	284.00	Free Outfall	278.91
284.50	18.73	284.50	Free Outfall	279.13
285.00	21.63	285.00	Free Outfall	279.31
285.50	24.19	285.50	Free Outfall	279.61
286.00	26.50	286.00	Free Outfall	280.01
286.50	28.62	286.50	Free Outfall	280.47
287.00	30.59	287.00	Free Outfall	280.98
287.50	32.45	287.50	Free Outfall	281.83
288.00	34.21	288.00	282.91	282.91
288.50	32.76	288.50	283.91	283.91
289.00	30.45	289.00	285.04	285.04

Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft^3/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00

Composite Outlet Structure Detailed Report: Outlet - 3B-1 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 2 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft^3/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00

Message
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
CRIT.DEPTH CONTROL Vh= .129ft Dcr= .371ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .270ft Dcr= .731ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .429ft Dcr= 1.071ft CRIT.DEPTH Hev= .00ft
H =1.00
H =1.50
H =2.00
H =2.50
H =3.00
H =3.50
H =4.00
H =4.50
H =5.00
H =4.59
H =3.96

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 2 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Water Surface Elevation (ft)	Device Flow (ft^3/s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)
280.00	0.00	0.00	0.00	0.00
280.50	0.00	0.00	0.00	0.00
281.00	0.00	0.00	0.00	0.00
281.50	0.00	0.00	0.00	277.00

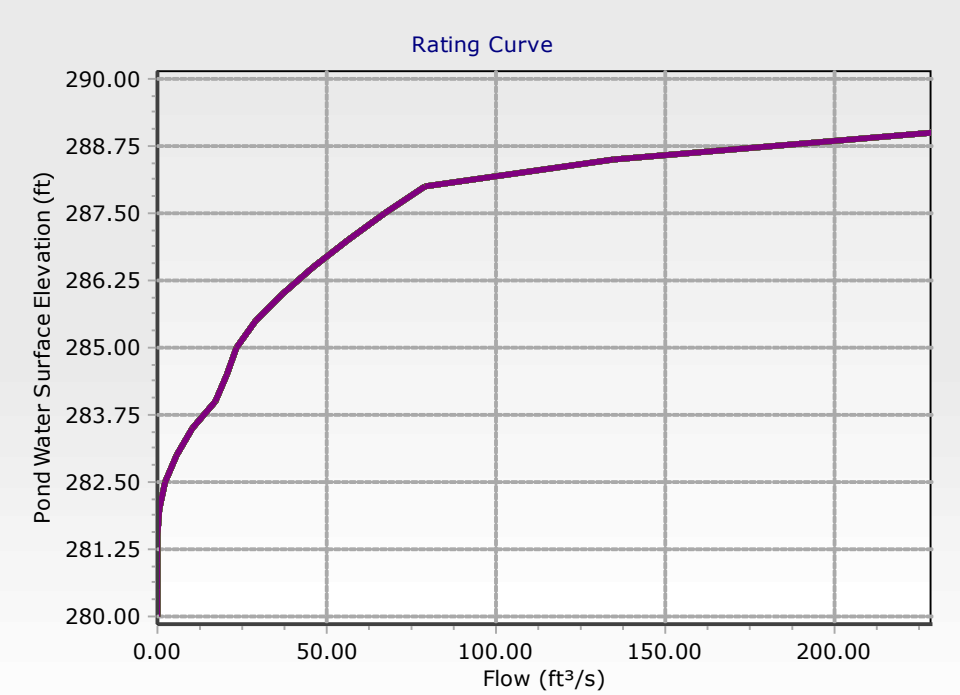
Composite Outlet Structure Detailed Report: Outlet - 3B-1 to Imaginary Basin 2

Composite Rating Table
Tailwater Elevation = 242.00 ft (Outlet - 3B-1 to Imaginary Basin 2)

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
280.00	0.00	242.00	0.00
280.50	0.00	242.00	0.00
281.00	0.00	242.00	0.00
281.50	0.00	242.00	0.00
282.00	0.83	242.00	0.00
282.50	2.22	242.00	0.00
283.00	5.60	242.00	0.00
283.50	10.42	242.00	0.00
284.00	16.88	242.00	0.00
284.50	20.45	242.00	0.00
285.00	23.48	242.00	0.00
285.50	29.03	242.00	0.00
286.00	36.73	242.00	0.00
286.50	45.82	242.00	0.00
287.00	55.95	242.00	0.00
287.50	66.95	242.00	0.00
288.00	78.70	242.00	0.00
288.50	134.57	242.00	0.00
289.00	228.67	242.00	0.00

Contributing Structures
(no Q: Orifice - 2,Riser - 1,Orifice - 1,Culvert - 1,Weir - 1)
(no Q: Orifice - 2,Riser - 1,Orifice - 1,Culvert - 1,Weir - 1)
(no Q: Orifice - 2,Riser - 1,Orifice - 1,Culvert - 1,Weir - 1)
Orifice - 1,Culvert - 1 (no Q: Orifice - 2,Riser - 1,Weir - 1)
Orifice - 1,Culvert - 1 (no Q: Orifice - 2,Riser - 1,Weir - 1)
Orifice - 2,Orifice - 1,Culvert - 1 (no Q: Riser - 1,Weir - 1)
Orifice - 2,Orifice - 1,Culvert - 1 (no Q: Riser - 1,Weir - 1)
Orifice - 2,Orifice - 1,Culvert - 1 (no Q: Riser - 1,Weir - 1)
Orifice - 2,Orifice - 1,Culvert - 1 (no Q: Riser - 1,Weir - 1)
Orifice - 2,Orifice - 1,Culvert - 1 (no Q: Riser - 1,Weir - 1)
Orifice - 2,Orifice - 1,Culvert - 1 (no Q: Riser - 1,Weir - 1)
Orifice - 2,Riser - 1,Orifice - 1,Culvert - 1 (no Q: Weir - 1)

Composite Outlet Structure Detailed Report: Outlet - 3B-1 to Imaginary Basin 2



Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2

Element Details			
Label	Outlet - 3B-4 to Imaginary Basin 2	Notes	

Headwater Range			
Headwater Type	Use Pond for Headwater Range	Maximum (Headwater)	276.00 ft
Pond	3B-4	Increment (Headwater)	0.50 ft
Minimum (Headwater)	252.00 ft		

SpotElevation (ft)

Tailwater Setup			
Tailwater Type	Interconnected Ponds	Increment (Tailwater)	0.50 ft
Minimum (Tailwater)	242.00 ft	Maximum (Tailwater)	262.00 ft

Spot Elevation (ft)

Tailwater Tolerances			
Maximum Iterations	30	Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft	Flow Tolerance (Minimum)	0.001 ft³/s
Headwater Tolerance (Maximum)	0.50 ft	Flow Tolerance (Maximum)	10.000 ft³/s
Tailwater Tolerance (Minimum)	0.01 ft		

Outlet Structure			
Outlet Structure Type	Culvert	Culvert Type	Circular

Outlet Structure (IDs and Direction)			
Outlet ID	Culvert - 1	Downstream ID	Tailwater
Flow Direction	Forward Flow Only	Notes	

Outlet Structure (Advanced)			
Elevation (On)	0.00 ft	Elevation (Off)	0.00 ft

Culvert Data			
Number of Barrels	1	Downstream Invert	242.00 ft
Length	215.00 ft	Diameter	48.0 in

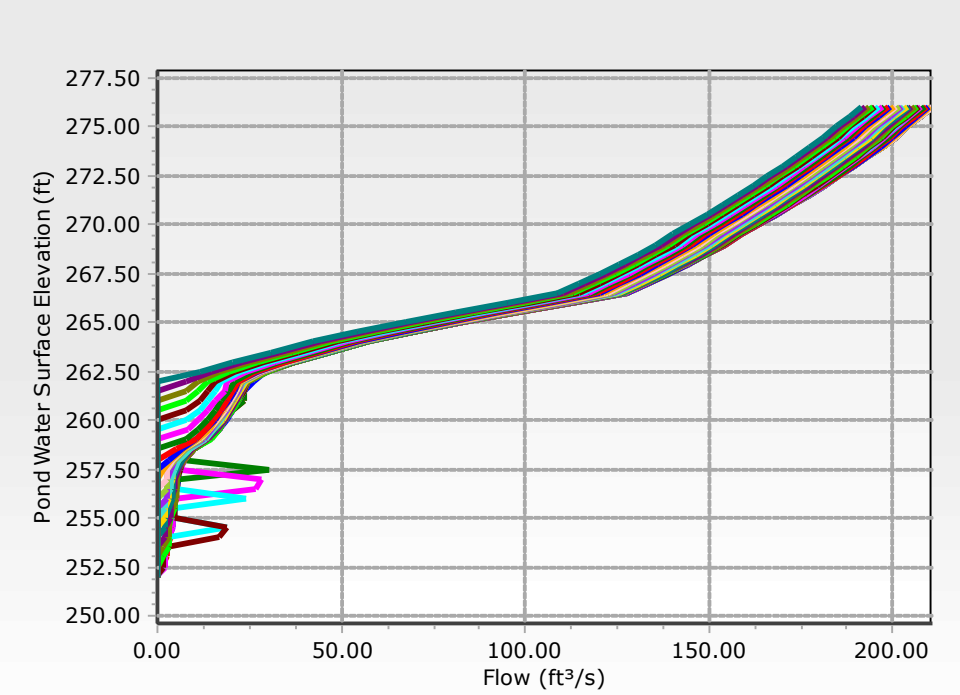
Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2

Culvert Data			
Upstream Invert	248.00 ft		

Unsubmerged->Submerged			
Specify Transitions	False	Compute Inlet Control Only	False

Culvert Coefficients			
Inlet Description	Concrete - Groove end w/headwall	C	0.0292
Chart	Chart 1	Y	0.7400
Nomograph	Nomograph 2	Manning's n	0.013
Equation Form	Form 1	Ke	0.200
K	0.0018	Kr	0.200
M	2.0000	Slope Correction Factor	-0.500

Culvert (Advanced)			
Convergence Tolerance	0.00 ft	Specify Number of Backwater Sections	False



Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Culvert - 1 (Culvert-Circular)

Mannings open channel maximum capacity: 258.11 ft³/s
Upstream ID = Orifice - 2, Riser - 1, Orifice - 1
Downstream ID = Tailwater (Pond Outfall)

Water Surface Elevation (ft)	Device Flow (ft³/s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)
252.00	0.00	0.00	0.00	242.00
252.10	0.00	0.00	0.00	242.00
252.50	0.45	248.27	242.00	242.00
253.00	1.84	0.00	242.00	242.00
253.50	2.62	248.66	242.00	242.00
254.00	3.22	248.73	242.00	242.00
254.50	3.71	0.00	242.00	242.00
255.00	4.16	248.83	242.00	242.00
255.50	4.57	248.87	242.00	242.00
256.00	4.94	248.91	242.00	242.00
256.50	5.27	248.94	242.00	242.00
257.00	5.61	0.00	242.00	242.00
257.50	5.90	249.00	242.00	242.00
258.00	7.17	249.10	242.00	242.00
258.50	10.03	249.31	242.00	242.00
259.00	14.13	249.57	242.00	242.00
259.50	16.56	249.71	242.00	242.00
260.00	18.54	249.82	242.00	242.00
260.50	20.30	249.91	242.00	242.00
261.00	21.90	249.99	242.00	242.00
261.50	23.36	250.06	242.00	242.00
262.00	24.73	250.12	242.00	242.00
262.50	29.51	250.34	242.00	242.00
263.00	37.17	250.65	242.00	242.00
263.50	46.66	251.02	242.00	242.00
264.00	57.63	251.41	242.00	242.00
264.50	69.90	251.83	242.00	242.00
265.00	83.32	252.27	242.00	242.00
265.50	97.65	252.74	242.00	242.00
266.00	112.96	253.26	242.00	242.00
266.50	127.51	253.91	242.00	242.00
267.00	133.28	254.19	242.00	242.00
267.50	138.95	254.48	242.00	242.00
268.00	144.34	254.76	242.00	242.00
268.50	149.39	255.03	242.00	242.00
269.00	154.45	255.32	242.00	242.00
269.50	159.26	255.59	242.00	242.00
270.00	163.94	255.87	242.00	242.00

Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Culvert - 1 (Culvert-Circular)

Mannings open channel maximum capacity: 258.11 ft³/s
Upstream ID = Orifice - 2, Riser - 1, Orifice - 1
Downstream ID = Tailwater (Pond Outfall)

Water Surface Elevation (ft)	Device Flow (ft³/s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)
270.50	168.47	256.15	242.00	242.00
271.00	172.92	256.43	242.00	242.00
271.50	177.22	256.71	242.00	242.00
272.00	181.39	256.99	242.00	242.00
272.50	185.35	257.26	242.00	242.00
273.00	189.45	257.54	242.00	242.00
273.50	193.36	257.82	242.00	242.00
274.00	197.22	258.10	242.00	242.00
274.50	200.82	258.36	242.00	242.00
275.00	204.23	258.62	242.00	242.00
275.50	207.59	258.87	242.00	242.00
276.00	210.91	259.13	242.00	242.00

Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft³/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.01	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.01	242.00	0.00
0.00	0.01	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.01	242.00	0.00
0.00	0.01	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.01	242.00	0.00
0.00	0.01	242.00	0.00

Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Culvert - 1 (Culvert-Circular)

Mannings open channel maximum capacity: 258.11 ft³/s
Upstream ID = Orifice - 2, Riser - 1, Orifice - 1
Downstream ID = Tailwater (Pond Outfall)

Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft³/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)
0.00	0.01	242.00	0.00
0.00	0.01	242.00	0.00
0.00	0.02	242.00	0.00
0.00	0.03	242.00	0.00
0.00	0.01	242.00	0.00
0.00	0.06	242.00	0.00
0.00	0.02	242.00	0.00
0.00	0.12	242.00	0.00
0.00	0.02	242.00	0.00
0.00	0.09	242.00	0.00
0.00	0.11	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.08	242.00	0.00
0.00	0.08	242.00	0.00
0.00	0.09	242.00	0.00
0.00	0.09	242.00	0.00
0.00	0.15	242.00	0.00
0.00	0.15	242.00	0.00
0.00	0.14	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.11	242.00	0.00
0.00	0.11	242.00	0.00
0.00	0.15	242.00	0.00
0.00	0.11	242.00	0.00
0.00	0.09	242.00	0.00
0.00	0.09	242.00	0.00
0.00	0.10	242.00	0.00

Message
WS below an invert; no flow.
WS below an invert; no flow.
CRIT.DEPTH CONTROL Vh= .065ft Dcr= .192ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .133ft Dcr= .390ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .159ft Dcr= .466ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .177ft Dcr= .517ft CRIT.DEPTH Hev= .00ft

Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Culvert - 1 (Culvert-Circular)

Mannings open channel maximum capacity: 258.11 ft³/s
Upstream ID = Orifice - 2, Riser - 1, Orifice - 1
Downstream ID = Tailwater (Pond Outfall)

Message
CRIT.DEPTH CONTROL Vh= .191ft Dcr= .556ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .203ft Dcr= .589ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .213ft Dcr= .618ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .222ft Dcr= .643ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .230ft Dcr= .664ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .238ft Dcr= .686ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .244ft Dcr= .704ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .271ft Dcr= .777ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .325ft Dcr= .923ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .393ft Dcr= 1.100ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .430ft Dcr= 1.194ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .459ft Dcr= 1.266ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .483ft Dcr= 1.326ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .505ft Dcr= 1.379ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .525ft Dcr= 1.426ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .543ft Dcr= 1.469ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .604ft Dcr= 1.611ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .697ft Dcr= 1.817ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .809ft Dcr= 2.046ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .937ft Dcr= 2.285ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= 1.084ft Dcr= 2.527ft CRIT.DEPTH Hev= .00ft

Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Culvert - 1 (Culvert-Circular)

Mannings open channel maximum capacity: 258.11 ft³/s
Upstream ID = Orifice - 2, Riser - 1, Orifice - 1
Downstream ID = Tailwater (Pond Outfall)

Message
CRIT.DEPTH CONTROL Vh= 1.255ft Dcr= 2.767ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= 1.455ft Dcr= 2.995ft CRIT.DEPTH Hev= .00ft
INLET CONTROL... Submerged: HW =5.26
INLET CONTROL... Submerged: HW =5.91
INLET CONTROL... Submerged: HW =6.19
INLET CONTROL... Submerged: HW =6.48
INLET CONTROL... Submerged: HW =6.76
INLET CONTROL... Submerged: HW =7.03
INLET CONTROL... Submerged: HW =7.32
INLET CONTROL... Submerged: HW =7.59
INLET CONTROL... Submerged: HW =7.87
INLET CONTROL... Submerged: HW =8.15
INLET CONTROL... Submerged: HW =8.43
INLET CONTROL... Submerged: HW =8.71
INLET CONTROL... Submerged: HW =8.99
INLET CONTROL... Submerged: HW =9.26
INLET CONTROL... Submerged: HW =9.54
INLET CONTROL... Submerged: HW =9.82
INLET CONTROL... Submerged: HW =10.10
INLET CONTROL... Submerged: HW =10.36
INLET CONTROL... Submerged: HW =10.62

Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Culvert - 1 (Culvert-Circular)

Mannings open channel maximum capacity: 258.11 ft³/s
Upstream ID = Orifice - 2, Riser - 1, Orifice - 1
Downstream ID = Tailwater (Pond Outfall)

Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft³/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)
0.00	0.00	262.00	0.00
0.00	0.01	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.02	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.01	262.00	0.00
0.00	0.00	262.00	0.00

Message

Outlet Structure	
Outlet Structure Type	Orifice

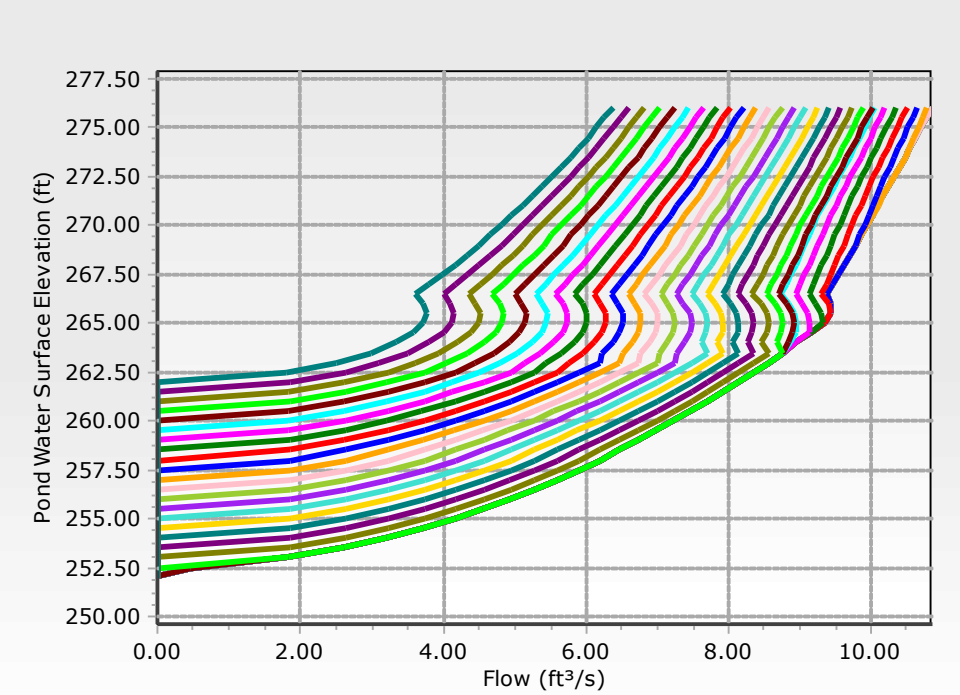
Outlet Structure (IDs and Direction)			
Outlet ID	Orifice - 1	Downstream ID	Culvert - 1
Flow Direction	Forward Flow Only	Notes	

Outlet Structure (Advanced)			
Elevation (On)	0.00 ft	Elevation (Off)	0.00 ft

Outlet Structure (Orifice)			
Orifice	Circular Orifice	Orifice Coefficient	0.604
Number of Openings	1	Orifice Diameter	10.0 in

Outlet Structure (Common)	
Elevation	252.10 ft

Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2



RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 1 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Water Surface Elevation (ft)	Device Flow (ft³/s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)
252.00	0.00	0.00	0.00	0.00
252.10	0.00	0.00	0.00	0.00
252.50	0.45	252.50	Free Outfall	248.27
253.00	1.84	253.00	Free Outfall	0.00
253.50	2.62	253.50	Free Outfall	248.66
254.00	3.22	254.00	Free Outfall	248.73
254.50	3.72	254.50	Free Outfall	0.00
255.00	4.16	255.00	Free Outfall	248.83
255.50	4.56	255.50	Free Outfall	248.87
256.00	4.93	256.00	Free Outfall	248.91
256.50	5.27	256.50	Free Outfall	248.94
257.00	5.60	257.00	Free Outfall	0.00
257.50	5.90	257.50	Free Outfall	249.00
258.00	6.19	258.00	Free Outfall	249.10
258.50	6.46	258.50	Free Outfall	249.31
259.00	6.73	259.00	Free Outfall	249.57

Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 1 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Water Surface Elevation (ft)	Device Flow (ft³/s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)
259.50	6.98	259.50	Free Outfall	249.71
260.00	7.23	260.00	Free Outfall	249.82
260.50	7.47	260.50	Free Outfall	249.91
261.00	7.70	261.00	Free Outfall	249.99
261.50	7.92	261.50	Free Outfall	250.06
262.00	8.14	262.00	Free Outfall	250.12
262.50	8.35	262.50	Free Outfall	250.34
263.00	8.56	263.00	Free Outfall	250.65
263.50	8.76	263.50	Free Outfall	251.02
264.00	8.96	264.00	Free Outfall	251.41
264.50	9.15	264.50	Free Outfall	251.83
265.00	9.34	265.00	252.27	252.27
265.50	9.44	265.50	252.74	252.74
266.00	9.43	266.00	253.26	253.26
266.50	9.38	266.50	253.91	253.91
267.00	9.46	267.00	254.19	254.19
267.50	9.54	267.50	254.48	254.48
268.00	9.62	268.00	254.76	254.76
268.50	9.70	268.50	255.03	255.03
269.00	9.78	269.00	255.32	255.32
269.50	9.85	269.50	255.59	255.59
270.00	9.93	270.00	255.87	255.87
270.50	10.01	270.50	256.15	256.15
271.00	10.09	271.00	256.43	256.43
271.50	10.16	271.50	256.71	256.71
272.00	10.24	272.00	256.99	256.99
272.50	10.32	272.50	257.26	257.26
273.00	10.39	273.00	257.54	257.54
273.50	10.46	273.50	257.82	257.82
274.00	10.54	274.00	258.10	258.10
274.50	10.62	274.50	258.36	258.36
275.00	10.70	275.00	258.62	258.62
275.50	10.78	275.50	258.87	258.87
276.00	10.85	276.00	259.13	259.13

Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft³/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00

Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 1 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft^3/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00

Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 1 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft^3/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00

Message
WS below an invert; no flow.
WS below an invert; no flow.
CRIT.DEPTH CONTROL Vh= .107ft
Dcr= .293ft CRIT.DEPTH Hev= .00ft
H =.48
H =.98
H =1.48
H =1.98
H =2.48
H =2.98
H =3.48
H =3.98
H =4.48
H =4.98
H =5.48
H =5.98
H =6.48
H =6.98
H =7.48
H =7.98
H =8.48
H =8.98
H =9.48
H =9.98
H =10.48
H =10.98
H =11.48
H =11.98
H =12.48

Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 1 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft³/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)	Message
0.00	0.00	262.00	0.00	
0.00	0.00	262.00	0.00	

Outlet Structure

Outlet Structure Type	Riser

Outlet Structure (IDs and Direction)

Outlet ID	Riser - 1	Downstream ID	Culvert - 1
Flow Direction	Forward Flow Only	Notes	

Outlet Structure (Advanced)

Elevation (On)	0.00 ft	Elevation (Off)	0.00 ft

Outlet Structure (Riser)

Riser	Inlet Box	Orifice Area	9.0 ft²
Weir Length	3.00 ft	Transition Elevation	0.00 ft
Weir Coefficient	3.32 (ft^0.5)/s	Transition Height	0.00 ft
Orifice Coefficient	0.610	K Reverse	1.000

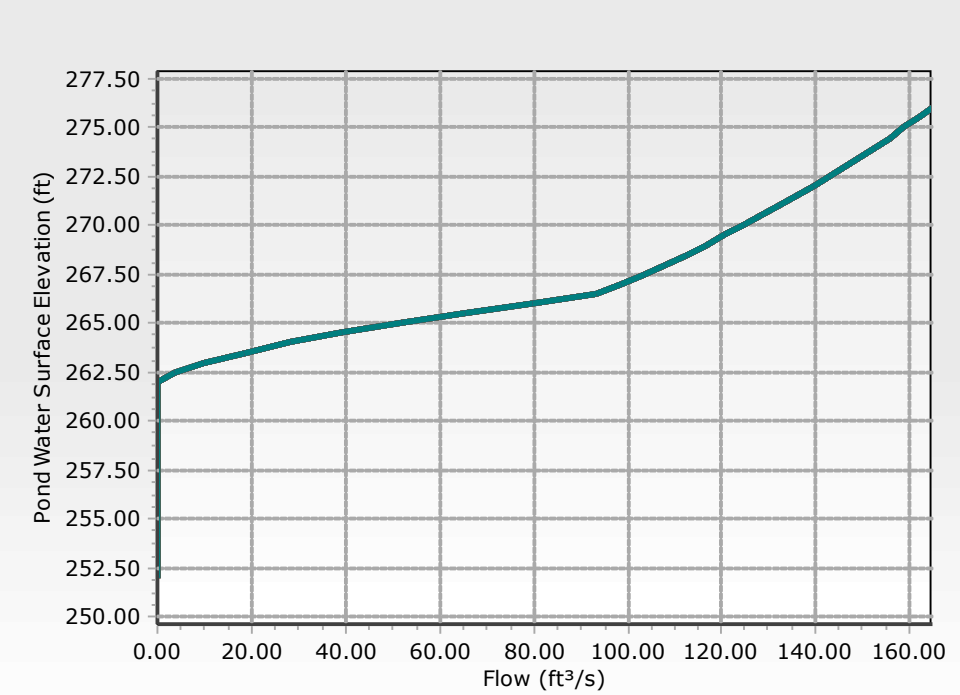
Outlet Structure (Common)

Elevation	262.00 ft

Outlet Structure (Riser, Advanced)

Use Orifice Depth to Crest?	True	Use Submerged Weir Equation?	False

Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2



RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Riser - 1 (Inlet Box)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Water Surface Elevation (ft)	Device Flow (ft³/s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)
252.00	0.00	0.00	0.00	0.00
252.10	0.00	0.00	0.00	0.00
252.50	0.00	0.00	0.00	248.27
253.00	0.00	0.00	0.00	0.00
253.50	0.00	0.00	0.00	248.66
254.00	0.00	0.00	0.00	248.73
254.50	0.00	0.00	0.00	0.00
255.00	0.00	0.00	0.00	248.83
255.50	0.00	0.00	0.00	248.87
256.00	0.00	0.00	0.00	248.91
256.50	0.00	0.00	0.00	248.94
257.00	0.00	0.00	0.00	0.00
257.50	0.00	0.00	0.00	249.00
258.00	0.00	0.00	0.00	249.10
258.50	0.00	0.00	0.00	249.31
259.00	0.00	0.00	0.00	249.57

Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Riser - 1 (Inlet Box)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Water Surface Elevation (ft)	Device Flow (ft³/s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)
259.50	0.00	0.00	0.00	249.71
260.00	0.00	0.00	0.00	249.82
260.50	0.00	0.00	0.00	249.91
261.00	0.00	0.00	0.00	249.99
261.50	0.00	0.00	0.00	250.06
262.00	0.00	0.00	0.00	250.12
262.50	3.52	262.50	Free Outfall	250.34
263.00	9.96	263.00	Free Outfall	250.65
263.50	18.30	263.50	Free Outfall	251.02
264.00	28.17	264.00	Free Outfall	251.41
264.50	39.37	264.50	Free Outfall	251.83
265.00	51.75	265.00	Free Outfall	252.27
265.50	65.22	265.50	Free Outfall	252.74
266.00	79.68	266.00	Free Outfall	253.26
266.50	93.42	266.50	Free Outfall	253.91
267.00	98.47	267.00	Free Outfall	254.19
267.50	103.28	267.50	Free Outfall	254.48
268.00	107.87	268.00	Free Outfall	254.76
268.50	112.28	268.50	Free Outfall	255.03
269.00	116.52	269.00	Free Outfall	255.32
269.50	120.61	269.50	Free Outfall	255.59
270.00	124.56	270.00	Free Outfall	255.87
270.50	128.40	270.50	Free Outfall	256.15
271.00	132.12	271.00	Free Outfall	256.43
271.50	135.74	271.50	Free Outfall	256.71
272.00	139.26	272.00	Free Outfall	256.99
272.50	142.70	272.50	Free Outfall	257.26
273.00	146.06	273.00	Free Outfall	257.54
273.50	149.34	273.50	Free Outfall	257.82
274.00	152.56	274.00	Free Outfall	258.10
274.50	155.70	274.50	Free Outfall	258.36
275.00	158.79	275.00	Free Outfall	258.62
275.50	161.81	275.50	Free Outfall	258.87
276.00	164.78	276.00	Free Outfall	259.13

Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft³/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00

Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Riser - 1 (Inlet Box)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft^3/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00

Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Riser - 1 (Inlet Box)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft^3/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00

Message
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
Weir: H =0.5ft
Weir: H =1ft
Weir: H =1.5ft
Weir: H =2ft
Weir: H =2.5ft
Weir: H =3ft
Weir: H =3.5ft

Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Riser - 1 (Inlet Box)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Message
Weir: H =4ft
Orifice: H =4.50; Riser orifice equation controlling.
Orifice: H =5.00; Riser orifice equation controlling.
Orifice: H =5.50; Riser orifice equation controlling.
Orifice: H =6.00; Riser orifice equation controlling.
Orifice: H =6.50; Riser orifice equation controlling.
Orifice: H =7.00; Riser orifice equation controlling.
Orifice: H =7.50; Riser orifice equation controlling.
Orifice: H =8.00; Riser orifice equation controlling.
Orifice: H =8.50; Riser orifice equation controlling.
Orifice: H =9.00; Riser orifice equation controlling.
Orifice: H =9.50; Riser orifice equation controlling.
Orifice: H =10.00; Riser orifice equation controlling.
Orifice: H =10.50; Riser orifice equation controlling.
Orifice: H =11.00; Riser orifice equation controlling.
Orifice: H =11.50; Riser orifice equation controlling.
Orifice: H =12.00; Riser orifice equation controlling.
Orifice: H =12.50; Riser orifice equation controlling.
Orifice: H =13.00; Riser orifice equation controlling.
Orifice: H =13.50; Riser orifice equation controlling.
Orifice: H =14.00; Riser orifice equation controlling.

Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Riser - 1 (Inlet Box)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft^3/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00
0.00	0.00	262.00	0.00

Message

Outlet Structure	
Outlet Structure Type	Weir

Outlet Structure (IDs and Direction)			
Outlet ID	Weir - 1	Downstream ID	Tailwater
Flow Direction	Forward Flow Only	Notes	

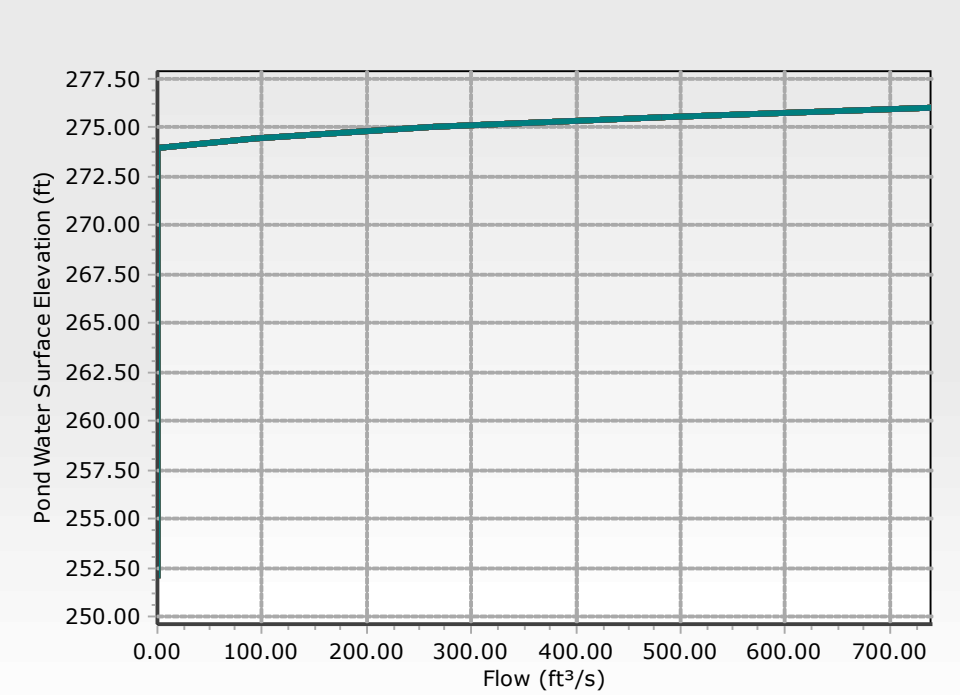
Outlet Structure (Advanced)			
Elevation (On)	0.00 ft	Elevation (Off)	0.00 ft

Outlet Structure (Weir)			
Weir	Rectangular Weir	Rectangular Weir	Contracted
Vary Coefficient with Depth	False	Weir Length	100.00 ft
Weir Coefficient	2.63 (ft^0.5)/s		

Outlet Structure (Common)	
Elevation	274.00 ft

Outlet Structure (Weir, Advanced)	
User Defined Table	False

Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2



RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Weir - 1 (Rectangular Weir)

Upstream ID = (Pond Water Surface)
Downstream ID = Tailwater (Pond Outfall)

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
252.00	0.00	242.00	0.00
252.10	0.00	242.00	0.00
252.50	0.00	242.00	0.00
253.00	0.00	242.00	0.00
253.50	0.00	242.00	0.00
254.00	0.00	242.00	0.00
254.50	0.00	242.00	0.00
255.00	0.00	242.00	0.00
255.50	0.00	242.00	0.00
256.00	0.00	242.00	0.00
256.50	0.00	242.00	0.00
257.00	0.00	242.00	0.00
257.50	0.00	242.00	0.00
258.00	0.00	242.00	0.00
258.50	0.00	242.00	0.00
259.00	0.00	242.00	0.00

Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Weir - 1 (Rectangular Weir)

Upstream ID = (Pond Water Surface)
Downstream ID = Tailwater (Pond Outfall)

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
259.50	0.00	242.00	0.00
260.00	0.00	242.00	0.00
260.50	0.00	242.00	0.00
261.00	0.00	242.00	0.00
261.50	0.00	242.00	0.00
262.00	0.00	242.00	0.00
262.50	0.00	242.00	0.00
263.00	0.00	242.00	0.00
263.50	0.00	242.00	0.00
264.00	0.00	242.00	0.00
264.50	0.00	242.00	0.00
265.00	0.00	242.00	0.00
265.50	0.00	242.00	0.00
266.00	0.00	242.00	0.00
266.50	0.00	242.00	0.00
267.00	0.00	242.00	0.00
267.50	0.00	242.00	0.00
268.00	0.00	242.00	0.00
268.50	0.00	242.00	0.00
269.00	0.00	242.00	0.00
269.50	0.00	242.00	0.00
270.00	0.00	242.00	0.00
270.50	0.00	242.00	0.00
271.00	0.00	242.00	0.00
271.50	0.00	242.00	0.00
272.00	0.00	242.00	0.00
272.50	0.00	242.00	0.00
273.00	0.00	242.00	0.00
273.50	0.00	242.00	0.00
274.00	0.00	242.00	0.00
274.50	92.89	242.00	0.00
275.00	262.47	242.00	0.00
275.50	481.71	242.00	0.00
276.00	740.90	242.00	0.00

Computation Messages
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.

Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Weir - 1 (Rectangular Weir)

Upstream ID = (Pond Water Surface)
Downstream ID = Tailwater (Pond Outfall)

Computation Messages
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
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WS below an invert; no flow.
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WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
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WS below an invert; no flow.
WS below an invert; no flow.
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WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
H=.50; Htw=.00; Qfree=92.89;
H=1.00; Htw=.00; Qfree=262.47;

Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Weir - 1 (Rectangular Weir)

Upstream ID = (Pond Water Surface)
Downstream ID = Tailwater (Pond Outfall)

Computation Messages
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
H=.50; Htw=.00; Qfree=92.89;
H=1.00; Htw=.00; Qfree=262.47;
H=1.50; Htw=.00; Qfree=481.71;
H=2.00; Htw=.00; Qfree=740.90;

Outlet Structure	
Outlet Structure Type	Orifice

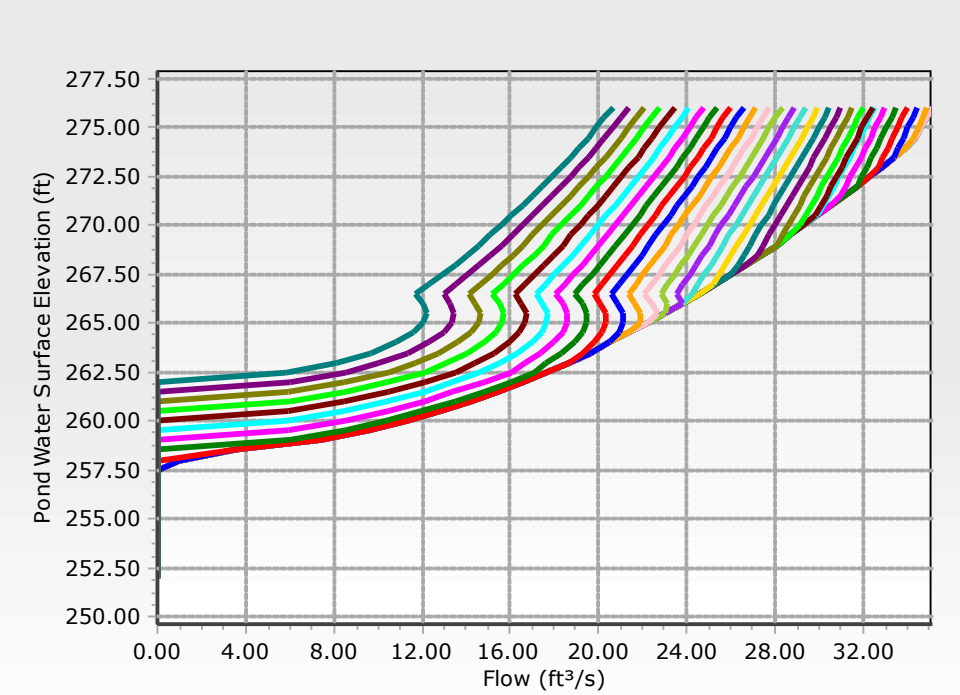
Outlet Structure (IDs and Direction)			
Outlet ID	Orifice - 2	Downstream ID	Culvert - 1
Flow Direction	Forward Flow Only	Notes	

Outlet Structure (Advanced)			
Elevation (On)	0.00 ft	Elevation (Off)	0.00 ft

Outlet Structure (Orifice)			
Orifice	Circular Orifice	Orifice Coefficient	0.604
Number of Openings	1	Orifice Diameter	18.0 in

Outlet Structure (Common)	
Elevation	257.50 ft

Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2



RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 2 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Water Surface Elevation (ft)	Device Flow (ft³/s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)
252.00	0.00	0.00	0.00	0.00
252.10	0.00	0.00	0.00	0.00
252.50	0.00	0.00	0.00	248.27
253.00	0.00	0.00	0.00	0.00
253.50	0.00	0.00	0.00	248.66
254.00	0.00	0.00	0.00	248.73
254.50	0.00	0.00	0.00	0.00
255.00	0.00	0.00	0.00	248.83
255.50	0.00	0.00	0.00	248.87
256.00	0.00	0.00	0.00	248.91
256.50	0.00	0.00	0.00	248.94
257.00	0.00	0.00	0.00	0.00
257.50	0.00	0.00	0.00	249.00
258.00	0.98	258.00	Free Outfall	249.10
258.50	3.56	258.50	Free Outfall	249.31
259.00	7.41	259.00	Free Outfall	249.57

Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 2 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Water Surface Elevation (ft)	Device Flow (ft^3/s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)
259.50	9.57	259.50	Free Outfall	249.71
260.00	11.33	260.00	Free Outfall	249.82
260.50	12.84	260.50	Free Outfall	249.91
261.00	14.20	261.00	Free Outfall	249.99
261.50	15.44	261.50	Free Outfall	250.06
262.00	16.58	262.00	Free Outfall	250.12
262.50	17.65	262.50	Free Outfall	250.34
263.00	18.66	263.00	Free Outfall	250.65
263.50	19.62	263.50	Free Outfall	251.02
264.00	20.53	264.00	Free Outfall	251.41
264.50	21.41	264.50	Free Outfall	251.83
265.00	22.24	265.00	Free Outfall	252.27
265.50	23.05	265.50	Free Outfall	252.74
266.00	23.84	266.00	Free Outfall	253.26
266.50	24.59	266.50	Free Outfall	253.91
267.00	25.33	267.00	Free Outfall	254.19
267.50	26.04	267.50	Free Outfall	254.48
268.00	26.73	268.00	Free Outfall	254.76
268.50	27.41	268.50	Free Outfall	255.03
269.00	28.07	269.00	Free Outfall	255.32
269.50	28.72	269.50	Free Outfall	255.59
270.00	29.35	270.00	Free Outfall	255.87
270.50	29.97	270.50	Free Outfall	256.15
271.00	30.57	271.00	Free Outfall	256.43
271.50	31.17	271.50	Free Outfall	256.71
272.00	31.75	272.00	Free Outfall	256.99
272.50	32.32	272.50	Free Outfall	257.26
273.00	32.88	273.00	257.54	257.54
273.50	33.44	273.50	257.82	257.82
274.00	33.98	274.00	258.10	258.10
274.50	34.40	274.50	258.36	258.36
275.00	34.65	275.00	258.62	258.62
275.50	34.91	275.50	258.87	258.87
276.00	35.17	276.00	259.13	259.13

Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft^3/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00

Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 2 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft^3/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00

Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 2 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft^3/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00
0.00	0.00	242.00	0.00

Message
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
CRIT.DEPTH CONTROL Vh= .131ft Dcr= .369ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .280ft Dcr= .721ft CRIT.DEPTH Hev= .00ft
H =.75
H =1.25
H =1.75
H =2.25
H =2.75
H =3.25
H =3.75
H =4.25
H =4.75
H =5.25
H =5.75
H =6.25

Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 2 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Message
H =6.75
H =7.25
H =7.75
H =8.25
H =8.75
H =9.25
H =9.75
H =10.25
H =10.75
H =11.25
H =11.75
H =12.25
H =12.75
H =13.25
H =13.75
H =14.25
H =14.75
H =15.25
H =15.75
H =16.14
H =16.38
H =16.63
H =16.87

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 2 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 1 (Culvert-Circular)

Water Surface Elevation (ft)	Device Flow (ft^3/s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)
252.00	0.00	0.00	0.00	0.00
252.10	0.00	0.00	0.00	0.00
252.50	0.00	0.00	0.00	248.27
253.00	0.00	0.00	0.00	0.00
253.50	0.00	0.00	0.00	248.66
254.00	0.00	0.00	0.00	248.73
254.50	0.00	0.00	0.00	0.00
255.00	0.00	0.00	0.00	248.83

Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2

Composite Rating Table
Tailwater Elevation = 242.00 ft (Outlet - 3B-4 to Imaginary Basin 2)

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
252.00	0.00	242.00	0.00
252.10	0.00	242.00	0.00
252.50	0.45	242.00	0.00
253.00	1.84	242.00	0.00
253.50	2.62	242.00	0.00
254.00	3.22	242.00	0.00
254.50	3.71	242.00	0.00
255.00	4.16	242.00	0.00
255.50	4.57	242.00	0.00
256.00	4.94	242.00	0.00
256.50	5.27	242.00	0.00
257.00	5.60	242.00	0.00
257.50	5.90	242.00	0.00
258.00	7.17	242.00	0.00
258.50	10.03	242.00	0.00
259.00	14.13	242.00	0.00
259.50	16.56	242.00	0.00
260.00	18.54	242.00	0.00
260.50	20.30	242.00	0.00
261.00	21.90	242.00	0.00
261.50	23.36	242.00	0.00
262.00	24.73	242.00	0.00
262.50	29.51	242.00	0.00
263.00	37.17	242.00	0.00
263.50	46.66	242.00	0.00
264.00	57.63	242.00	0.00
264.50	69.90	242.00	0.00
265.00	83.32	242.00	0.00
265.50	97.65	242.00	0.00
266.00	112.96	242.00	0.00
266.50	127.51	242.00	0.00
267.00	133.28	242.00	0.00
267.50	138.95	242.00	0.00
268.00	144.34	242.00	0.00
268.50	149.39	242.00	0.00
269.00	154.45	242.00	0.00
269.50	159.26	242.00	0.00
270.00	163.94	242.00	0.00
270.50	168.47	242.00	0.00
271.00	172.92	242.00	0.00
271.50	177.22	242.00	0.00
272.00	181.39	242.00	0.00
272.50	185.35	242.00	0.00
273.00	189.45	242.00	0.00

Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2

Composite Rating Table
Tailwater Elevation = 242.00 ft (Outlet - 3B-4 to Imaginary Basin 2)

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
273.50	193.36	242.00	0.00
274.00	197.22	242.00	0.00
274.50	293.71	242.00	0.00
275.00	466.70	242.00	0.00
275.50	689.30	242.00	0.00
276.00	951.81	242.00	0.00

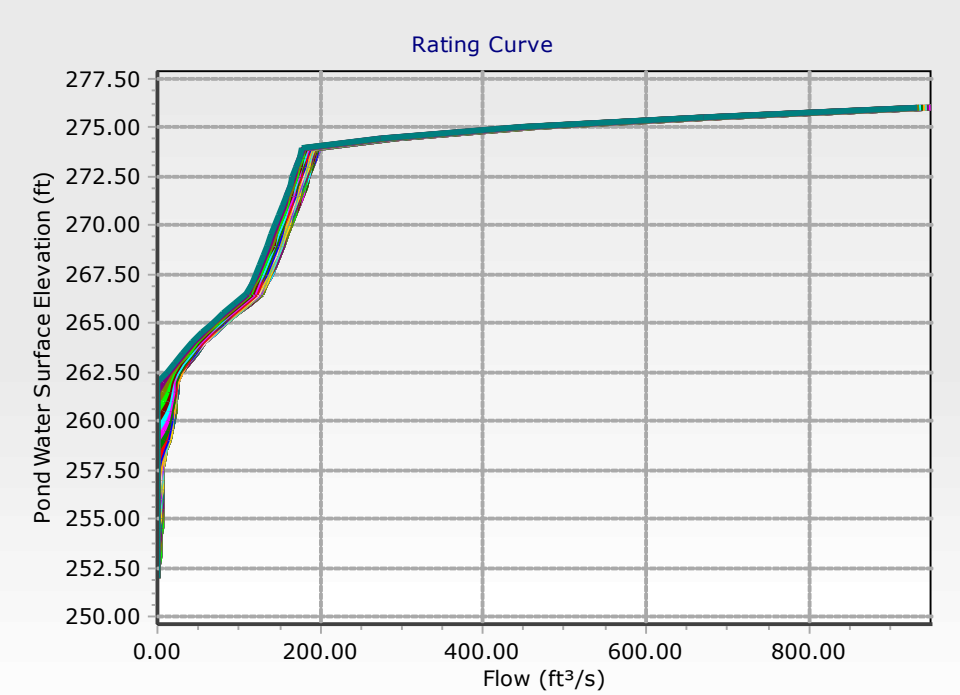
Contributing Structures
(no Q: Orifice - 2,Riser - 1,Orifice - 1,Culvert - 1,Weir - 1)
(no Q: Orifice - 2,Riser - 1,Orifice - 1,Culvert - 1,Weir - 1)
Orifice - 1,Culvert - 1 (no Q: Orifice - 2,Riser - 1,Weir - 1)
Orifice - 1,Culvert - 1 (no Q: Orifice - 2,Riser - 1,Weir - 1)
Orifice - 1,Culvert - 1 (no Q: Orifice - 2,Riser - 1,Weir - 1)
Orifice - 1,Culvert - 1 (no Q: Orifice - 2,Riser - 1,Weir - 1)
Orifice - 1,Culvert - 1 (no Q: Orifice - 2,Riser - 1,Weir - 1)
Orifice - 1,Culvert - 1 (no Q: Orifice - 2,Riser - 1,Weir - 1)
Orifice - 1,Culvert - 1 (no Q: Orifice - 2,Riser - 1,Weir - 1)
Orifice - 1,Culvert - 1 (no Q: Orifice - 2,Riser - 1,Weir - 1)
Orifice - 1,Culvert - 1 (no Q: Orifice - 2,Riser - 1,Weir - 1)
Orifice - 1,Culvert - 1 (no Q: Orifice - 2,Riser - 1,Weir - 1)
Orifice - 1,Culvert - 1 (no Q: Orifice - 2,Riser - 1,Weir - 1)
Orifice - 2,Orifice - 1,Culvert - 1 (no Q: Riser - 1,Weir - 1)
Orifice - 2,Orifice - 1,Culvert - 1 (no Q: Riser - 1,Weir - 1)
Orifice - 2,Orifice - 1,Culvert - 1 (no Q: Riser - 1,Weir - 1)
Orifice - 2,Orifice - 1,Culvert - 1 (no Q: Riser - 1,Weir - 1)
Orifice - 2,Orifice - 1,Culvert - 1 (no Q: Riser - 1,Weir - 1)
Orifice - 2,Orifice - 1,Culvert - 1 (no Q: Riser - 1,Weir - 1)

Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2

Composite Rating Table
Tailwater Elevation = 242.00 ft (Outlet - 3B-4 to Imaginary Basin 2)

Contributing Structures
Orifice - 2,Orifice - 1,Culvert - 1 (no Q: Riser - 1,Weir - 1)
Orifice - 2,Orifice - 1,Culvert - 1 (no Q: Riser - 1,Weir - 1)
Orifice - 2,Orifice - 1,Culvert - 1 (no Q: Riser - 1,Weir - 1)
Orifice - 2,Riser - 1,Orifice - 1,Culvert - 1 (no Q: Weir - 1)
Orifice - 2,Riser - 1,Orifice - 1,Culvert - 1 (no Q: Weir - 1)
Orifice - 2,Riser - 1,Orifice - 1,Culvert - 1 (no Q: Weir - 1)
Orifice - 2,Riser - 1,Orifice - 1,Culvert - 1 (no Q: Weir - 1)
Orifice - 2,Riser - 1,Orifice - 1,Culvert - 1 (no Q: Weir - 1)
Orifice - 2,Riser - 1,Orifice - 1,Culvert - 1 (no Q: Weir - 1)
Orifice - 2,Riser - 1,Orifice - 1,Culvert - 1 (no Q: Weir - 1)
Orifice - 2,Riser - 1,Orifice - 1,Culvert - 1 (no Q: Weir - 1)
Orifice - 2,Riser - 1,Orifice - 1,Culvert - 1 (no Q: Weir - 1)
Orifice - 2,Riser - 1,Orifice - 1,Culvert - 1 (no Q: Weir - 1)
Orifice - 2,Riser - 1,Orifice - 1,Culvert - 1 (no Q: Weir - 1)
Orifice - 2,Riser - 1,Orifice - 1,Culvert - 1 (no Q: Weir - 1)
Orifice - 2,Riser - 1,Orifice - 1,Culvert - 1 (no Q: Weir - 1)
Orifice - 2,Riser - 1,Orifice - 1,Culvert - 1 (no Q: Weir - 1)
Orifice - 2,Riser - 1,Orifice - 1,Culvert - 1 (no Q: Weir - 1)
Orifice - 2,Riser - 1,Orifice - 1,Culvert - 1 (no Q: Weir - 1)
Orifice - 2,Riser - 1,Orifice - 1,Culvert - 1 (no Q: Weir - 1)
Orifice - 2,Riser - 1,Orifice - 1,Culvert - 1 (no Q: Weir - 1)
Orifice - 2,Riser - 1,Orifice - 1,Culvert - 1 (no Q: Weir - 1)
Orifice - 2,Riser - 1,Orifice - 1,Culvert - 1 (no Q: Weir - 1)
Orifice - 2,Riser - 1,Orifice - 1,Culvert - 1 (no Q: Weir - 1)

Composite Outlet Structure Detailed Report: Outlet - 3B-4 to Imaginary Basin 2



B Diversion Scenario Calculation Summary

Scenario Summary	
ID	Proposed – 100 Yr
Rainfall Runoff	Local 100-yr High Confidence
Hydrology	3B00HCS
Output Increment	.050 hours
Duration	24.00 hours

Basin Summary

Data Pair Number	Qenter (cfs)	Qpass (cfs)
1	25.00	13.59
2	75.00	16.84
3	100.00	18.46
4	250.00	28.22
5	550.00	47.73

Notes

1. Qenter is approximate total of Outlet-11 and Outlet-12 at various time steps.
2. Qpass is equal to Outlet-11 or the flow going to 3B-1.
3. The forecast function in excel was used to predict the Qpass from chosen Qenters by using the data on the following sheets.

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft^3/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft^3/s)
0.000	0.00	0.00
0.050	0.00	0.00
0.100	1.57	0.00
0.150	4.04	0.00
0.200	6.50	0.00
0.250	8.52	0.44
0.300	10.13	1.30
0.350	11.04	2.80
0.400	11.21	3.07
0.450	11.21	3.08
0.500	11.22	3.09
0.550	11.23	3.11
0.600	11.24	3.12
0.650	11.24	3.13
0.700	11.26	3.15
0.750	11.27	3.18
0.800	11.29	3.20
0.850	11.30	3.23
0.900	11.32	3.25
0.950	11.33	3.27
1.000	11.34	3.28
1.050	11.34	3.30
1.100	11.35	3.31
1.150	11.36	3.32
1.200	11.37	3.33
1.250	11.38	3.35
1.300	11.39	3.37
1.350	11.41	3.40
1.400	11.42	3.43
1.450	11.44	3.45
1.500	11.46	3.48
1.550	11.47	3.50
1.600	11.47	3.51
1.650	11.48	3.52
1.700	11.49	3.53
1.750	11.50	3.55
1.800	11.51	3.56
1.850	11.52	3.59
1.900	11.54	3.61
1.950	11.55	3.64
2.000	11.57	3.67
2.050	11.59	3.69
2.100	11.60	3.72
2.150	11.61	3.74
2.200	11.62	3.75
2.250	11.63	3.76

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft^3/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft^3/s)
2.300	11.64	3.78
2.350	11.65	3.79
2.400	11.66	3.81
2.450	11.68	3.84
2.500	11.69	3.87
2.550	11.71	3.90
2.600	11.73	3.93
2.650	11.74	3.95
2.700	11.76	3.98
2.750	11.77	3.99
2.800	11.78	4.01
2.850	11.79	4.02
2.900	11.79	4.04
2.950	11.80	4.05
3.000	11.82	4.08
3.050	11.84	4.11
3.100	11.86	4.14
3.150	11.88	4.17
3.200	11.89	4.20
3.250	11.91	4.23
3.300	11.93	4.25
3.350	11.93	4.27
3.400	11.94	4.28
3.450	11.95	4.30
3.500	11.96	4.31
3.550	11.98	4.33
3.600	12.00	4.37
3.650	12.02	4.40
3.700	12.03	4.43
3.750	12.06	4.47
3.800	12.08	4.50
3.850	12.09	4.53
3.900	12.10	4.55
3.950	12.12	4.57
4.000	12.13	4.58
4.050	12.13	4.60
4.100	12.15	4.61
4.150	12.16	4.64
4.200	12.19	4.68
4.250	12.21	4.72
4.300	12.23	4.75
4.350	12.25	4.79
4.400	12.27	4.82
4.450	12.29	4.85
4.500	12.30	4.87
4.550	12.31	4.89

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft^3/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft^3/s)
4.600	12.32	4.90
4.650	12.33	4.92
4.700	12.34	4.94
4.750	12.37	4.98
4.800	12.39	5.02
4.850	12.42	5.06
4.900	12.44	5.10
4.950	12.46	5.13
5.000	12.48	5.17
5.050	12.49	5.19
5.100	12.51	5.21
5.150	12.52	5.23
5.200	12.53	5.25
5.250	12.55	5.27
5.300	12.56	5.30
5.350	12.59	5.34
5.400	12.61	5.39
5.450	12.63	5.44
5.500	12.64	5.49
5.550	12.65	5.55
5.600	12.66	5.59
5.650	12.67	5.62
5.700	12.68	5.65
5.750	12.68	5.67
5.800	12.69	5.70
5.850	12.69	5.73
5.900	12.71	5.79
5.950	12.72	5.85
6.000	12.74	5.91
6.050	12.75	5.97
6.100	12.76	6.03
6.150	12.78	6.08
6.200	12.79	6.11
6.250	12.79	6.15
6.300	12.80	6.18
6.350	12.81	6.21
6.400	12.82	6.24
6.450	12.83	6.28
6.500	12.84	6.35
6.550	12.86	6.41
6.600	12.87	6.48
6.650	12.89	6.55
6.700	12.90	6.61
6.750	12.92	6.66
6.800	12.92	6.70
6.850	12.93	6.73

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft^3/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft^3/s)
6.900	12.94	6.76
6.950	12.95	6.80
7.000	12.96	6.83
7.050	12.97	6.90
7.100	12.99	6.97
7.150	13.01	7.04
7.200	13.02	7.11
7.250	13.04	7.19
7.300	13.06	7.26
7.350	13.07	7.30
7.400	13.08	7.34
7.450	13.09	7.38
7.500	13.09	7.41
7.550	13.10	7.45
7.600	13.12	7.50
7.650	13.13	7.58
7.700	13.15	7.66
7.750	13.17	7.74
7.800	13.19	7.82
7.850	13.21	7.90
7.900	13.23	7.97
7.950	13.24	8.01
8.000	13.25	8.05
8.050	13.26	8.09
8.100	13.27	8.13
8.150	13.28	8.18
8.200	13.29	8.25
8.250	13.32	8.34
8.300	13.34	8.43
8.350	13.36	8.51
8.400	13.38	8.61
8.450	13.40	8.70
8.500	13.41	8.75
8.550	13.42	8.80
8.600	13.44	8.85
8.650	13.45	8.89
8.700	13.46	8.94
8.750	13.47	8.99
8.800	13.49	9.09
8.850	13.52	9.19
8.900	13.54	9.30
8.950	13.57	9.39
9.000	13.59	9.50
9.050	13.61	9.59
9.100	13.63	9.65
9.150	13.64	9.70

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft^3/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft^3/s)
9.200	13.65	9.75
9.250	13.66	9.80
9.300	13.68	9.86
9.350	13.69	9.94
9.400	13.72	10.05
9.450	13.75	10.17
9.500	13.78	10.28
9.550	13.80	10.40
9.600	13.83	10.52
9.650	13.85	10.59
9.700	13.87	10.66
9.750	13.88	10.72
9.800	13.90	10.78
9.850	13.91	10.84
9.900	13.93	10.90
9.950	13.95	11.03
10.000	13.98	11.15
10.050	14.02	11.29
10.100	14.05	11.42
10.150	14.08	11.55
10.200	14.11	11.68
10.250	14.13	11.76
10.300	14.14	11.82
10.350	14.16	11.89
10.400	14.18	11.97
10.450	14.19	12.04
10.500	14.22	12.13
10.550	14.25	12.29
10.600	14.29	12.44
10.650	14.33	12.59
10.700	14.36	12.75
10.750	14.40	12.90
10.800	14.43	13.03
10.850	14.45	13.11
10.900	14.46	13.20
10.950	14.47	13.29
11.000	14.49	13.38
11.050	14.50	13.48
11.100	14.52	13.64
11.150	14.55	13.84
11.200	14.58	14.03
11.250	14.61	14.22
11.300	14.64	14.42
11.350	14.67	14.62
11.400	14.69	14.74
11.450	14.71	14.84

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft^3/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft^3/s)
11.500	14.72	14.95
11.550	14.74	15.06
11.600	14.76	15.17
11.650	14.77	15.29
11.700	14.81	15.53
11.750	14.85	15.76
11.800	14.88	16.00
11.850	14.92	16.23
11.900	14.95	16.47
11.950	14.98	16.68
12.000	15.00	16.81
12.050	15.02	16.94
12.100	15.04	17.07
12.150	15.06	17.20
12.200	15.08	17.34
12.250	15.22	18.25
12.300	15.46	19.85
12.350	15.70	21.45
12.400	15.94	23.04
12.450	16.15	24.67
12.500	16.33	26.33
12.550	16.39	26.89
12.600	16.41	27.07
12.650	16.43	27.25
12.700	16.45	27.44
12.750	16.47	27.61
12.800	16.49	27.81
12.850	16.53	28.20
12.900	16.58	28.60
12.950	16.62	29.02
13.000	16.67	29.43
13.050	16.71	29.83
13.100	16.75	30.22
13.150	16.78	30.45
13.200	16.80	30.68
13.250	16.83	30.91
13.300	16.85	31.15
13.350	16.88	31.38
13.400	16.92	31.73
13.450	16.97	32.27
13.500	17.03	32.80
13.550	17.09	33.34
13.600	17.15	33.88
13.650	17.21	34.42
13.700	17.25	34.82
13.750	17.29	35.14

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft^3/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft^3/s)
13.800	17.32	35.45
13.850	17.35	35.76
13.900	17.39	36.08
13.950	17.42	36.40
14.000	17.49	37.05
14.050	17.56	37.82
14.100	17.63	38.58
14.150	17.69	39.35
14.200	17.76	40.11
14.250	17.82	40.86
14.300	17.86	41.36
14.350	17.91	41.85
14.400	17.95	42.35
14.450	17.99	42.84
14.500	18.03	43.33
14.550	18.09	44.00
14.600	18.19	45.18
14.650	18.29	46.38
14.700	18.39	47.57
14.750	18.49	48.77
14.800	18.59	49.96
14.850	18.68	50.96
14.900	18.74	51.73
14.950	18.80	52.48
15.000	18.87	53.24
15.050	18.92	54.01
15.100	18.98	54.78
15.150	19.09	56.44
15.200	19.24	58.59
15.250	19.39	60.73
15.300	19.54	62.87
15.350	19.69	65.02
15.400	19.84	67.16
15.450	19.95	68.83
15.500	20.06	70.42
15.550	20.17	72.02
15.600	20.26	73.63
15.650	20.36	75.23
15.700	20.47	77.12
15.750	20.69	80.85
15.800	20.92	84.69
15.850	21.15	88.54
15.900	21.37	92.39
15.950	21.57	96.27
16.000	21.84	101.49
16.050	22.29	110.10

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft^3/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft^3/s)
16.100	22.70	118.74
16.150	23.11	127.39
16.200	23.51	136.04
16.250	23.89	144.72
16.300	25.40	181.44
16.350	27.87	246.71
16.400	30.84	311.48
16.450	34.56	375.49
16.500	38.50	439.29
16.550	42.59	502.93
16.600	40.35	468.39
16.650	35.65	393.41
16.700	31.22	318.17
16.750	27.69	242.01
16.800	24.75	165.28
16.850	21.39	92.81
16.900	20.62	79.59
16.950	20.38	75.64
17.000	20.15	71.71
17.050	19.88	67.80
17.100	19.61	63.90
17.150	19.36	60.22
17.200	19.19	57.85
17.250	19.03	55.50
17.300	18.86	53.14
17.350	18.66	50.81
17.400	18.47	48.49
17.450	18.30	46.47
17.500	18.17	45.00
17.550	18.05	43.54
17.600	17.93	42.08
17.650	17.80	40.62
17.700	17.68	39.16
17.750	17.58	37.98
17.800	17.49	37.01
17.850	17.39	36.06
17.900	17.28	35.12
17.950	17.18	34.17
18.000	17.08	33.23
18.050	17.00	32.46
18.100	16.92	31.76
18.150	16.84	31.06
18.200	16.77	30.36
18.250	16.69	29.66
18.300	16.61	28.92
18.350	16.42	27.19

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft^3/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft^3/s)
18.400	16.23	25.41
18.450	16.03	23.63
18.500	15.77	21.90
18.550	15.51	20.18
18.600	15.29	18.72
18.650	15.21	18.20
18.700	15.14	17.71
18.750	15.06	17.21
18.800	14.99	16.72
18.850	14.91	16.22
18.900	14.85	15.80
18.950	14.80	15.47
19.000	14.75	15.15
19.050	14.70	14.83
19.100	14.65	14.50
19.150	14.61	14.18
19.200	14.56	13.89
19.250	14.52	13.62
19.300	14.48	13.35
19.350	14.44	13.07
19.400	14.38	12.83
19.450	14.32	12.57
19.500	14.27	12.35
19.550	14.22	12.13
19.600	14.17	11.92
19.650	14.12	11.70
19.700	14.07	11.50
19.750	14.02	11.28
19.800	13.97	11.10
19.850	13.93	10.91
19.900	13.88	10.72
19.950	13.84	10.54
20.000	13.79	10.35
20.050	13.75	10.18
20.100	13.71	10.01
20.150	13.68	9.85
20.200	13.64	9.69
20.250	13.60	9.53
20.300	13.56	9.37
20.350	13.52	9.22
20.400	13.49	9.07
20.450	13.46	8.93
20.500	13.42	8.79
20.550	13.39	8.64
20.600	13.35	8.50
20.650	13.32	8.36

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft^3/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft^3/s)
20.700	13.29	8.24
20.750	13.26	8.11
20.800	13.23	7.98
20.850	13.20	7.86
20.900	13.17	7.73
20.950	13.14	7.61
21.000	13.12	7.50
21.050	13.09	7.38
21.100	13.06	7.27
21.150	13.03	7.16
21.200	13.01	7.04
21.250	12.98	6.93
21.300	12.96	6.83
21.350	12.93	6.73
21.400	12.91	6.62
21.450	12.88	6.52
21.500	12.86	6.43
21.550	12.84	6.33
21.600	12.81	6.24
21.650	12.79	6.14
21.700	12.77	6.04
21.750	12.75	5.95
21.800	12.73	5.86
21.850	12.71	5.77
21.900	12.69	5.69
21.950	12.66	5.60
22.000	12.64	5.52
22.050	12.62	5.43
22.100	12.60	5.36
22.150	12.56	5.30
22.200	12.52	5.23
22.250	12.49	5.18
22.300	12.45	5.12
22.350	12.41	5.06
22.400	12.38	4.99
22.450	12.34	4.94
22.500	12.31	4.88
22.550	12.28	4.83
22.600	12.24	4.77
22.650	12.21	4.72
22.700	12.18	4.66
22.750	12.15	4.62
22.800	12.11	4.56
22.850	12.08	4.51
22.900	12.05	4.46
22.950	12.02	4.41

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft^3/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft^3/s)
23.000	11.99	4.36
23.050	11.96	4.31
23.100	11.93	4.26
23.150	11.90	4.21
23.200	11.87	4.16
23.250	11.85	4.12
23.300	11.82	4.07
23.350	11.79	4.03
23.400	11.76	3.99
23.450	11.73	3.94
23.500	11.71	3.89
23.550	11.68	3.85
23.600	11.66	3.81
23.650	11.63	3.77
23.700	11.60	3.72
23.750	11.58	3.68
23.800	11.55	3.64
23.850	11.53	3.60
23.900	11.51	3.56
23.950	11.48	3.52
24.000	11.46	3.48
24.050	11.43	3.44
24.100	11.41	3.40
24.150	11.39	3.37
24.200	11.37	3.33
24.250	11.34	3.29
24.300	11.32	3.26
24.350	11.30	3.22
24.400	11.28	3.18
24.450	11.26	3.15
24.500	11.24	3.12
24.550	11.22	3.09
24.600	11.20	3.06
24.650	11.18	3.03
24.700	10.58	2.04
24.750	9.40	0.78
24.800	7.63	0.10
24.850	5.27	0.00
24.900	2.82	0.00
24.950	0.41	0.00
25.000	0.00	0.00
25.050	0.00	0.00
25.100	0.00	0.00
25.150	0.00	0.00
25.200	0.00	0.00
25.250	0.00	0.00

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft³/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft³/s)
25.300	0.00	0.00
25.350	0.00	0.00
25.400	0.00	0.00
25.450	0.00	0.00
25.500	0.00	0.00
25.550	0.00	0.00
25.600	0.00	0.00
25.650	0.00	0.00
25.700	0.00	0.00
25.750	0.00	0.00
25.800	0.00	0.00
25.850	0.00	0.00
25.900	0.00	0.00
25.950	0.00	0.00
26.000	0.00	0.00
26.050	0.00	0.00
26.100	0.00	0.00
26.150	0.00	0.00
26.200	0.00	0.00
26.250	0.00	0.00
26.300	0.00	0.00
26.350	0.00	0.00
26.400	0.00	0.00
26.450	0.00	0.00
26.500	0.00	0.00
26.550	0.00	0.00
26.600	0.00	0.00
26.650	0.00	0.00
26.700	0.00	0.00
26.750	0.00	0.00
26.800	0.00	0.00
26.850	0.00	0.00
26.900	0.00	0.00
26.950	0.00	0.00
27.000	0.00	0.00
27.050	0.00	0.00
27.100	0.00	0.00
27.150	0.00	0.00
27.200	0.00	0.00
27.250	0.00	0.00
27.300	0.00	0.00
27.350	0.00	0.00
27.400	0.00	0.00
27.450	0.00	0.00
27.500	0.00	0.00
27.550	0.00	0.00

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft^3/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft^3/s)
27.600	0.00	0.00
27.650	0.00	0.00
27.700	0.00	0.00
27.750	0.00	0.00
27.800	0.00	0.00
27.850	0.00	0.00
27.900	0.00	0.00
27.950	0.00	0.00
28.000	0.00	0.00
28.050	0.00	0.00
28.100	0.00	0.00
28.150	0.00	0.00
28.200	0.00	0.00
28.250	0.00	0.00
28.300	0.00	0.00
28.350	0.00	0.00
28.400	0.00	0.00
28.450	0.00	0.00
28.500	0.00	0.00
28.550	0.00	0.00
28.600	0.00	0.00
28.650	0.00	0.00
28.700	0.00	0.00
28.750	0.00	0.00
28.800	0.00	0.00
28.850	0.00	0.00
28.900	0.00	0.00
28.950	0.00	0.00
29.000	0.00	0.00
29.050	0.00	0.00
29.100	0.00	0.00
29.150	0.00	0.00
29.200	0.00	0.00
29.250	0.00	0.00
29.300	0.00	0.00
29.350	0.00	0.00
29.400	0.00	0.00
29.450	0.00	0.00
29.500	0.00	0.00
29.550	0.00	0.00
29.600	0.00	0.00
29.650	0.00	0.00
29.700	0.00	0.00
29.750	0.00	0.00
29.800	0.00	0.00
29.850	0.00	0.00

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft^3/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft^3/s)
29.900	0.00	0.00
29.950	0.00	0.00
30.000	0.00	0.00
30.050	0.00	0.00
30.100	0.00	0.00
30.150	0.00	0.00
30.200	0.00	0.00
30.250	0.00	0.00
30.300	0.00	0.00
30.350	0.00	0.00
30.400	0.00	0.00
30.450	0.00	0.00
30.500	0.00	0.00
30.550	0.00	0.00
30.600	0.00	0.00
30.650	0.00	0.00
30.700	0.00	0.00
30.750	0.00	0.00
30.800	0.00	0.00
30.850	0.00	0.00
30.900	0.00	0.00
30.950	0.00	0.00
31.000	0.00	0.00
31.050	0.00	0.00
31.100	0.00	0.00
31.150	0.00	0.00
31.200	0.00	0.00
31.250	0.00	0.00
31.300	0.00	0.00
31.350	0.00	0.00
31.400	0.00	0.00
31.450	0.00	0.00
31.500	0.00	0.00
31.550	0.00	0.00
31.600	0.00	0.00
31.650	0.00	0.00
31.700	0.00	0.00
31.750	0.00	0.00
31.800	0.00	0.00
31.850	0.00	0.00
31.900	0.00	0.00
31.950	0.00	0.00
32.000	0.00	0.00
32.050	0.00	0.00
32.100	0.00	0.00
32.150	0.00	0.00

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft^3/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft^3/s)
32.200	0.00	0.00
32.250	0.00	0.00
32.300	0.00	0.00
32.350	0.00	0.00
32.400	0.00	0.00
32.450	0.00	0.00
32.500	0.00	0.00
32.550	0.00	0.00
32.600	0.00	0.00
32.650	0.00	0.00
32.700	0.00	0.00
32.750	0.00	0.00
32.800	0.00	0.00
32.850	0.00	0.00
32.900	0.00	0.00
32.950	0.00	0.00
33.000	0.00	0.00
33.050	0.00	0.00
33.100	0.00	0.00
33.150	0.00	0.00
33.200	0.00	0.00
33.250	0.00	0.00
33.300	0.00	0.00
33.350	0.00	0.00
33.400	0.00	0.00
33.450	0.00	0.00
33.500	0.00	0.00
33.550	0.00	0.00
33.600	0.00	0.00
33.650	0.00	0.00
33.700	0.00	0.00
33.750	0.00	0.00
33.800	0.00	0.00
33.850	0.00	0.00
33.900	0.00	0.00
33.950	0.00	0.00
34.000	0.00	0.00
34.050	0.00	0.00
34.100	0.00	0.00
34.150	0.00	0.00
34.200	0.00	0.00
34.250	0.00	0.00
34.300	0.00	0.00
34.350	0.00	0.00
34.400	0.00	0.00
34.450	0.00	0.00

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft^3/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft^3/s)
34.500	0.00	0.00
34.550	0.00	0.00
34.600	0.00	0.00
34.650	0.00	0.00
34.700	0.00	0.00
34.750	0.00	0.00
34.800	0.00	0.00
34.850	0.00	0.00
34.900	0.00	0.00
34.950	0.00	0.00
35.000	0.00	0.00
35.050	0.00	0.00
35.100	0.00	0.00
35.150	0.00	0.00
35.200	0.00	0.00
35.250	0.00	0.00
35.300	0.00	0.00
35.350	0.00	0.00
35.400	0.00	0.00
35.450	0.00	0.00
35.500	0.00	0.00
35.550	0.00	0.00
35.600	0.00	0.00
35.650	0.00	0.00
35.700	0.00	0.00
35.750	0.00	0.00
35.800	0.00	0.00
35.850	0.00	0.00
35.900	0.00	0.00
35.950	0.00	0.00
36.000	0.00	0.00
36.050	0.00	0.00
36.100	0.00	0.00
36.150	0.00	0.00
36.200	0.00	0.00
36.250	0.00	0.00
36.300	0.00	0.00
36.350	0.00	0.00
36.400	0.00	0.00
36.450	0.00	0.00
36.500	0.00	0.00
36.550	0.00	0.00
36.600	0.00	0.00
36.650	0.00	0.00
36.700	0.00	0.00
36.750	0.00	0.00

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft^3/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft^3/s)
36.800	0.00	0.00
36.850	0.00	0.00
36.900	0.00	0.00
36.950	0.00	0.00
37.000	0.00	0.00
37.050	0.00	0.00
37.100	0.00	0.00
37.150	0.00	0.00
37.200	0.00	0.00
37.250	0.00	0.00
37.300	0.00	0.00
37.350	0.00	0.00
37.400	0.00	0.00
37.450	0.00	0.00
37.500	0.00	0.00
37.550	0.00	0.00
37.600	0.00	0.00
37.650	0.00	0.00
37.700	0.00	0.00
37.750	0.00	0.00
37.800	0.00	0.00
37.850	0.00	0.00
37.900	0.00	0.00
37.950	0.00	0.00
38.000	0.00	0.00
38.050	0.00	0.00
38.100	0.00	0.00
38.150	0.00	0.00
38.200	0.00	0.00
38.250	0.00	0.00
38.300	0.00	0.00
38.350	0.00	0.00
38.400	0.00	0.00
38.450	0.00	0.00
38.500	0.00	0.00
38.550	0.00	0.00
38.600	0.00	0.00
38.650	0.00	0.00
38.700	0.00	0.00
38.750	0.00	0.00
38.800	0.00	0.00
38.850	0.00	0.00
38.900	0.00	0.00
38.950	0.00	0.00
39.000	0.00	0.00
39.050	0.00	0.00

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft^3/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft^3/s)
39.100	0.00	0.00
39.150	0.00	0.00
39.200	0.00	0.00
39.250	0.00	0.00
39.300	0.00	0.00
39.350	0.00	0.00
39.400	0.00	0.00
39.450	0.00	0.00
39.500	0.00	0.00
39.550	0.00	0.00
39.600	0.00	0.00
39.650	0.00	0.00
39.700	0.00	0.00
39.750	0.00	0.00
39.800	0.00	0.00
39.850	0.00	0.00
39.900	0.00	0.00
39.950	0.00	0.00
40.000	0.00	0.00
40.050	0.00	0.00
40.100	0.00	0.00
40.150	0.00	0.00
40.200	0.00	0.00
40.250	0.00	0.00
40.300	0.00	0.00
40.350	0.00	0.00
40.400	0.00	0.00
40.450	0.00	0.00
40.500	0.00	0.00
40.550	0.00	0.00
40.600	0.00	0.00
40.650	0.00	0.00
40.700	0.00	0.00
40.750	0.00	0.00
40.800	0.00	0.00
40.850	0.00	0.00
40.900	0.00	0.00
40.950	0.00	0.00
41.000	0.00	0.00
41.050	0.00	0.00
41.100	0.00	0.00
41.150	0.00	0.00
41.200	0.00	0.00
41.250	0.00	0.00
41.300	0.00	0.00
41.350	0.00	0.00

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft^3/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft^3/s)
41.400	0.00	0.00
41.450	0.00	0.00
41.500	0.00	0.00
41.550	0.00	0.00
41.600	0.00	0.00
41.650	0.00	0.00
41.700	0.00	0.00
41.750	0.00	0.00
41.800	0.00	0.00
41.850	0.00	0.00
41.900	0.00	0.00
41.950	0.00	0.00
42.000	0.00	0.00
42.050	0.00	0.00
42.100	0.00	0.00
42.150	0.00	0.00
42.200	0.00	0.00
42.250	0.00	0.00
42.300	0.00	0.00
42.350	0.00	0.00
42.400	0.00	0.00
42.450	0.00	0.00
42.500	0.00	0.00
42.550	0.00	0.00
42.600	0.00	0.00
42.650	0.00	0.00
42.700	0.00	0.00
42.750	0.00	0.00
42.800	0.00	0.00
42.850	0.00	0.00
42.900	0.00	0.00
42.950	0.00	0.00
43.000	0.00	0.00
43.050	0.00	0.00
43.100	0.00	0.00
43.150	0.00	0.00
43.200	0.00	0.00
43.250	0.00	0.00
43.300	0.00	0.00
43.350	0.00	0.00
43.400	0.00	0.00
43.450	0.00	0.00
43.500	0.00	0.00
43.550	0.00	0.00
43.600	0.00	0.00
43.650	0.00	0.00

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft^3/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft^3/s)
43.700	0.00	0.00
43.750	0.00	0.00
43.800	0.00	0.00
43.850	0.00	0.00
43.900	0.00	0.00
43.950	0.00	0.00
44.000	0.00	0.00
44.050	0.00	0.00
44.100	0.00	0.00
44.150	0.00	0.00
44.200	0.00	0.00
44.250	0.00	0.00
44.300	0.00	0.00
44.350	0.00	0.00
44.400	0.00	0.00
44.450	0.00	0.00
44.500	0.00	0.00
44.550	0.00	0.00
44.600	0.00	0.00
44.650	0.00	0.00
44.700	0.00	0.00
44.750	0.00	0.00
44.800	0.00	0.00
44.850	0.00	0.00
44.900	0.00	0.00
44.950	0.00	0.00
45.000	0.00	0.00
45.050	0.00	0.00
45.100	0.00	0.00
45.150	0.00	0.00
45.200	0.00	0.00
45.250	0.00	0.00
45.300	0.00	0.00
45.350	0.00	0.00
45.400	0.00	0.00
45.450	0.00	0.00
45.500	0.00	0.00
45.550	0.00	0.00
45.600	0.00	0.00
45.650	0.00	0.00
45.700	0.00	0.00
45.750	0.00	0.00
45.800	0.00	0.00
45.850	0.00	0.00
45.900	0.00	0.00
45.950	0.00	0.00

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft^3/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft^3/s)
46.000	0.00	0.00
46.050	0.00	0.00
46.100	0.00	0.00
46.150	0.00	0.00
46.200	0.00	0.00
46.250	0.00	0.00
46.300	0.00	0.00
46.350	0.00	0.00
46.400	0.00	0.00
46.450	0.00	0.00
46.500	0.00	0.00
46.550	0.00	0.00
46.600	0.00	0.00
46.650	0.00	0.00
46.700	0.00	0.00
46.750	0.00	0.00
46.800	0.00	0.00
46.850	0.00	0.00
46.900	0.00	0.00
46.950	0.00	0.00
47.000	0.00	0.00
47.050	0.00	0.00
47.100	0.00	0.00
47.150	0.00	0.00
47.200	0.00	0.00
47.250	0.00	0.00
47.300	0.00	0.00
47.350	0.00	0.00
47.400	0.00	0.00
47.450	0.00	0.00
47.500	0.00	0.00
47.550	0.00	0.00
47.600	0.00	0.00
47.650	0.00	0.00
47.700	0.00	0.00
47.750	0.00	0.00
47.800	0.00	0.00
47.850	0.00	0.00
47.900	0.00	0.00
47.950	0.00	0.00
48.000	0.00	0.00
48.050	0.00	0.00
48.100	0.00	0.00
48.150	0.00	0.00
48.200	0.00	0.00
48.250	0.00	0.00

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft^3/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft^3/s)
48.300	0.00	0.00
48.350	0.00	0.00
48.400	0.00	0.00
48.450	0.00	0.00
48.500	0.00	0.00
48.550	0.00	0.00
48.600	0.00	0.00
48.650	0.00	0.00
48.700	0.00	0.00
48.750	0.00	0.00
48.800	0.00	0.00
48.850	0.00	0.00
48.900	0.00	0.00
48.950	0.00	0.00
49.000	0.00	0.00
49.050	0.00	0.00
49.100	0.00	0.00
49.150	0.00	0.00
49.200	0.00	0.00
49.250	0.00	0.00
49.300	0.00	0.00
49.350	0.00	0.00
49.400	0.00	0.00
49.450	0.00	0.00
49.500	0.00	0.00
49.550	0.00	0.00
49.600	0.00	0.00
49.650	0.00	0.00
49.700	0.00	0.00
49.750	0.00	0.00
49.800	0.00	0.00
49.850	0.00	0.00
49.900	0.00	0.00
49.950	0.00	0.00
50.000	0.00	0.00
50.050	0.00	0.00
50.100	0.00	0.00
50.150	0.00	0.00
50.200	0.00	0.00
50.250	0.00	0.00
50.300	0.00	0.00
50.350	0.00	0.00
50.400	0.00	0.00
50.450	0.00	0.00
50.500	0.00	0.00
50.550	0.00	0.00

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft^3/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft^3/s)
50.600	0.00	0.00
50.650	0.00	0.00
50.700	0.00	0.00
50.750	0.00	0.00
50.800	0.00	0.00
50.850	0.00	0.00
50.900	0.00	0.00
50.950	0.00	0.00
51.000	0.00	0.00
51.050	0.00	0.00
51.100	0.00	0.00
51.150	0.00	0.00
51.200	0.00	0.00
51.250	0.00	0.00
51.300	0.00	0.00
51.350	0.00	0.00
51.400	0.00	0.00
51.450	0.00	0.00
51.500	0.00	0.00
51.550	0.00	0.00
51.600	0.00	0.00
51.650	0.00	0.00
51.700	0.00	0.00
51.750	0.00	0.00
51.800	0.00	0.00
51.850	0.00	0.00
51.900	0.00	0.00
51.950	0.00	0.00
52.000	0.00	0.00
52.050	0.00	0.00
52.100	0.00	0.00
52.150	0.00	0.00
52.200	0.00	0.00
52.250	0.00	0.00
52.300	0.00	0.00
52.350	0.00	0.00
52.400	0.00	0.00
52.450	0.00	0.00
52.500	0.00	0.00
52.550	0.00	0.00
52.600	0.00	0.00
52.650	0.00	0.00
52.700	0.00	0.00
52.750	0.00	0.00
52.800	0.00	0.00
52.850	0.00	0.00

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft^3/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft^3/s)
52.900	0.00	0.00
52.950	0.00	0.00
53.000	0.00	0.00
53.050	0.00	0.00
53.100	0.00	0.00
53.150	0.00	0.00
53.200	0.00	0.00
53.250	0.00	0.00
53.300	0.00	0.00
53.350	0.00	0.00
53.400	0.00	0.00
53.450	0.00	0.00
53.500	0.00	0.00
53.550	0.00	0.00
53.600	0.00	0.00
53.650	0.00	0.00
53.700	0.00	0.00
53.750	0.00	0.00
53.800	0.00	0.00
53.850	0.00	0.00
53.900	0.00	0.00
53.950	0.00	0.00
54.000	0.00	0.00
54.050	0.00	0.00
54.100	0.00	0.00
54.150	0.00	0.00
54.200	0.00	0.00
54.250	0.00	0.00
54.300	0.00	0.00
54.350	0.00	0.00
54.400	0.00	0.00
54.450	0.00	0.00
54.500	0.00	0.00
54.550	0.00	0.00
54.600	0.00	0.00
54.650	0.00	0.00
54.700	0.00	0.00
54.750	0.00	0.00
54.800	0.00	0.00
54.850	0.00	0.00
54.900	0.00	0.00
54.950	0.00	0.00
55.000	0.00	0.00
55.050	0.00	0.00
55.100	0.00	0.00
55.150	0.00	0.00

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft^3/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft^3/s)
55.200	0.00	0.00
55.250	0.00	0.00
55.300	0.00	0.00
55.350	0.00	0.00
55.400	0.00	0.00
55.450	0.00	0.00
55.500	0.00	0.00
55.550	0.00	0.00
55.600	0.00	0.00
55.650	0.00	0.00
55.700	0.00	0.00
55.750	0.00	0.00
55.800	0.00	0.00
55.850	0.00	0.00
55.900	0.00	0.00
55.950	0.00	0.00
56.000	0.00	0.00
56.050	0.00	0.00
56.100	0.00	0.00
56.150	0.00	0.00
56.200	0.00	0.00
56.250	0.00	0.00
56.300	0.00	0.00
56.350	0.00	0.00
56.400	0.00	0.00
56.450	0.00	0.00
56.500	0.00	0.00
56.550	0.00	0.00
56.600	0.00	0.00
56.650	0.00	0.00
56.700	0.00	0.00
56.750	0.00	0.00
56.800	0.00	0.00
56.850	0.00	0.00
56.900	0.00	0.00
56.950	0.00	0.00
57.000	0.00	0.00
57.050	0.00	0.00
57.100	0.00	0.00
57.150	0.00	0.00
57.200	0.00	0.00
57.250	0.00	0.00
57.300	0.00	0.00
57.350	0.00	0.00
57.400	0.00	0.00
57.450	0.00	0.00

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft^3/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft^3/s)
57.500	0.00	0.00
57.550	0.00	0.00
57.600	0.00	0.00
57.650	0.00	0.00
57.700	0.00	0.00
57.750	0.00	0.00
57.800	0.00	0.00
57.850	0.00	0.00
57.900	0.00	0.00
57.950	0.00	0.00
58.000	0.00	0.00
58.050	0.00	0.00
58.100	0.00	0.00
58.150	0.00	0.00
58.200	0.00	0.00
58.250	0.00	0.00
58.300	0.00	0.00
58.350	0.00	0.00
58.400	0.00	0.00
58.450	0.00	0.00
58.500	0.00	0.00
58.550	0.00	0.00
58.600	0.00	0.00
58.650	0.00	0.00
58.700	0.00	0.00
58.750	0.00	0.00
58.800	0.00	0.00
58.850	0.00	0.00
58.900	0.00	0.00
58.950	0.00	0.00
59.000	0.00	0.00
59.050	0.00	0.00
59.100	0.00	0.00
59.150	0.00	0.00
59.200	0.00	0.00
59.250	0.00	0.00
59.300	0.00	0.00
59.350	0.00	0.00
59.400	0.00	0.00
59.450	0.00	0.00
59.500	0.00	0.00
59.550	0.00	0.00
59.600	0.00	0.00
59.650	0.00	0.00
59.700	0.00	0.00
59.750	0.00	0.00

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft^3/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft^3/s)
59.800	0.00	0.00
59.850	0.00	0.00
59.900	0.00	0.00
59.950	0.00	0.00
60.000	0.00	0.00
60.050	0.00	0.00
60.100	0.00	0.00
60.150	0.00	0.00
60.200	0.00	0.00
60.250	0.00	0.00
60.300	0.00	0.00
60.350	0.00	0.00
60.400	0.00	0.00
60.450	0.00	0.00
60.500	0.00	0.00
60.550	0.00	0.00
60.600	0.00	0.00
60.650	0.00	0.00
60.700	0.00	0.00
60.750	0.00	0.00
60.800	0.00	0.00
60.850	0.00	0.00
60.900	0.00	0.00
60.950	0.00	0.00
61.000	0.00	0.00
61.050	0.00	0.00
61.100	0.00	0.00
61.150	0.00	0.00
61.200	0.00	0.00
61.250	0.00	0.00
61.300	0.00	0.00
61.350	0.00	0.00
61.400	0.00	0.00
61.450	0.00	0.00
61.500	0.00	0.00
61.550	0.00	0.00
61.600	0.00	0.00
61.650	0.00	0.00
61.700	0.00	0.00
61.750	0.00	0.00
61.800	0.00	0.00
61.850	0.00	0.00
61.900	0.00	0.00
61.950	0.00	0.00
62.000	0.00	0.00
62.050	0.00	0.00

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft^3/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft^3/s)
62.100	0.00	0.00
62.150	0.00	0.00
62.200	0.00	0.00
62.250	0.00	0.00
62.300	0.00	0.00
62.350	0.00	0.00
62.400	0.00	0.00
62.450	0.00	0.00
62.500	0.00	0.00
62.550	0.00	0.00
62.600	0.00	0.00
62.650	0.00	0.00
62.700	0.00	0.00
62.750	0.00	0.00
62.800	0.00	0.00
62.850	0.00	0.00
62.900	0.00	0.00
62.950	0.00	0.00
63.000	0.00	0.00
63.050	0.00	0.00
63.100	0.00	0.00
63.150	0.00	0.00
63.200	0.00	0.00
63.250	0.00	0.00
63.300	0.00	0.00
63.350	0.00	0.00
63.400	0.00	0.00
63.450	0.00	0.00
63.500	0.00	0.00
63.550	0.00	0.00
63.600	0.00	0.00
63.650	0.00	0.00
63.700	0.00	0.00
63.750	0.00	0.00
63.800	0.00	0.00
63.850	0.00	0.00
63.900	0.00	0.00
63.950	0.00	0.00
64.000	0.00	0.00
64.050	0.00	0.00
64.100	0.00	0.00
64.150	0.00	0.00
64.200	0.00	0.00
64.250	0.00	0.00
64.300	0.00	0.00
64.350	0.00	0.00

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft^3/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft^3/s)
64.400	0.00	0.00
64.450	0.00	0.00
64.500	0.00	0.00
64.550	0.00	0.00
64.600	0.00	0.00
64.650	0.00	0.00
64.700	0.00	0.00
64.750	0.00	0.00
64.800	0.00	0.00
64.850	0.00	0.00
64.900	0.00	0.00
64.950	0.00	0.00
65.000	0.00	0.00
65.050	0.00	0.00
65.100	0.00	0.00
65.150	0.00	0.00
65.200	0.00	0.00
65.250	0.00	0.00
65.300	0.00	0.00
65.350	0.00	0.00
65.400	0.00	0.00
65.450	0.00	0.00
65.500	0.00	0.00
65.550	0.00	0.00
65.600	0.00	0.00
65.650	0.00	0.00
65.700	0.00	0.00
65.750	0.00	0.00
65.800	0.00	0.00
65.850	0.00	0.00
65.900	0.00	0.00
65.950	0.00	0.00
66.000	0.00	0.00
66.050	0.00	0.00
66.100	0.00	0.00
66.150	0.00	0.00
66.200	0.00	0.00
66.250	0.00	0.00
66.300	0.00	0.00
66.350	0.00	0.00
66.400	0.00	0.00
66.450	0.00	0.00
66.500	0.00	0.00
66.550	0.00	0.00
66.600	0.00	0.00
66.650	0.00	0.00

Graph Data Table - New Graph

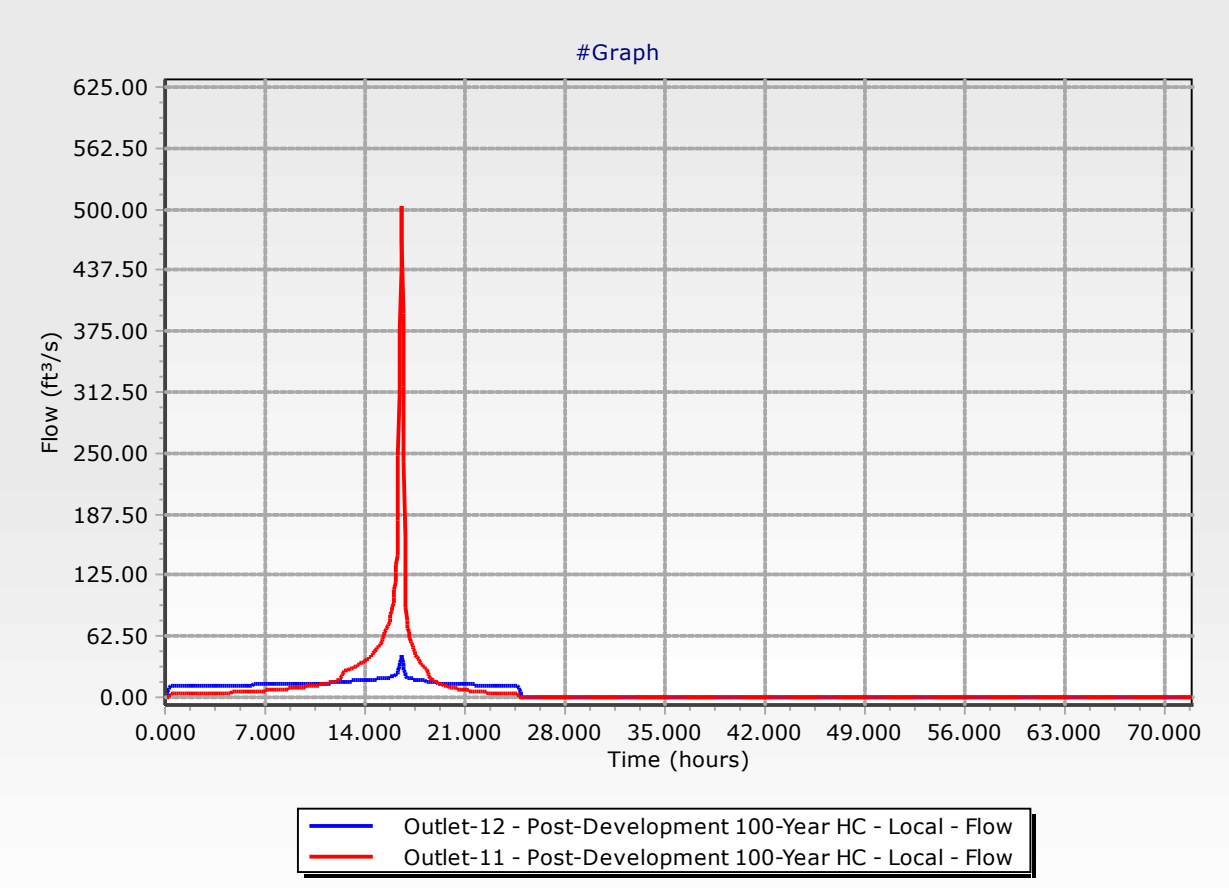
Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft^3/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft^3/s)
66.700	0.00	0.00
66.750	0.00	0.00
66.800	0.00	0.00
66.850	0.00	0.00
66.900	0.00	0.00
66.950	0.00	0.00
67.000	0.00	0.00
67.050	0.00	0.00
67.100	0.00	0.00
67.150	0.00	0.00
67.200	0.00	0.00
67.250	0.00	0.00
67.300	0.00	0.00
67.350	0.00	0.00
67.400	0.00	0.00
67.450	0.00	0.00
67.500	0.00	0.00
67.550	0.00	0.00
67.600	0.00	0.00
67.650	0.00	0.00
67.700	0.00	0.00
67.750	0.00	0.00
67.800	0.00	0.00
67.850	0.00	0.00
67.900	0.00	0.00
67.950	0.00	0.00
68.000	0.00	0.00
68.050	0.00	0.00
68.100	0.00	0.00
68.150	0.00	0.00
68.200	0.00	0.00
68.250	0.00	0.00
68.300	0.00	0.00
68.350	0.00	0.00
68.400	0.00	0.00
68.450	0.00	0.00
68.500	0.00	0.00
68.550	0.00	0.00
68.600	0.00	0.00
68.650	0.00	0.00
68.700	0.00	0.00
68.750	0.00	0.00
68.800	0.00	0.00
68.850	0.00	0.00
68.900	0.00	0.00
68.950	0.00	0.00

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft^3/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft^3/s)
69.000	0.00	0.00
69.050	0.00	0.00
69.100	0.00	0.00
69.150	0.00	0.00
69.200	0.00	0.00
69.250	0.00	0.00
69.300	0.00	0.00
69.350	0.00	0.00
69.400	0.00	0.00
69.450	0.00	0.00
69.500	0.00	0.00
69.550	0.00	0.00
69.600	0.00	0.00
69.650	0.00	0.00
69.700	0.00	0.00
69.750	0.00	0.00
69.800	0.00	0.00
69.850	0.00	0.00
69.900	0.00	0.00
69.950	0.00	0.00
70.000	0.00	0.00
70.050	0.00	0.00
70.100	0.00	0.00
70.150	0.00	0.00
70.200	0.00	0.00
70.250	0.00	0.00
70.300	0.00	0.00
70.350	0.00	0.00
70.400	0.00	0.00
70.450	0.00	0.00
70.500	0.00	0.00
70.550	0.00	0.00
70.600	0.00	0.00
70.650	0.00	0.00
70.700	0.00	0.00
70.750	0.00	0.00
70.800	0.00	0.00
70.850	0.00	0.00
70.900	0.00	0.00
70.950	0.00	0.00
71.000	0.00	0.00
71.050	0.00	0.00
71.100	0.00	0.00
71.150	0.00	0.00
71.200	0.00	0.00
71.250	0.00	0.00

Graph Data Table - New Graph

Time (hours)	Outlet-12 - Post-Development 100-Year HC - Local - Flow (ft³/s)	Outlet-11 - Post-Development 100-Year HC - Local - Flow (ft³/s)
71.300	0.00	0.00
71.350	0.00	0.00
71.400	0.00	0.00
71.450	0.00	0.00
71.500	0.00	0.00
71.550	0.00	0.00
71.600	0.00	0.00
71.650	0.00	0.00
71.700	0.00	0.00
71.750	0.00	0.00
71.800	0.00	0.00
71.850	0.00	0.00
71.900	0.00	0.00
71.950	0.00	0.00
72.000	0.00	0.00



PondPack B Basin Link Summary

Element Summary	
Number of External Inflows	1
Number of Basins	4

Outlet Structure Summary

Name	Type	Shape	Outlet To	Elevation	Diameter (ft)
Outfall 11	Culvert	Circular	San Juan Creek	N/A	4.00
Outlet Structure 3B-1					
Culvert – 1	Culvert	Circular	San Juan Creek	277.00	3.00
Orifice – 1	Orifice	Circular	San Juan Creek	281.00	0.50
Orifice – 2	Orifice	Circular	San Juan Creek	282.00	2.00
Riser – 1	Inlet Box	Box	San Juan Creek	285.00	3.00 x 3.00
Weir – 1	Weir	Rectangular	San Juan Creek	288.00	50.00 x 1.00
Outlet Structure 3B-1					
Culvert – 1	Culvert	Circular	3B-2	280.00	2.00
Outlet Structure 3B-2					
Culvert – 1	Culvert	Circular	3B-4	287.00	1.50
Orifice	Orifice	Circular	3B-4	N/A	0.08
Riser – 1	Riser	Circular	3B-4	285.00	1.50
Outlet Structure 3B-2					
Weir – 1	Weir	Rectangular	3B-4	288.00	50.00 x 1.00
Outlet Structure 3B-4					
Culvert – 1	Culvert	Circular	San Juan Creek	248.00	4.00
Orifice – 1	Orifice	Circular	San Juan Creek	252.10	0.83
Orifice – 2	Orifice	Circular	San Juan Creek	257.50	1.50
Riser – 1	Inlet Box	Box	San Juan Creek	262.00	3.00 x3.00
Weir – 1	Weir	Rectangular	San Juan Creek	274.00	100.00 x 2.00
Outlet Structure 3B-5					
Culvert – 1	Culvert	Circular	San Juan Creek	243.00	1.50
Riser – 1	Riser	Circular	San Juan Creek		1.50

Notes

1. Weirs are emergency spillways for basins.
2. Outlet Structure 3B-2 has a perforated riser with three 1” holes every 6”, it is show as orifice in the summary table above.