

**Plum Creek FRS No. 21 SITES Summary Table, Final Rehabilitation Design**

SITES Parameter	Plum Creek FRS No. 21 PSH	Plum Creek FRS No. 21 PSH	Plum Creek FRS No. 21 6-Hr FBH	Plum Creek FRS No. 21 24-Hr FBH
Run Description	100YR PSH with conduit only. Includes 42-inch conduit with weir crest at 500.7 ft (100-YR Sed Storage). Peak WSE is 0.19 ft above RCC crest elev.	100YR PSH. Includes 42-inch conduit with weir crest at 500.7 ft. Structural crest is at 518.9 ft. Combined conduit and RCC rating curve evaluated.	FRS No. 21 6-HR FBH. Includes 42-inch conduit with crest at 500.7 ft and 300-ft wide auxiliary structural spillway at elev. 518.9 ft.	FRS No. 21 24-HR FBH. Includes 42-inch conduit with crest at 500.7 ft and 300-ft wide auxiliary structural spillway at elev. 518.9 ft. Run sets TOD elev at 526.7 ft.
Site Identification	21	21	21	21
Watershed Runoff Curve Number	73	73	73	73
Total Watershed Drainage Area (Sq.Miles)	8.63	8.63	8.63	8.63
Watershed Time of Concentration (Hours)	3.26	3.26	3.26	3.26
SDH Rainfall Total (Inches)	N/A	N/A	14.07	N/A
SDH Rainfall Duration (Hours)	N/A	N/A	6	N/A
FBH or Storm Rainfall Total (Inches)	N/A	N/A	27.2	44.3
FBH or Storm Rainfall Duration (Hours)	N/A	N/A	6	24
SDH Inflow Peak (CFS)	N/A	N/A	14508.4	N/A
FBH or Storm Inflow Peak (CFS)	N/A	N/A	32453	23954.2
Initial Reservoir Elevation (Feet)	502.07	501.99	502.07	502.07
Maximum WS SDH (Feet)	N/A	N/A	520.92	N/A
Maximum WS FBH or Storm (Feet)	N/A	N/A	525.78	526.67
Storage at Max. WS FBH or Storm (Ac-Ft)	N/A	N/A	6574.7	7040.7
Top Dam (Feet)	N/A	N/A	525.78	526.67
Storage, Top Dam (Acre-Ft)	N/A	N/A	6574	7039
Emb. Yardage (CY)	N/A	N/A	N/A	N/A
PSH Drawdown (Days)	8.45	8.44	N/A	N/A
378 Drawdown (Days)	N/A	N/A	N/A	N/A
PS Crest (Feet)	500.7	500.7	500.7	500.7
PS Number of Conduits	1	N/A	N/A	N/A
PS Conduit Diameter (Inches)	42	N/A	N/A	N/A
PS Conduit Height (Feet)	N/A	N/A	N/A	N/A
PS Conduit Width (Feet)	N/A	N/A	N/A	N/A
PS Conduit Area (Sq. Feet)	9.62	N/A	N/A	N/A
Storage, PS Crest (Acre-Ft)	154	154	154	154
PS Discharge at AS Crest (CFS)	227.5	313.3	226.7	226.7
PS Discharge for SDH (CFS)	N/A	N/A	234.9	N/A
PS Discharge FBH or Storm (CFS)	N/A	N/A	253.5	256.8
AS Crest (Feet)	519.09	519.06	518.9	518.9
Storage, AS Crest (Acre-Ft)	3652.3	3631	3573.6	3573.6
AS Width (Feet)	N/A	N/A	N/A	N/A
AS Exit Slope (%)	N/A	N/A	N/A	N/A
AS Ret. Curve Index	N/A	N/A	N/A	N/A
AS Veg. Cover Factor	N/A	N/A	N/A	N/A
AS Maintenance Code	N/A	N/A	N/A	N/A
AS Max. Head SDH (Feet)	N/A	N/A	2.02	N/A
AS Peak Discharge SDH/Storm (CFS)	N/A	N/A	N/A	N/A
AS Exit Velocity SDH or Storm (Ft/S)	N/A	N/A	N/A	N/A
AS Stress SDH or Storm (Lb./Sq.Ft.)	N/A	N/A	N/A	N/A
Hp FBH or Storm (Feet)	N/A	N/A	6.88	7.77
AS Peak Discharge FBH/Storm (CFS)	N/A	N/A	15788	18957
AS Integ. Dist. FBH or Storm (Feet)	N/A	N/A	N/A	N/A
Oe/B FBH or Storm (Acre-Ft/Ft)	N/A	N/A	N/A	N/A
Uncontrolled Drainage Area (Sq.Miles)	8.63	8.63	8.63	8.63
Number of Errors	0	0	0	0
Number of Warnings	0	0	0	0