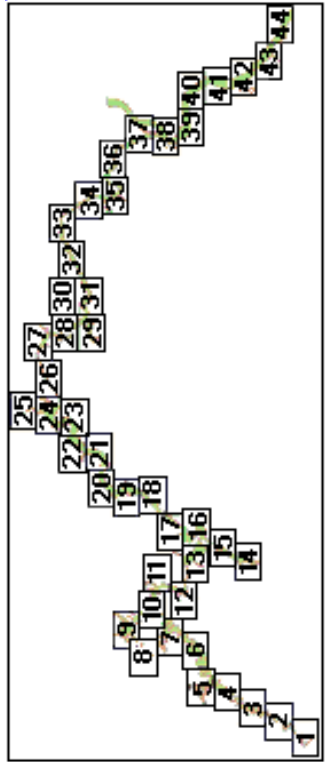
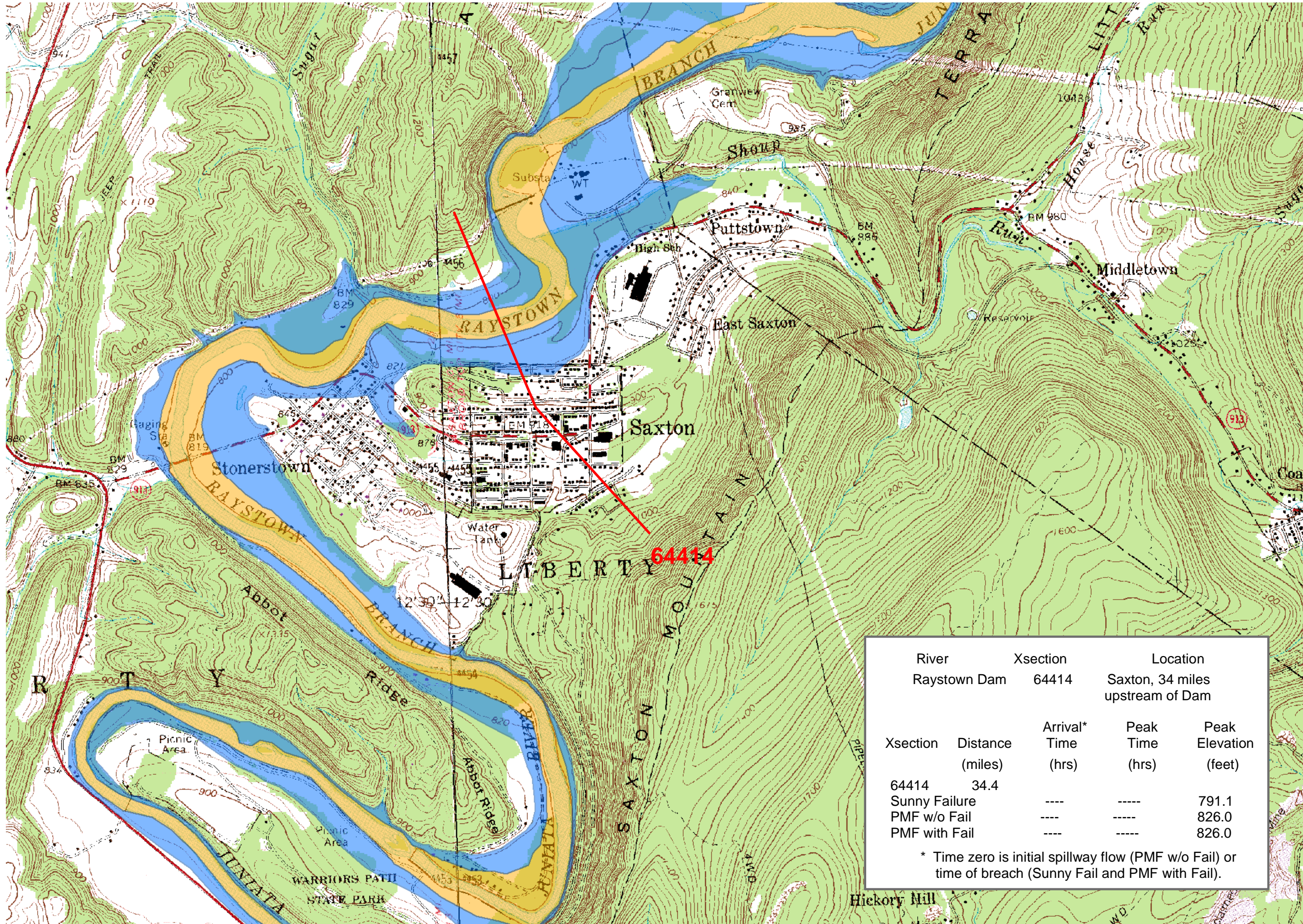


Raystown Plate Locations

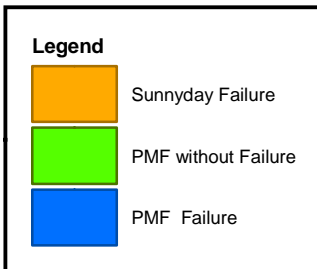
matches plate 2



River	Xsection	Location		
Raystown Dam	64414	Saxton, 34 miles upstream of Dam		
Xsection	Distance (miles)	Arrival* (hrs)	Peak Time (hrs)	Peak Elevation (feet)
64414	34.4			
Sunny Failure		----	----	791.1
PMF w/o Fail		----	----	826.0
PMF with Fail		----	----	826.0

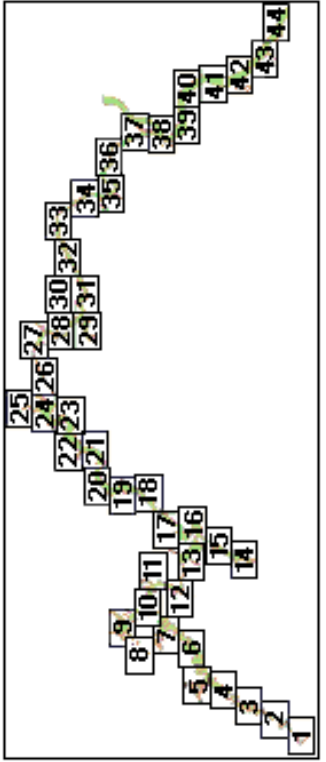
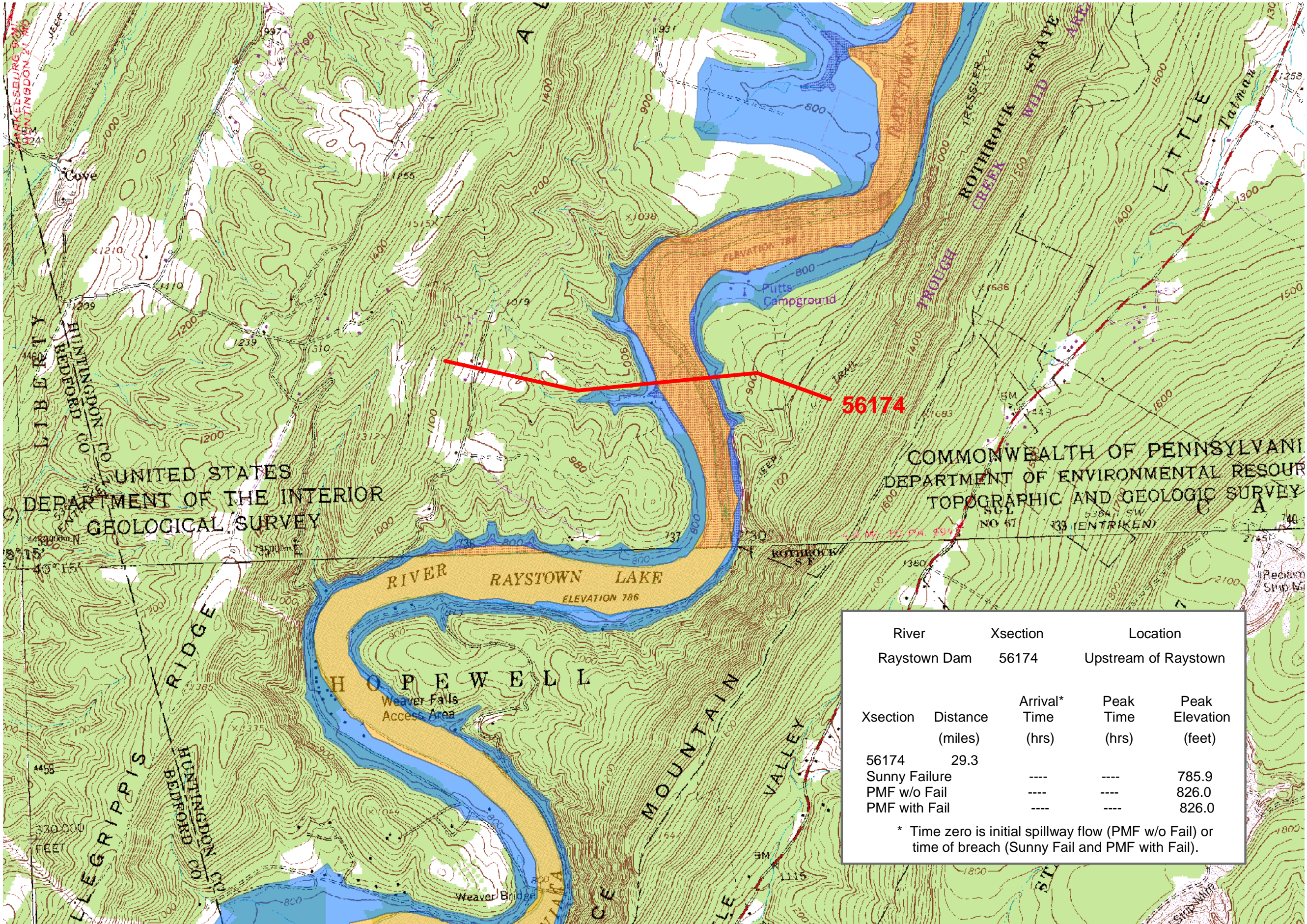
\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).

### Plate 1



end of study

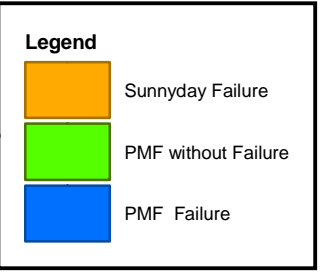
matches plate 3



River	Xsection	Location		
Raystown Dam	56174	Upstream of Raystown		
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)
56174	29.3			
Sunny Failure		---	---	785.9
PMF w/o Fail		---	---	826.0
PMF with Fail		---	---	826.0

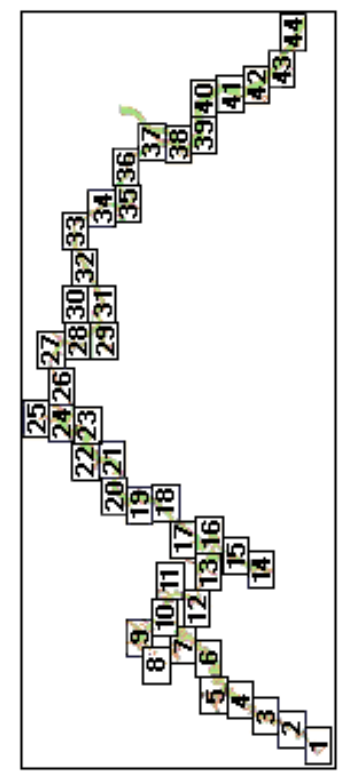
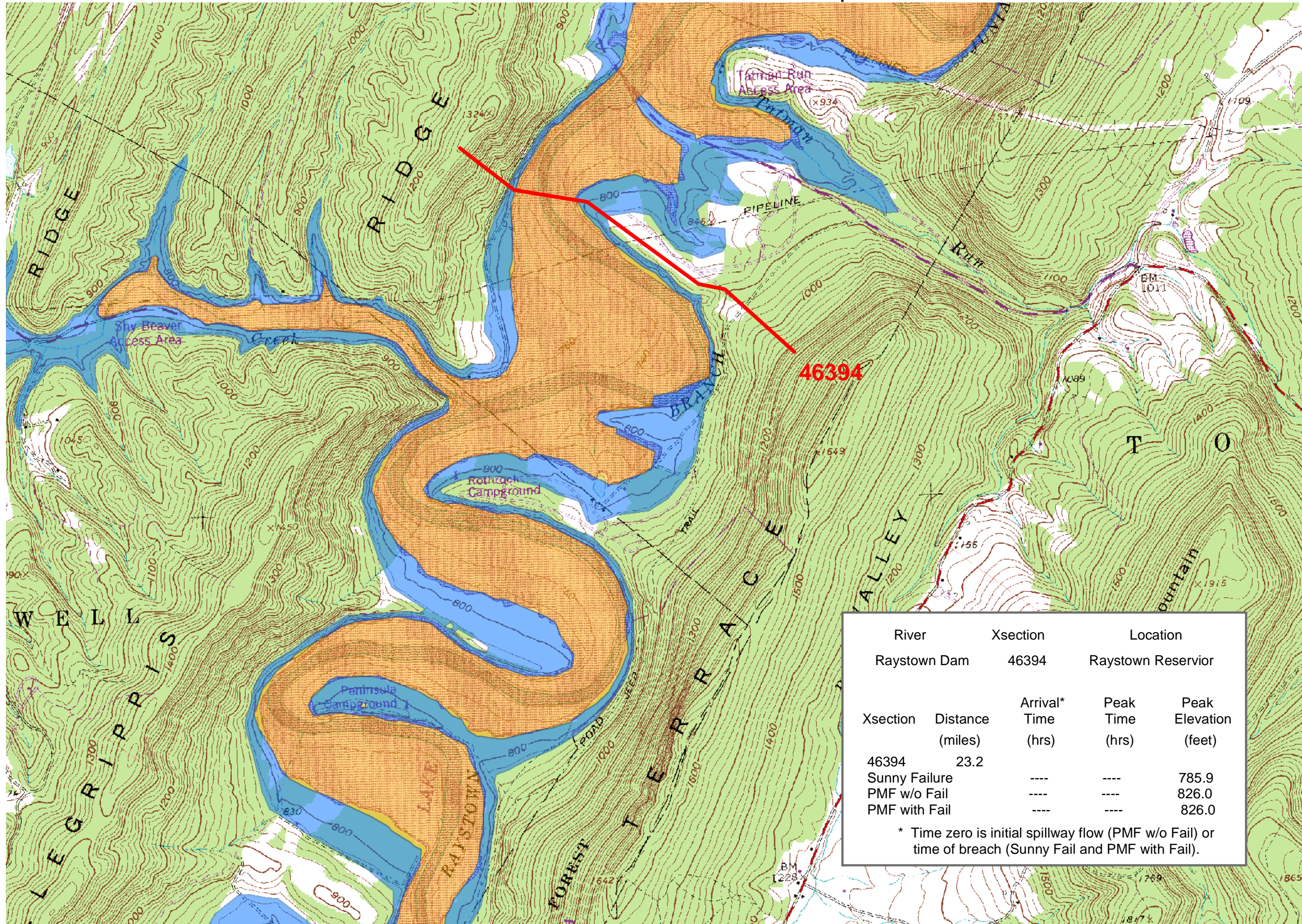
\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).

### Plate 2



matches plate 1

matches plate 4



River	Xsection	Location		
Raystown Dam	46394	Raystown Reservoir		
Xsection	Distance (miles)	Arrival* (hrs)	Peak Time (hrs)	Peak Elevation (feet)
46394	23.2			
Sunny Failure		----	----	785.9
PMF w/o Fail		----	----	826.0
PMF with Fail		----	----	826.0

\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).

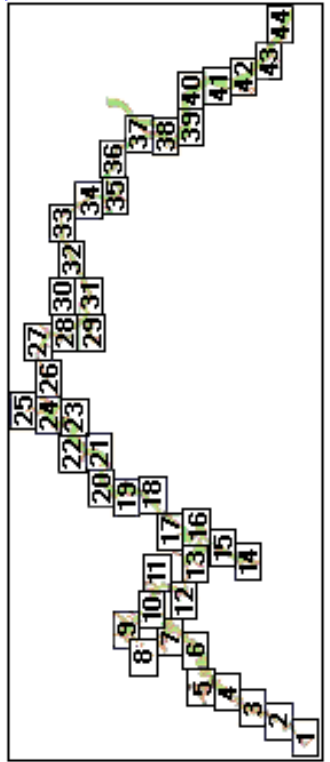
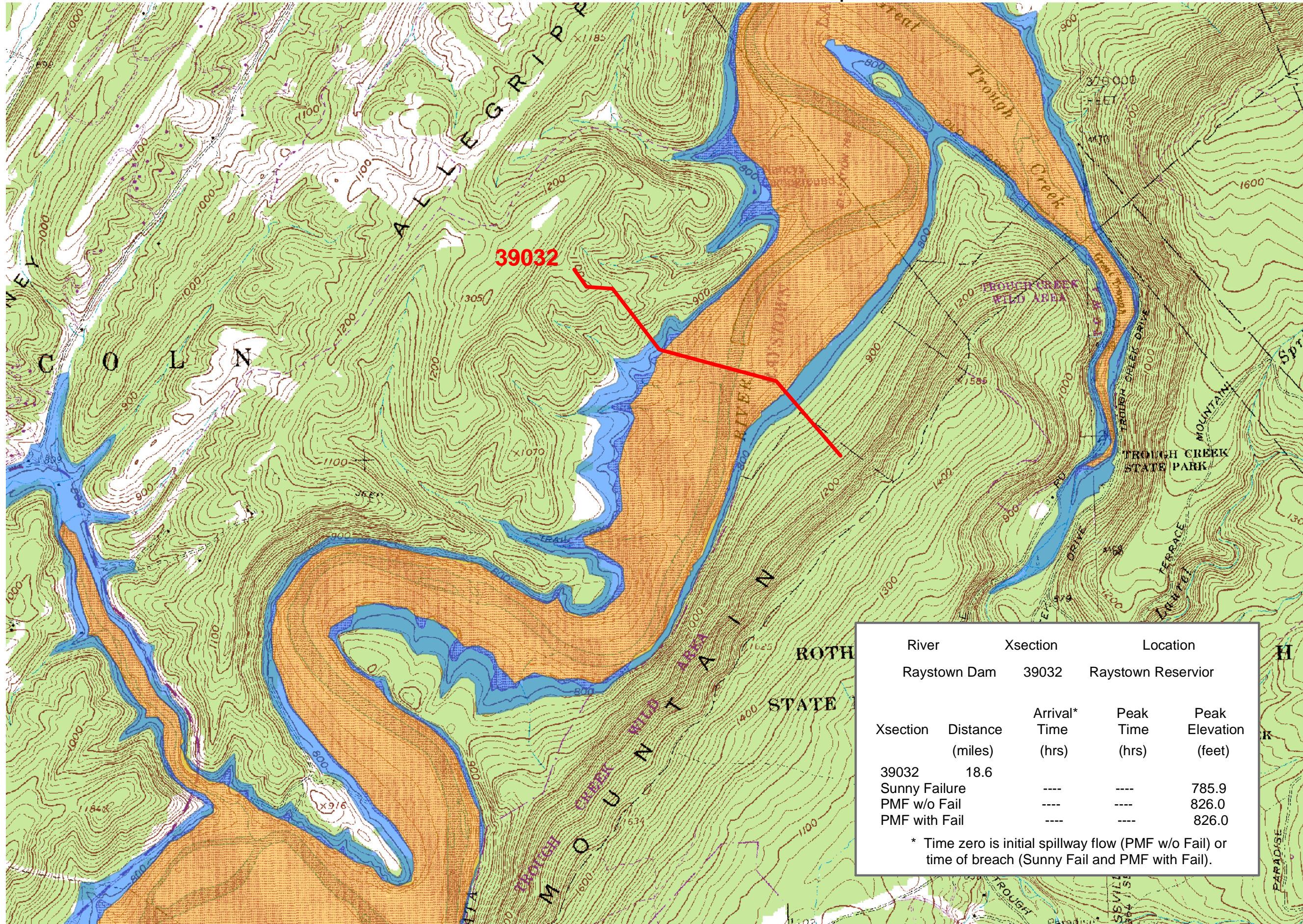
### Plate 3

**Legend**

- Sunnyday Failure
- PMF without Failure
- PMF Failure

matches plate 2

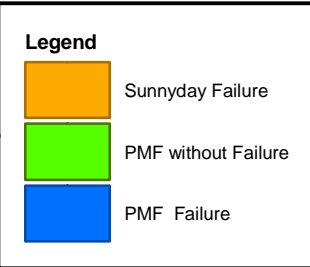
matches plate 5



River	Xsection	Location		
Raystown Dam	39032	Raystown Reservoir		
Xsection	Distance (miles)	Arrival* (hrs)	Peak Time (hrs)	Peak Elevation (feet)
39032	18.6			
Sunny Failure		----	----	785.9
PMF w/o Fail		----	----	826.0
PMF with Fail		----	----	826.0

\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).

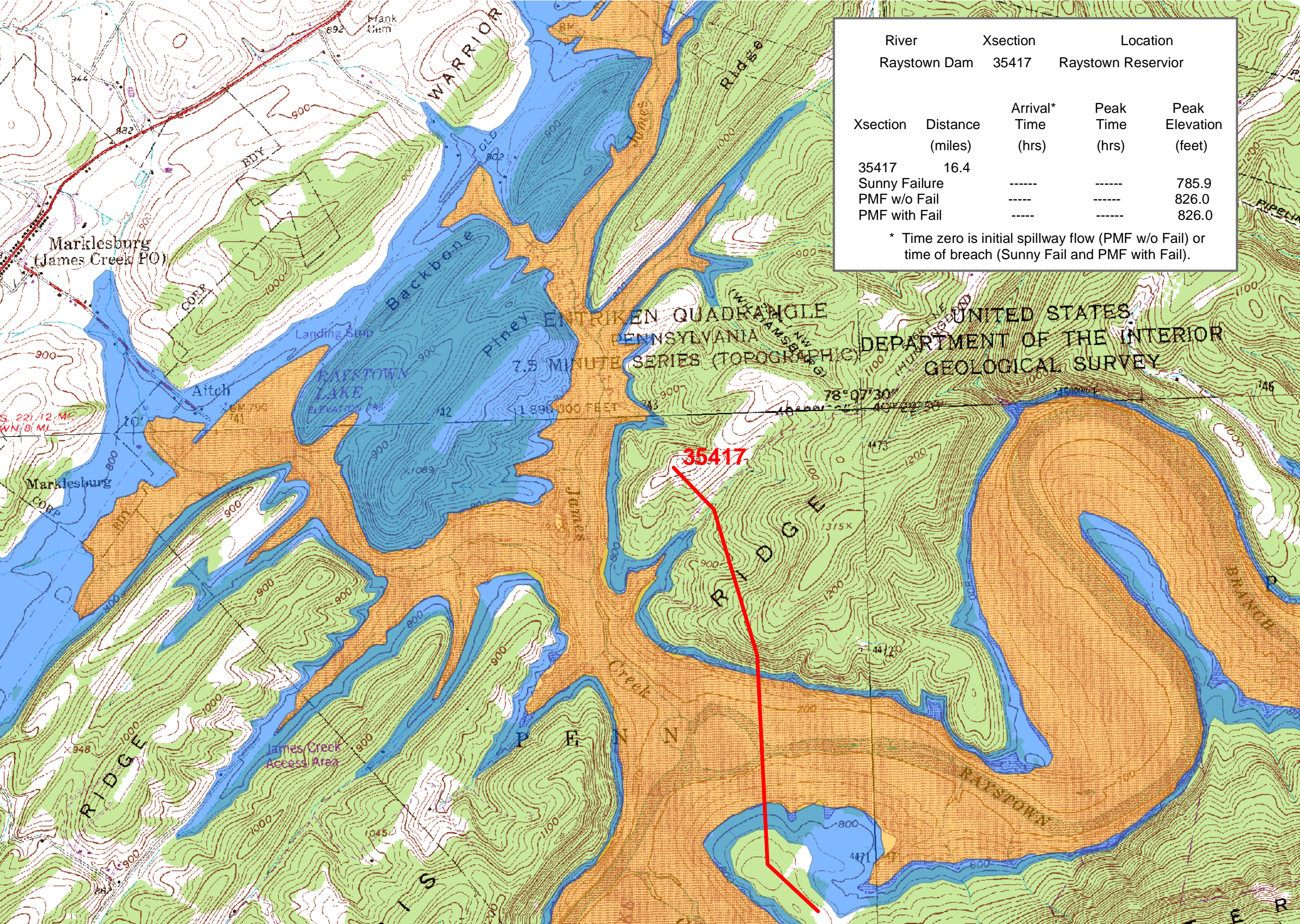
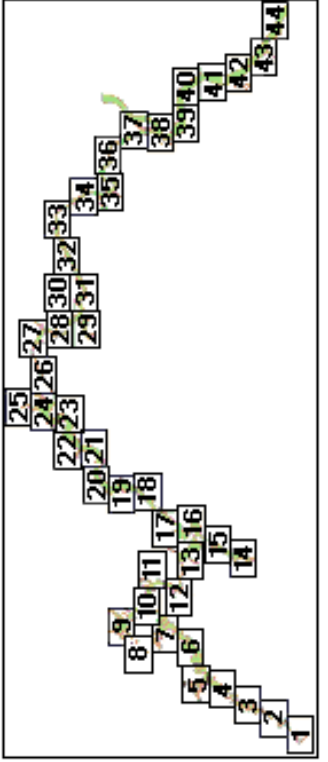
### Plate 4



matches plate 3

River	Xsection	Location		
Raystown Dam	35417	Raystown Reservoir		
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)
35417	16.4			
Sunny Failure		-----	-----	785.9
PMF w/o Fail		-----	-----	826.0
PMF with Fail		-----	-----	826.0

\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).



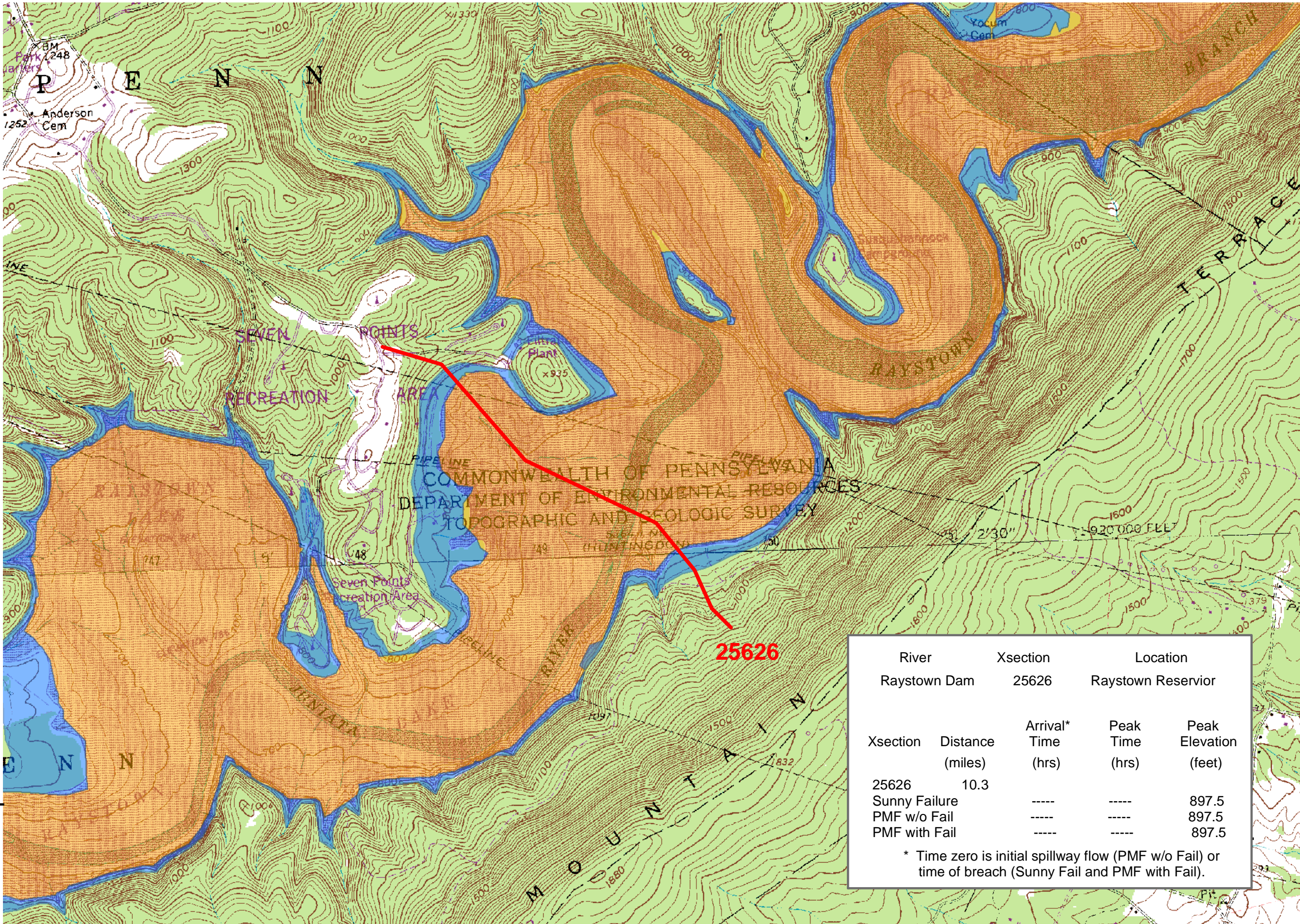
matches plate 6

**Plate 5**

**Legend**

- Sunnyday Failure
- PMF without Failure
- PMF Failure

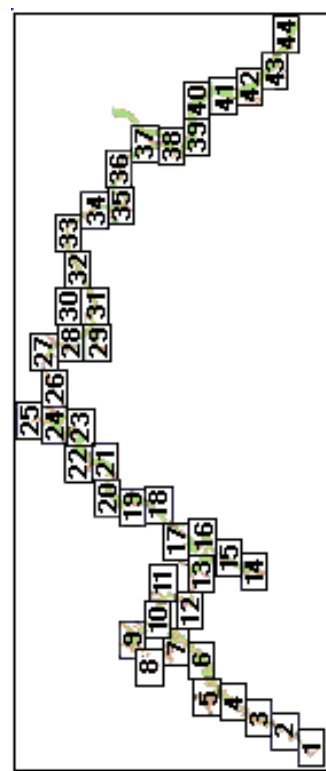
matches plate 4



matches plate 5

River	Xsection	Location		
Raystown Dam	25626	Raystown Reservoir		
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)
25626	10.3			
Sunny Failure		----	----	897.5
PMF w/o Fail		----	----	897.5
PMF with Fail		----	----	897.5

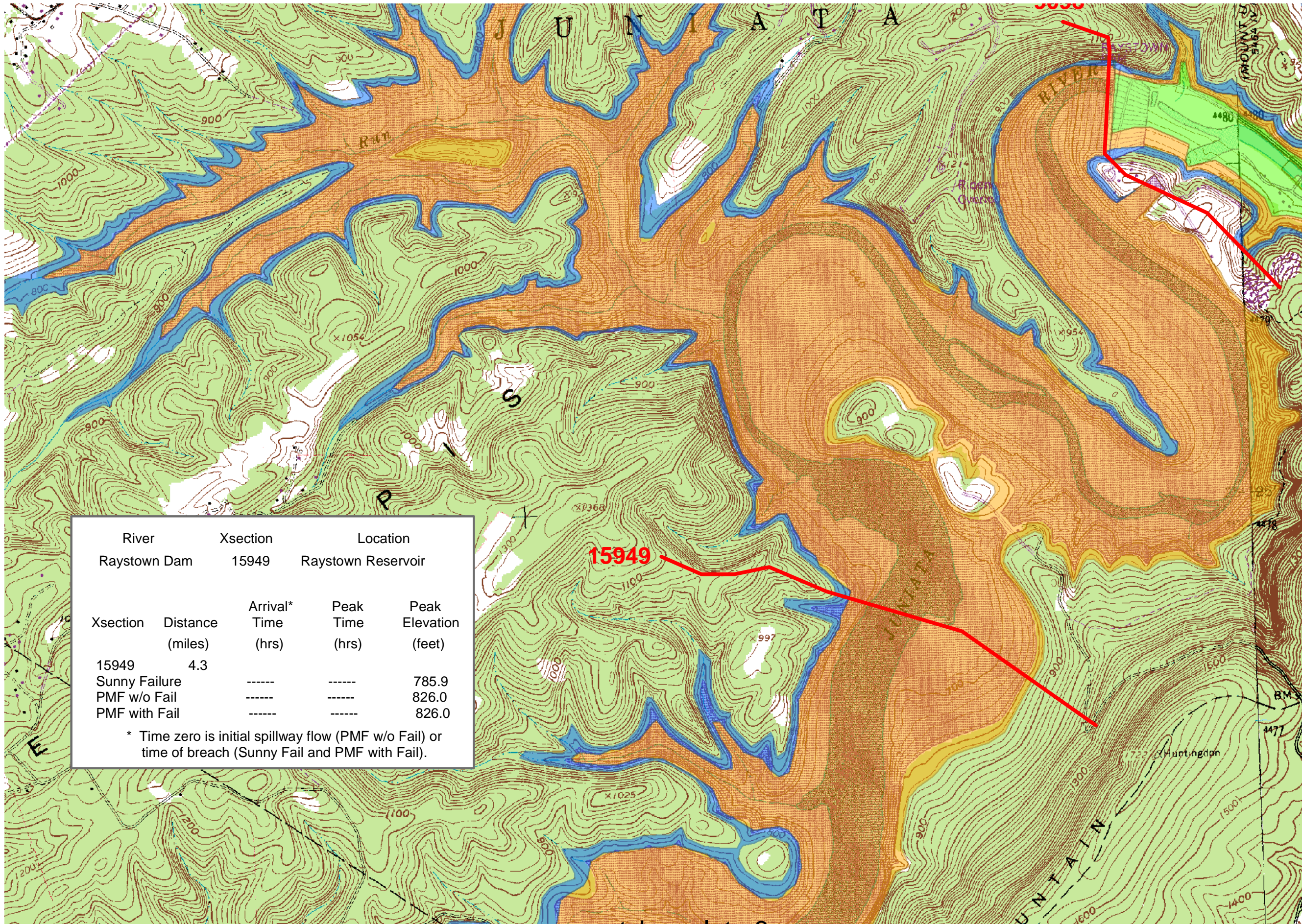
\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).



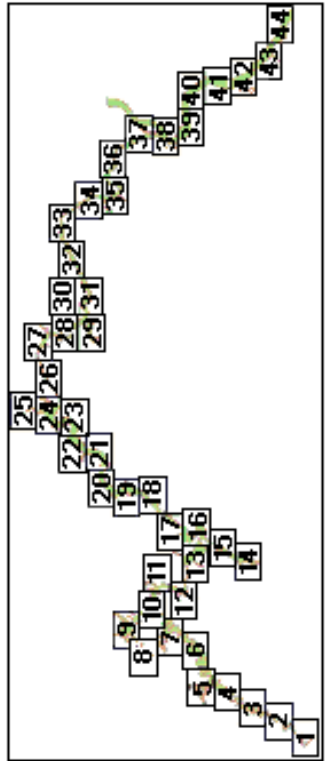
### Plate 6

**Legend**

- Sunnyday Failure
- PMF without Failure
- PMF Failure



matches plate 10



River	Xsection	Location		
Raystown Dam	15949	Raystown Reservoir		
Xsection	Distance (miles)	Arrival* (hrs)	Peak Time (hrs)	Peak Elevation (feet)
15949	4.3	-----	-----	785.9
Sunny Failure		-----	-----	826.0
PMF w/o Fail		-----	-----	826.0
PMF with Fail		-----	-----	826.0

\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).

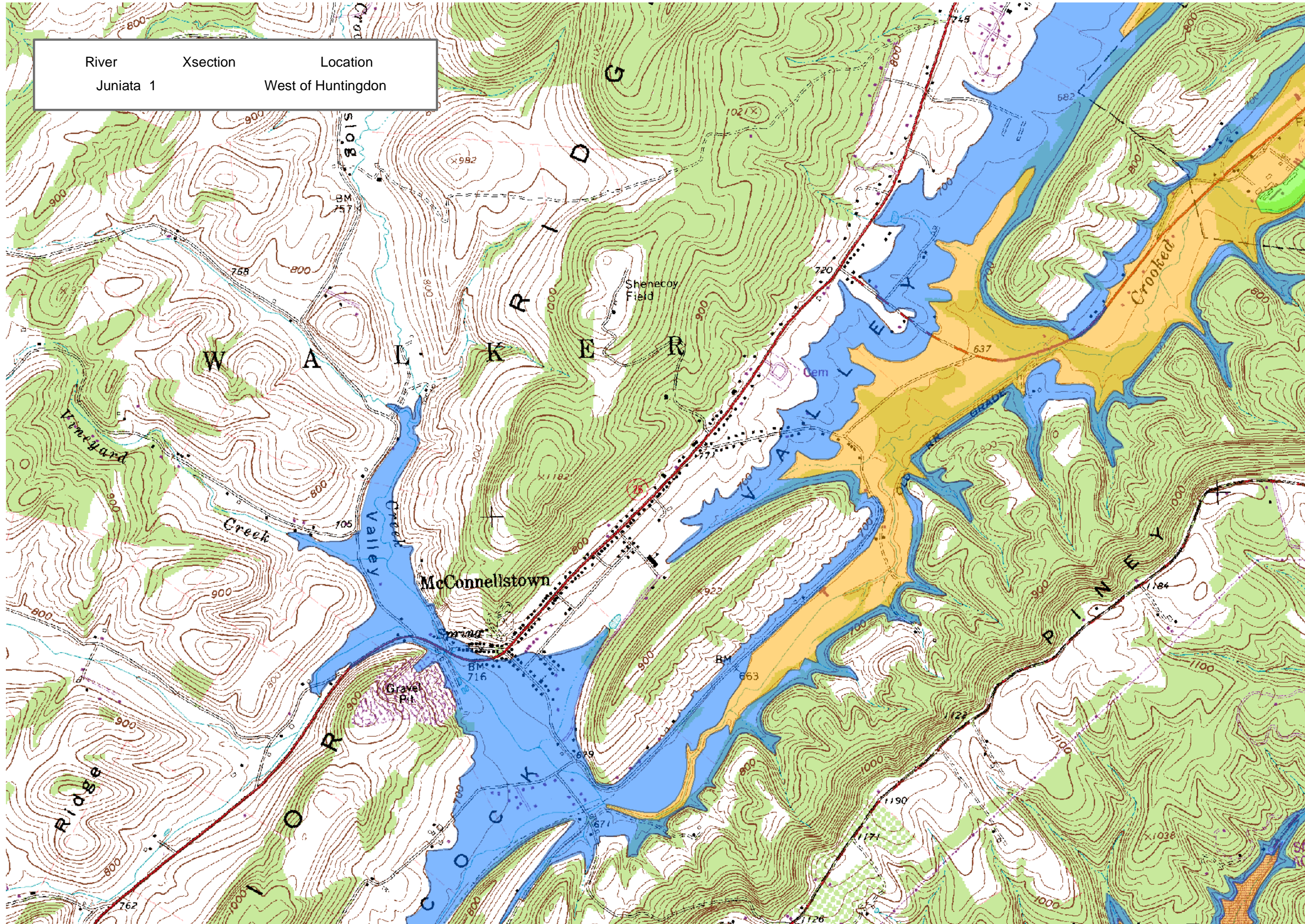
matches plate 6

### Plate 7

**Legend**

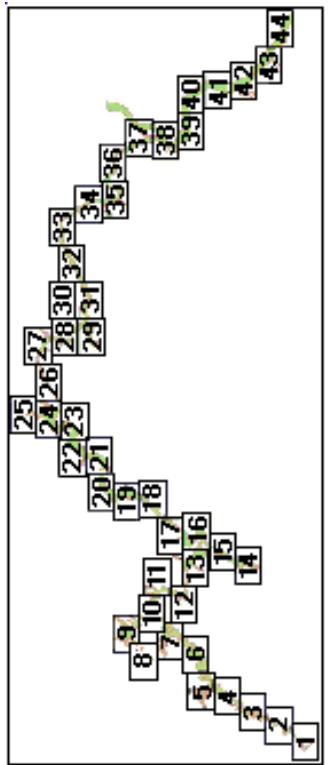
- Sunnyday Failure
- PMF without Failure
- PMF Failure





River	Xsection	Location
Juniata 1		West of Huntingdon

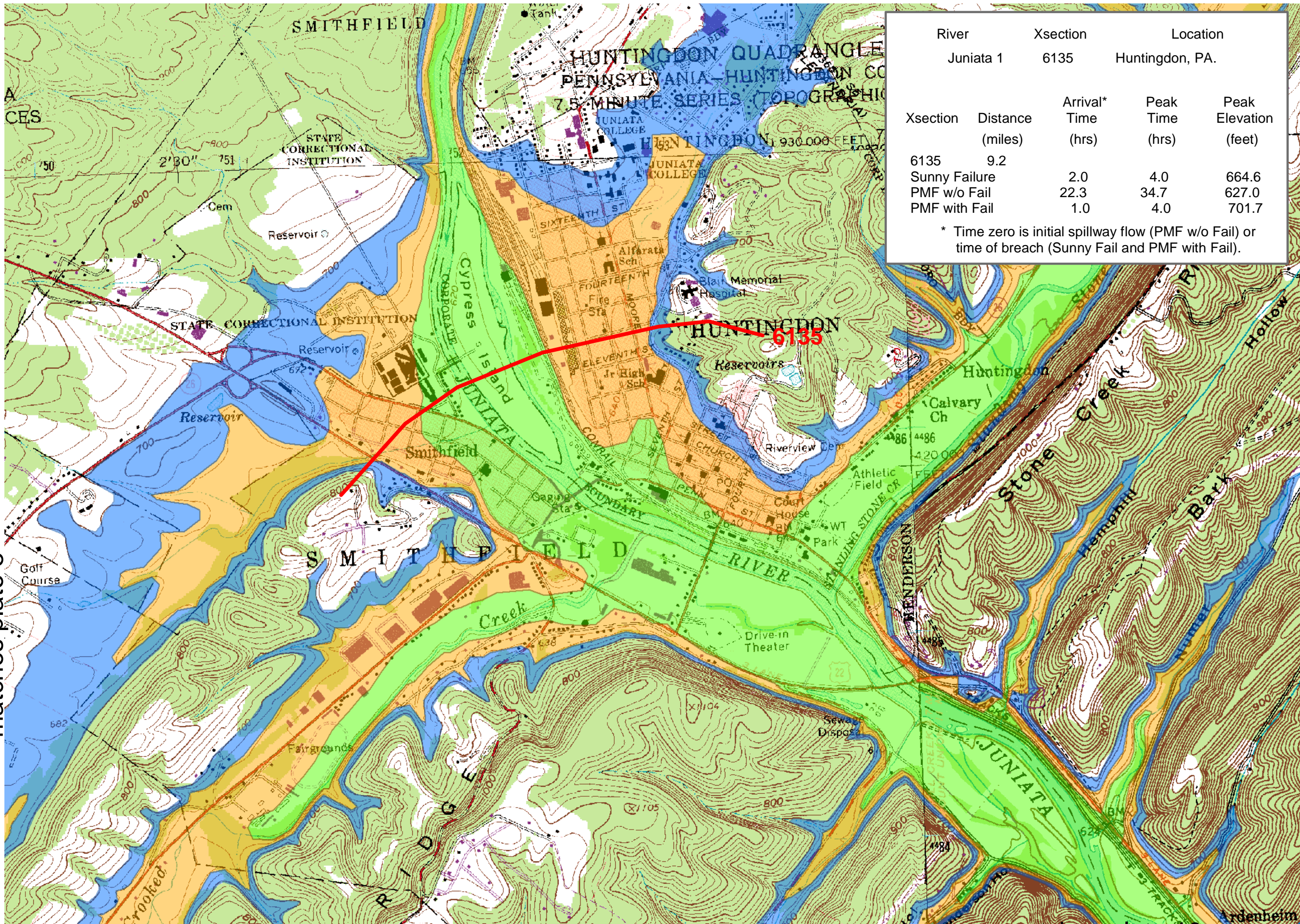
matches plate 9



### Plate 8

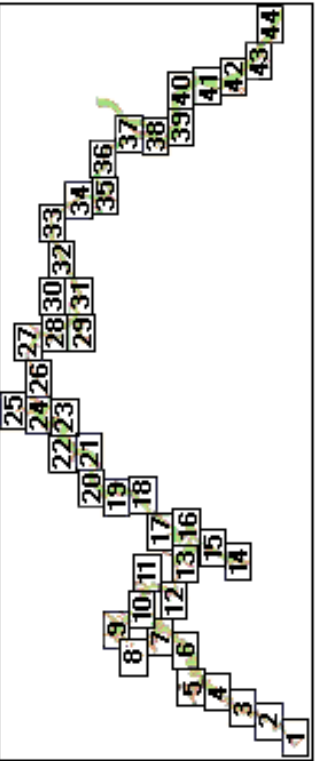
Legend	
<span style="display:inline-block; width:15px; height:15px; background-color:orange;"></span>	Sunnyday Failure
<span style="display:inline-block; width:15px; height:15px; background-color:limegreen;"></span>	PMF without Failure
<span style="display:inline-block; width:15px; height:15px; background-color:blue;"></span>	PMF Failure

matches plate 7



River	Xsection	Location		
Juniata 1	6135	Huntingdon, PA.		
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)
6135	9.2			
Sunny Failure		2.0	4.0	664.6
PMF w/o Fail		22.3	34.7	627.0
PMF with Fail		1.0	4.0	701.7

\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).



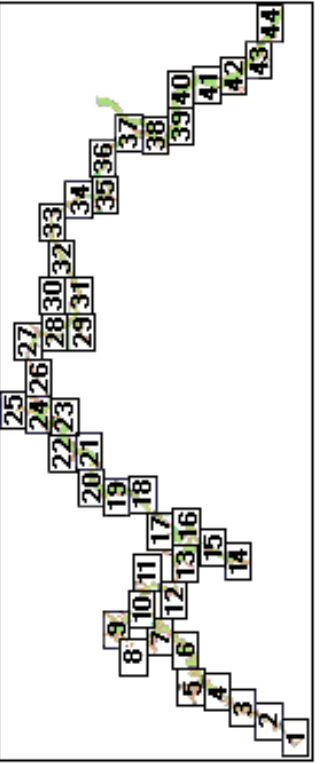
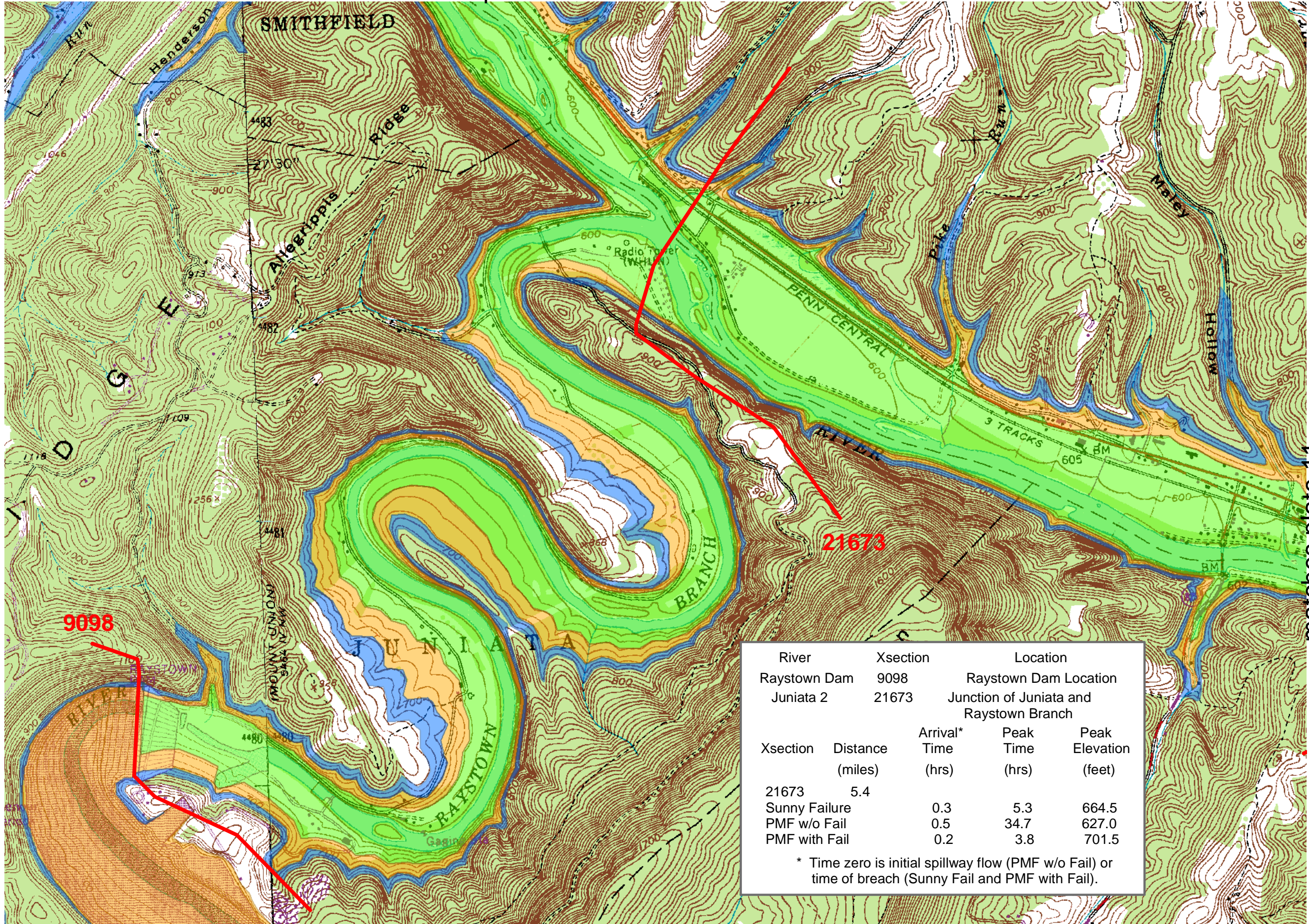
### Plate 9

Legend	
<span style="display:inline-block; width:15px; height:15px; background-color:orange;"></span>	Sunnyday Failure
<span style="display:inline-block; width:15px; height:15px; background-color:limegreen;"></span>	PMF without Failure
<span style="display:inline-block; width:15px; height:15px; background-color:blue;"></span>	PMF Failure

matches plate 8

matches plate 10

matches plate 9

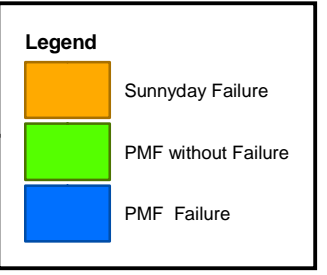


matches plate 11

River	Xsection	Location		
Raystown Dam	9098	Raystown Dam Location		
Juniata 2	21673	Junction of Juniata and Raystown Branch		
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)
21673	5.4			
Sunny Failure		0.3	5.3	664.5
PMF w/o Fail		0.5	34.7	627.0
PMF with Fail		0.2	3.8	701.5

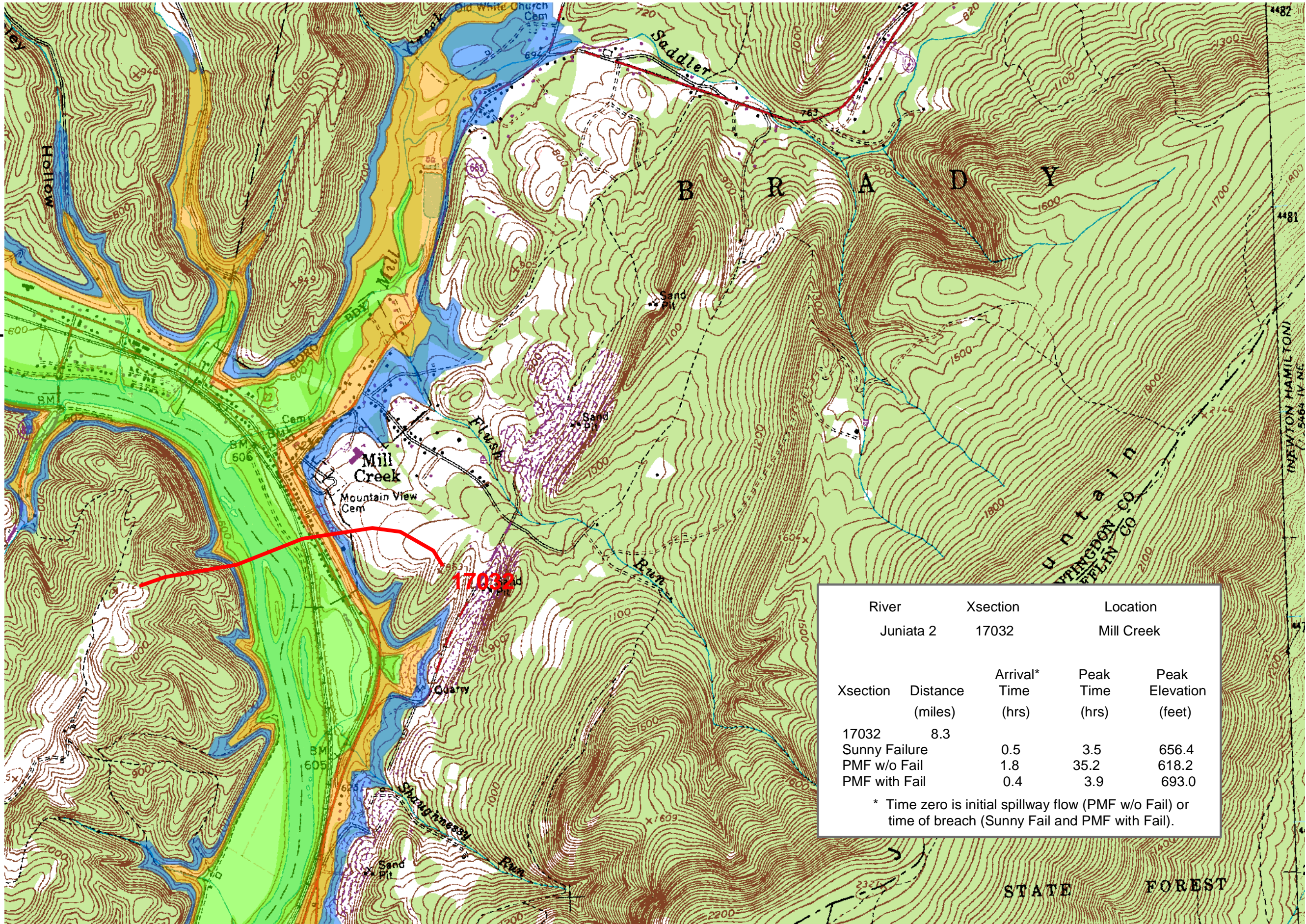
\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).

### Plate 10



matches plate 7

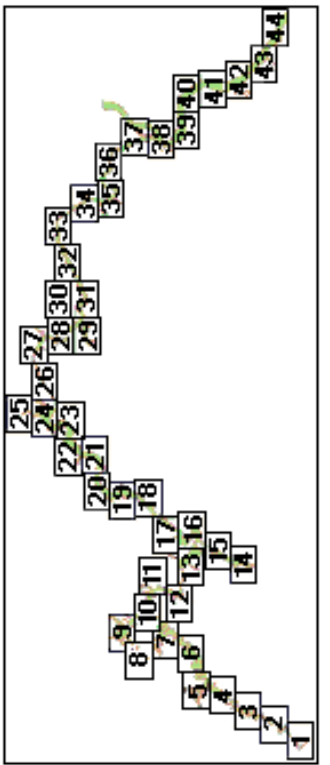
matches plate 10



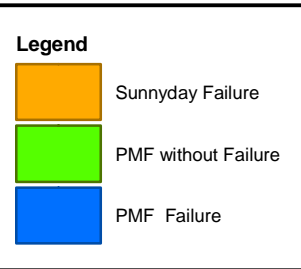
matches plate 12

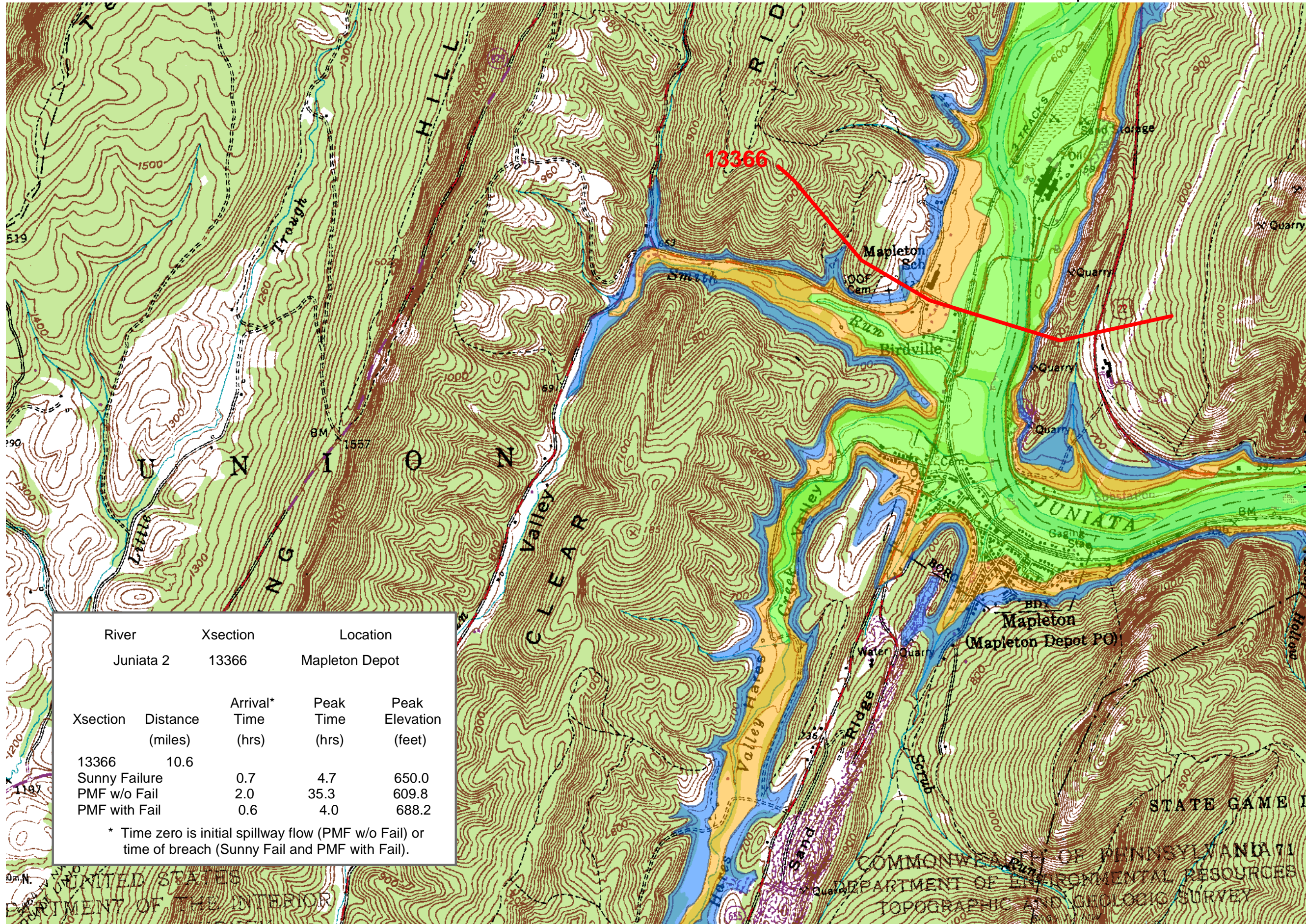
River	Xsection	Location		
Juniata 2	17032	Mill Creek		
Xsection	Distance (miles)	Arrival* (hrs)	Peak Time (hrs)	Peak Elevation (feet)
17032	8.3			
Sunny Failure		0.5	3.5	656.4
PMF w/o Fail		1.8	35.2	618.2
PMF with Fail		0.4	3.9	693.0

\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).

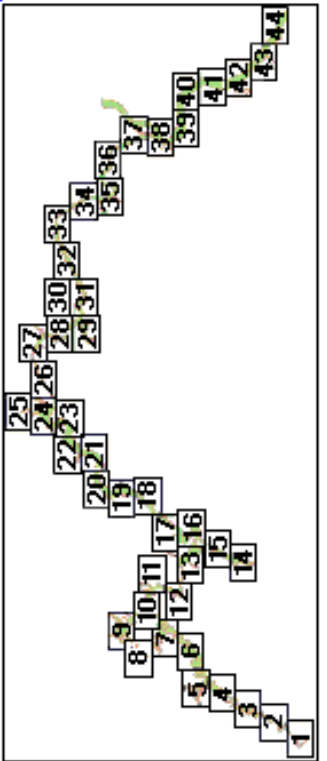


## Plate 11

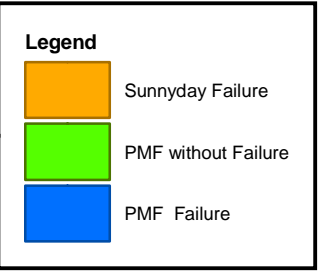




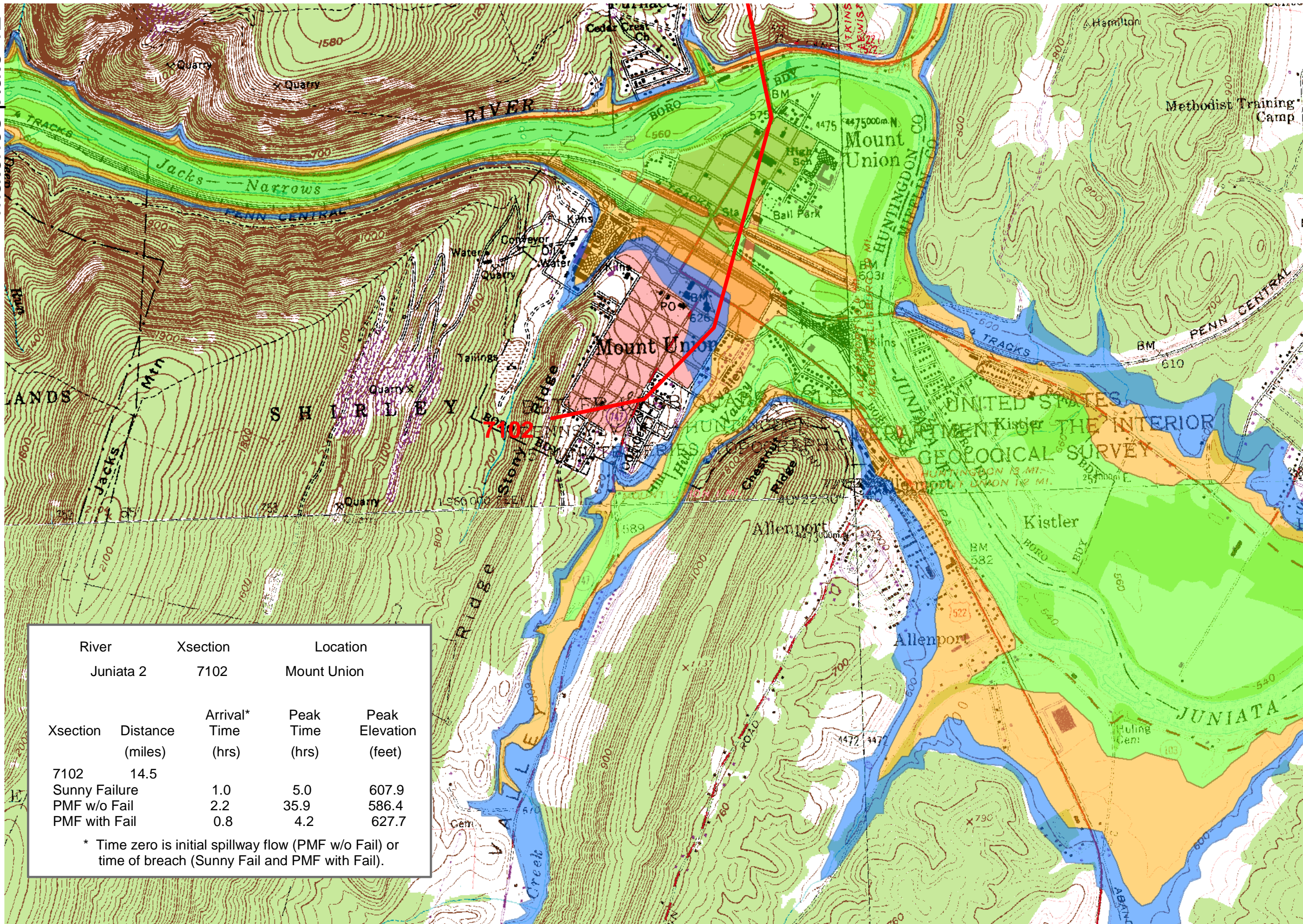
matches plate 13



### Plate 12



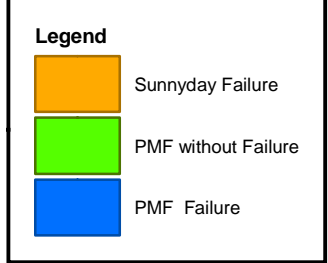
matches plate 12



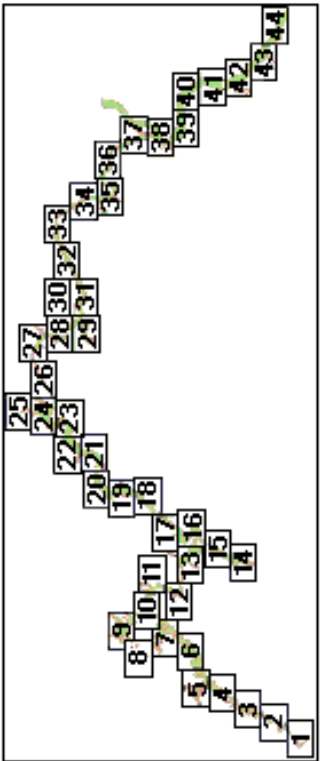
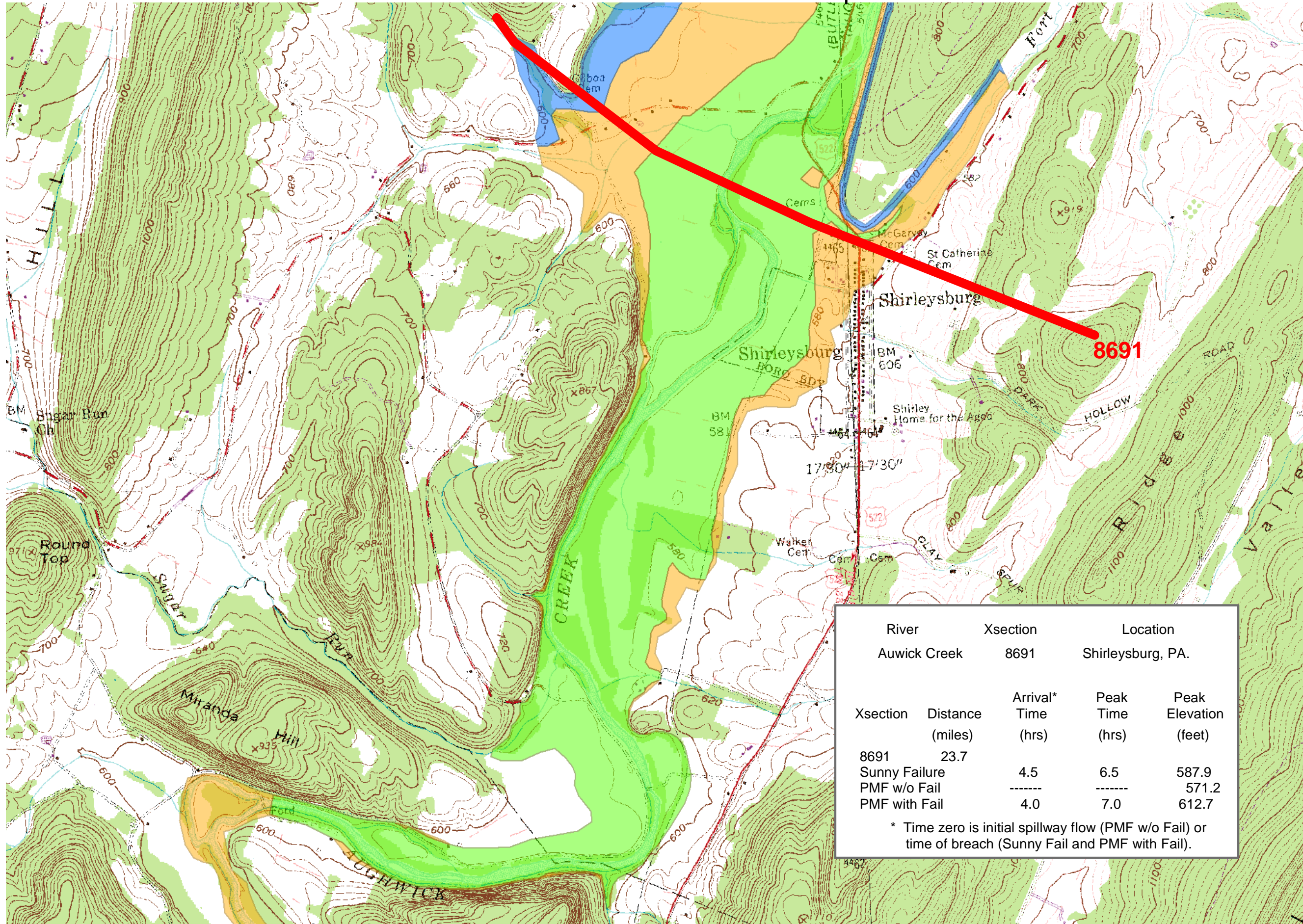
matches plate 16



# Plate 13



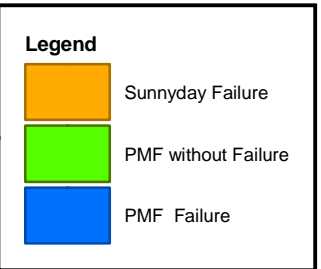
matches plate 15



River	Xsection	Location		
Auwick Creek	8691	Shirleysburg, PA.		
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)
8691	23.7			
Sunny Failure		4.5	6.5	587.9
PMF w/o Fail		-----	-----	571.2
PMF with Fail		4.0	7.0	612.7

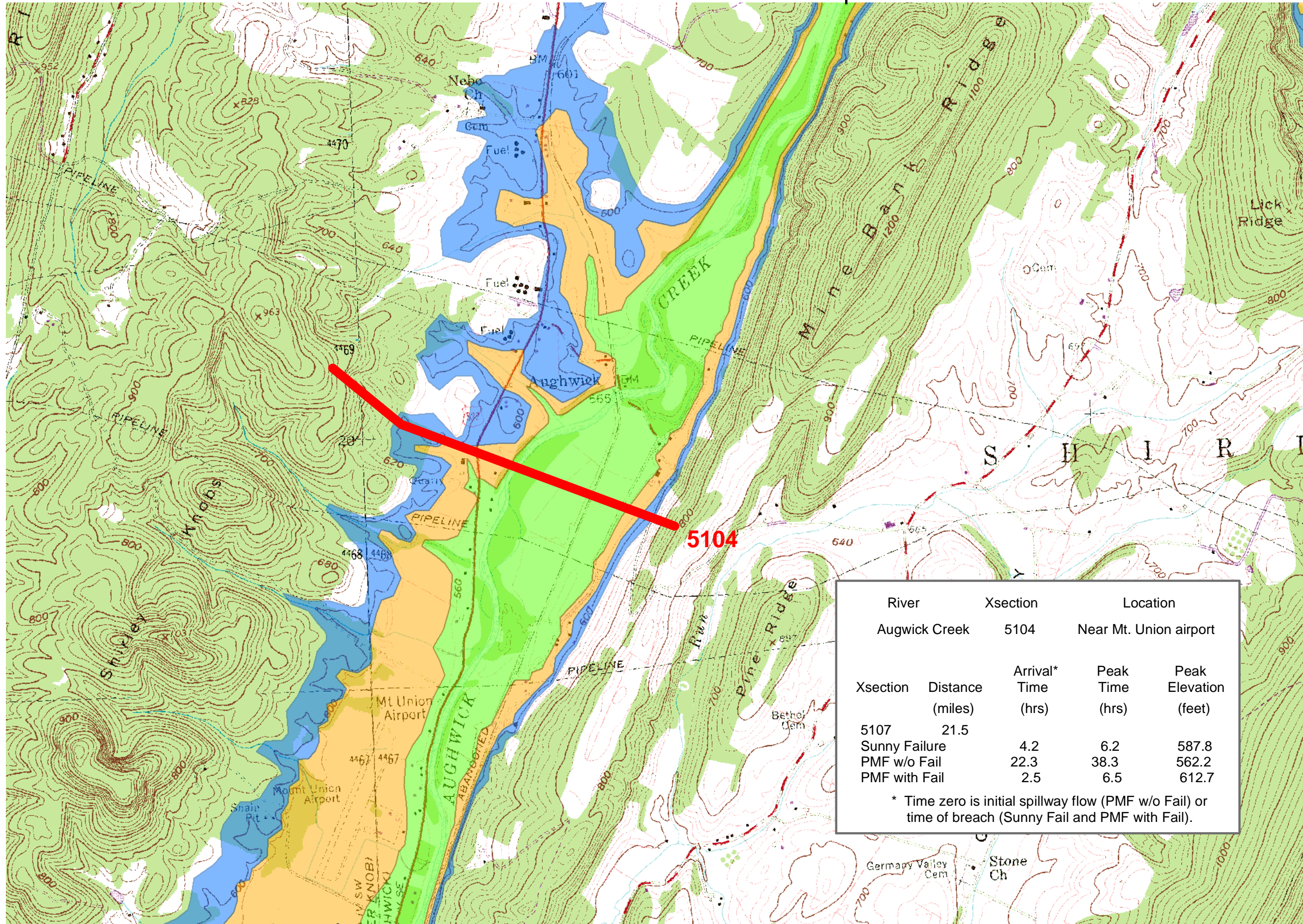
\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).

### Plate 14

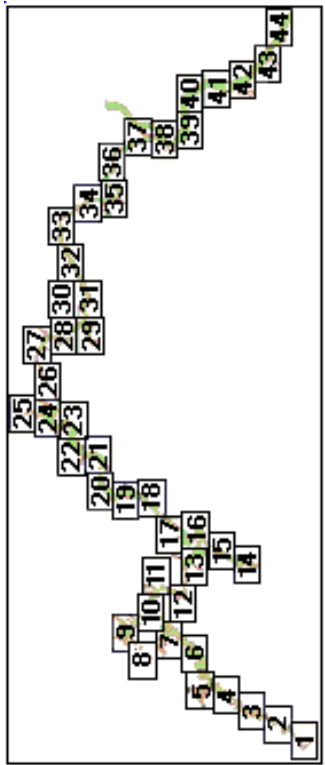


end of study

matches plate 16



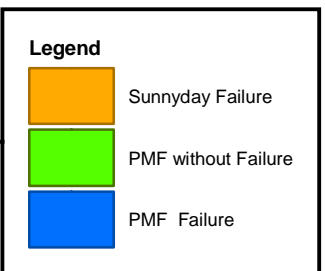
matches plate 14



River		Xsection		Location	
Augwick Creek		5104		Near Mt. Union airport	
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)	
5107	21.5				
Sunny Failure		4.2	6.2	587.8	
PMF w/o Fail		22.3	38.3	562.2	
PMF with Fail		2.5	6.5	612.7	

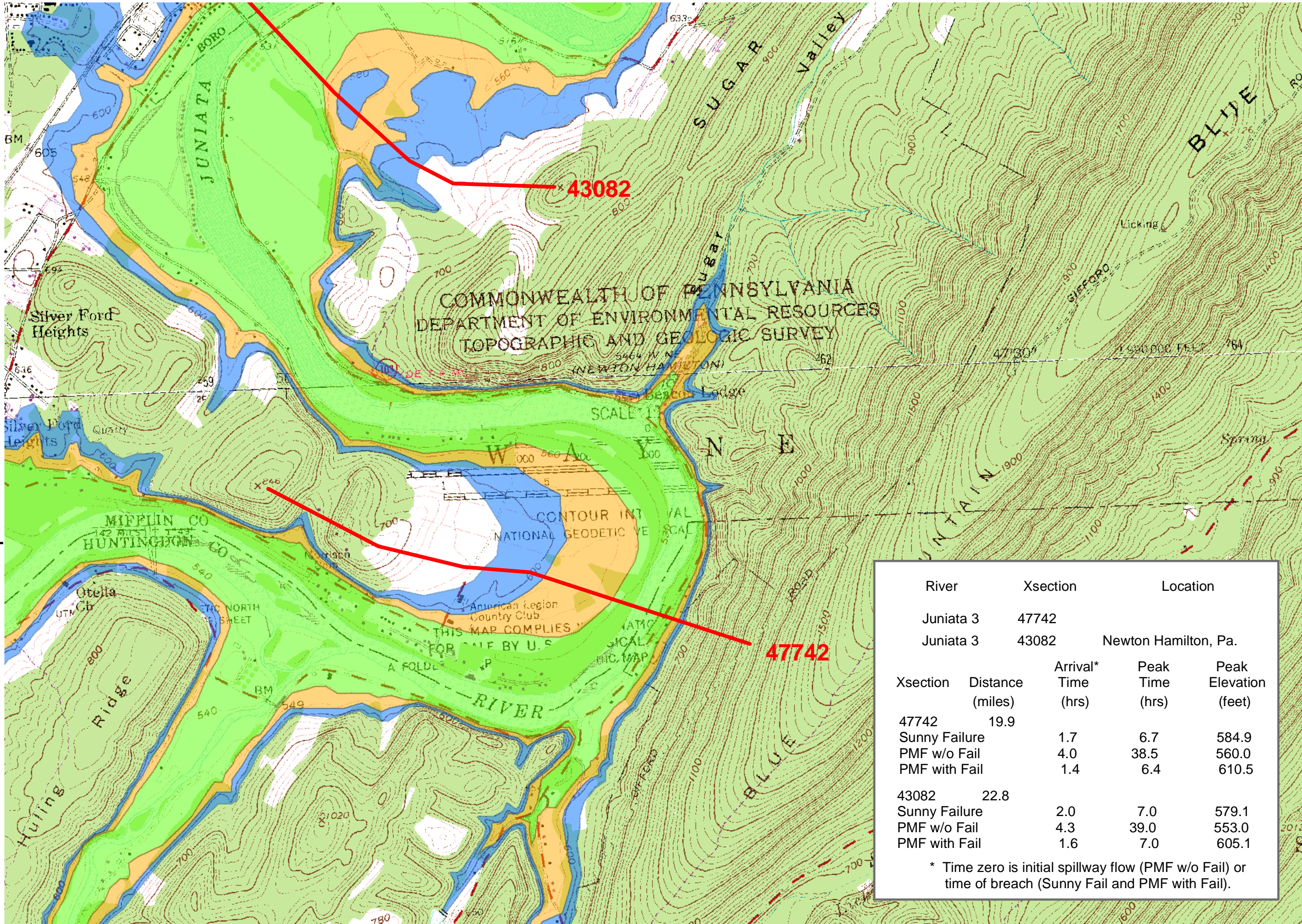
\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).

### Plate 15

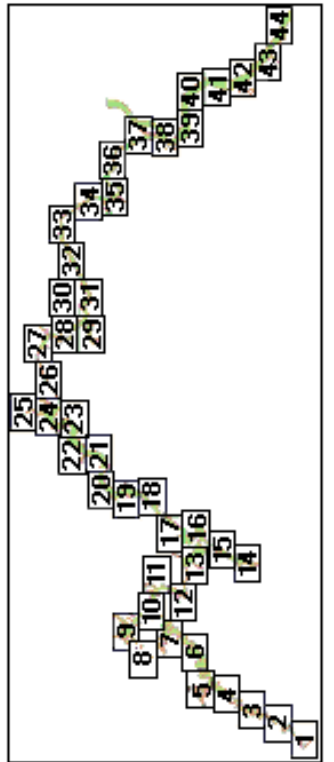




matches plate 17



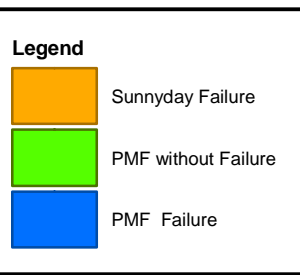
matches plate 13



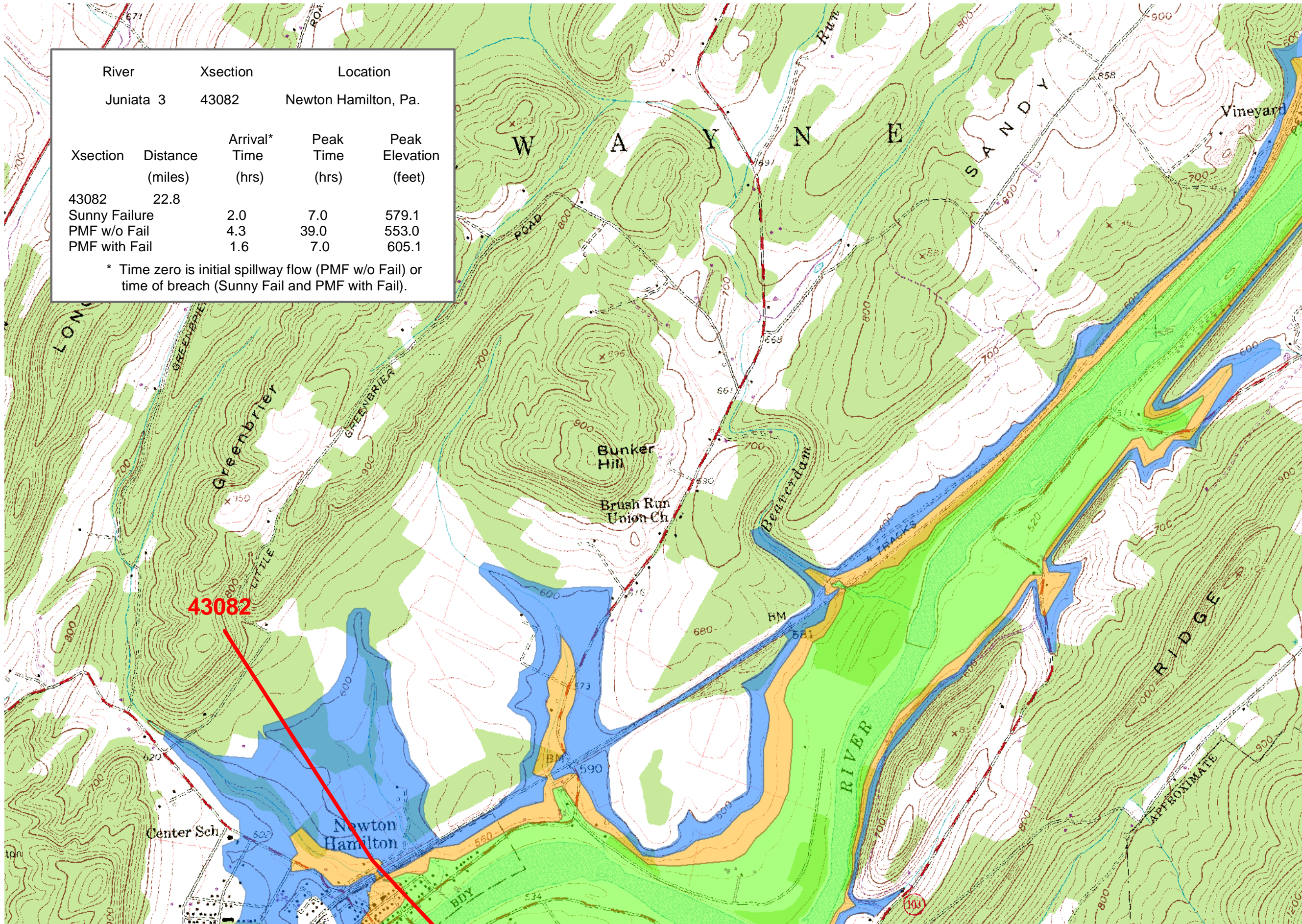
River	Xsection	Location		
Juniata 3	47742			
Juniata 3	43082	Newton Hamilton, Pa.		
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)
47742	19.9			
Sunny Failure		1.7	6.7	584.9
PMF w/o Fail		4.0	38.5	560.0
PMF with Fail		1.4	6.4	610.5
43082	22.8			
Sunny Failure		2.0	7.0	579.1
PMF w/o Fail		4.3	39.0	553.0
PMF with Fail		1.6	7.0	605.1

\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).

Plate 16



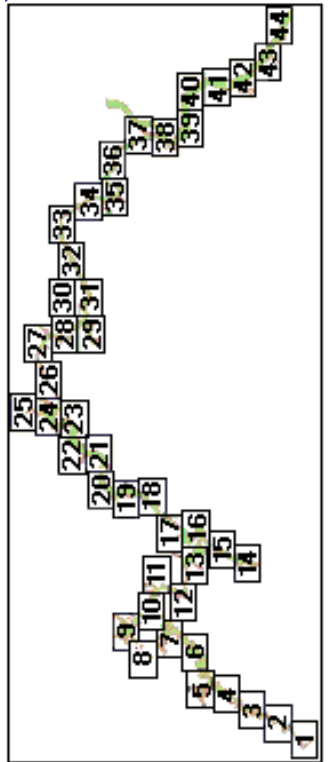
matches plate 15



River	Xsection	Location		
Juniata 3	43082	Newton Hamilton, Pa.		
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)
43082	22.8			
Sunny Failure		2.0	7.0	579.1
PMF w/o Fail		4.3	39.0	553.0
PMF with Fail		1.6	7.0	605.1

\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).

matches plate 18

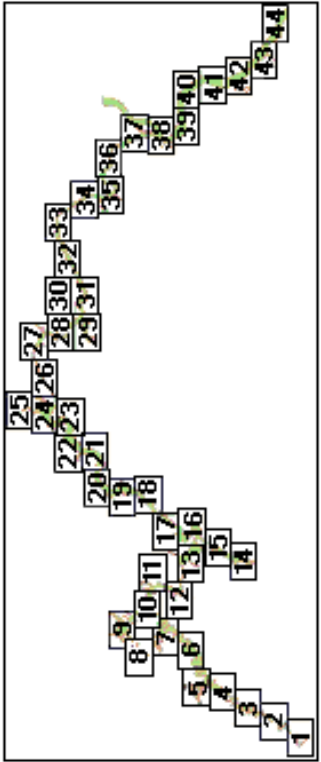
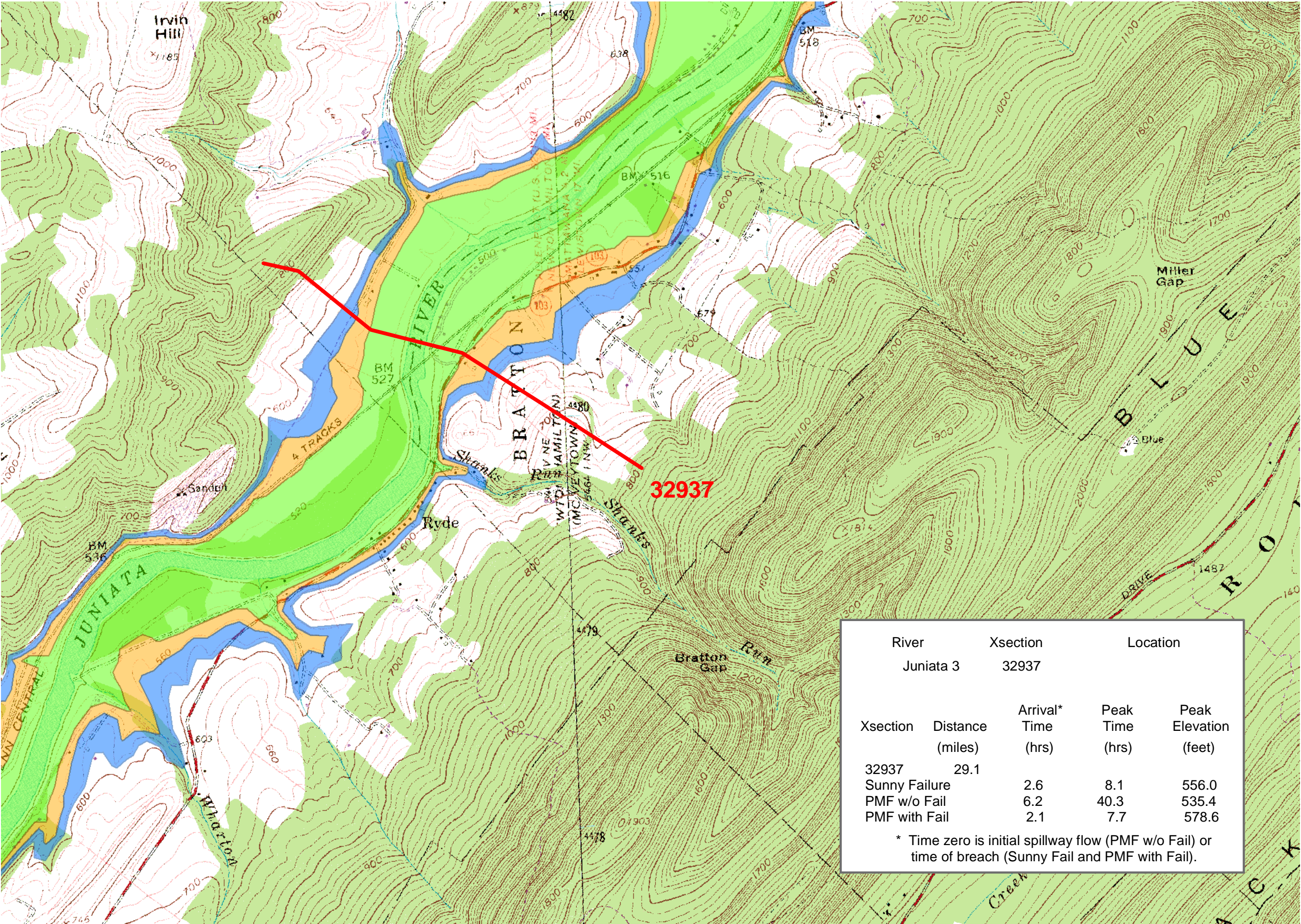


### Plate 17

**Legend**

- Sunnyday Failure
- PMF without Failure
- PMF Failure

matches plate 16



River	Xsection	Location		
Juniata 3	32937			
Xsection	Distance (miles)	Arrival* (hrs)	Peak Time (hrs)	Peak Elevation (feet)
32937	29.1			
Sunny Failure		2.6	8.1	556.0
PMF w/o Fail		6.2	40.3	535.4
PMF with Fail		2.1	7.7	578.6

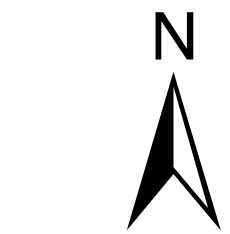
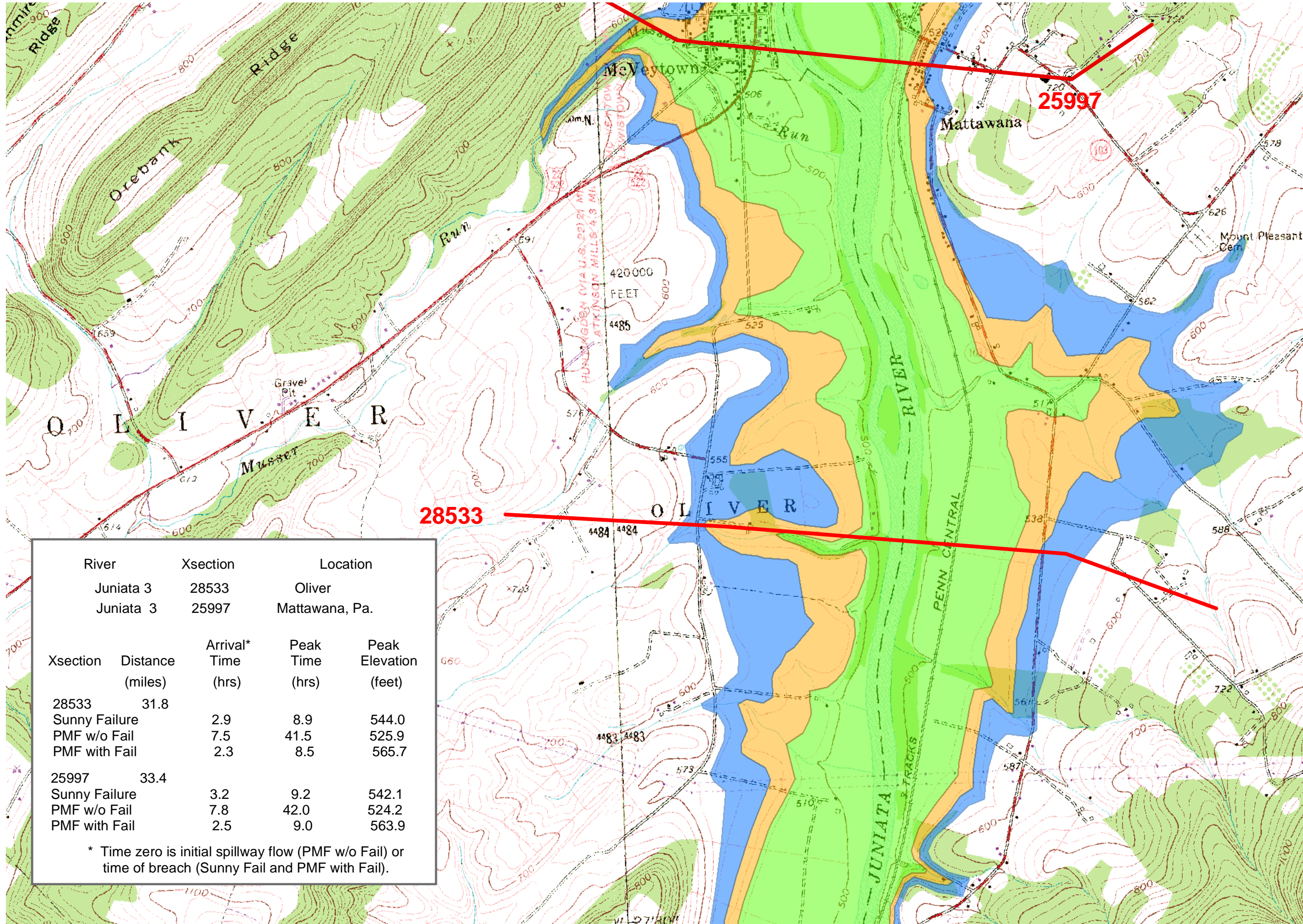
\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).

### Plate 18

**Legend**

- Sunnyday Failure
- PMF without Failure
- PMF Failure

matches plate 20



River	Xsection	Location		
Juniata 3	28533	Oliver		
Juniata 3	25997	Mattawana, Pa.		
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)
28533	31.8			
Sunny Failure		2.9	8.9	544.0
PMF w/o Fail		7.5	41.5	525.9
PMF with Fail		2.3	8.5	565.7
25997	33.4			
Sunny Failure		3.2	9.2	542.1
PMF w/o Fail		7.8	42.0	524.2
PMF with Fail		2.5	9.0	563.9

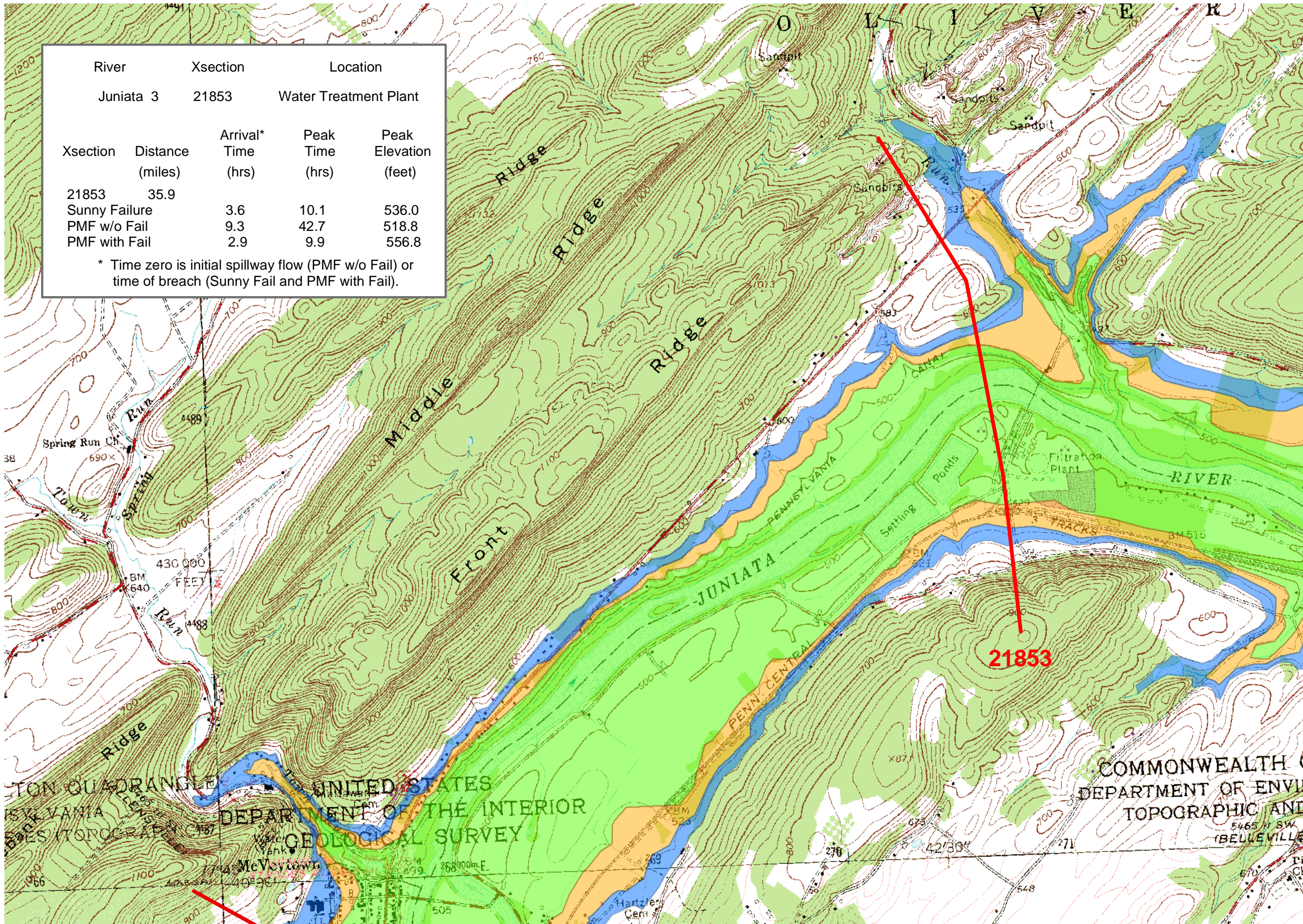
\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).

### Plate 19

**Legend**

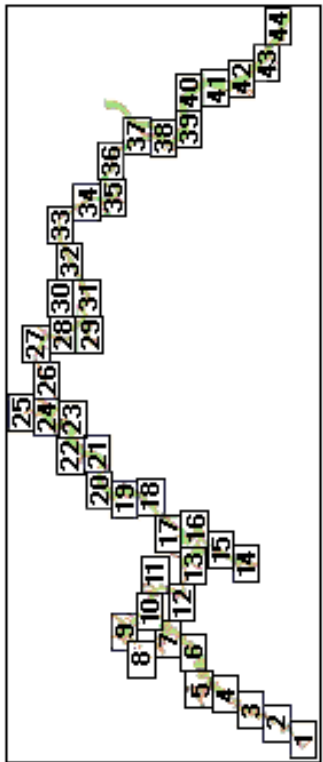
- Sunnyday Failure
- PMF without Failure
- PMF Failure

matches plate 18



River	Xsection	Location			
Juniata	3	21853	Water Treatment Plant		
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)	
21853	35.9				
Sunny Failure		3.6	10.1	536.0	
PMF w/o Fail		9.3	42.7	518.8	
PMF with Fail		2.9	9.9	556.8	

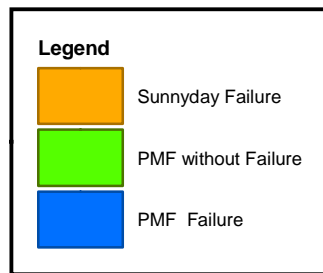
\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).



matches plate 21



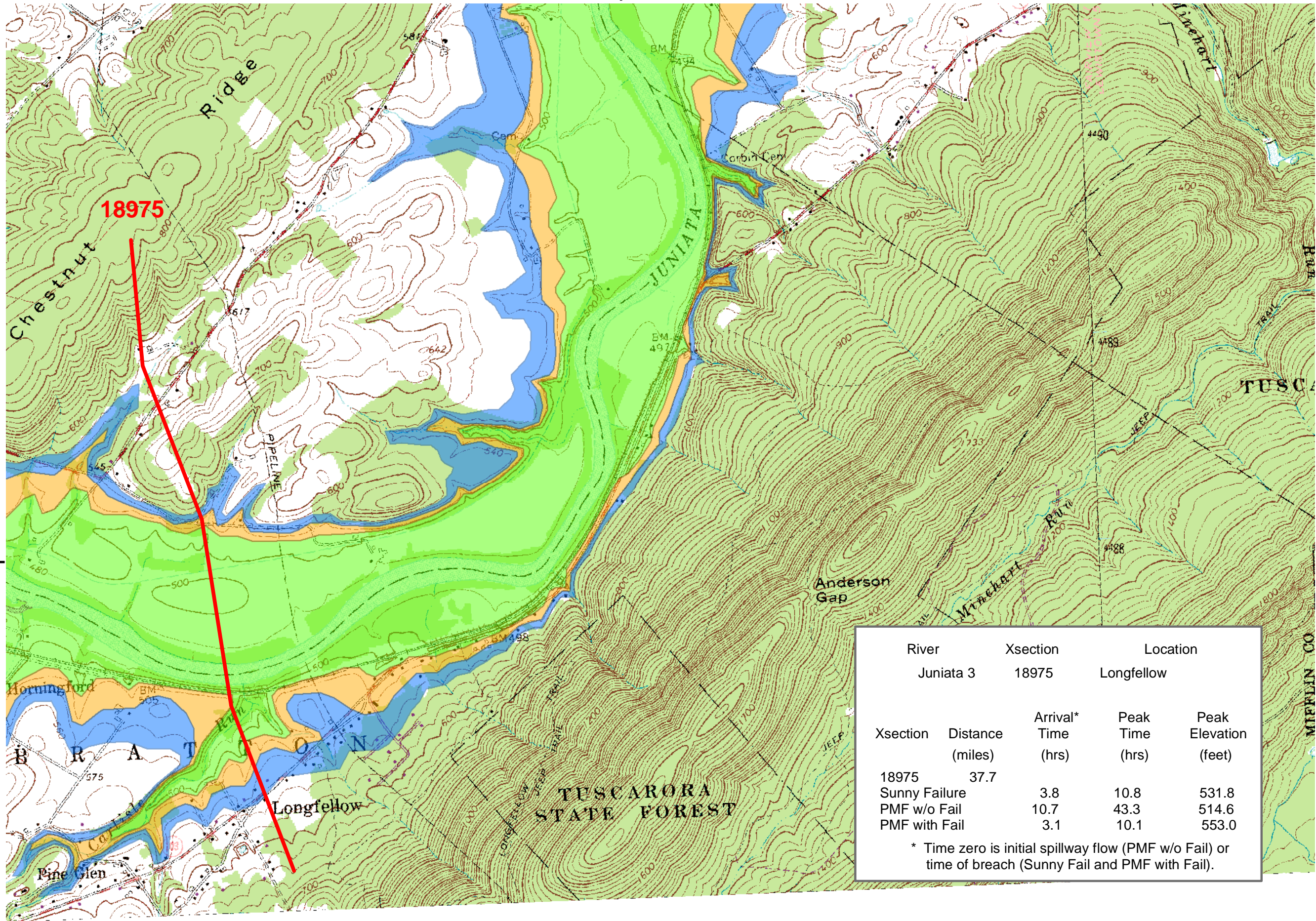
### Plate 20



matches plate 19

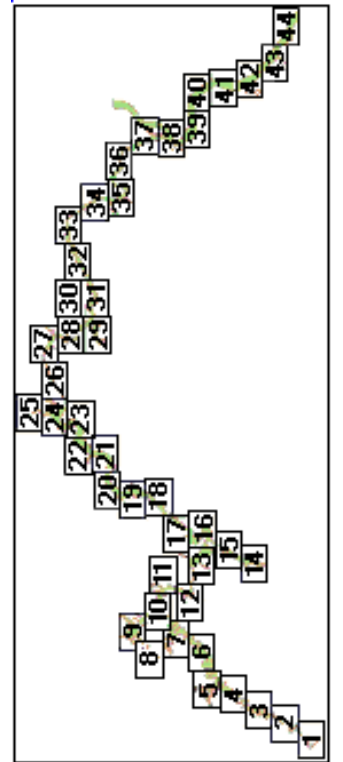
matches plate 22

matches plate 20



River	Xsection	Location		
Juniata 3	18975	Longfellow		
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)
18975	37.7			
Sunny Failure		3.8	10.8	531.8
PMF w/o Fail		10.7	43.3	514.6
PMF with Fail		3.1	10.1	553.0

\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).



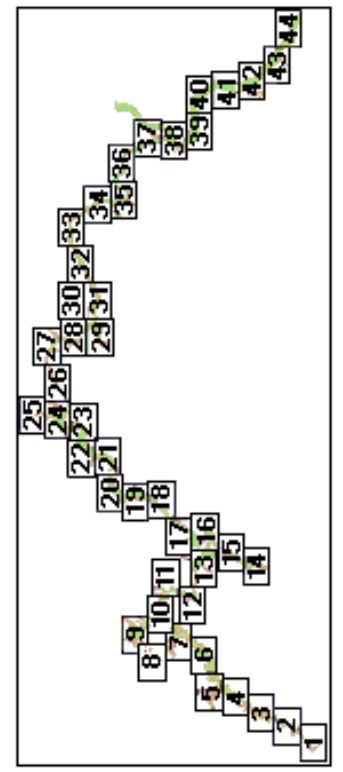
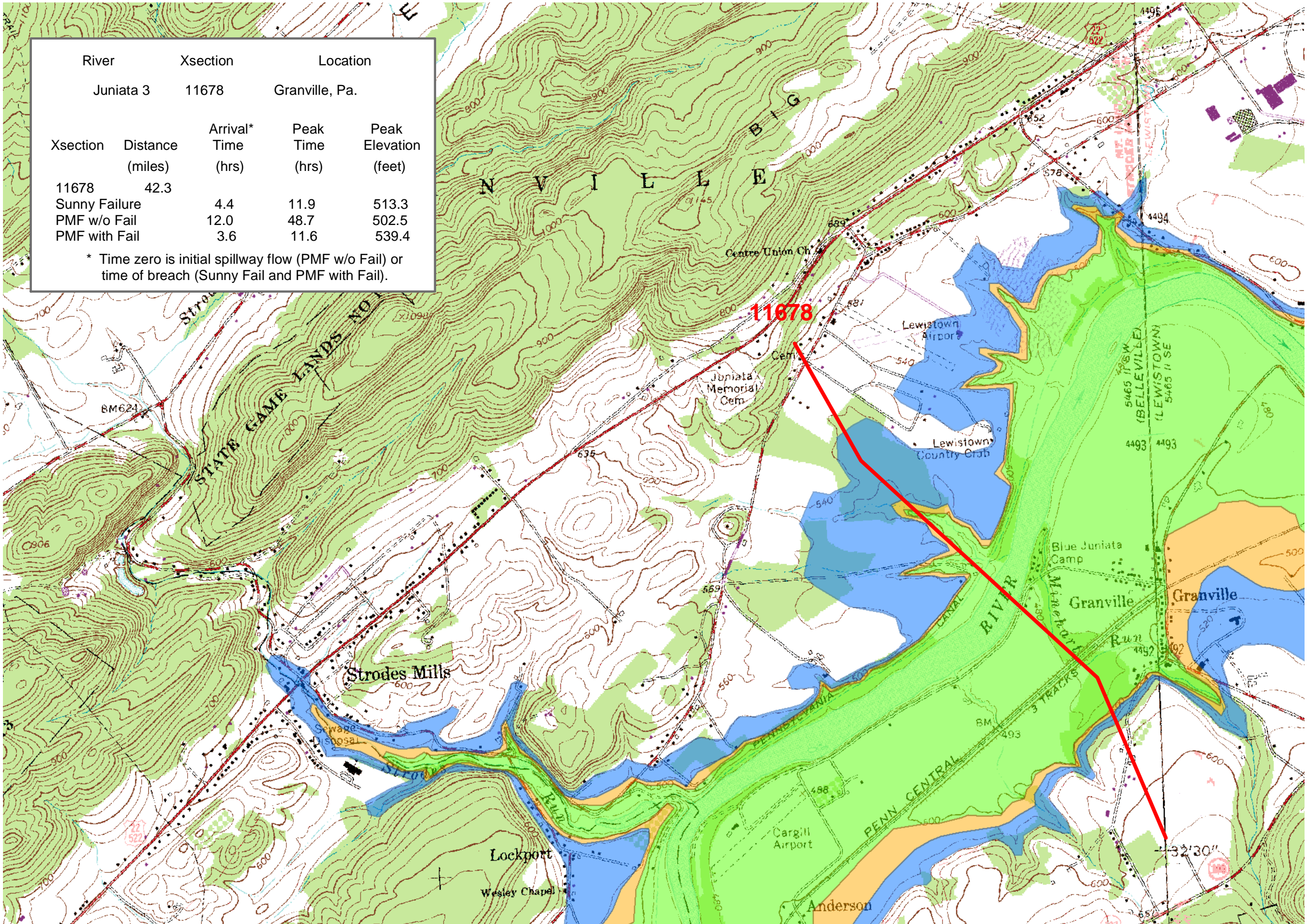
### Plate 21

**Legend**

- Sunnyday Failure
- PMF without Failure
- PMF Failure

River	Xsection	Location		
Juniata 3	11678	Granville, Pa.		
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)
11678	42.3			
Sunny Failure		4.4	11.9	513.3
PMF w/o Fail		12.0	48.7	502.5
PMF with Fail		3.6	11.6	539.4

\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).



matches plate 23



## Plate 22

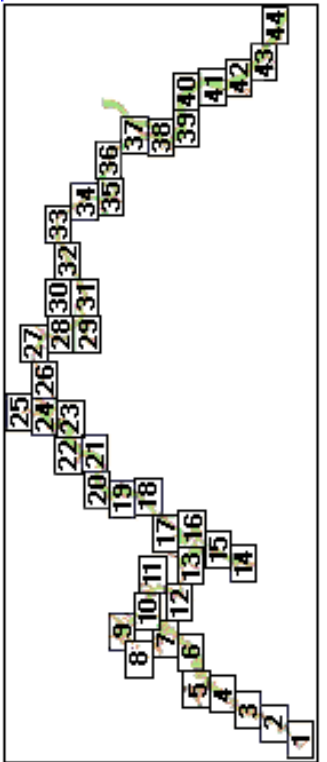
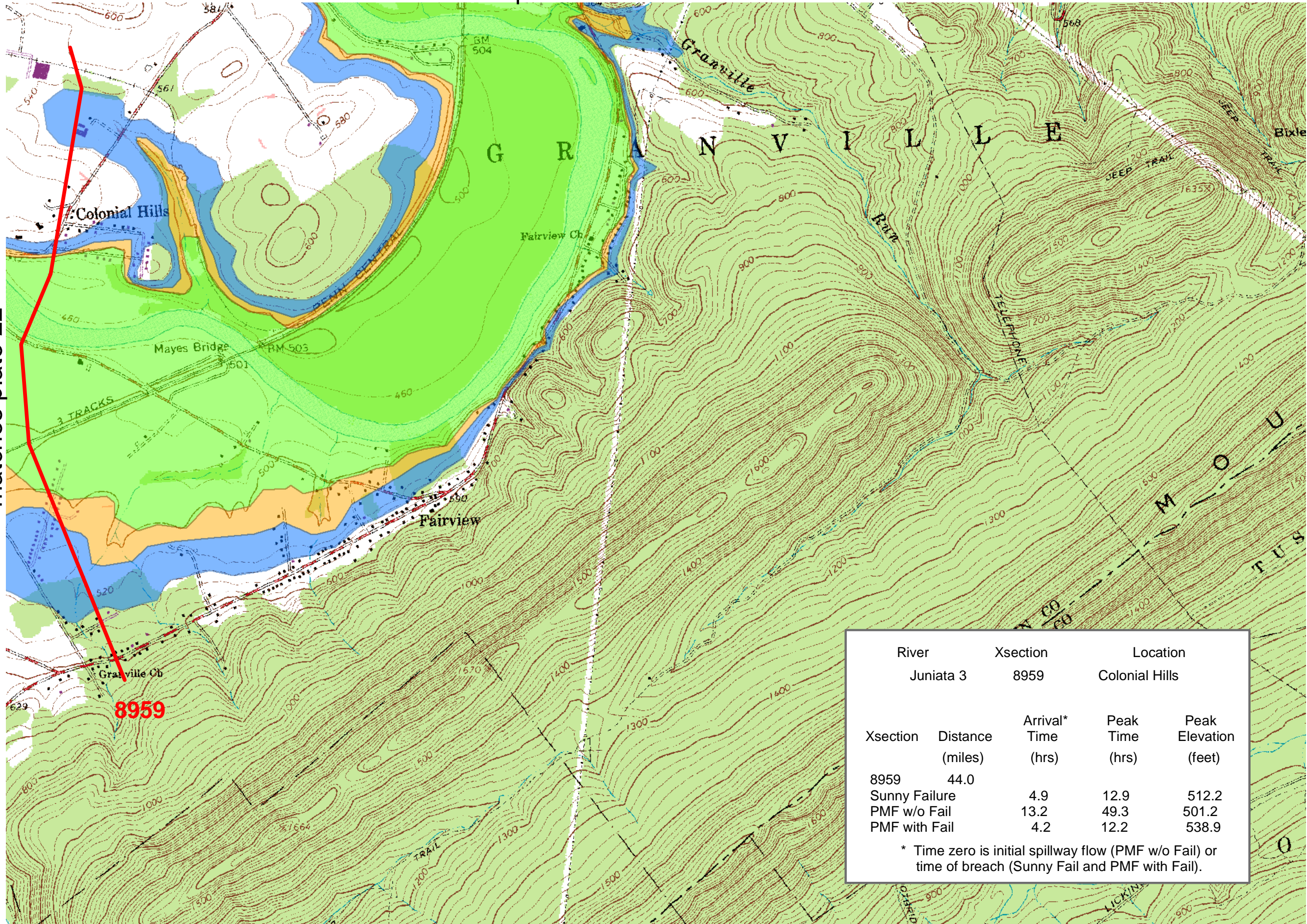
**Legend**

- Sunnyday Failure
- PMF without Failure
- PMF Failure

matches plate 21

matches plate 24

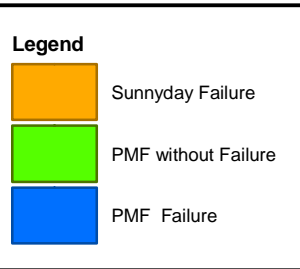
matches plate 22



River	Xsection	Location		
Juniata 3	8959	Colonial Hills		
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)
8959	44.0			
Sunny Failure		4.9	12.9	512.2
PMF w/o Fail		13.2	49.3	501.2
PMF with Fail		4.2	12.2	538.9

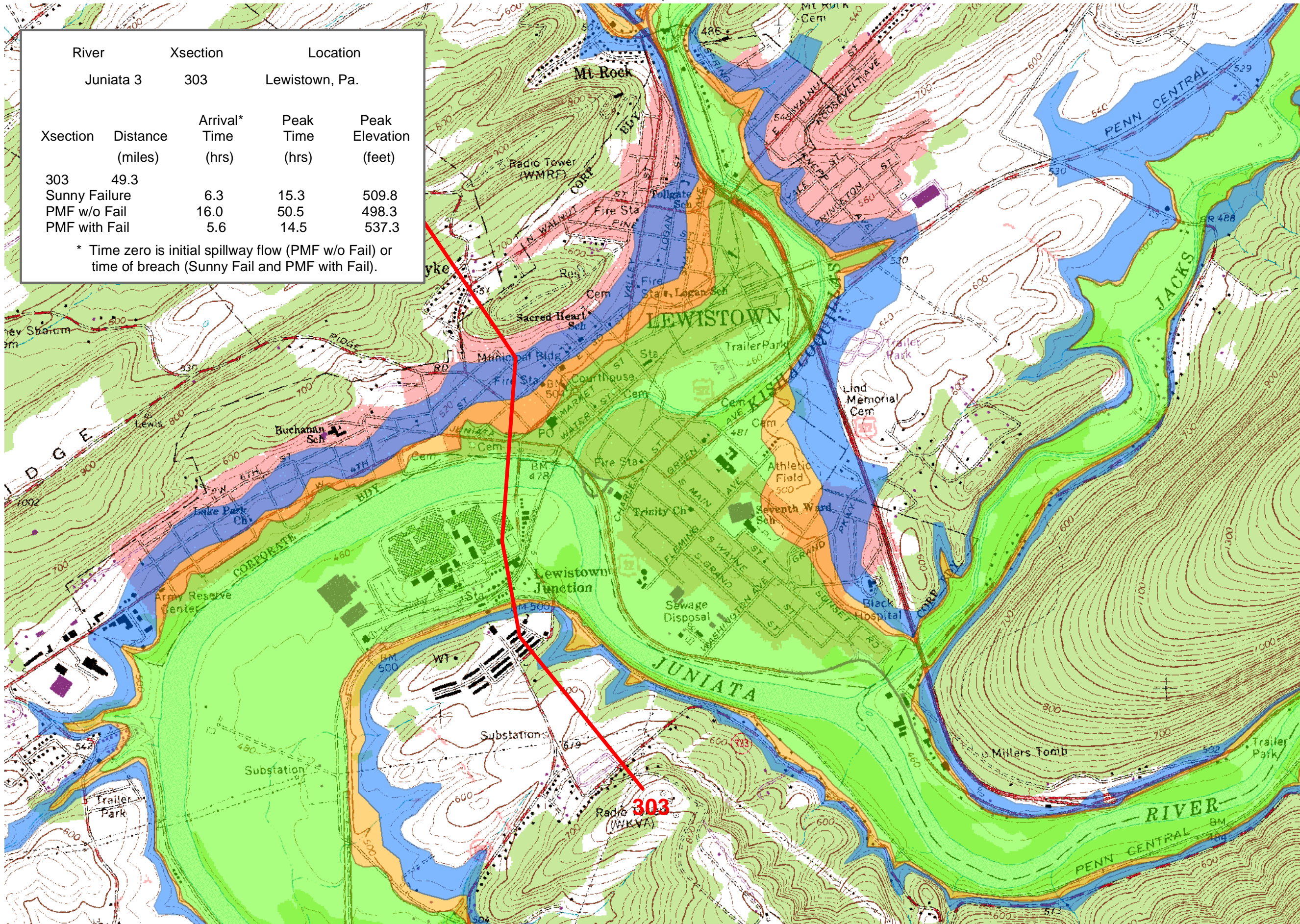
\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).

## Plate 23



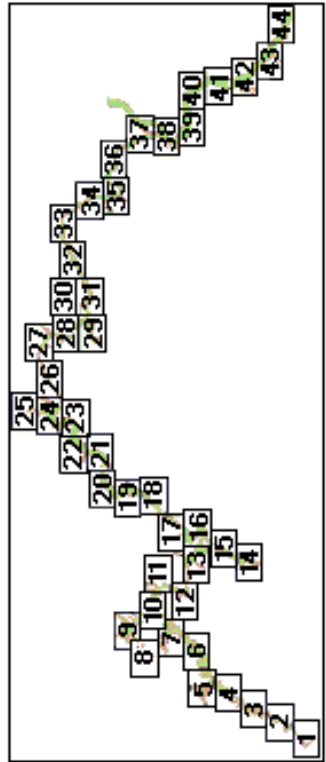


matches plate 25



River	Xsection	Location		
Juniata 3	303	Lewistown, Pa.		
Xsection	Distance (miles)	Arrival* (hrs)	Peak Time (hrs)	Peak Elevation (feet)
303	49.3			
Sunny Failure		6.3	15.3	509.8
PMF w/o Fail		16.0	50.5	498.3
PMF with Fail		5.6	14.5	537.3

\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).



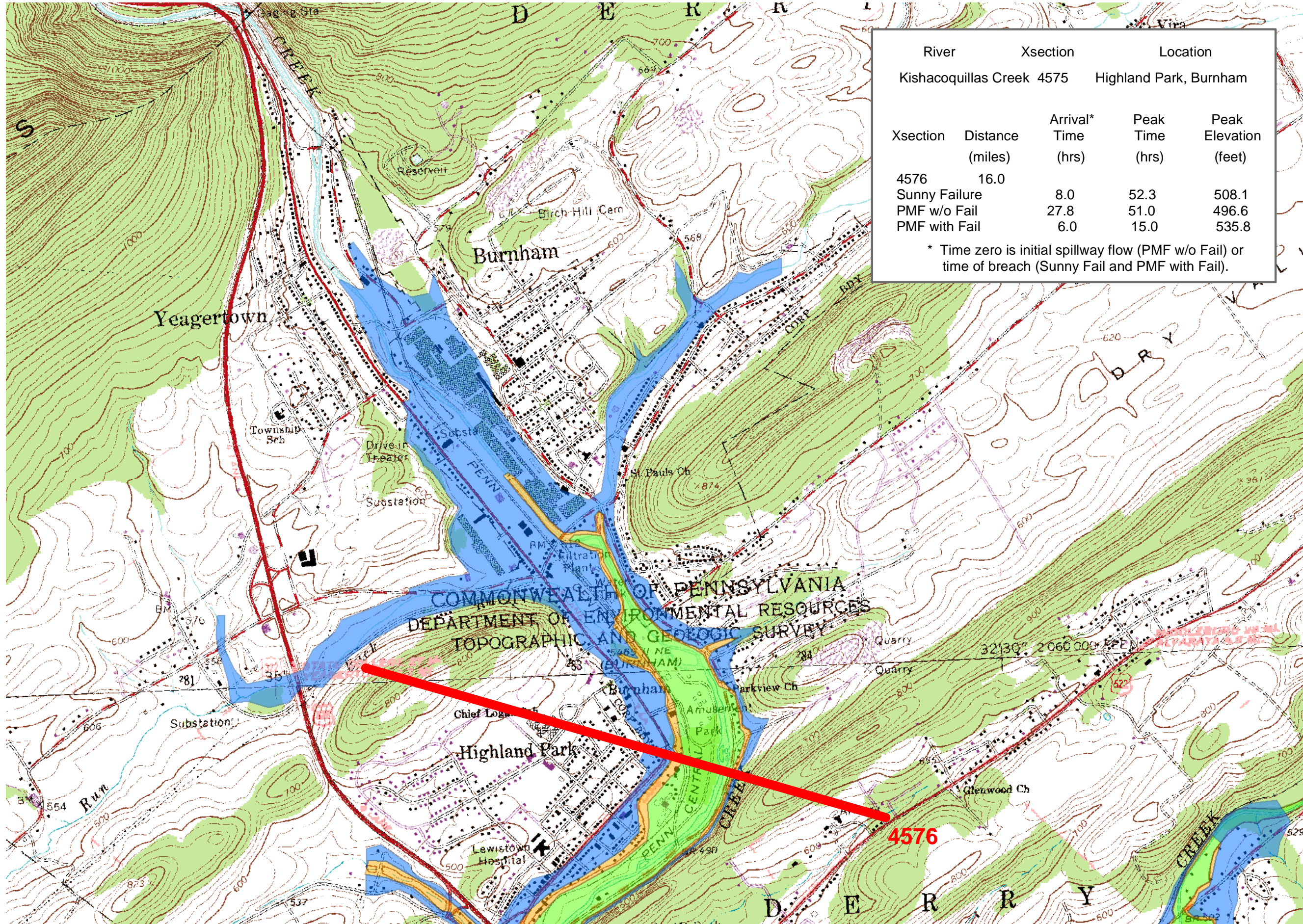
matches plate 26

Plate 24

Legend	
<span style="display:inline-block; width:15px; height:15px; background-color:orange; border:1px solid black;"></span>	Sunnyday Failure
<span style="display:inline-block; width:15px; height:15px; background-color:limegreen; border:1px solid black;"></span>	PMF without Failure
<span style="display:inline-block; width:15px; height:15px; background-color:blue; border:1px solid black;"></span>	PMF Failure

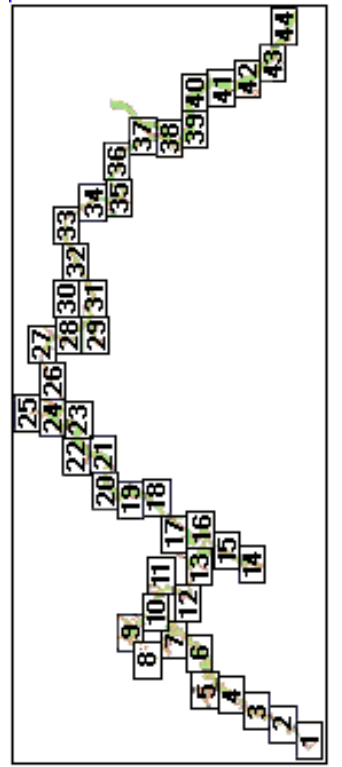
matches plate 23

end of study



River	Xsection	Location		
Kishacoquillas Creek	4575	Highland Park, Burnham		
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)
4576	16.0			
Sunny Failure		8.0	52.3	508.1
PMF w/o Fail		27.8	51.0	496.6
PMF with Fail		6.0	15.0	535.8

\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).



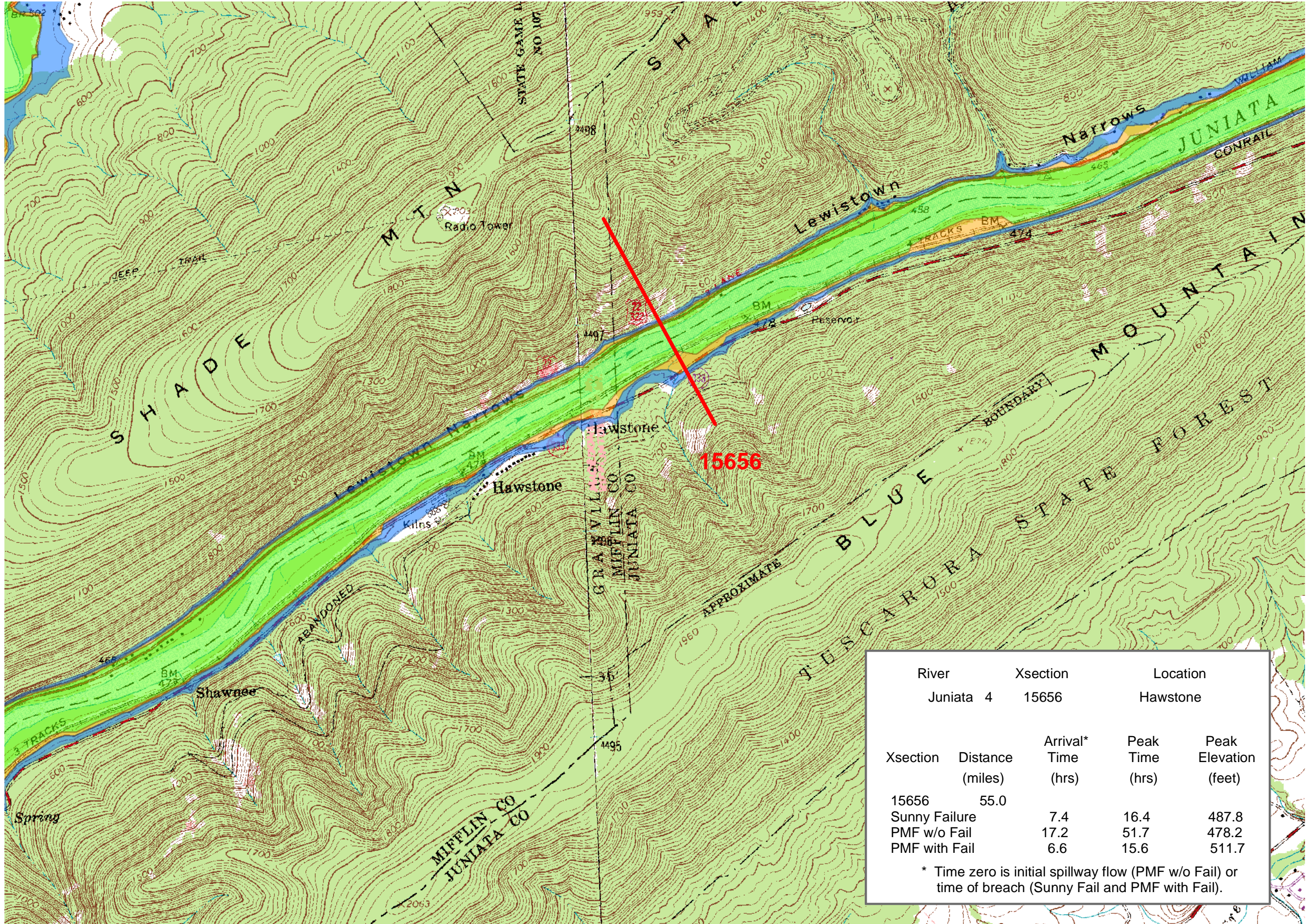
**Plate 25**

**Legend**

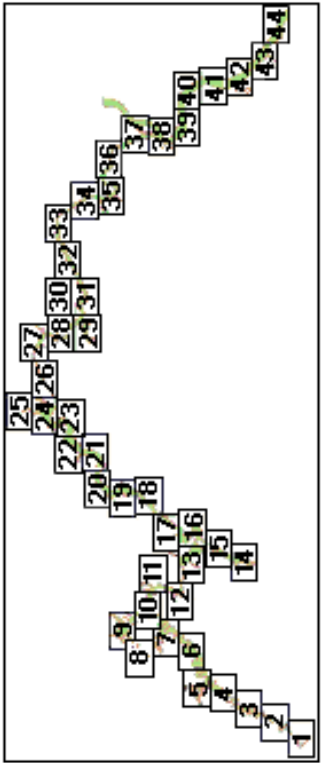
- Sunnyday Failure
- PMF without Failure
- PMF Failure

matches plate 24

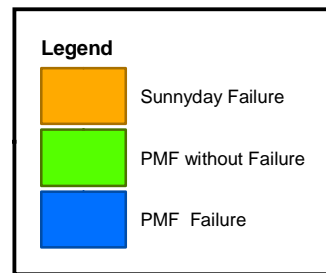
matches plate 24



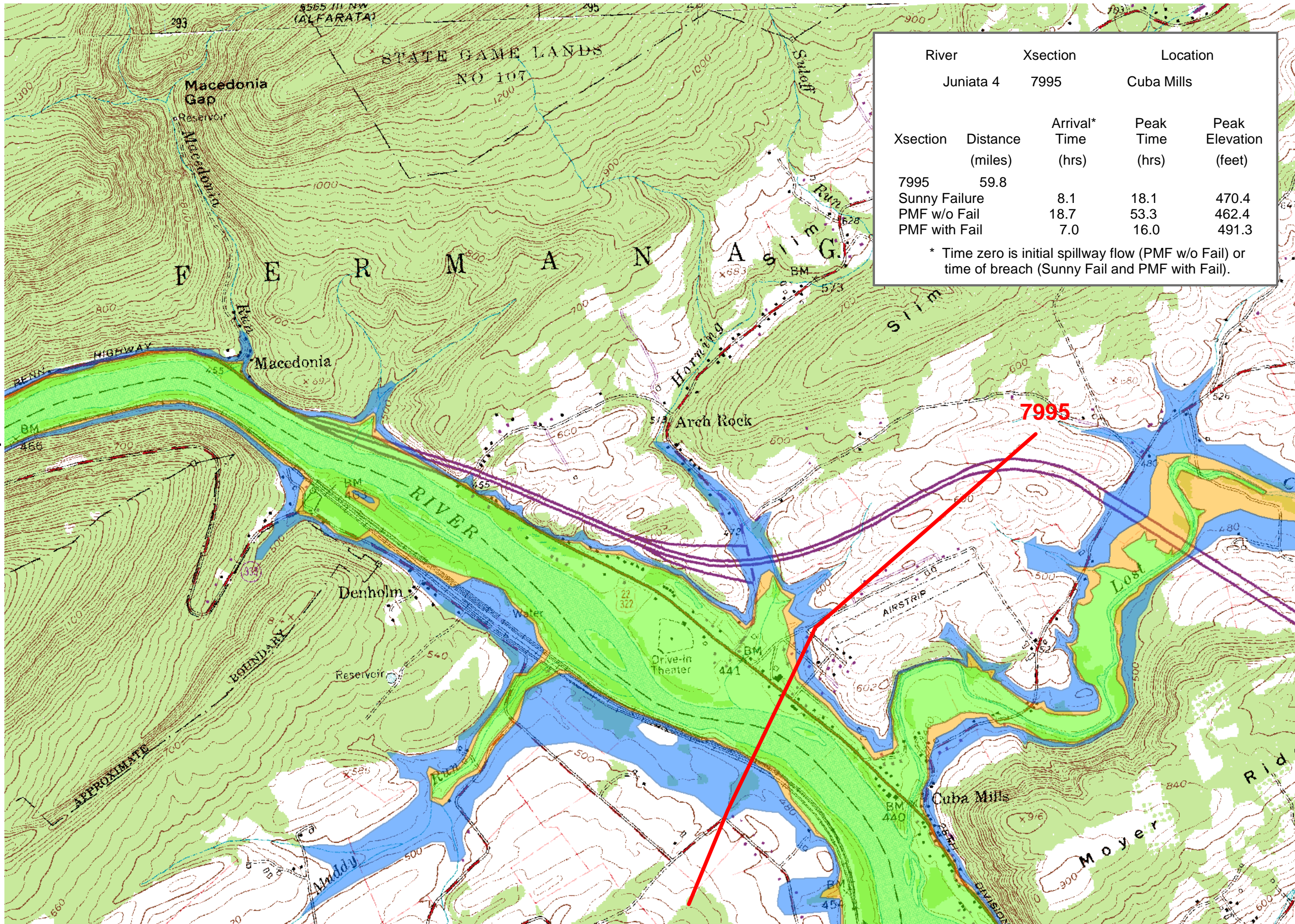
matches plate 27



### Plate 26



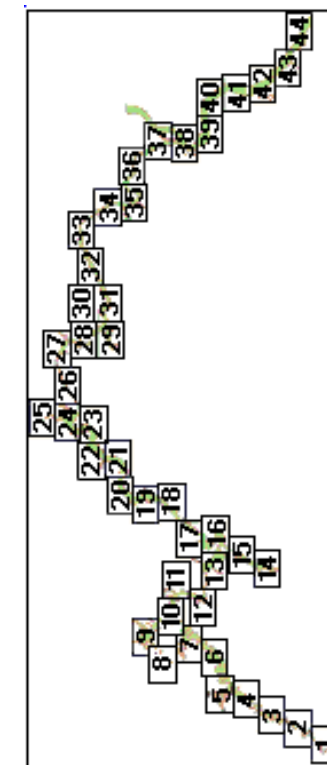
matches plate 26



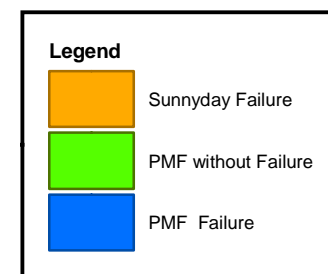
matches plate 28

River	Xsection	Location		
Juniata 4	7995	Cuba Mills		
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)
7995	59.8			
Sunny Failure		8.1	18.1	470.4
PMF w/o Fail		18.7	53.3	462.4
PMF with Fail		7.0	16.0	491.3

\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).



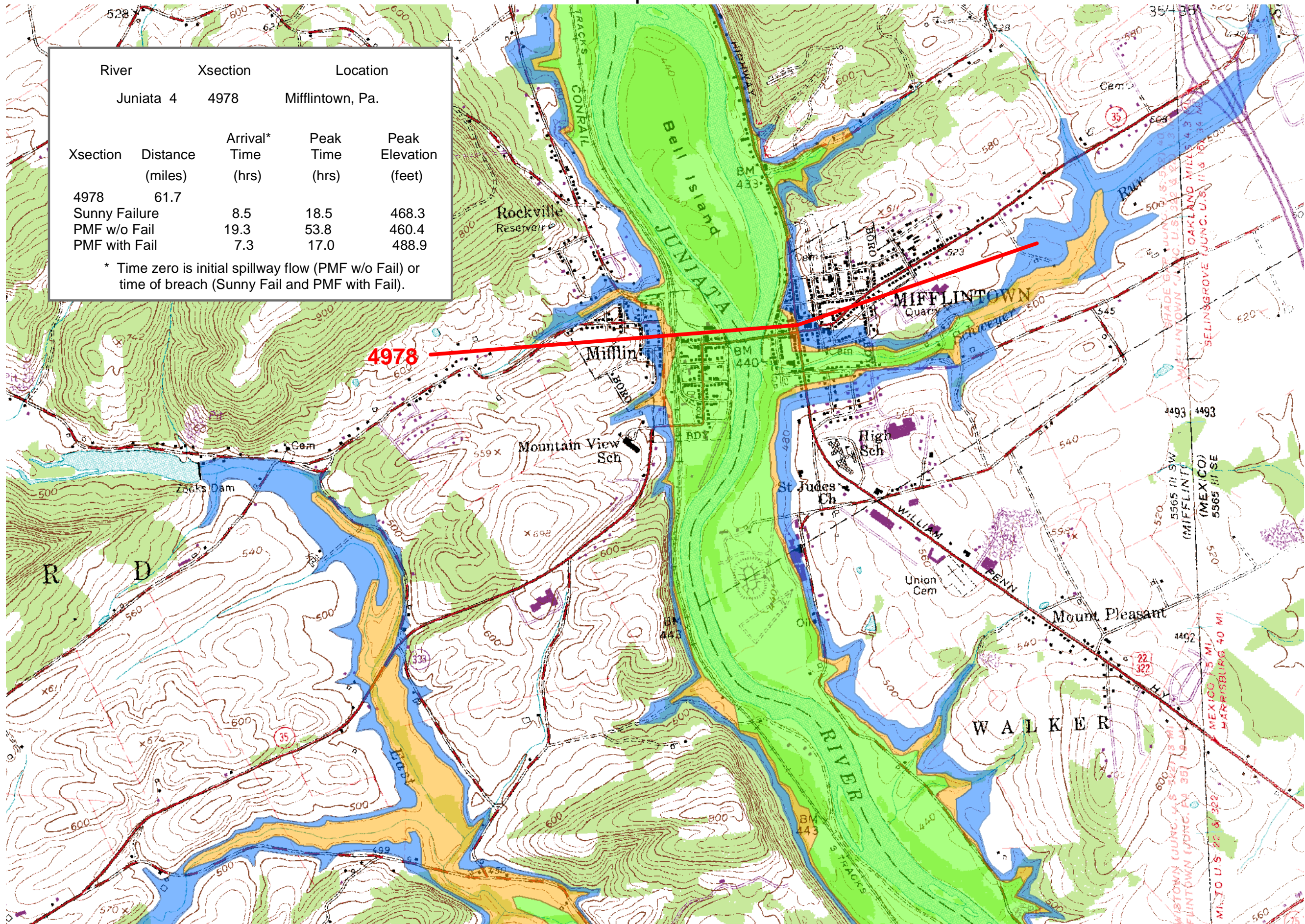
### Plate 27



matches plate 27

River	Xsection	Location		
Juniata 4	4978	Mifflintown, Pa.		
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)
4978	61.7			
Sunny Failure		8.5	18.5	468.3
PMF w/o Fail		19.3	53.8	460.4
PMF with Fail		7.3	17.0	488.9

\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).

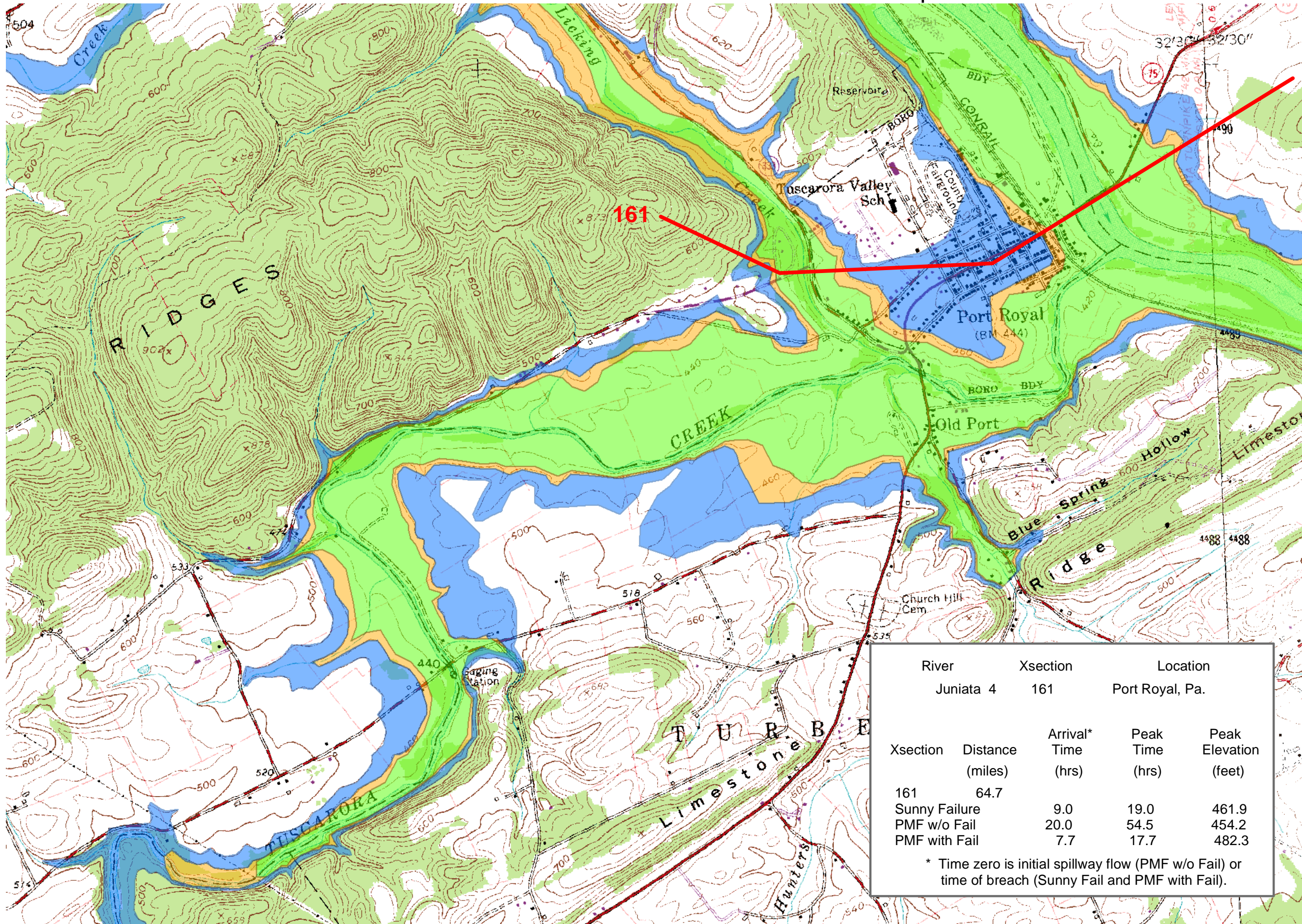


## Plate 28

Legend	
<span style="display:inline-block; width:15px; height:15px; background-color:orange;"></span>	Sunnyday Failure
<span style="display:inline-block; width:15px; height:15px; background-color:limegreen;"></span>	PMF without Failure
<span style="display:inline-block; width:15px; height:15px; background-color:blue;"></span>	PMF Failure

matches plate 29

matches plate 28



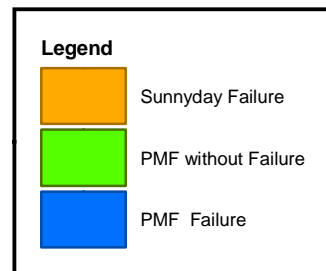
matches plate 31

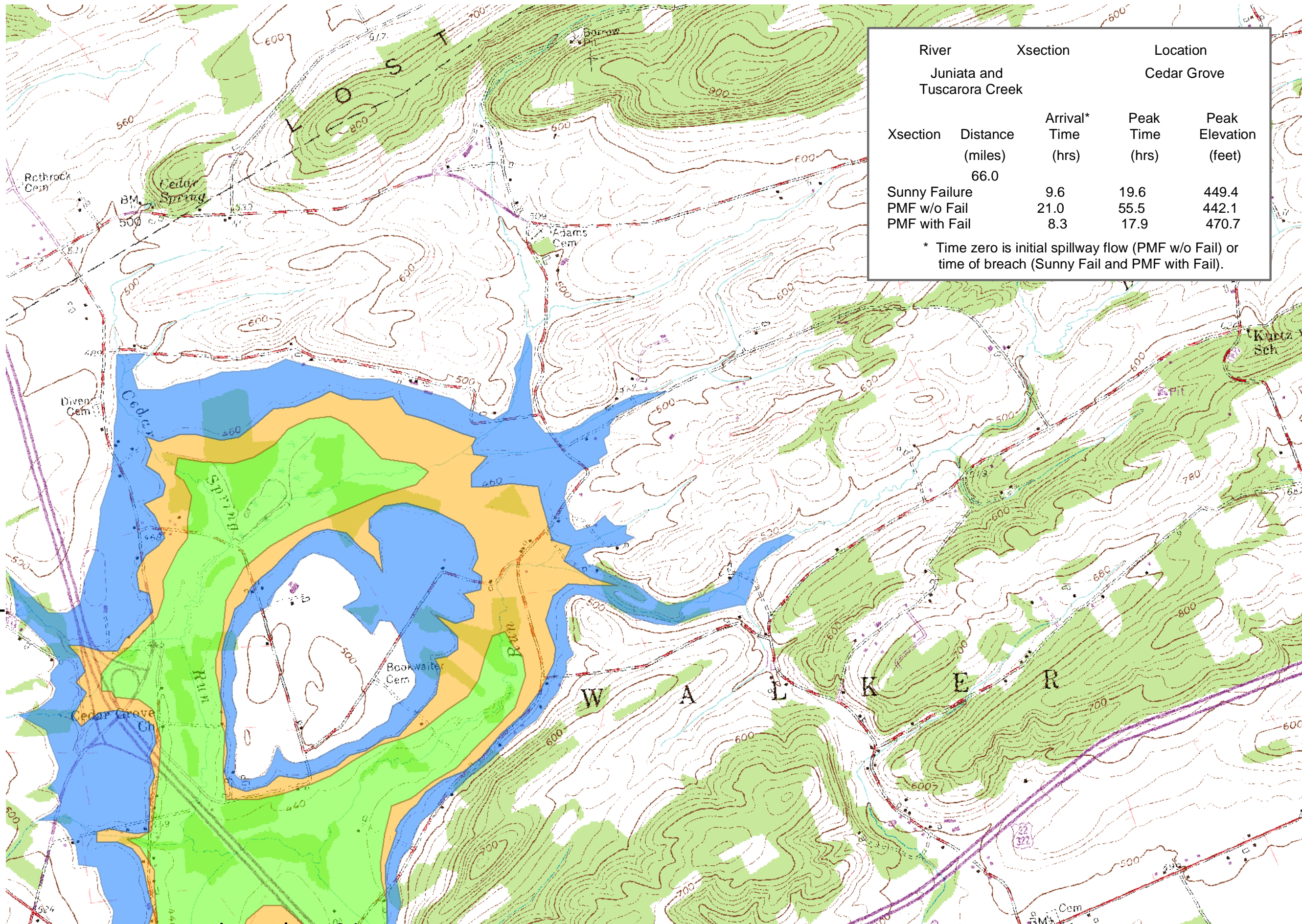


River	Xsection	Location		
Juniata	4	Port Royal, Pa.		
	161			
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)
161	64.7			
Sunny Failure		9.0	19.0	461.9
PMF w/o Fail		20.0	54.5	454.2
PMF with Fail		7.7	17.7	482.3

\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).

## Plate 29



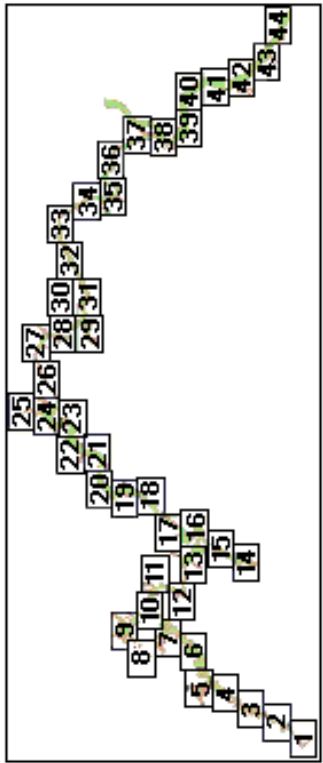


matches plate 28

matches plate 31

River		Location		
Juniata and Tuscarora Creek		Cedar Grove		
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)
	66.0			
Sunny Failure		9.6	19.6	449.4
PMF w/o Fail		21.0	55.5	442.1
PMF with Fail		8.3	17.9	470.7

\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).

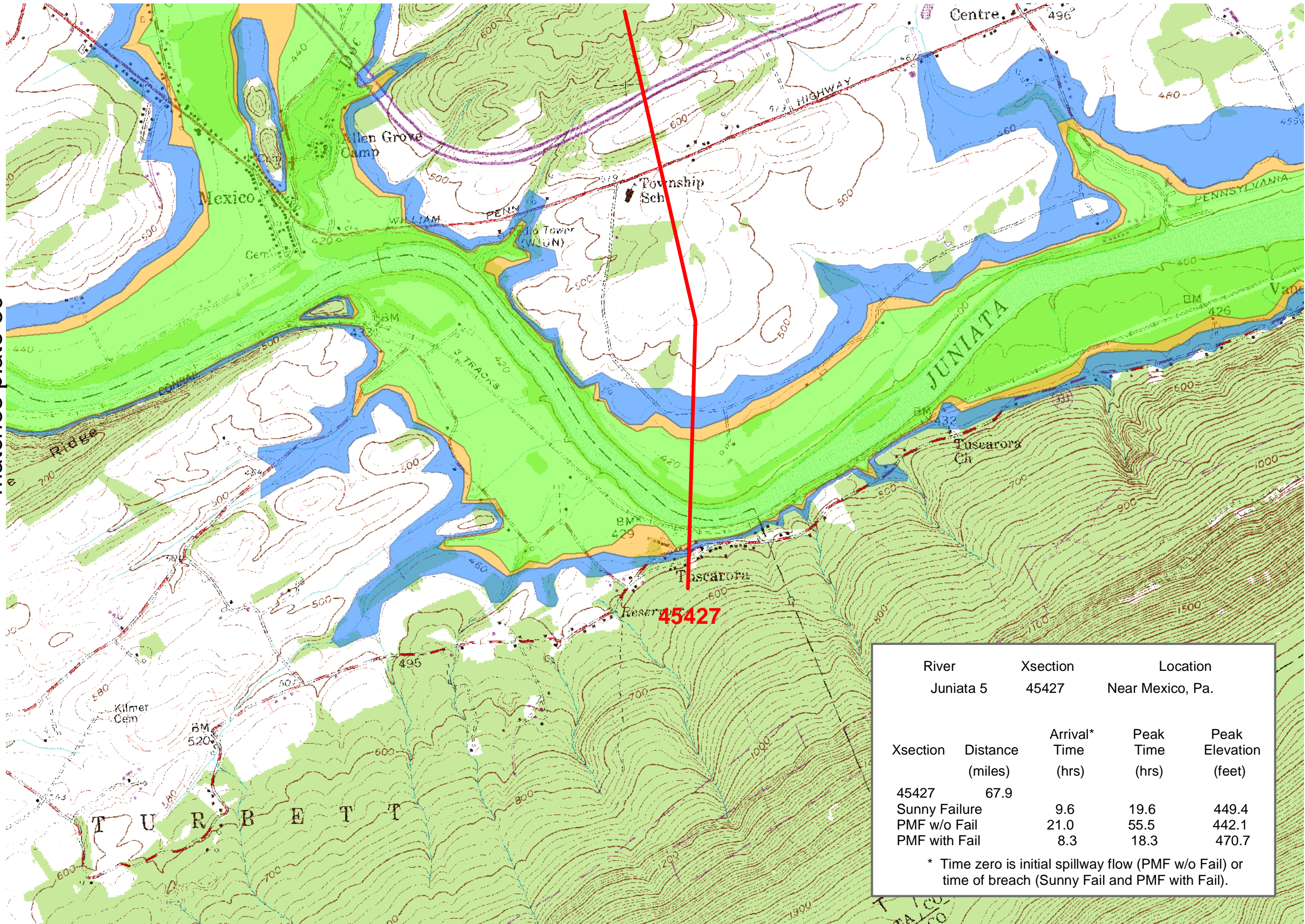


### Plate 30

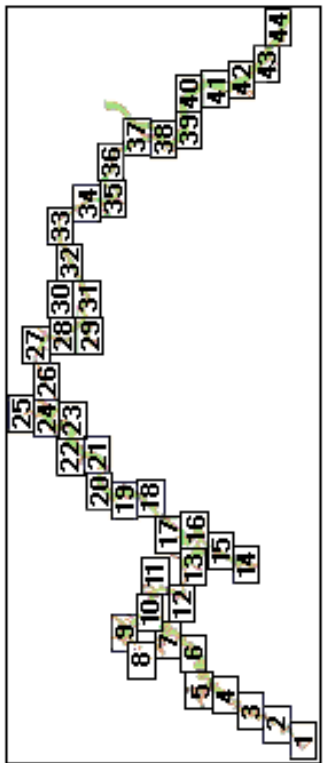
**Legend**

- Sunnyday Failure
- PMF without Failure
- PMF Failure

matches plate 30



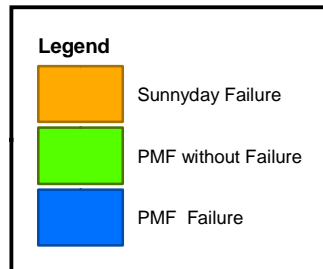
matches plate 32



River	Xsection	Location		
Juniata 5	45427	Near Mexico, Pa.		
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)
45427	67.9			
Sunny Failure		9.6	19.6	449.4
PMF w/o Fail		21.0	55.5	442.1
PMF with Fail		8.3	18.3	470.7

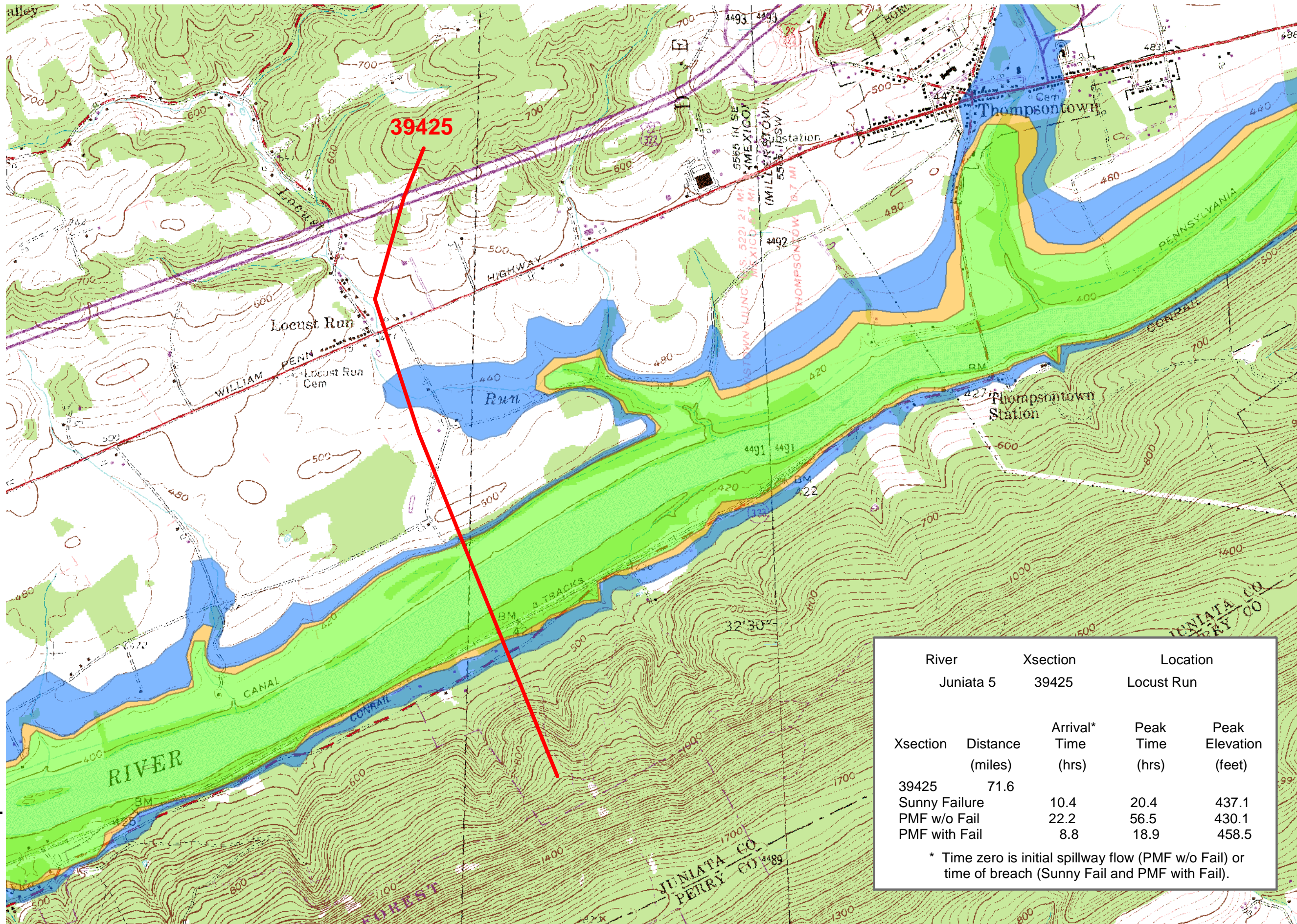
\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).

## Plate 31

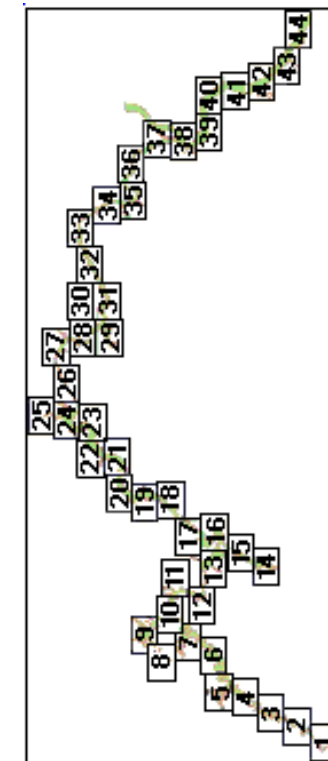




matches plate 31



matches plate 33



## Plate 32

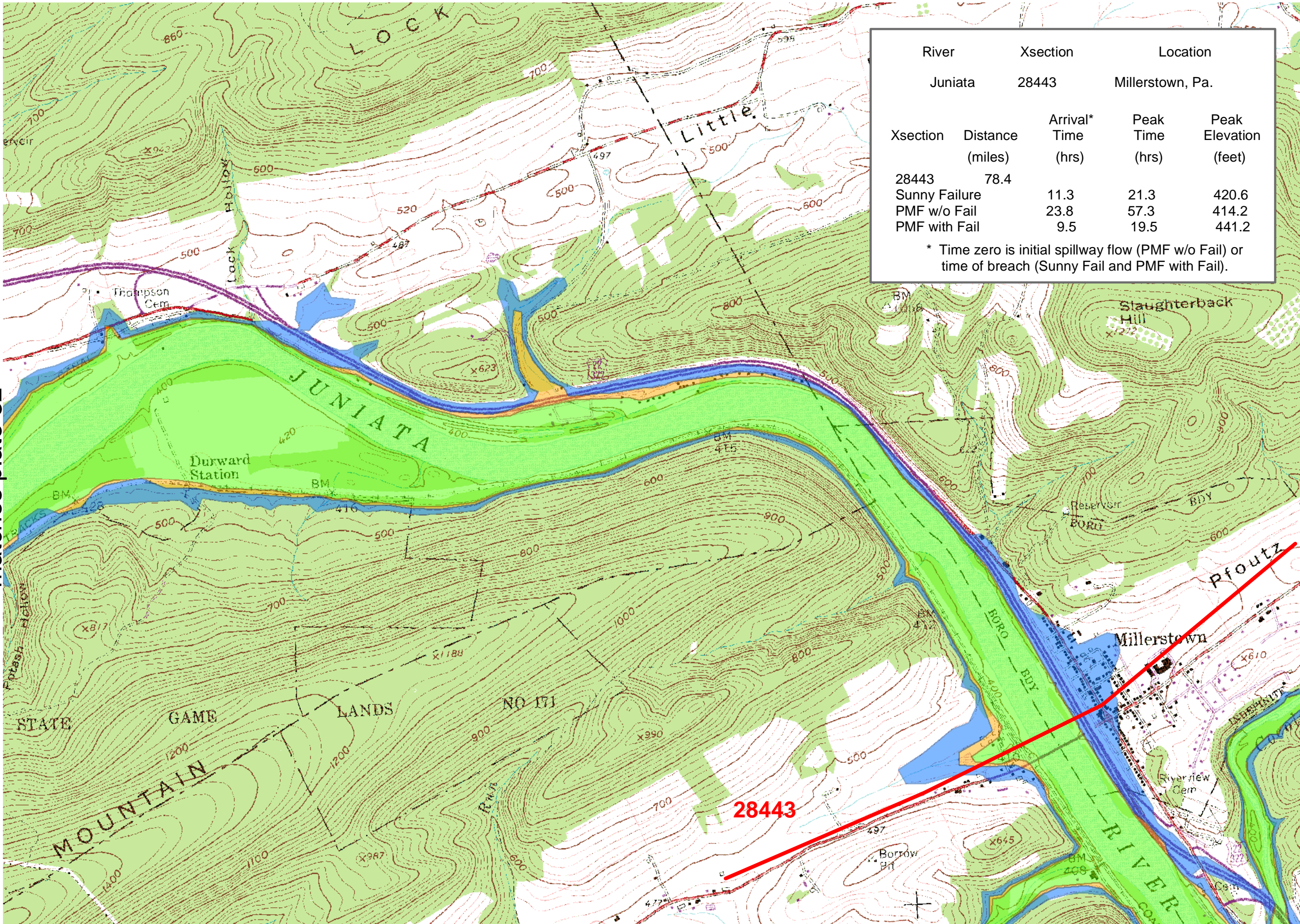
**Legend**

- Sunnyday Failure
- PMF without Failure
- PMF Failure

River	Xsection	Location		
Juniata 5	39425	Locust Run		
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)
39425	71.6			
Sunny Failure		10.4	20.4	437.1
PMF w/o Fail		22.2	56.5	430.1
PMF with Fail		8.8	18.9	458.5

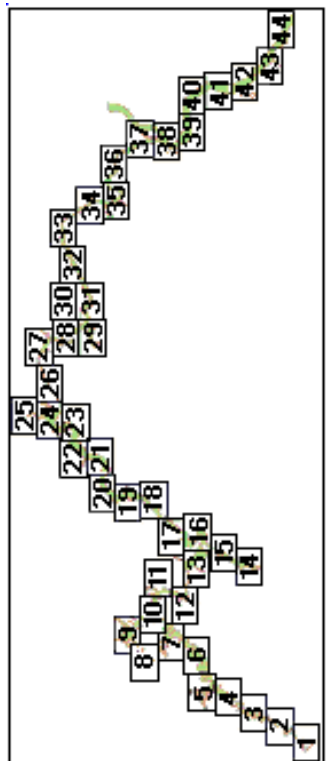
\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).

matches plate 32



River	Xsection	Location		
Juniata	28443	Millerstown, Pa.		
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)
28443	78.4			
Sunny Failure		11.3	21.3	420.6
PMF w/o Fail		23.8	57.3	414.2
PMF with Fail		9.5	19.5	441.2

\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).



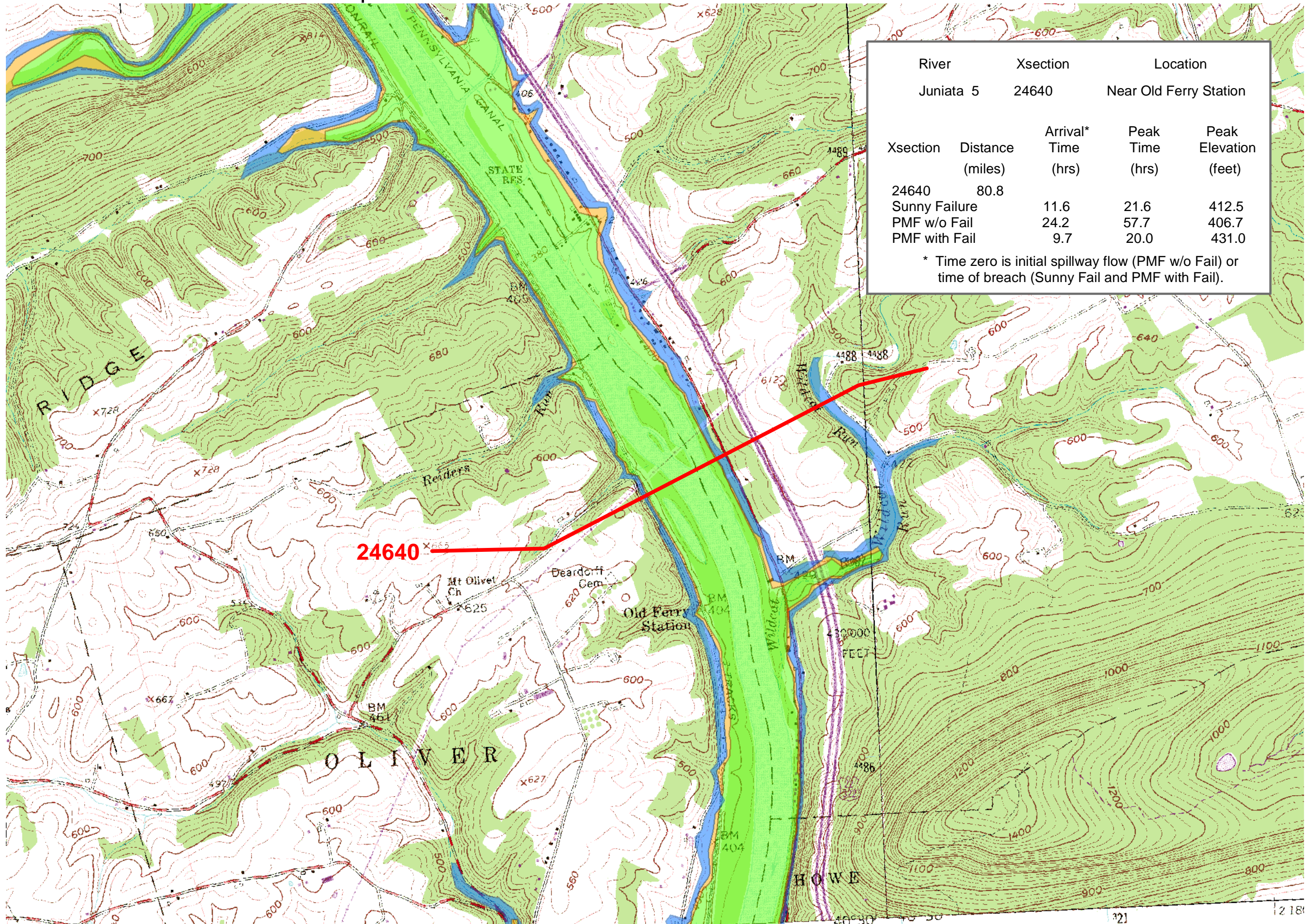
### Plate 33

**Legend**

- Sunnyday Failure
- PMF without Failure
- PMF Failure

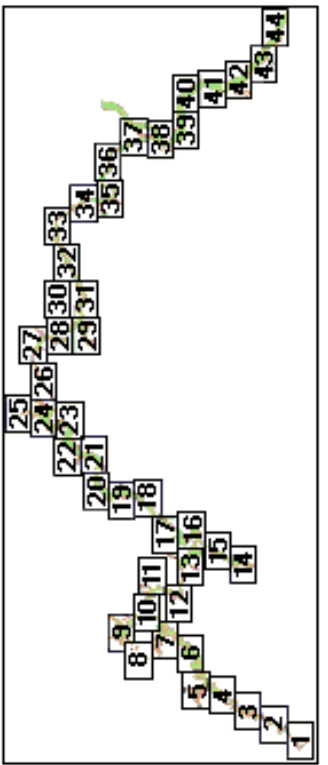
matches plate 34

matches plate 33



River	Xsection	Location		
Juniata 5	24640	Near Old Ferry Station		
Xsection	Distance (miles)	Arrival* (hrs)	Peak Time (hrs)	Peak Elevation (feet)
24640	80.8			
Sunny Failure		11.6	21.6	412.5
PMF w/o Fail		24.2	57.7	406.7
PMF with Fail		9.7	20.0	431.0

\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).

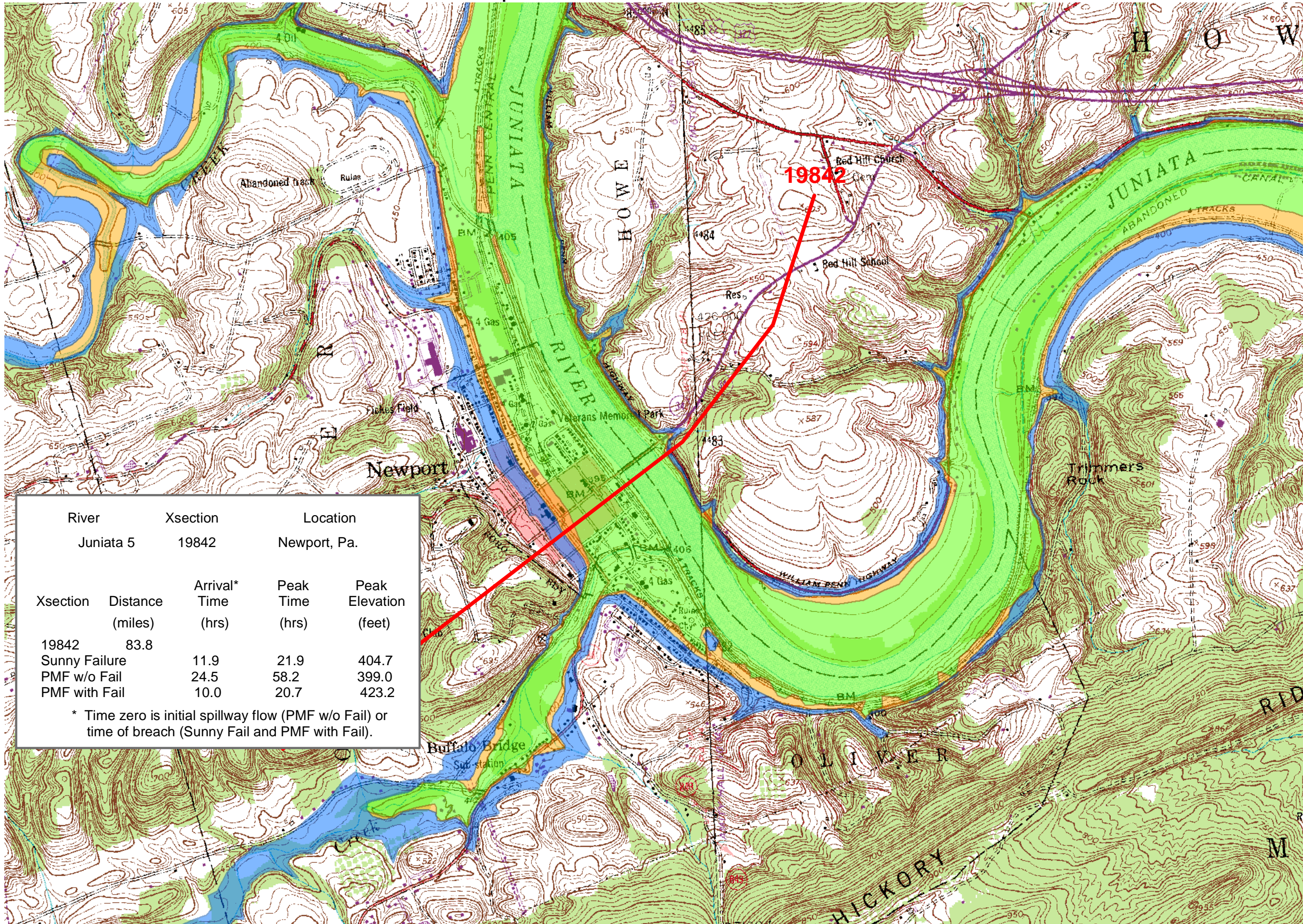


**Plate 34**

Legend	
<span style="display:inline-block; width:15px; height:15px; background-color:orange;"></span>	Sunnyday Failure
<span style="display:inline-block; width:15px; height:15px; background-color:limegreen;"></span>	PMF without Failure
<span style="display:inline-block; width:15px; height:15px; background-color:blue;"></span>	PMF Failure

matches plate 35

matches plate 34



matches plate 36



River	Xsection	Location		
Juniata 5	19842	Newport, Pa.		
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)
19842	83.8			
Sunny Failure		11.9	21.9	404.7
PMF w/o Fail		24.5	58.2	399.0
PMF with Fail		10.0	20.7	423.2

\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).

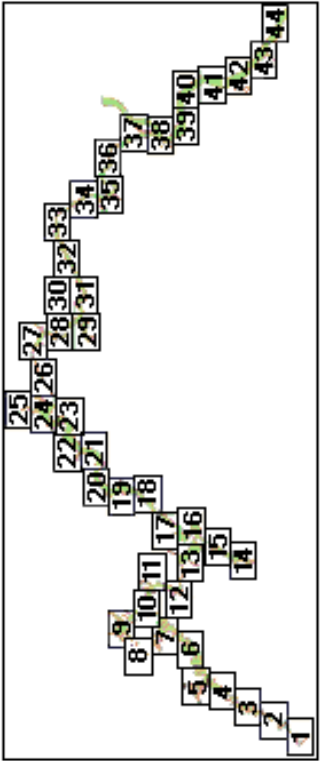
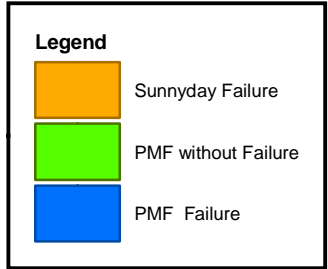
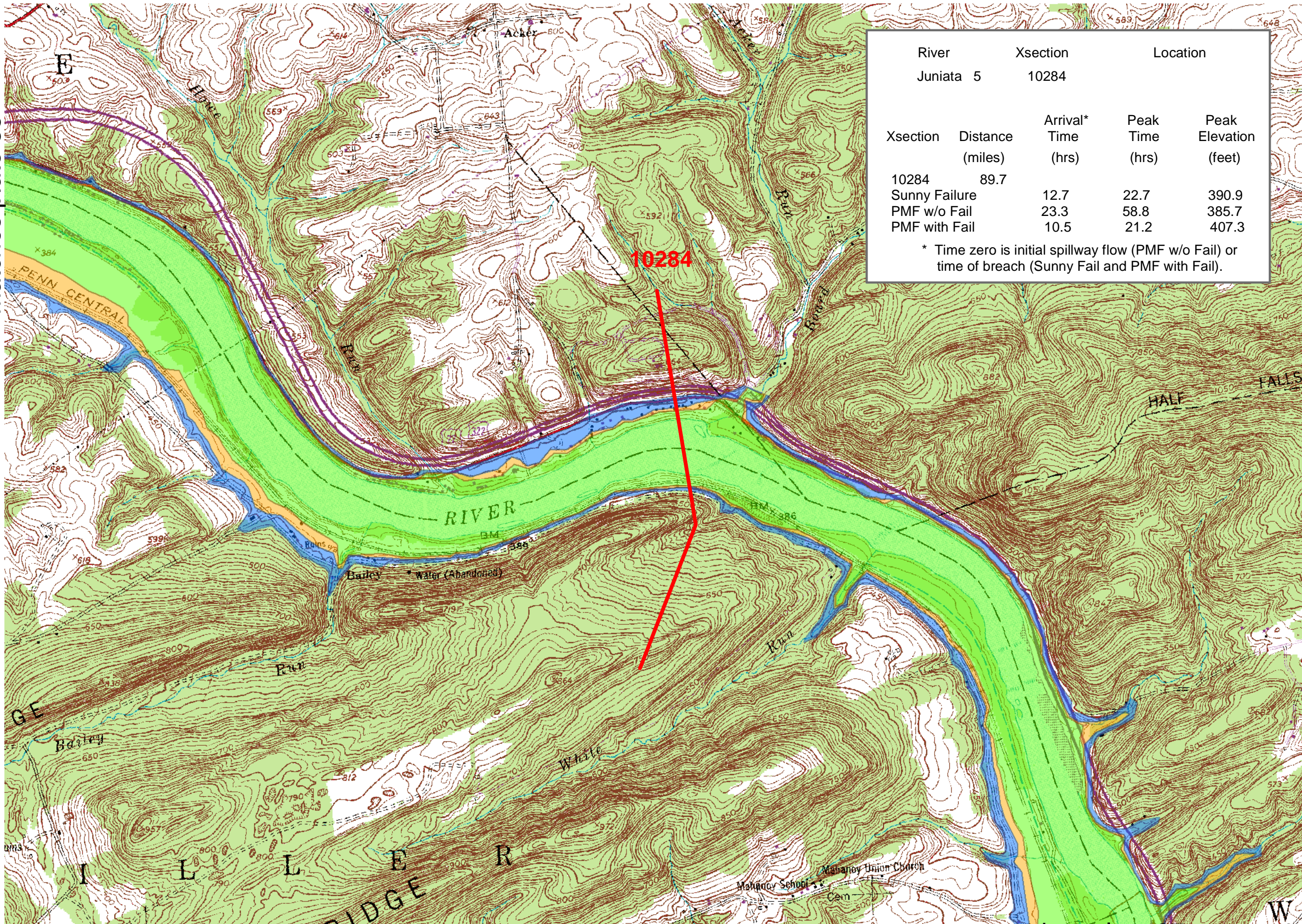


Plate 35



matches plate 35



River	Xsection	Location		
Juniata	5	10284		
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)
10284	89.7			
Sunny Failure		12.7	22.7	390.9
PMF w/o Fail		23.3	58.8	385.7
PMF with Fail		10.5	21.2	407.3

\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).



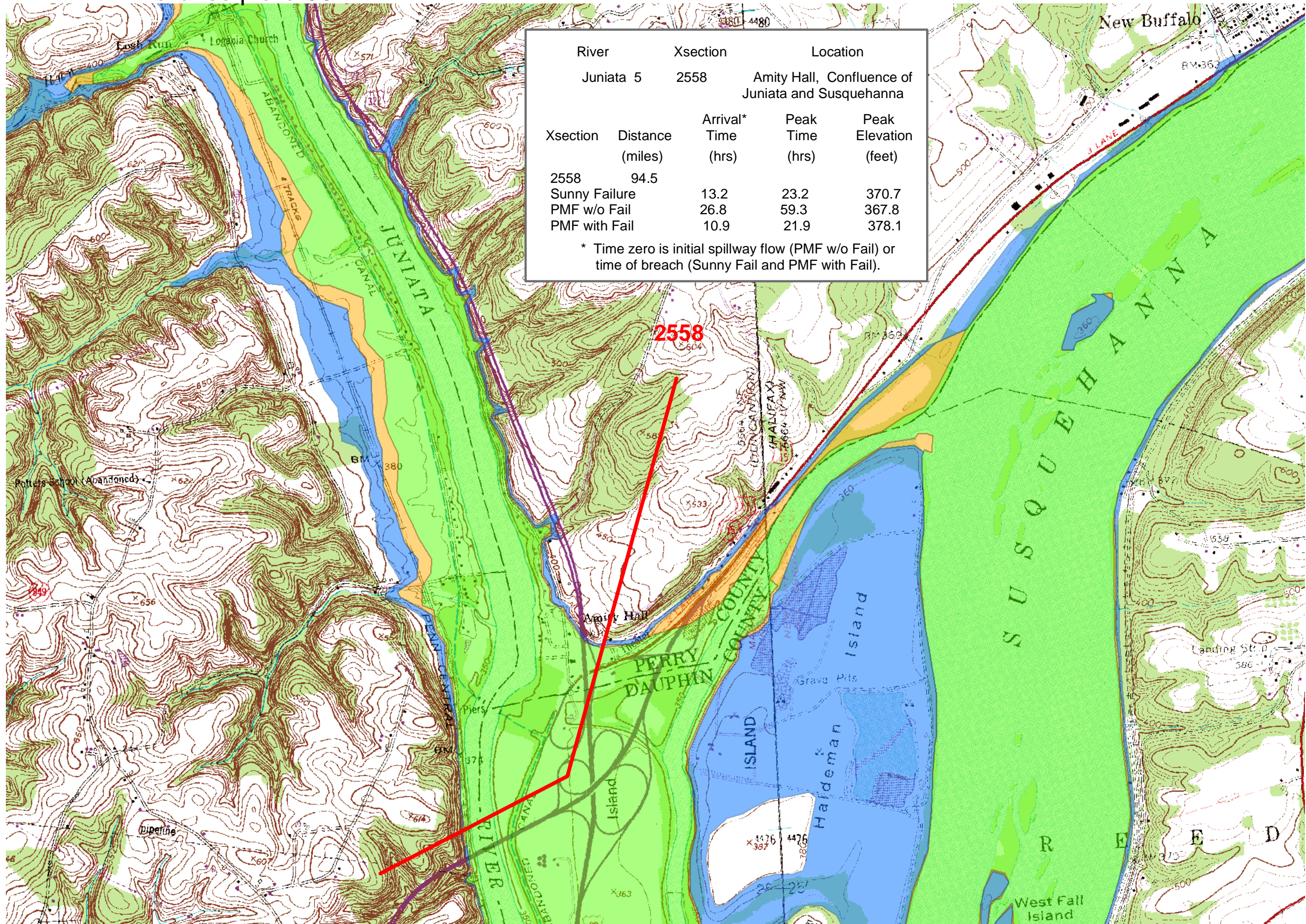
### Plate 36

**Legend**

- Sunnyday Failure
- PMF without Failure
- PMF Failure

matches plate 37

matches plate 36



River	Xsection	Location		
Juniata 5	2558	Amity Hall, Confluence of Juniata and Susquehanna		
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)
2558	94.5			
Sunny Failure		13.2	23.2	370.7
PMF w/o Fail		26.8	59.3	367.8
PMF with Fail		10.9	21.9	378.1

\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).

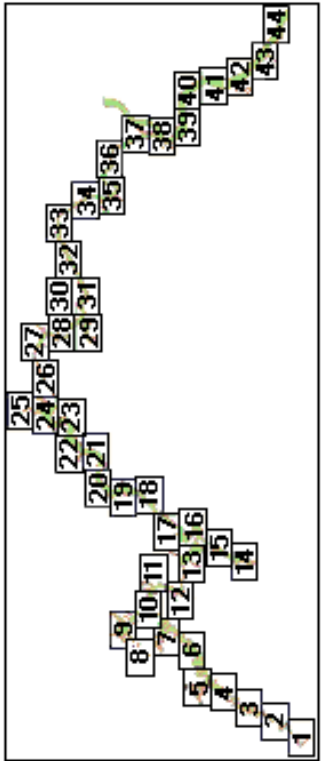
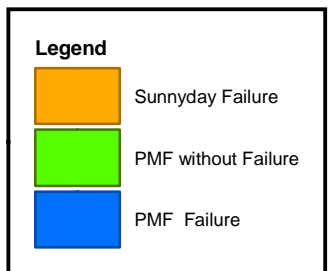
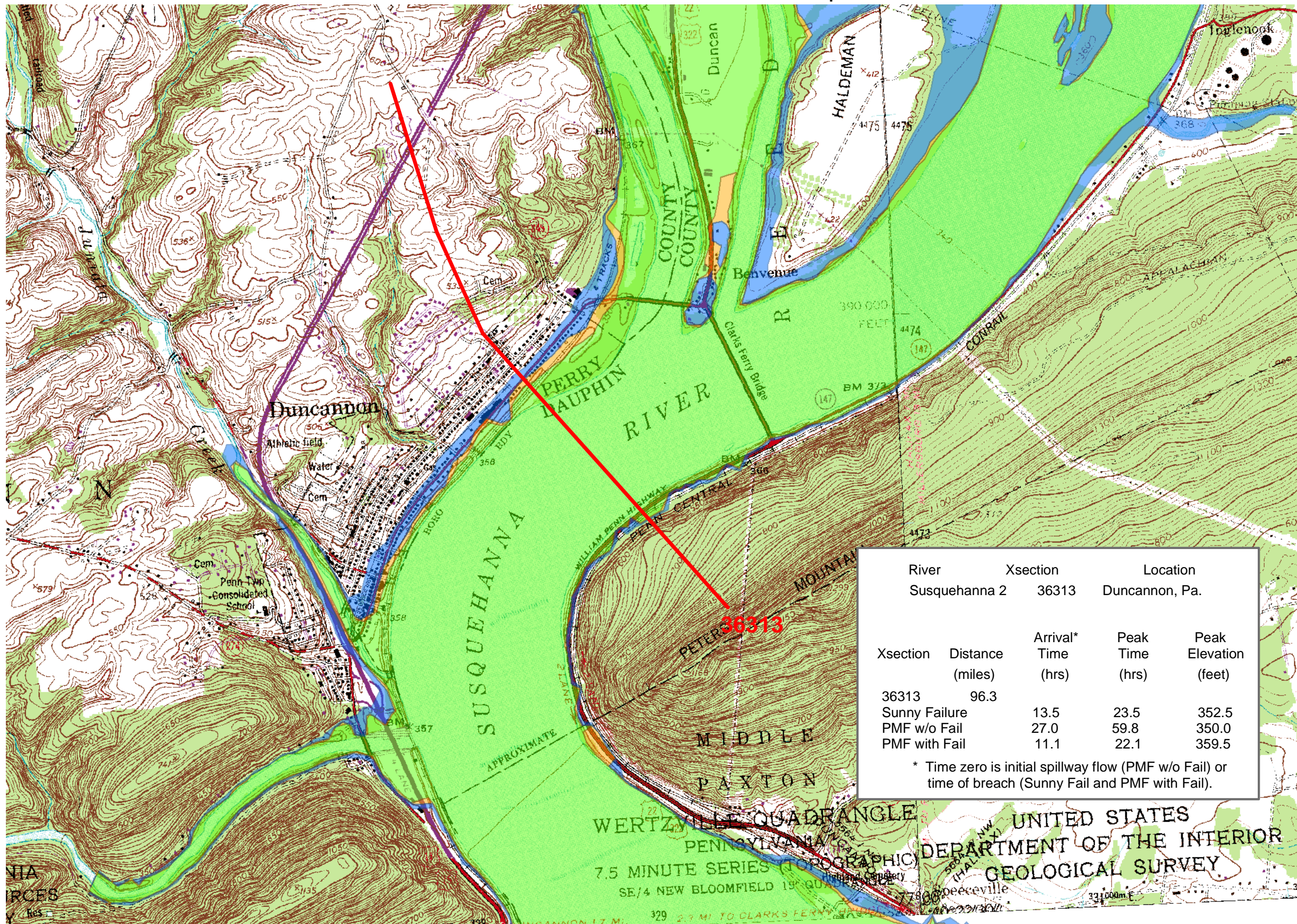


Plate 37



matches plate 38

matches plate 37



River	Xsection	Location		
Susquehanna 2	36313	Duncannon, Pa.		
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)
36313	96.3			
Sunny Failure		13.5	23.5	352.5
PMF w/o Fail		27.0	59.8	350.0
PMF with Fail		11.1	22.1	359.5

\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).

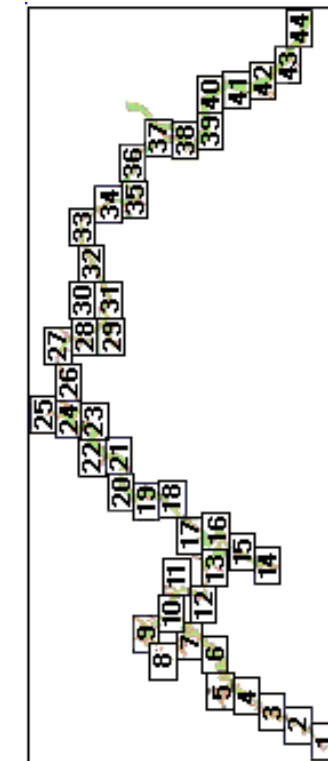


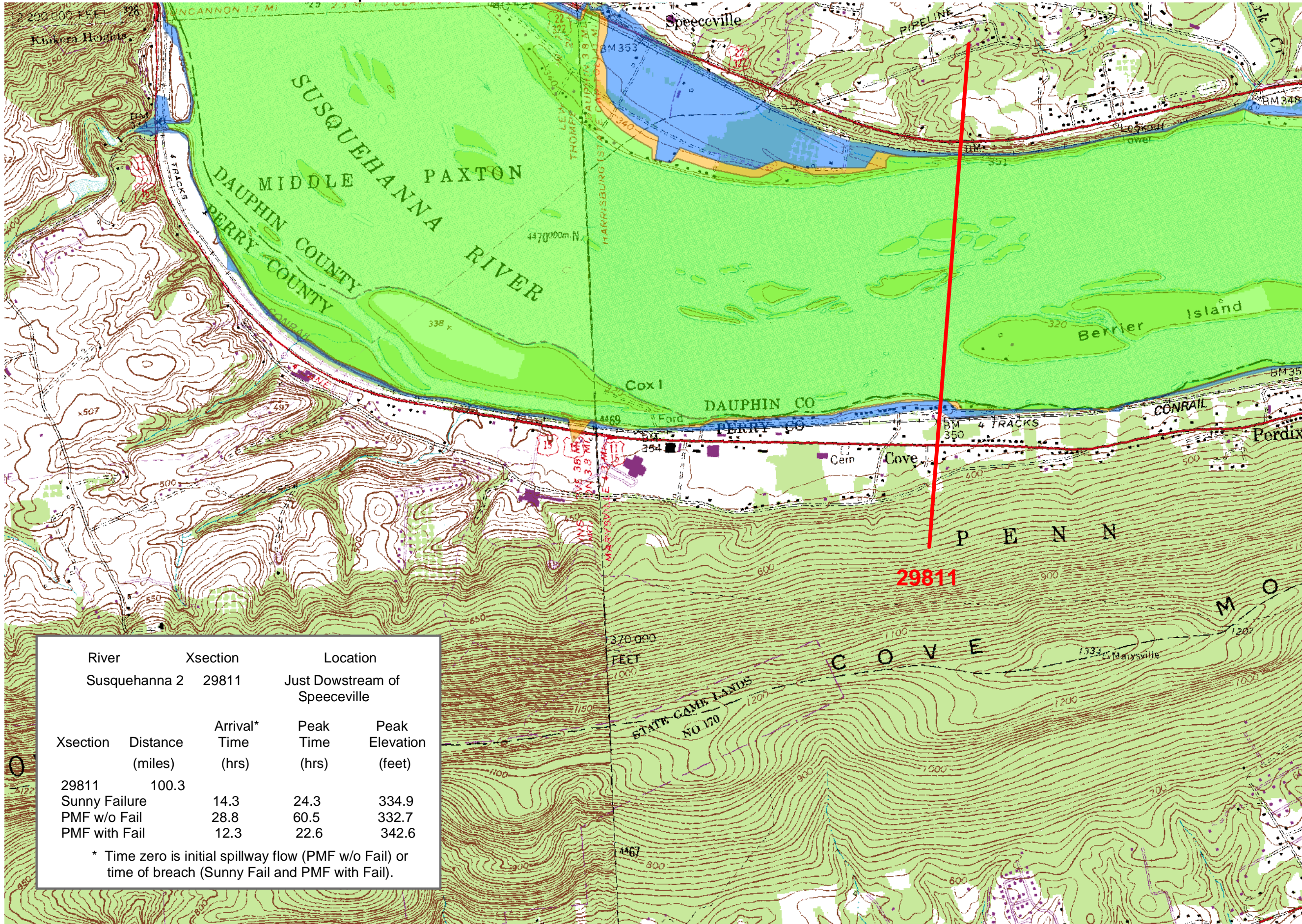
Plate 38

**Legend**

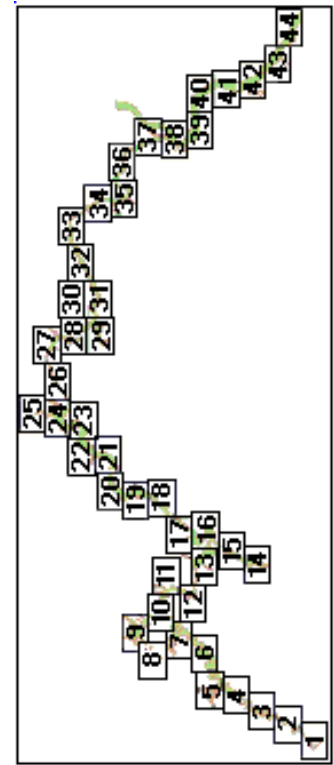
- Sunnyday Failure
- PMF without Failure
- PMF Failure

matches plate 39

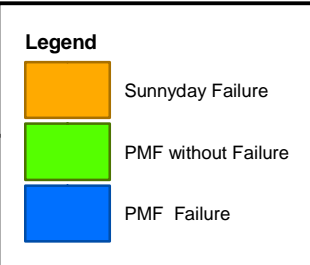
matches plate 38



matches plate 40



### Plate 39

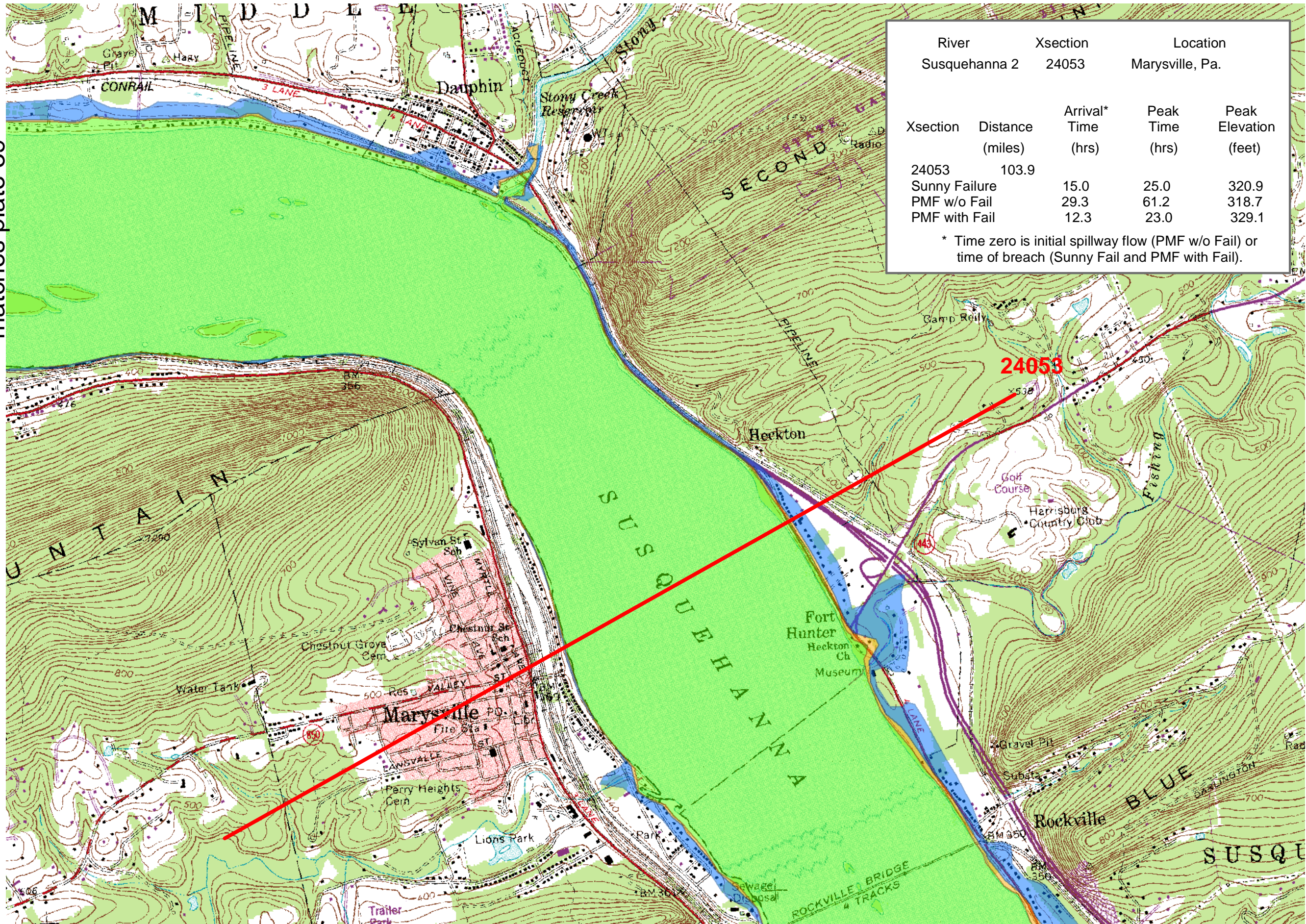


River	Xsection	Location		
Susquehanna 2	29811	Just Downstream of Speecville		
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)
29811	100.3			
Sunny Failure		14.3	24.3	334.9
PMF w/o Fail		28.8	60.5	332.7
PMF with Fail		12.3	22.6	342.6

\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).

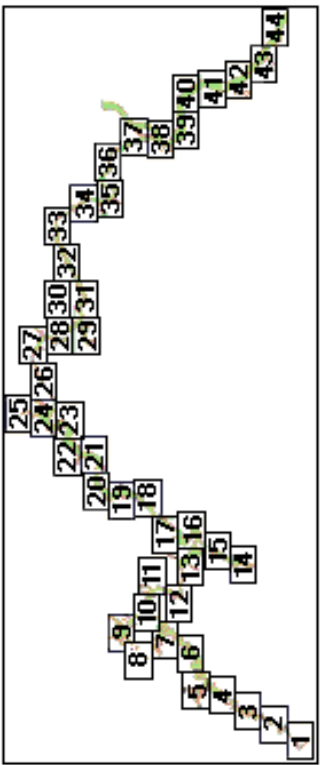


matches plate 39



River	Xsection	Location		
Susquehanna 2	24053	Marysville, Pa.		
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)
24053	103.9			
Sunny Failure		15.0	25.0	320.9
PMF w/o Fail		29.3	61.2	318.7
PMF with Fail		12.3	23.0	329.1

\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).



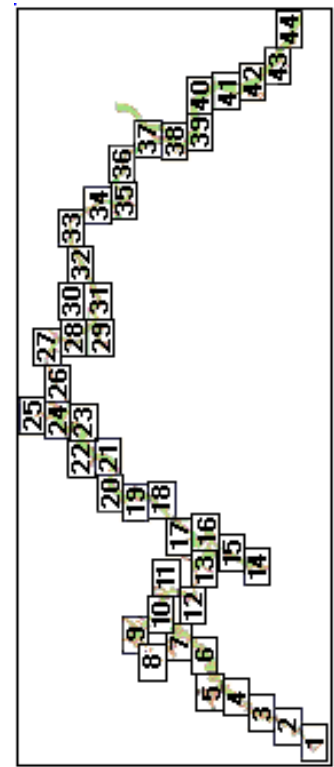
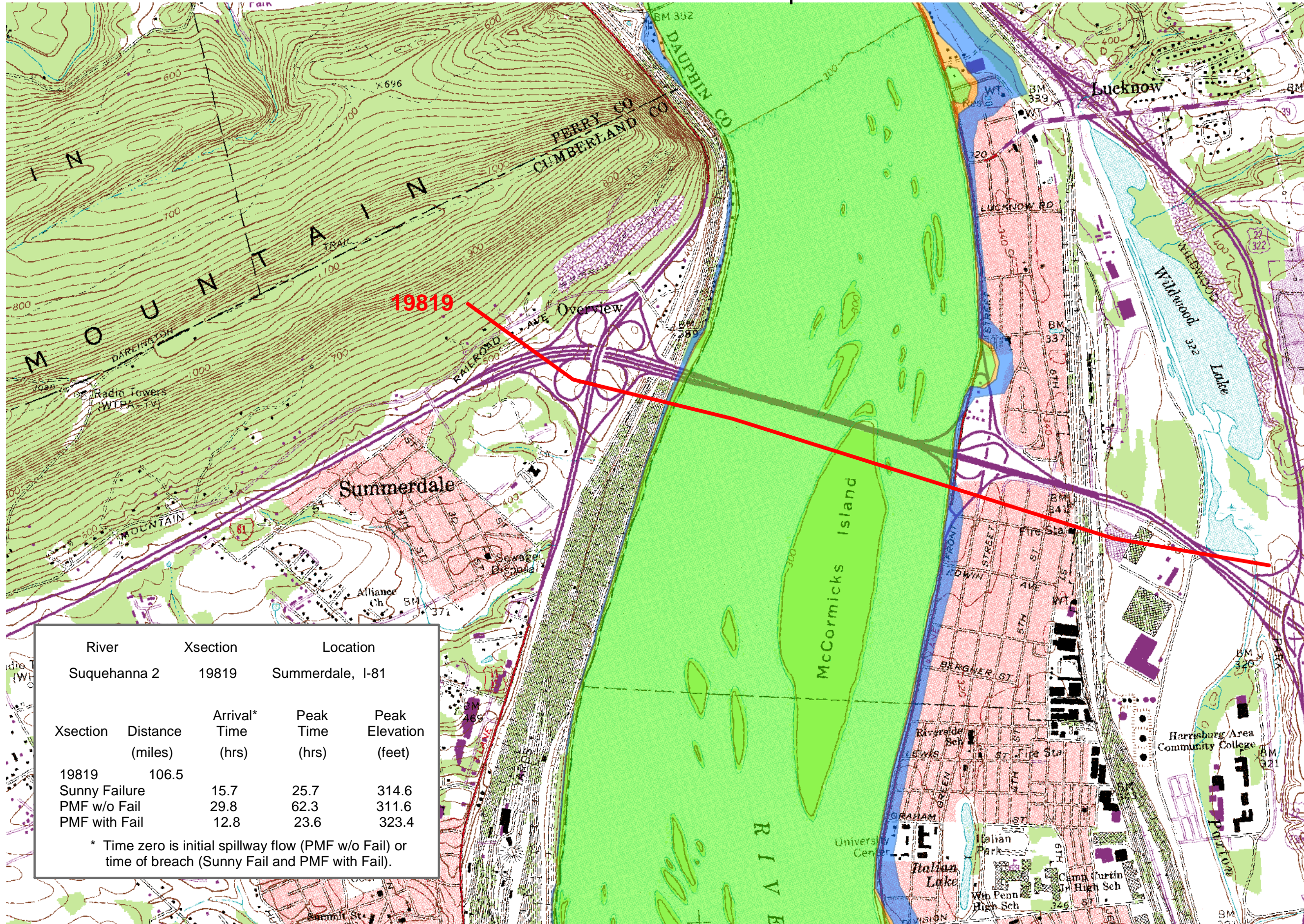
### Plate 40

**Legend**

- Sunnyday Failure
- PMF without Failure
- PMF Failure

matches plate 41

matches plate 40



River	Xsection	Location		
Suquehanna 2	19819	Summerdale, I-81		
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)
19819	106.5			
Sunny Failure		15.7	25.7	314.6
PMF w/o Fail		29.8	62.3	311.6
PMF with Fail		12.8	23.6	323.4

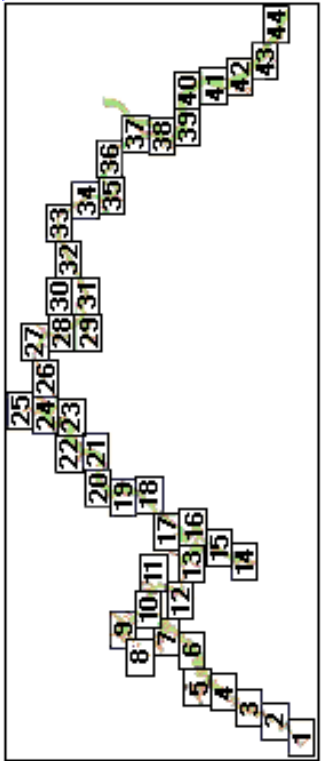
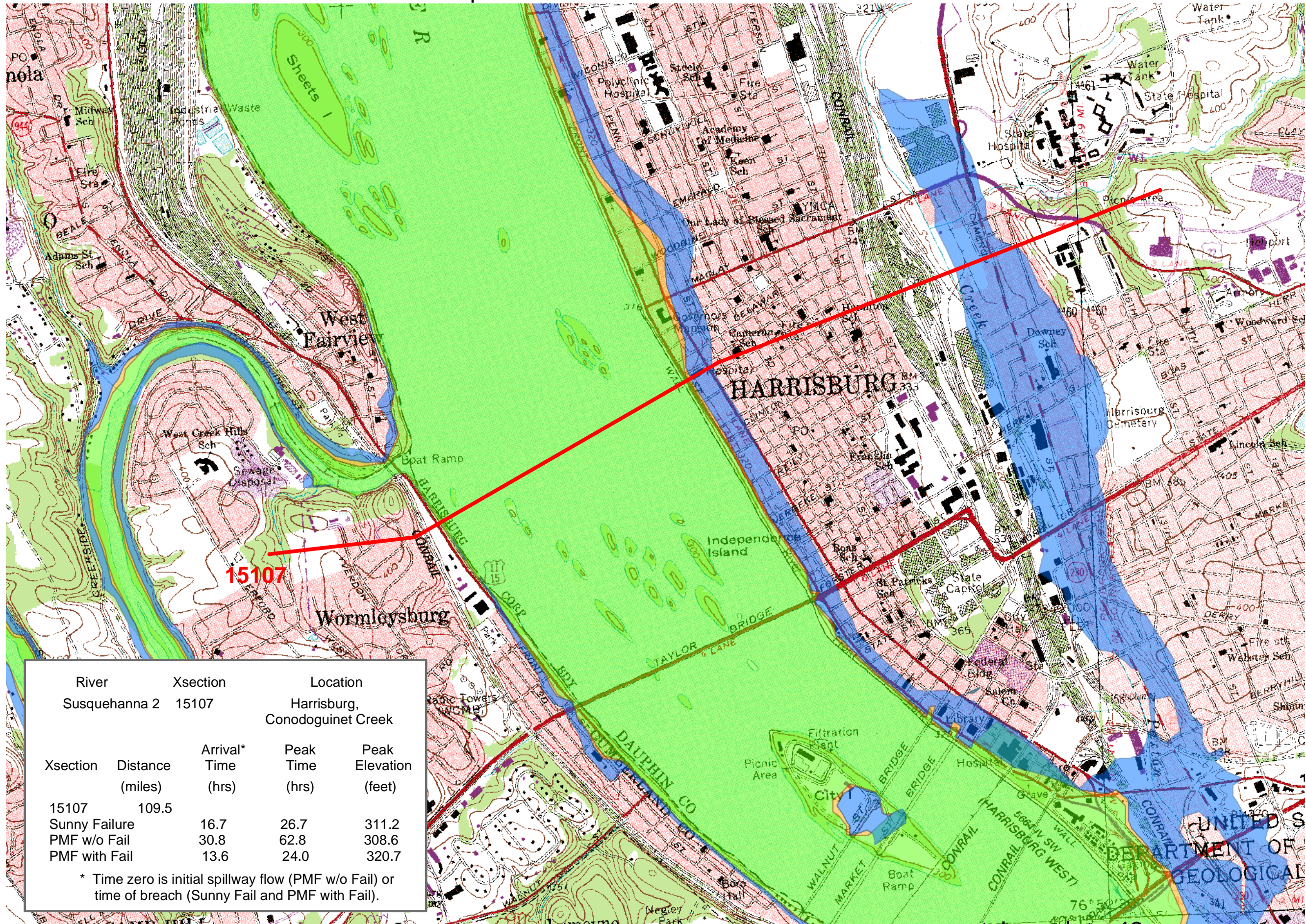
\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).

### Plate 41

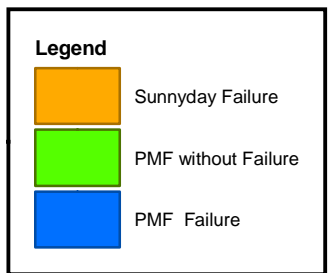
Legend	
<span style="display:inline-block; width:15px; height:15px; background-color:orange;"></span>	Sunnyday Failure
<span style="display:inline-block; width:15px; height:15px; background-color:limegreen;"></span>	PMF without Failure
<span style="display:inline-block; width:15px; height:15px; background-color:blue;"></span>	PMF Failure

matches plate 42

matches plate 41



### Plate 42

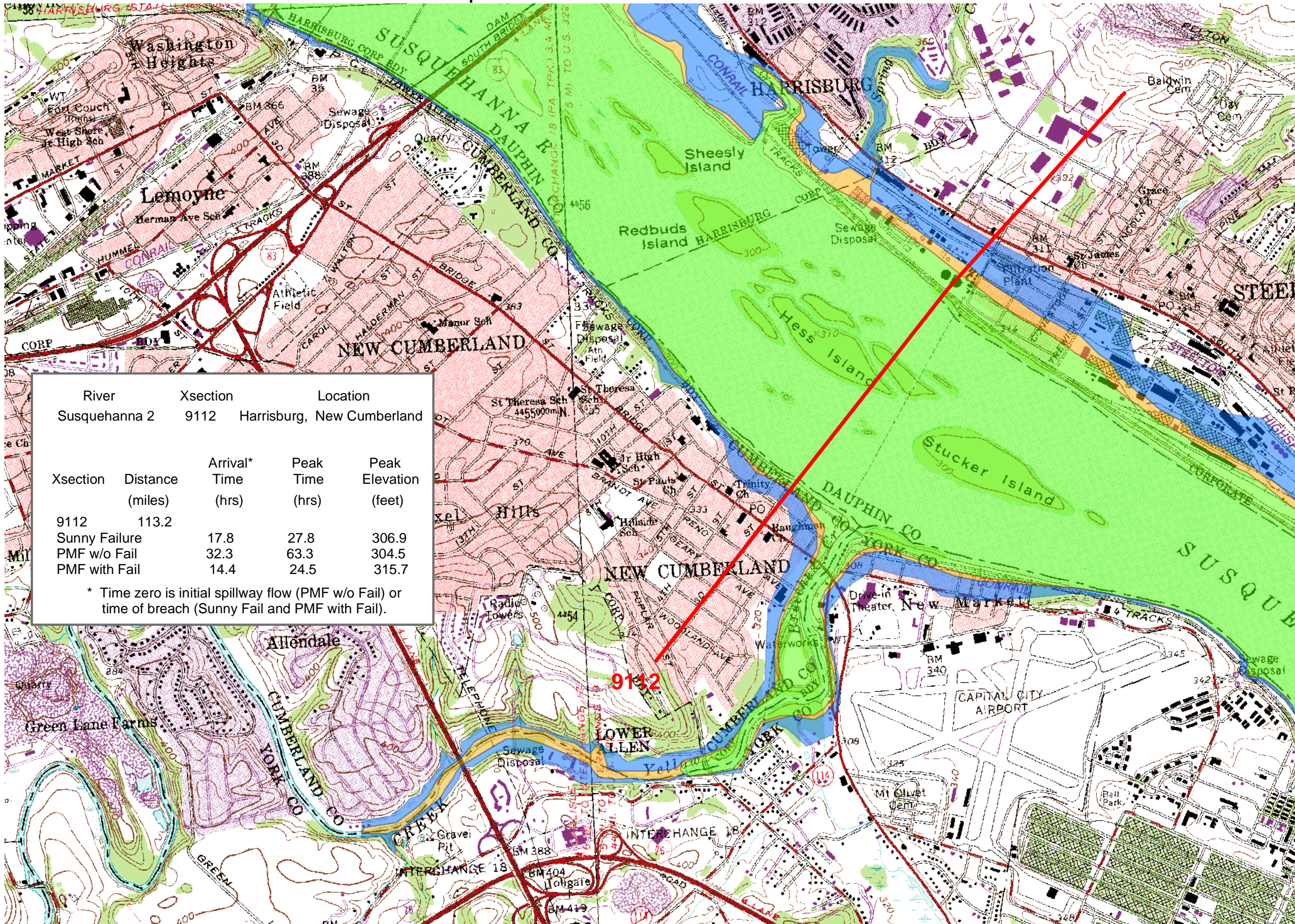


River	Xsection	Location		
Susquehanna 2	15107	Harrisburg, Conodoguinet Creek		
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)
15107	109.5			
Sunny Failure		16.7	26.7	311.2
PMF w/o Fail		30.8	62.8	308.6
PMF with Fail		13.6	24.0	320.7

\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).

matches plate 43

matches plate 42



River	Xsection	Location			
Susquehanna 2	9112	Harrisburg, New Cumberland			
Xsection	Distance (miles)	Arrival* (hrs)	Peak Time (hrs)	Peak Elevation (feet)	
9112	113.2				
Sunny Failure		17.8	27.8	306.9	
PMF w/o Fail		32.3	63.3	304.5	
PMF with Fail		14.4	24.5	315.7	

\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).

matches plate 44

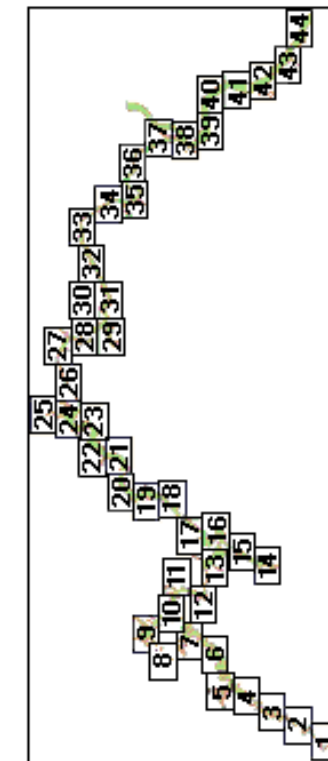
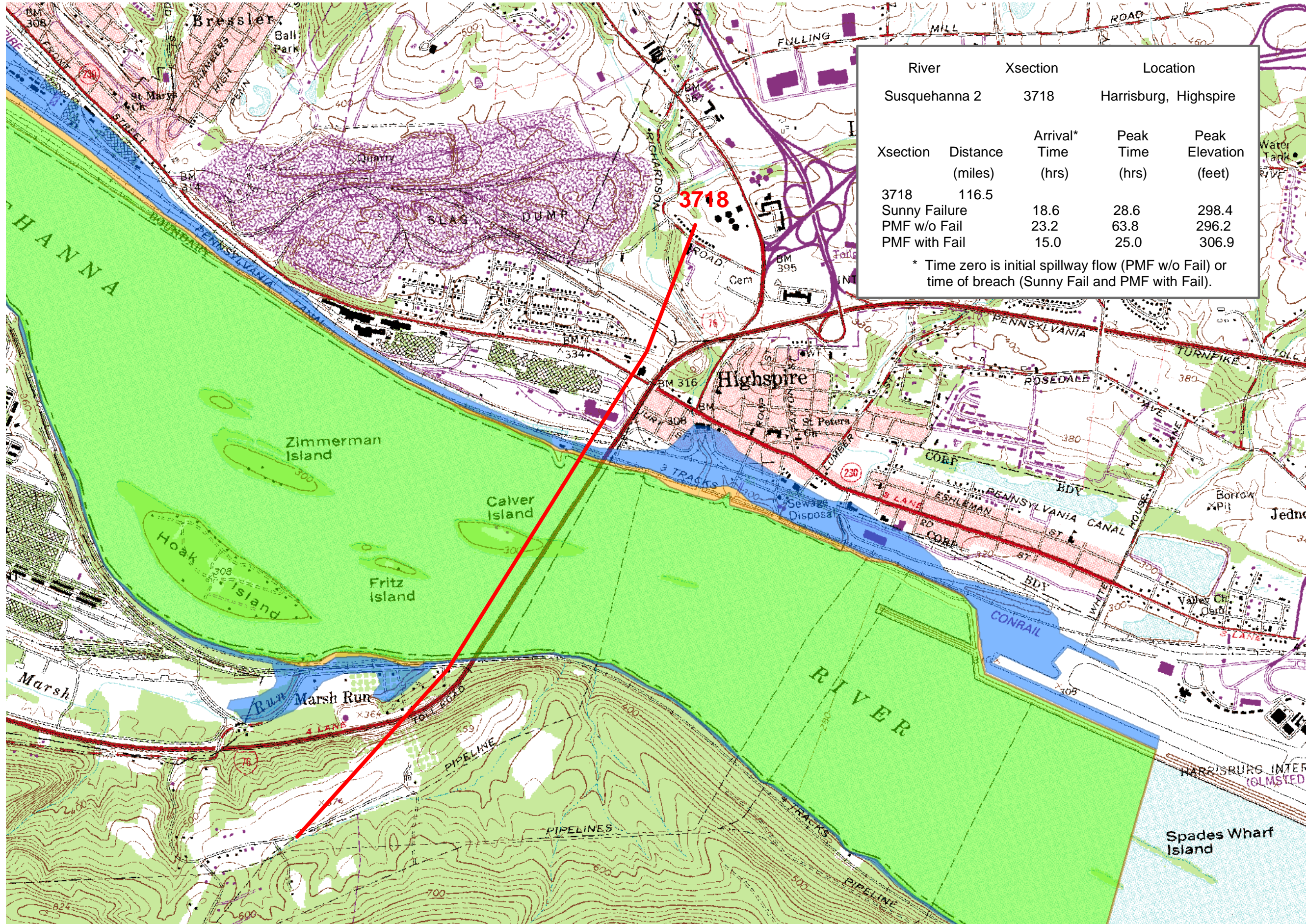


Plate 43

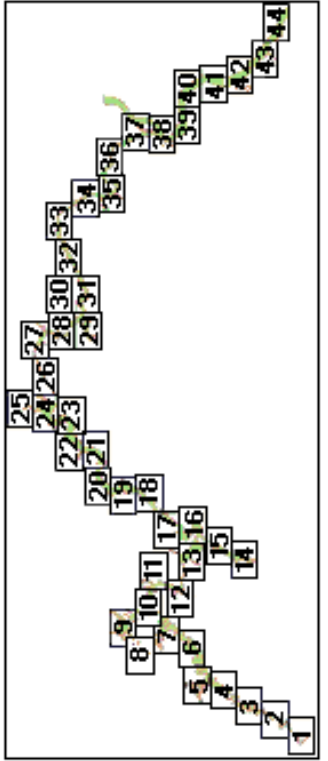
Legend	
<span style="display:inline-block; width:15px; height:15px; background-color:orange;"></span>	Sunnyday Failure
<span style="display:inline-block; width:15px; height:15px; background-color:limegreen;"></span>	PMF without Failure
<span style="display:inline-block; width:15px; height:15px; background-color:blue;"></span>	PMF Failure

matches plate 43



River	Xsection	Location		
Susquehanna 2	3718	Harrisburg, Highspire		
Xsection	Distance (miles)	Arrival* Time (hrs)	Peak Time (hrs)	Peak Elevation (feet)
3718	116.5			
Sunny Failure		18.6	28.6	298.4
PMF w/o Fail		23.2	63.8	296.2
PMF with Fail		15.0	25.0	306.9

\* Time zero is initial spillway flow (PMF w/o Fail) or time of breach (Sunny Fail and PMF with Fail).



**Plate 44**

**Legend**

- Sunnyday Failure
- PMF without Failure
- PMF Failure

end of study