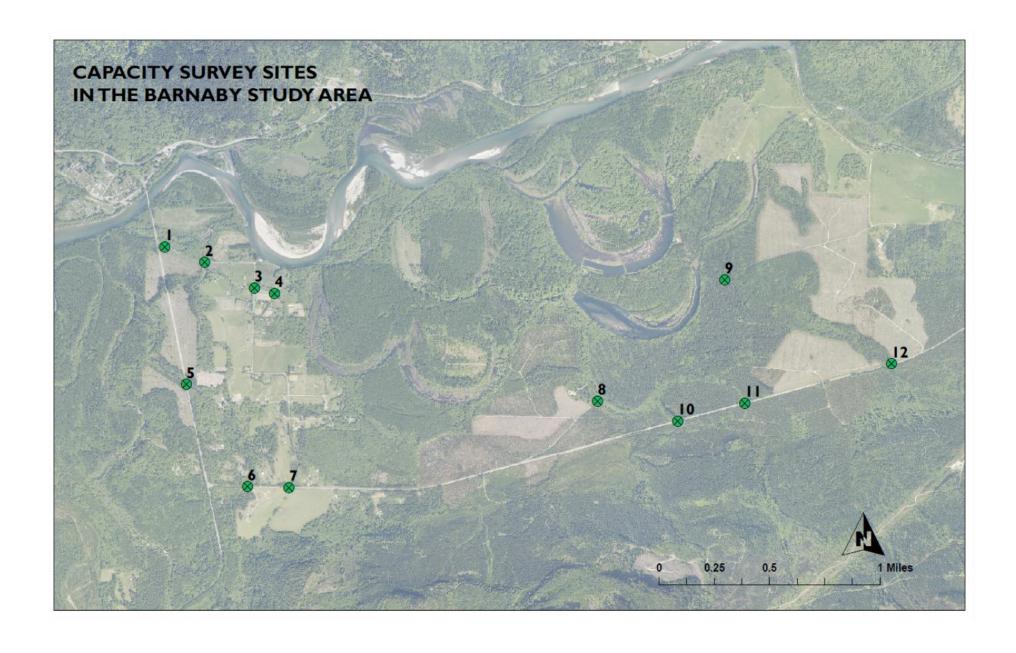
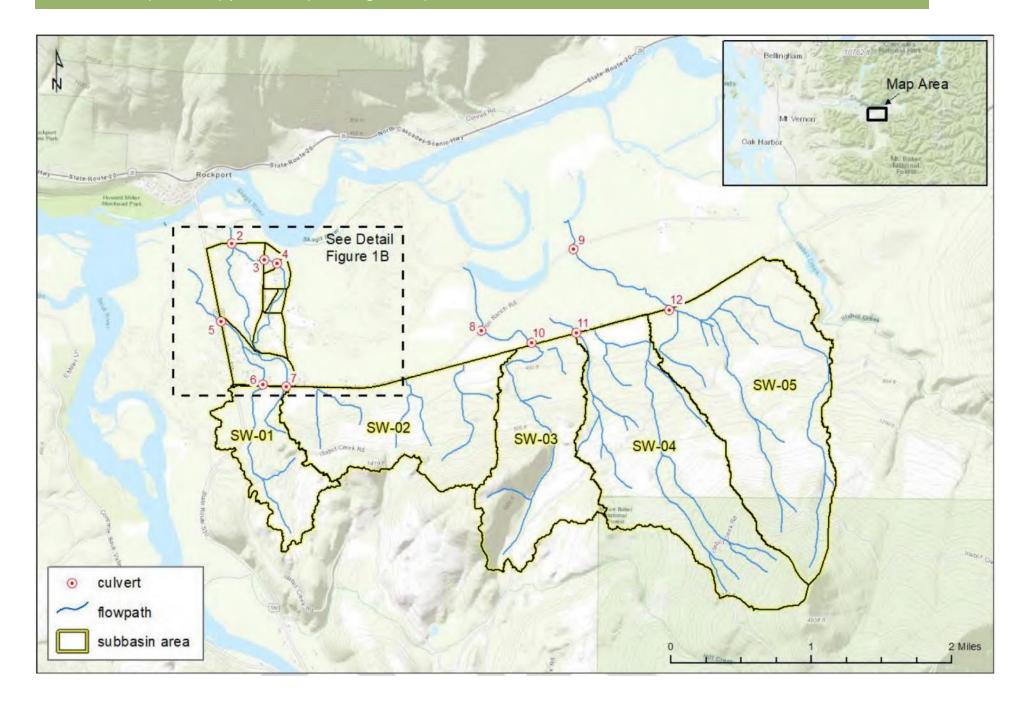
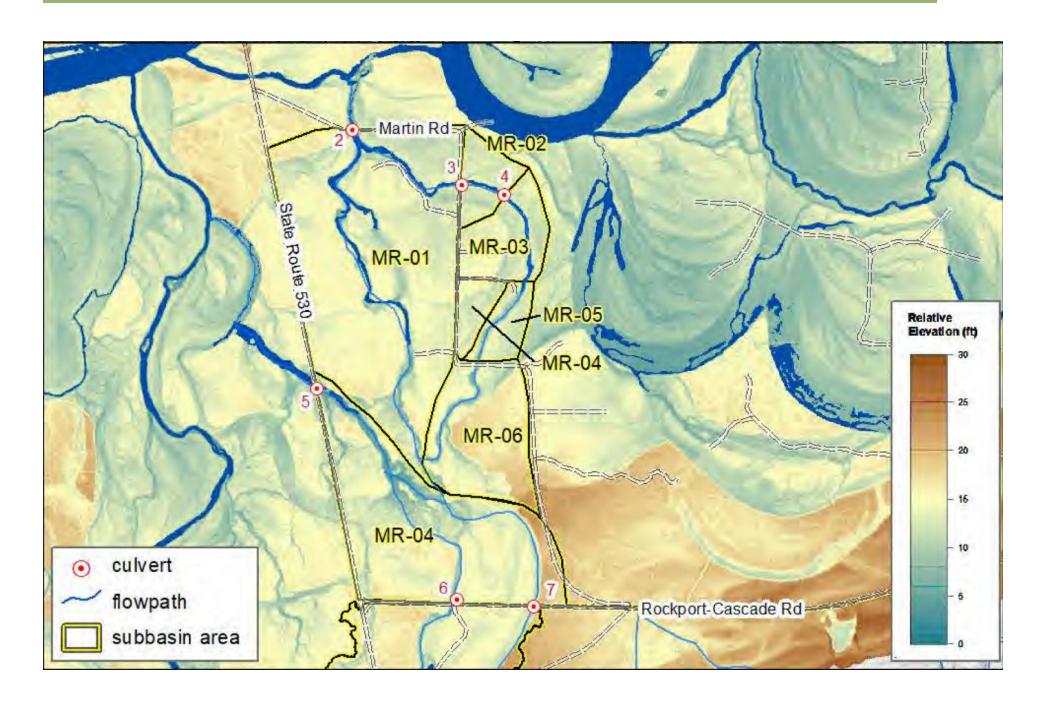


SOUTH ROCKPORT DRAINAGE EVALUATION

- Field assessment
- Hydrologic analysis
 - Review topography
 - Delineate basins
 - Basin characteristics
 - Hydrology modeling
- Hydraulic analysis
 - Field survey
 - Hydraulic capacity analysis







Hydrologic Analysis Methods

- Western Washington Hydrologic Model
- USGS Regression Equations

Culvert#	Contributing Drainage Area (acres)		Q2		110		Q25	SW-01A					
		WWHM Model Results	USGS Regression Average Annual Precip	WWHM Model Results	USGS Regression Average Annual Precip	WWHM Model Results	USGS Regression Average Annual Precip	120.0				1	
2	478	10	43	35	79	58	99						
3	341	9	32	30	59	48	74						
4	329	9	31	30	57	48	72	80.0					
5	136	3	14	11	26	18	33						
6	78	3	9	9	16	15	21						WWHM x1.3
7	233	9	23	26	42	41	53	60.0					—— WWHM x 2,0
8	623	26	54	78	99	121	124						Regression P=
9	1141	16	91	64	168	112	209						Regression P=
10	623	26	54	78	99	121	124	40.0			_		Regression P=
11	902	49	74	139	137	210	171		/	-			
12	1141	16	91	6-	168	1:	12 209				_		
								0.0			-	-	
								Q2	Q10	Q25	Q50	Q100	

Hydraulic Analysis Methods

- HY-8 Culvert analysis program
- Capacity scenarios
 - Free flow condition
 - ▶50% blockage
 - ▶ Tailwater control
- Tabulate results and compare to flow predictions

