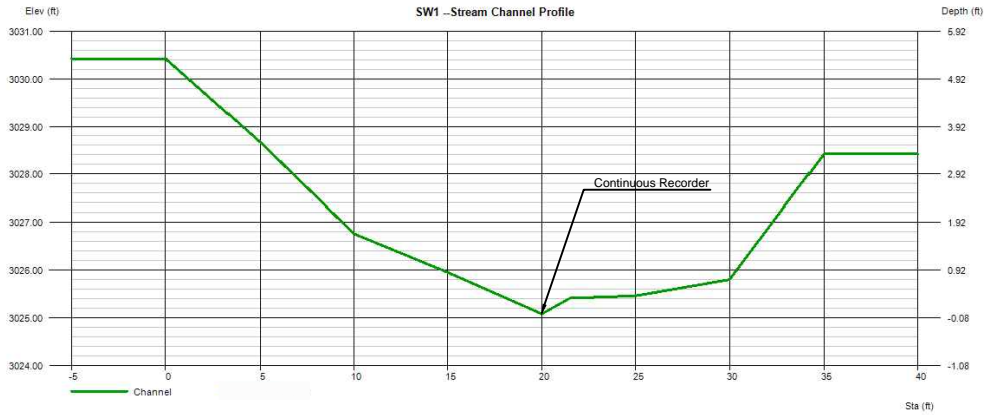


**APPENDIX A**  
**CHANNEL CROSS-SECTIONS AND PHOTOS**

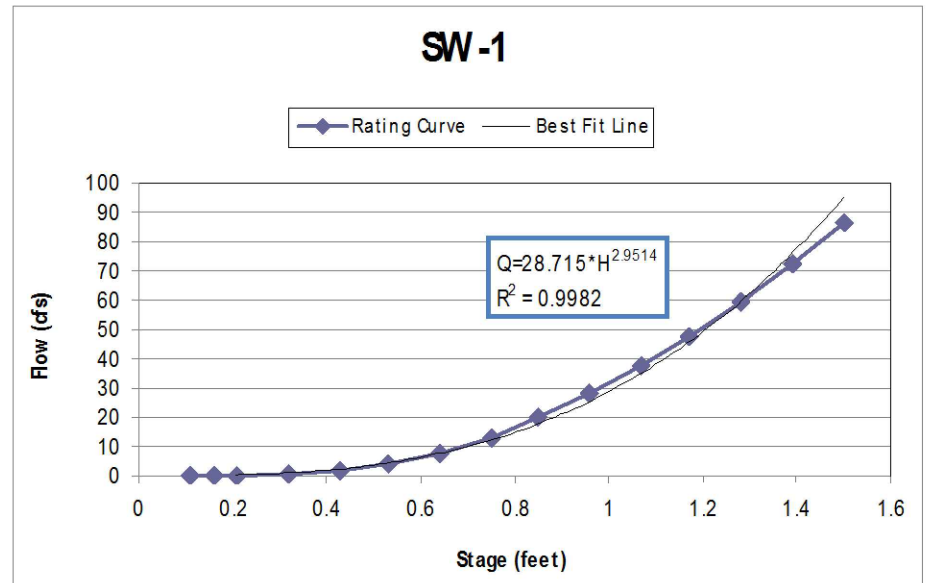


n = 0.07      s = 0.0088

Elevation (ft)	Stage* (ft)	Q (cfs)	Area (sqft)	Veloc (ft/s)	Wp (ft)	Rh (ft)	TopWidth (ft)	Energy (ft)
3025.08	0	0	0	0	0	0	0	0
3025.19	0.11	0.046	0.059	0.78	1.12	0.01	1.1	0.12
3025.24	0.16	0.137	0.133	1.03	1.69	0.14	1.66	0.18
3025.29	0.21	0.292	0.235	1.24	2.24	0.09	2.2	0.24
3025.4	0.32	0.859	0.528	1.63	3.36	0.19	3.3	0.36
3025.51	0.43	1.825	1.188	1.54	8.23	0.29	8.15	0.46
3025.61	0.53	4.27	2.174	1.96	10.42	0.4	10.33	0.59
3025.72	0.64	7.904	3.396	2.33	12.62	0.5	12.52	0.72
3025.83	0.75	13.04	4.843	2.69	14.47	0.6	14.35	0.86
3025.93	0.85	20.08	6.422	3.13	15.32	0.7	15.17	1.01
3026.04	0.96	28.19	8.085	3.49	16.21	0.81	16.02	1.15
3026.15	1.07	37.45	9.841	3.81	17.11	0.92	16.89	1.29
3026.25	1.17	48	11.69	4.1	18.01	1.02	17.75	1.44
3026.36	1.28	60	13.63	4.37	18.91	1.12	18.61	1.58
3026.47	1.39	72.4	15.67	4.62	19.81	1.23	19.48	1.72
3026.58	1.5	86.45	17.79	4.86	20.7	1.34	20.34	1.86

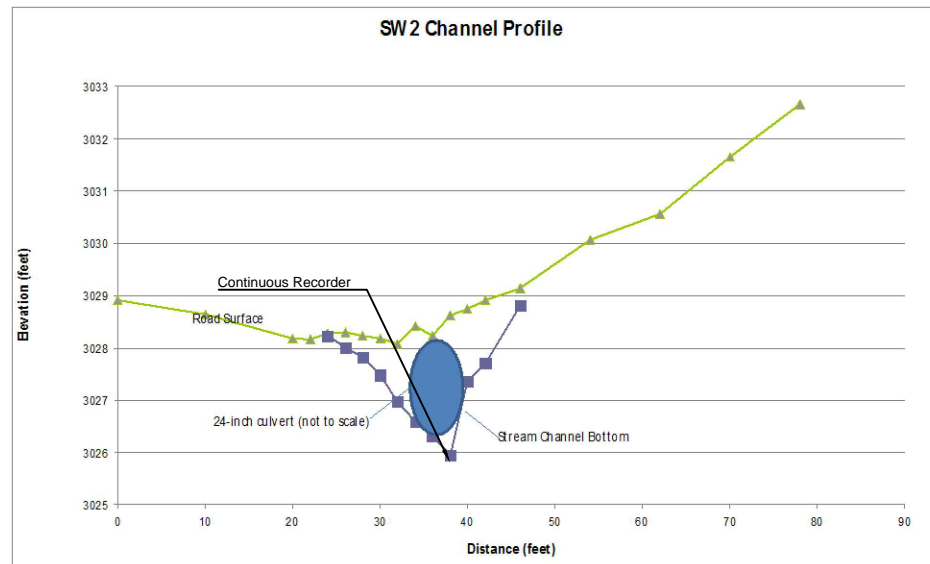
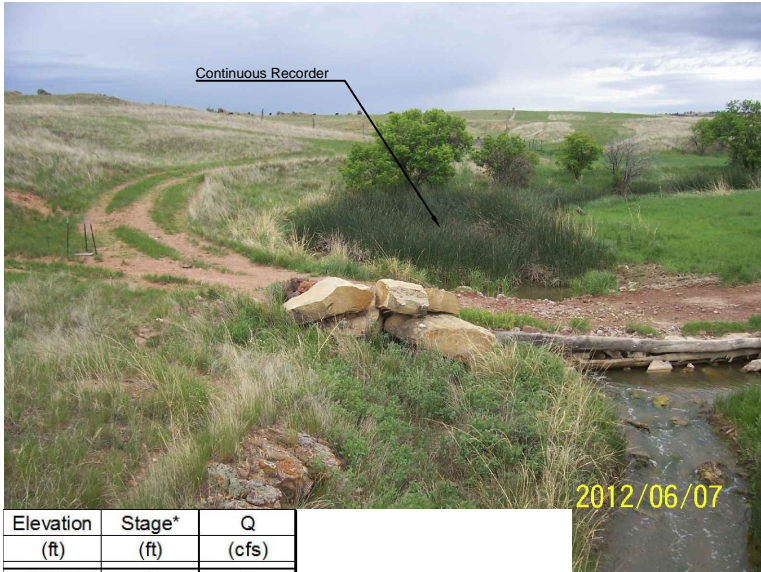
These data were generated using the imperial form of Manning's equation and parameters listed above. These are not field measurements; however, the stage of 0.16 ft is highlighted as it is consistent with the continuous recorder reading of 0.161 ft measured on March 4, 2012. No flow has been manually observed at this site. Site visits are documented in Table G-2.

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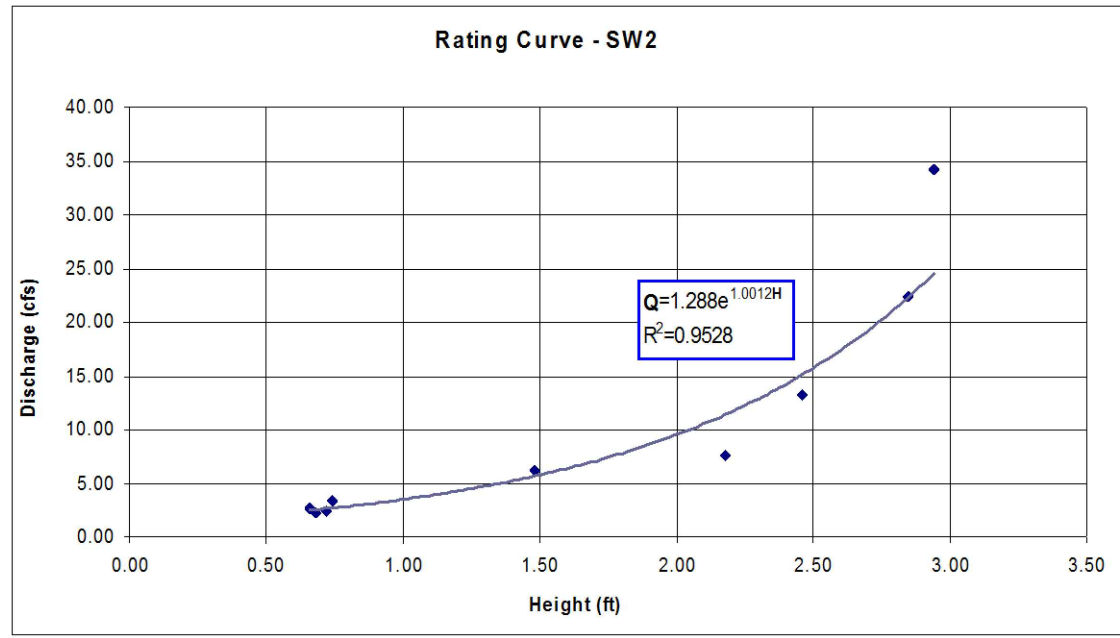
**SW-1 CHANNEL PROFILE AND  
 RATING CURVE**



Elevation (ft)	Stage* (ft)	Q (cfs)
3025.97	0	0
3026.07	0.1	1.4
3026.17	0.2	1.6
3026.47	0.5	2.1
3026.87	0.9	3.2
3027.17	1.2	4.3
3027.47	1.5	5.8
3027.67	1.7	7.1
3027.97	2	9.5
3028.08	2.11	10.7
3028.27	2.3	12.9
3028.67	2.7	19.2
3028.97	3	26.0
3029.17	3.2	31.7
3029.47	3.5	42.8
3029.67	3.7	52.3
3029.97	4	70.7
3030.3	4.33	98.3

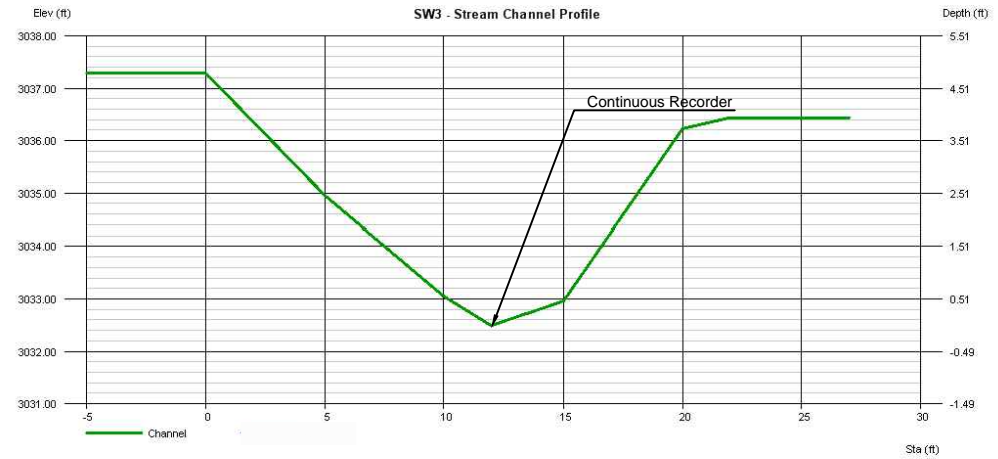
(1)

(1) Flow over the road begins at stage height of 2.11 feet. Flow at stage less than 2.11 are controlled by culvert.  
 (2) Maximum stage height 4.33 feet recorded on 3/7/2012.  
 1 -This relationship is calculated based on the plot of stage-discharge data and best fit by exponential function. Flow field measurements are included in Table G-2.



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**SW-2 CHANNEL PROFILE AND  
 RATING CURVE**



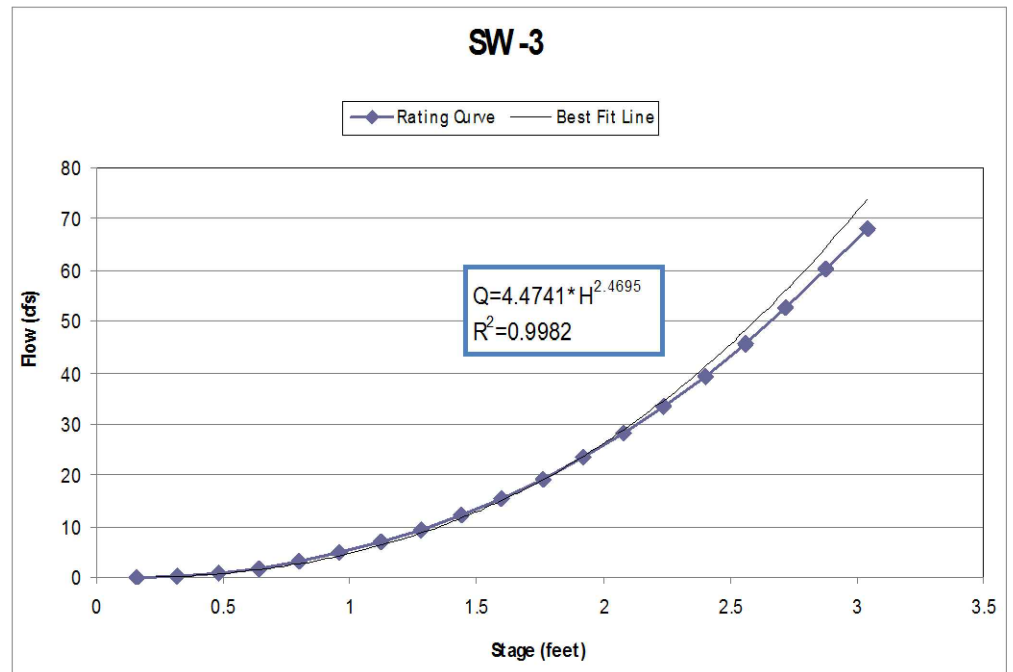
n = 0.04		S = 0.0024						
Elevation (ft)	Stage** (ft)	Q (cfs)	Area (sqft)	Veloc (ft/s)	Wp (ft)	Rh (ft)	TopWidth (ft)	Energy (ft)
3032.49	0	0	0	0	0	0	0	0
3032.65	0.16	0.042	0.127	0.33	1.63	0.01	1.59	0.16
3032.81	0.32	0.27	0.51	0.53	3.25	0.09	3.19	0.32
3032.97	0.48	0.8	1.146	0.7	4.83	0.18	4.73	0.49
3033.13	0.64	1.771	1.965	0.9	5.65	0.28	5.47	0.65
3033.29	0.8	3.111	2.894	1.07	6.39	0.38	6.13	0.82
3033.45	0.96	4.811	3.928	1.22	7.13	0.48	6.8	0.98
3033.61	1.12	6.891	5.069	1.36	7.87	0.57	7.46	1.15
3033.77	1.28	9.361	6.315	1.48	8.61	0.65	8.12	1.31
3033.93	1.44	12.24	7.667	1.6	9.35	0.74	8.79	1.48
3034.09	1.6	15.56	9.128	1.7	10.09	0.83	9.45	1.65
3034.25	1.76	19.32	10.69	1.81	10.83	0.93	10.11	1.81
3034.41	1.92	23.55	12.36	1.9	11.57	1.02	10.78	1.98
3034.57	2.08	28.27	14.14	2	12.31	1.12	11.44	2.14
3034.73	2.24	33.49	16.02	2.09	13.06	1.22	12.1	2.31
3034.89	2.4	39.23	18.01	2.18	13.8	1.32	12.77	2.47
3035.05	2.56	45.6	20.11	2.27	14.5	1.42	13.39	2.64
3035.21	2.72	52.55	22.3	2.36	15.17	1.53	13.98	2.81
3035.37	2.88	60.08	24.58	2.44	15.84	1.63	14.57	2.97
3035.53	3.04	68.15	26.96	2.53	16.51	1.73	15.15	3.14

These data were generated using the imperial form of Manning's equation and parameters listed above. These are not field measurements. Site visits are documented in Table G-2.

\*\*No water level data recorded at this site with Telog from 8/2011 to 3/2012.

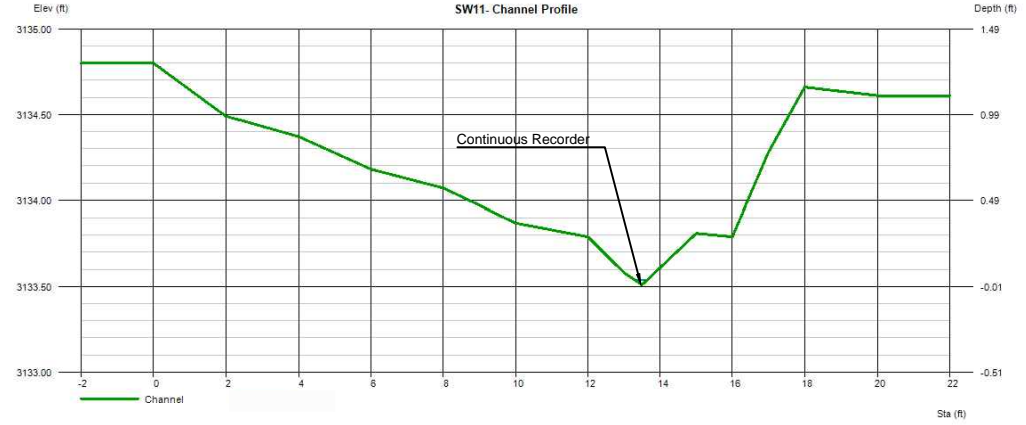
Telog instrument replaced with Trutrak 3/14/2012. No surface flow recorded by Trutrak.

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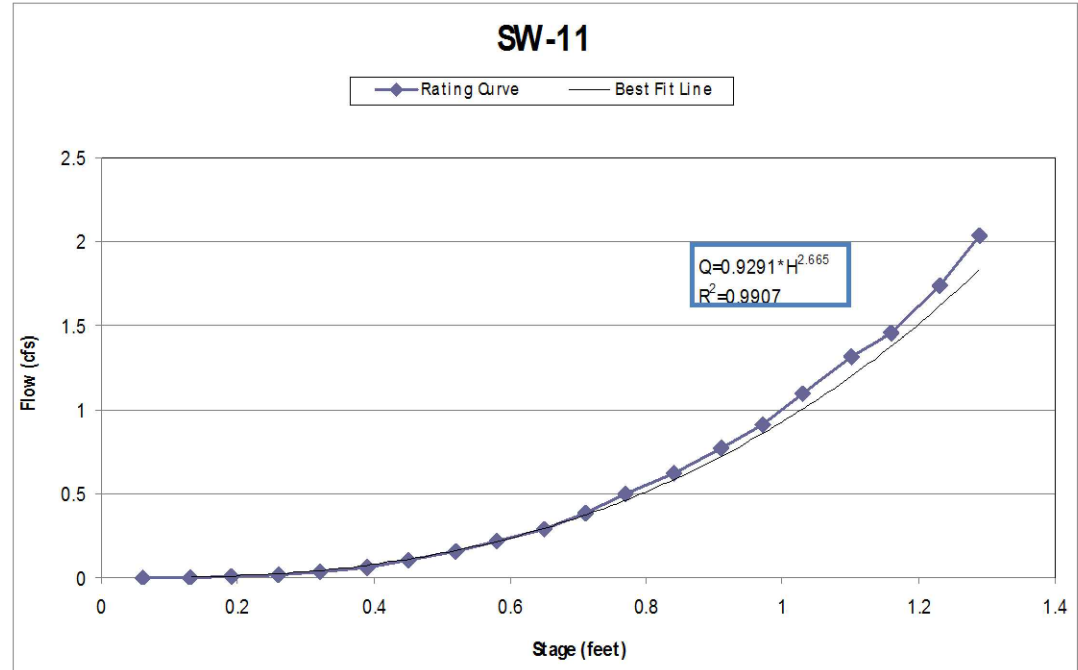
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**SW-3 CHANNEL PROFILE AND  
 RATING CURVE**



n = 0.07      S = 0.0001

Elevation (ft)	Depth (ft)	Q (cfs)	Area (sqft)	Veloc (ft/s)	Wp (ft)	Rh (ft)	TopWidth (ft)	Energy (ft)
3133.51	0	0	0	0	0	0	0	0
3133.57	0.06	0.001	0.025	0.02	0.79	0.01	0.78	0.06
3133.64	0.13	0.003	0.097	0.03	1.45	0.02	1.42	0.13
3133.7	0.19	0.01	0.209	0.05	2.09	0.03	2.06	0.19
3133.77	0.26	0.02	0.362	0.06	2.74	0.05	2.69	0.26
3133.83	0.32	0.031	0.607	0.05	5.21	0.06	5.15	0.32
3133.9	0.39	0.059	0.989	0.06	6.57	0.07	6.49	0.39
3133.96	0.45	0.102	1.432	0.07	7.37	0.09	7.26	0.45
3134.03	0.52	0.156	1.927	0.08	8.16	0.12	8.04	0.52
3134.09	0.58	0.22	2.473	0.09	9.13	0.14	8.99	0.58
3134.16	0.65	0.292	3.094	0.09	10.45	0.16	10.29	0.65
3134.22	0.71	0.386	3.793	0.1	11.46	0.18	11.29	0.71
3134.28	0.77	0.498	4.547	0.11	12.29	0.2	12.1	0.77
3134.35	0.84	0.625	5.358	0.12	13.16	0.22	12.95	0.84
3134.42	0.91	0.775	6.322	0.12	14.42	0.27	14.2	0.91
3134.48	0.97	0.91	7.173	0.13	15.55	0.26	15.31	0.97
3134.54	1.03	1.10	8.186	0.13	16.27	0.28	16.03	1.03
3134.61	1.1	1.31	9.237	0.14	16.88	0.32	16.61	1.1
3134.67	1.16	1.46	10.4	0.14	19.45	0.34	19.17	1.16
3134.74	1.23	1.74	11.65	0.15	19.87	0.35	19.58	1.23
3134.8	1.29	2.03	12.93	0.16	20.29	0.37	20	1.29
3136.97	3.46	25.4	--	--	--	--	--	--



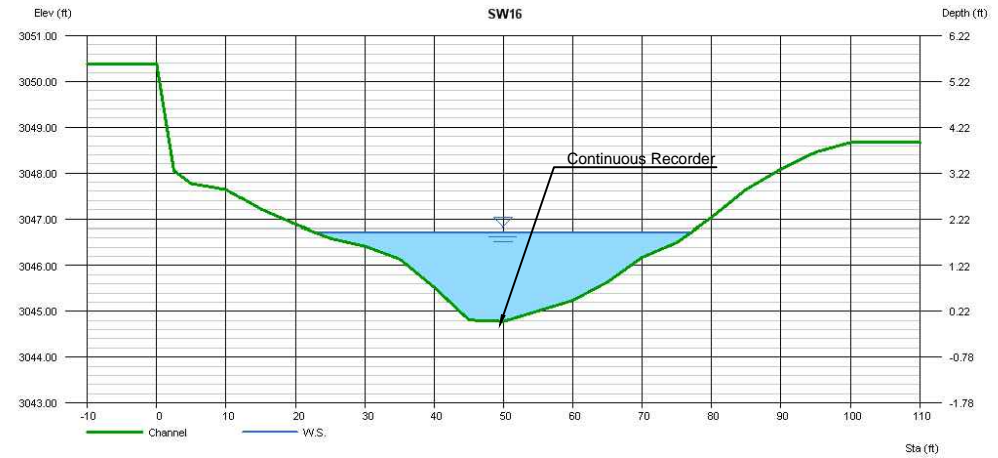
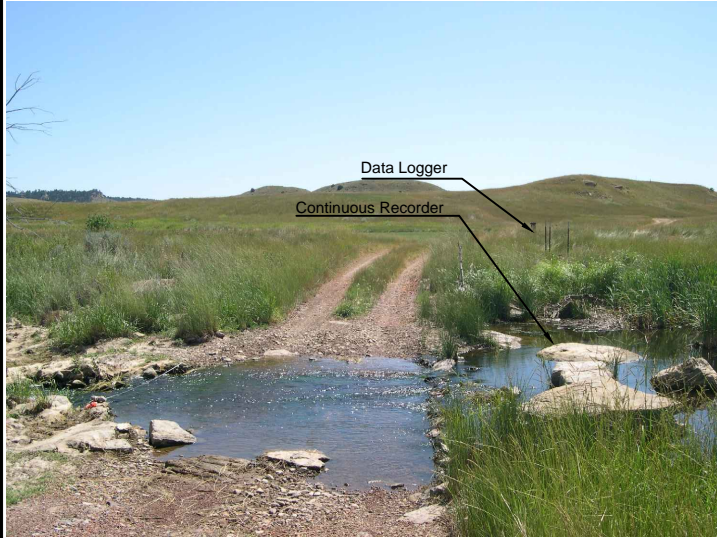
These data were generated using the imperial form of Manning's equation and parameters listed above. These are not field measurements; however, a stage height of 0.91 ft was recorded concurrent with a field flow measurement of 0.49 cfs. This stage/disch

(1) Gage height reading of 0.91 and corresponding flow of 0.49 cfs (3/14/2012), used to verify Hydrflow output.

(2) Maximum gage height of 3.46 feet recorded on 2/26/2012. Water level depth is greater than surveyed channel elevation, discharged projected from rating curve.

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**SW-11 CHANNEL PROFILE AND  
 RATING CURVE**

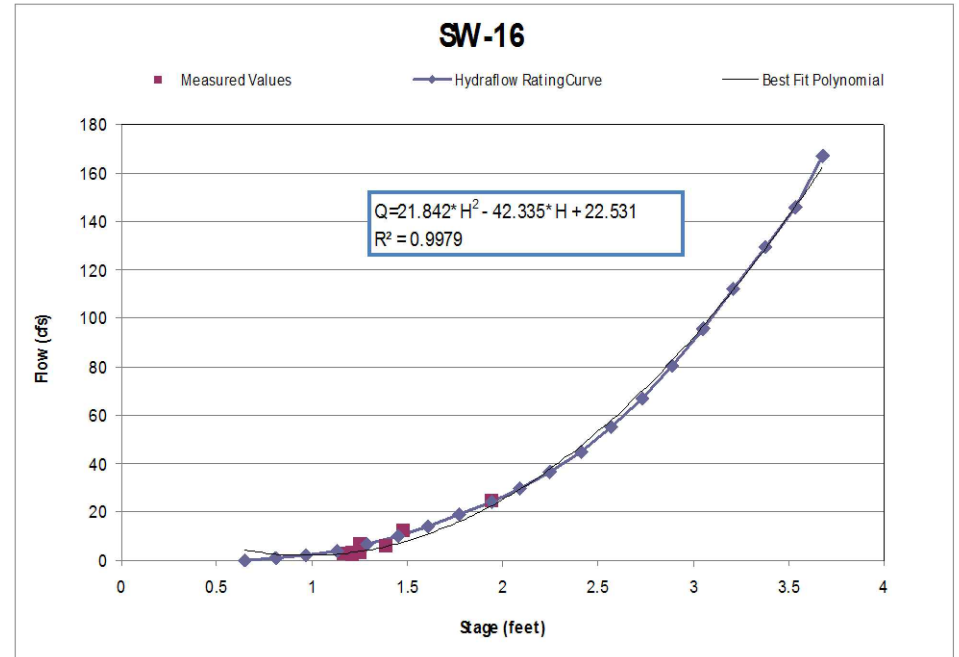


n = 0.04      S = 0.05

Elevation (ft)	Stage at Cross Section (ft)	Stage at Gage (ft)	Q (cfs)	Area (sqft)	Veloc (ft/s)	Wp (ft)	Rh (ft)	TopWidth (ft)	Energy (ft)
3044.78	0	0	0	0	0	0	0	0	0
3044.94	0.16	0.65	0.208	1.066	0.19	9.42	0.01	9.41	0.16
3045.1	0.32	0.81	0.863	2.942	0.29	14.04	0.05	14.02	0.32
3045.26	0.48	0.97	2.075	5.558	0.37	18.48	0.11	18.44	0.48
3045.42	0.64	1.13	3.99	8.762	0.46	21.63	0.17	21.57	0.64
3045.58	0.8	1.29	6.556	12.47	0.53	24.84	0.23	24.77	0.81
3045.74	0.96	1.45	9.873	16.69	0.59	27.83	0.3	27.73	0.97
3045.9	1.12	1.61	13.98	21.36	0.65	30.62	0.37	30.51	1.13
3046.06	1.28	1.77	18.85	26.47	0.71	33.42	0.44	33.28	1.29
3046.23	1.45	1.94	24.36	32.34	0.75	37.54	0.57	37.39	1.46
3046.38	1.6	2.09	29.84	38.45	0.78	42.66	0.57	42.51	1.61
3046.54	1.76	2.25	36.3	45.78	0.79	49.2	0.63	49.03	1.77
3046.7	1.92	2.41	44.97	54.05	0.83	54.05	0.69	53.87	1.93
3046.86	2.08	2.57	55.22	63.03	0.88	58.35	0.76	58.15	2.1
3047.02	2.24	2.73	66.98	72.67	0.92	62.33	0.84	62.12	2.26
3047.18	2.4	2.89	80.28	82.94	0.97	66.1	0.93	65.88	2.42
3047.34	2.56	3.05	95.35	93.75	1.02	69.38	1.01	69.14	2.58
3047.5	2.72	3.21	111.9	105.1	1.07	72.58	1.09	72.32	2.74
3047.67	2.89	3.38	129.1	116.9	1.1	76.52	1.18	76.25	2.9
3047.83	3.05	3.54	145.6	129.8	1.12	82.88	1.27	82.6	3.06
3047.97	3.19	3.68	167.3	143.3	1.17	86.15	1.34	85.85	3.23

These data were generated using the imperial form of Manning's equation and parameters listed above. These are not field measurements; however, field measurements presented in the plot to the right are in agreement with results of the Manning's calculation. A best-fit polynomial was fit to the Manning's results to provide a simpler approximation of the rating curve. Site visits are documented in Table G-2.

- (1) Hydraflow output calibrated to measured stage/discharge from 6/14/2011.
- (2) Peak stage height observed during spring runoff 2011. Peak stage height does not include water level measurements recorded during periods of ice accumulation at this site in winter/spring 2012.



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**SW-16 CHANNEL PROFILE AND  
 RATING CURVE**

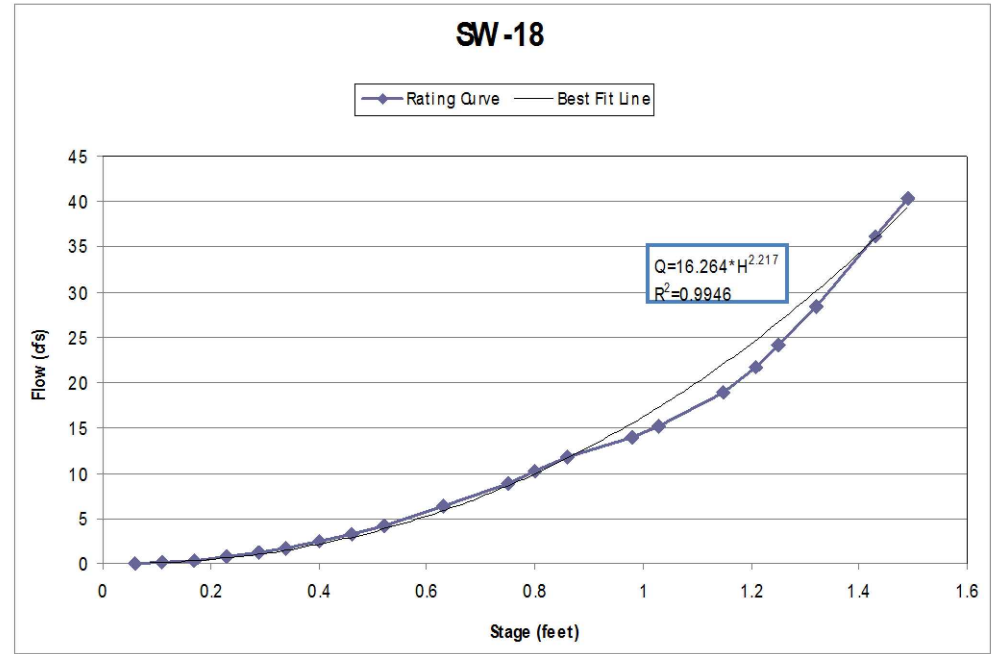


n = 0.07      S = 0.0028

Elevation (ft)	Depth (ft)	Q (cfs)	Area (sqft)	Veloc (ft/s)	Wp (ft)	Rh (ft)	TopWidth (ft)	Energy (ft)
3080.69	0	0	0	0	0	0	0	0
3080.75	0.06	0.02	0.193	0.11	6.72	0.01	6.72	0.06
3080.8	0.11	0.131	0.725	0.18	11.21	0.03	11.21	0.12
3080.86	0.17	0.364	1.421	0.26	13.06	0.05	13.05	0.17
3080.92	0.23	0.702	2.222	0.32	14.9	0.08	14.88	0.23
3080.98	0.29	1.171	3.126	0.37	16.26	0.1	16.23	0.29
3081.03	0.34	1.767	4.08	0.43	17.07	0.13	17.04	0.35
3081.09	0.4	2.469	5.081	0.49	17.88	0.15	17.84	0.41
3081.15	0.46	3.275	6.128	0.53	18.69	0.17	18.65	0.46
3081.21	0.52	4.186	7.221	0.58	19.51	0.19	19.45	0.52
3081.32	0.63	6.318	9.545	0.66	21.13	0.24	21.06	0.64
3081.44	0.75	8.873	12.05	0.74	22.76	0.29	22.67	0.75
3081.49	0.8	10.31	13.38	0.77	23.57	0.31	23.47	0.81
3081.55	0.86	11.84	14.75	0.8	24.48	0.33	24.37	0.87
3081.67	0.98	13.95	18.05	0.77	31.68	0.36	31.56	0.99
3081.72	1.03	15.23	19.94	0.76	35.65	0.39	35.52	1.04
3081.84	1.15	18.89	24.63	0.77	43.76	0.42	43.63	1.16
3081.9	1.21	21.77	27.18	0.8	45.22	0.45	45.08	1.22
3081.94	1.25	24.16	29.22	0.83	46.35	0.51	46.21	1.26
3082.01	1.32	28.34	32.51	0.87	47.62	0.52	47.47	1.33
3082.12	1.43	36.11	38.05	0.95	49.1	0.6	48.92	1.45
3082.18	1.49	40.29	40.88	0.99	49.83	0.63	49.65	1.51

These data were generated using the imperial form of Manning's equation and parameters listed above. These are not field measurements; however, the stage of 1.25 ft is highlighted as it is consistent with the crest gage reading measured on June 14, 2011. Site visits are documented in Table G-2.

(1) Max crest gage height of 1.25 feet recorded on 6/14/2011.

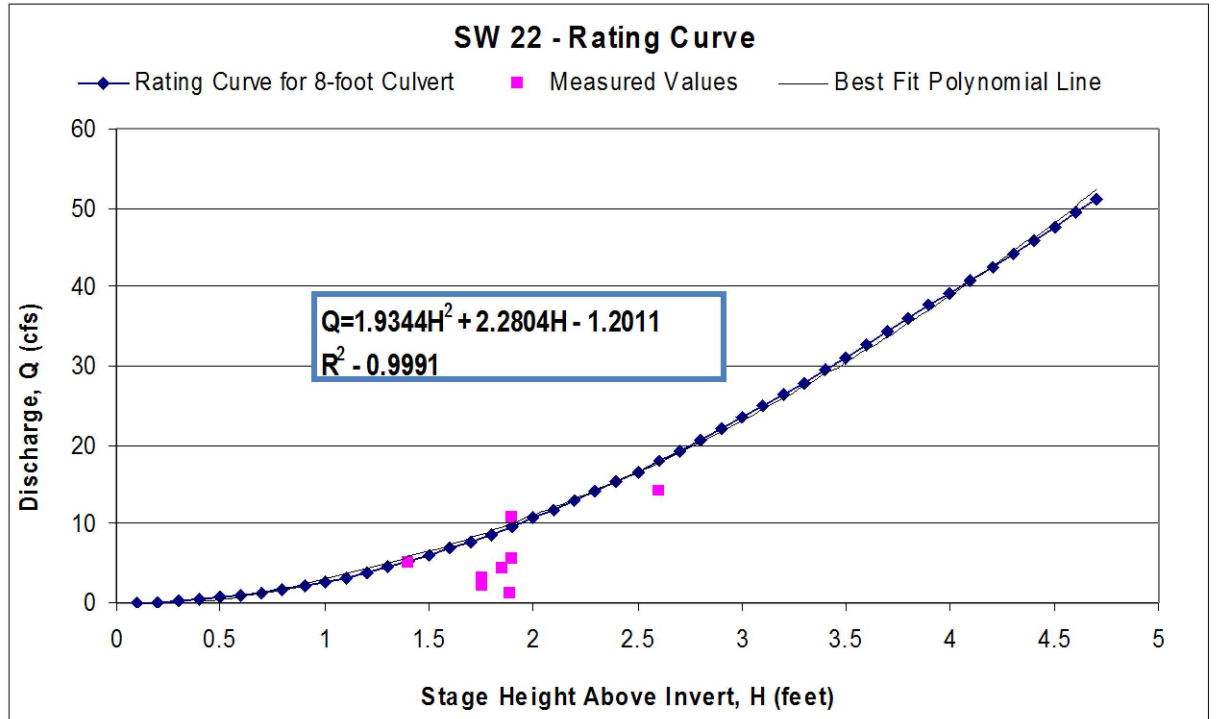


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**SW-18 CHANNEL PROFILE AND  
 RATING CURVE**

n = 0.04		S = 0.0007				
Elevation Feet	Stage (H) Feet	Q cfs	θ	A sq. Ft	P ft	R <sub>h</sub> ft
3100.28	0	0	0.00	0	0	0
3100.38	0.1	0.0	0.45	0.118809	1.792602	0.06627725
3100.48	0.2	0.1	0.64	0.334768	2.540483	0.1317735
3100.58	0.3	0.2	0.78	0.612659	3.118086	0.19648548
3100.68	0.4	0.4	0.90	0.939615	3.608214	0.26040983
3100.78	0.5	0.6	1.01	1.308047	4.042884	0.32354311
3100.88	0.6	0.9	1.11	1.712732	4.438488	0.38588183
3100.98	0.7	1.2	1.20	2.149754	4.804753	0.44742238
3101.08	0.8	1.6	1.29	2.616018	5.148009	0.50816108
3101.18	0.9	2.1	1.37	3.10898	5.47265	0.56809416
3101.28	1	2.6	1.45	3.626494	5.781874	0.62721776
3101.38	1.1	3.2	1.52	4.166704	6.078095	0.68552791
3101.48	1.2	3.8	1.59	4.727981	6.363191	0.74302056
3101.58	1.3	4.5	1.66	5.308875	6.638653	0.79969152
3101.68	1.4	5.2	1.73	5.908074	6.905695	0.85553654
3101.78	1.5	6.0	1.79	6.524389	7.165318	0.9105512
3101.88	1.6	6.9	1.85	7.156723	7.418362	0.96473099
3101.98	1.7	7.8	1.92	7.804064	7.665537	1.01807128
3102.08	1.8	8.7	1.98	8.465464	7.907457	1.07056729
3102.18	1.9	9.7	2.04	9.140041	8.14465	1.1222141
3102.28	2	10.7	2.09	9.826958	8.37758	1.17300666
3102.38	2.1	11.8	2.15	10.52542	8.606658	1.22293976
3102.48	2.2	13.0	2.21	11.23469	8.832248	1.27200802
3102.58	2.3	14.1	2.26	11.95404	9.054676	1.32020592
3102.68	2.4	15.4	2.32	12.68277	9.274236	1.36752774
3102.78	2.5	16.6	2.37	13.42024	9.491196	1.41396757
3102.88	2.6	17.9	2.43	14.16581	9.705802	1.45951932
3102.98	2.7	19.3	2.48	14.91884	9.918277	1.50417668
3103.08	2.8	20.6	2.53	15.67875	10.12883	1.54793313
3103.18	2.9	22.0	2.58	16.44495	10.33765	1.59078191
3103.28	3	23.5	2.64	17.21687	10.54493	1.63271602
3103.38	3.1	24.9	2.69	17.99396	10.75083	1.67372819
3103.48	3.2	26.4	2.74	18.77567	10.95551	1.71381089
3103.58	3.3	28.0	2.79	19.56146	11.15912	1.75295628
3103.68	3.4	29.5	2.84	20.3508	11.36182	1.79115622
3103.78	3.5	31.1	2.89	21.14318	11.56375	1.82840222
3103.88	3.6	32.7	2.94	21.93808	11.76503	1.86468545
3103.98	3.7	34.3	2.99	22.73499	11.96581	1.89999669
3104.08	3.8	35.9	3.04	23.53341	12.1662	1.93432632
3104.18	3.9	37.6	3.09	24.33282	12.36635	1.96766427
3104.28	4	39.2	3.14	25.13274	12.56637	2
3104.38	4.1	40.9	3.19	25.93266	12.76639	2.03132248
3104.48	4.2	42.6	3.24	26.73207	12.96654	2.0616201
3104.58	4.3	44.3	3.29	27.53049	13.16693	2.0908807
3104.68	4.4	45.9	3.34	28.3274	13.36771	2.11909145
3104.78	4.5	47.6	3.39	29.1223	13.56899	2.14623881
3104.88	4.6	49.3	3.44	29.91468	13.77092	2.17230853
3104.98	4.7	51.0	3.49	30.70403	13.97362	2.19728547
3105.116	4.836	53.3	3.56	31.77173	14.25079	2.2294715 (1)

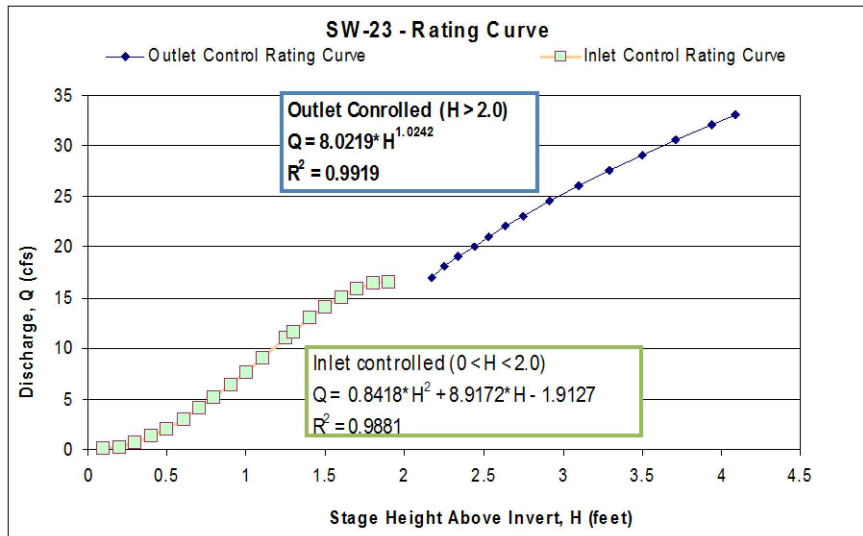
These data were generated using the imperial form of Manning's equation and parameters listed above for an eight foot culvert. The agreement between field measurements and the calculated relationship is presented in the graph above. A gage height of 4.836 ft is highlighted as it is consistent with the highest gage reading made on February 24, 2012. All site visits are documented in Table G-2.  
 (1) Maximum gage height of 4.836 feet recorded on 2/24/2012



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**SW-22 RATING CURVE**



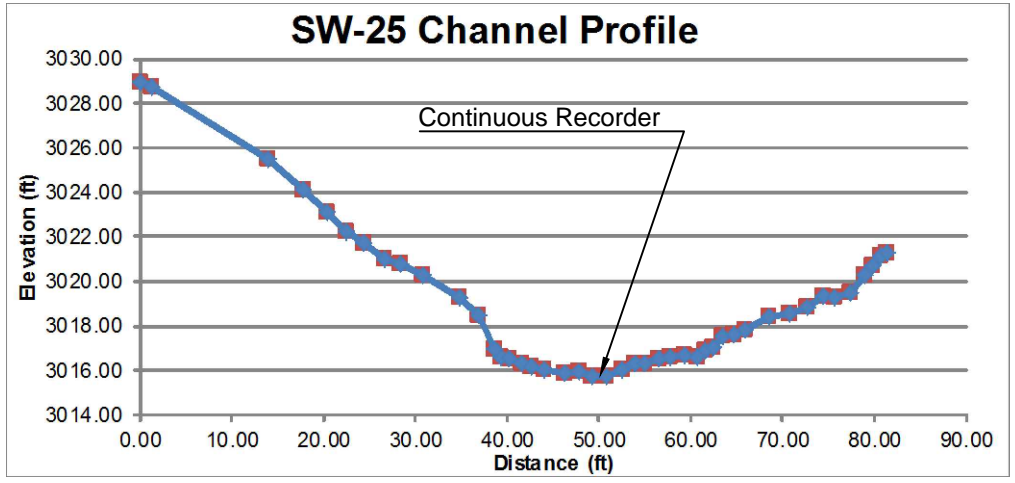


slope (S) = 0.016		Manning's (n) = 0.024					
Elevation	Depth at Crest Gage (Hg)	Stage above Invert (H)	Q	$\theta$	A	Wp	Rh
Feet	Feet	Feet	cfs		sq. Ft	ft	ft
3129.851	0.98	0	0	0.00	0	0	0
3129.951	1.08	0.1	0.07	0.90	0.058726	0.902054	0.065102
3130.051	1.18	0.2	0.3	1.29	0.163501	1.287002	0.12704
3130.151	1.28	0.3	0.8	1.59	0.295499	1.590798	0.185755
3130.251	1.38	0.4	1.4	1.85	0.447295	1.85459	0.241183
3130.351	1.48	0.5	2.1	2.09	0.614185	2.094395	0.293252
3130.451	1.58	0.6	3.0	2.32	0.792673	2.318559	0.341882
3130.551	1.68	0.7	4.1	2.53	0.979922	2.532207	0.386983
3130.651	1.78	0.8	5.2	2.74	1.173479	2.738877	0.428453
3130.751	1.88	0.9	6.5	2.94	1.37113	2.941258	0.466171
3130.851	1.98	1	7.7	3.14	1.570796	3.141593	0.5
3130.951	2.08	1.1	9.1	3.34	1.770462	3.341927	0.529773
3131.101	2.23	1.25	11.1	3.65	2.065538	3.646953	0.566374 (1)
3131.151	2.28	1.3	11.7	3.75	2.161671	3.750978	0.576295
3131.251	2.38	1.4	13.0	3.96	2.348919	3.964626	0.592469
3131.351	2.48	1.5	14.1	4.19	2.527408	4.18879	0.603374
3131.451	2.58	1.6	15.1	4.43	2.694297	4.428595	0.608387
3131.551	2.68	1.7	16.0	4.69	2.846094	4.692388	0.606534
3131.651	2.78	1.8	16.5	5.00	2.978092	4.996183	0.596073
3131.751	2.88	1.9	16.7	5.38	3.082867	5.381132	0.572903
3132.02	3.149	2.169	17.05	5.38	3.082867	5.381132	0.572903
3132.1	3.229	2.249	18.05	5.38	3.082867	5.381132	0.572903
3132.19	3.319	2.339	19.05	5.38	3.082867	5.381132	0.572903
3132.29	3.419	2.439	20.05	5.38	3.082867	5.381132	0.572903
3132.38	3.509	2.529	21.05	5.38	3.082867	5.381132	0.572903
3132.49	3.619	2.639	22.05	5.38	3.082867	5.381132	0.572903
3132.6	3.729	2.749	23.05	5.38	3.082867	5.381132	0.572903
3132.77	3.899	2.919	24.55	5.38	3.082867	5.381132	0.572903
3132.95	4.079	3.099	26.05	5.38	3.082867	5.381132	0.572903
3133.14	4.269	3.289	27.55	5.38	3.082867	5.381132	0.572903
3133.35	4.479	3.499	29.05	5.38	3.082867	5.381132	0.572903
3133.56	4.689	3.709	30.55	5.38	3.082867	5.381132	0.572903
3133.79	4.919	3.939	32.05	5.38	3.082867	5.381132	0.572903
3133.94	5.069	4.089	33.05	5.38	3.082867	5.381132	0.572903

These data were generated using the imperial form of Manning's equation and parameters listed above. These are not field measurements; however, the stage of 2.23 ft is highlighted as it is consistent with the crest gage reading measured on March 14, 2012. Note that flow at this site is controlled by a culvert, the invert of which is 0.98 feet above the gage datum. Staff or crest gage readings less than 0.98 feet at this site are ponded water. Site visits are documented in Table G-2.

(1) Maximum crest gage height of 2.23 feet recorded on 3/14/2012, corresponds to culvert inlet depth (H) of 1.25 feet.

Continuous Recorder

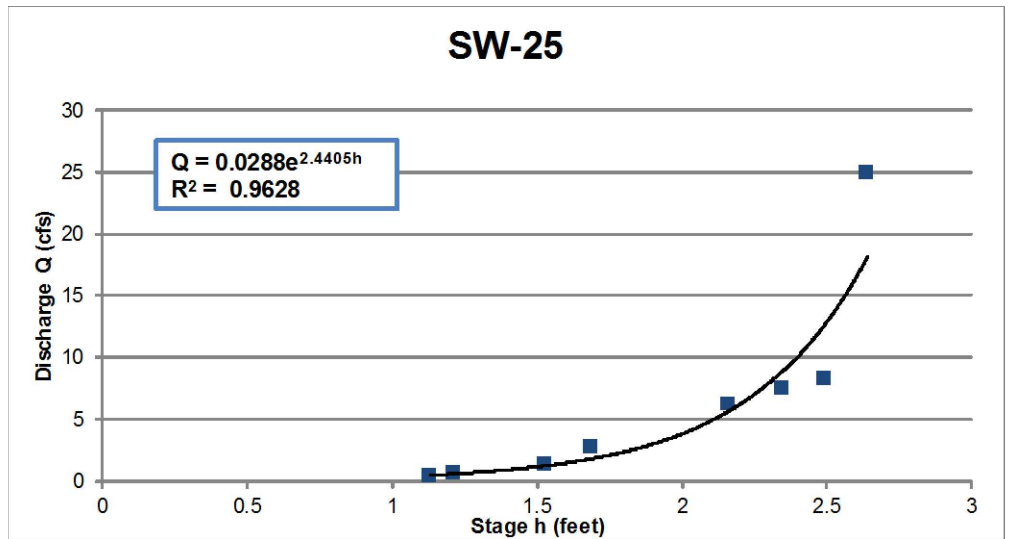


Flow Measurements <sup>1</sup>		
Date	stage (ft)	Q (cfs)
8/1/2013	1.13	0.344
8/13/2014	1.216	0.6
1/9/2014	1.53	1.246
10/22/2013	1.69	2.619
4/9/2013	2.163	6.184
5/21/2014	2.35	7.425
4/23/2014	2.49	8.208
3/20/2014	2.64	24.883

1 - These data are velocity profile flow measurements made in the field with a Marsh-McBirney meter.

Stage-Discharge Relationship <sup>2</sup>		
Elevation (ft)	Stage* (ft)	Q (cfs)
3015.72	0	0
3016.22	0.5	0.10
3016.62	0.9	0.26
3016.92	1.2	0.54
3017.22	1.5	1.12
3017.42	1.7	1.82
3017.72	2	3.8
3017.83	2.11	5.0
3018.02	2.3	7.9
3018.42	2.7	21
3018.72	3	44
3018.92	3.2	71
3019.22	3.5	148
3019.42	3.7	240
3019.72	4	500

1 -This relationship is calculated based on the plot of stage-discharge data and best fit by exponential function. Field visits to this site are documented in Table G-2.



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**SW-25 CHANNEL PROFILE AND  
 RATING CURVE**