

	Year	Probability	Wetland R											Wetland A				
			Vent-1r	Seep-1	Seep-2	Seep-3	Seep-4	DP-6	DP-7	DP-8	SW-3-DP	SW-11-DP	SW-14-DP	SW-1-DP	SW-2-DP	Seep-5	SW-8-DP	
Water Level Probabilities Relative to Ground Surface	2000	100		-0.75	0.04	1.36	0.77											
		95		-0.75	-0.02	1.35	0.65											
		50		-0.86	-0.05	1.28	0.56											
		5		-0.90	-0.10	1.22	0.52											
	1		-0.91	-0.12	1.21	0.52												
	2001	100	-0.06	-0.76	-0.01	1.28	0.77	1.05	0.48	0.39				-2.07			1.64	0.44
		95	-0.08	-0.77	-0.02	1.26	0.77	0.97	0.42	0.35				-2.07			1.61	0.44
		50	-0.12	-0.91	-0.14	1.17	0.69	0.65	0.16	0.21				-2.08			1.49	0.27
		5	-0.18	-0.99	-0.19	1.03	0.60	0.60	0.08	0.12				-2.09			1.38	0.22
	1	-0.19	-1.02	-0.22	1.01	0.58	0.58	0.05	0.10				-2.09			1.35	0.21	
	2002	100	-0.11	-0.69	0.23	1.26	0.87	0.88	0.30	0.18	0.68	0.78	-2.10	-0.61	0.80	1.52	0.30	
		95	-0.11	-0.72	0.18	1.26	0.85	0.78	0.21	0.16	0.65	0.71	-2.10	-0.63	0.80	1.52	0.29	
		50	-0.14	-0.89	-0.11	1.19	0.65	0.62	0.09	0.12	0.36	0.61	-2.12	-0.83	0.74	1.48	0.21	
		5	-0.16	-1.00	-0.17	1.09	0.55	0.59	0.07	0.01	-0.13	0.47	-2.13	-0.97	0.68	1.34	0.13	
	1	-0.17	-1.01	-0.19	1.08	0.53	0.57	0.06	0.01	-0.13	0.40	-2.13	-1.06	0.61	1.33	0.12		
	2003	100	-0.12	-0.64	0.22	1.41	0.89	1.08	0.28	0.13	0.30	0.87	-2.02	-0.49	1.05	1.78	0.33	
		95	-0.13	-0.67	0.16	1.35	0.88	1.06	0.26	0.10	0.28	0.85	-2.02	-0.55	1.04	1.69	0.31	
		50	-0.16	-0.78	0.00	1.26	0.67	0.72	0.13	0.04	0.03	0.70	-2.07	-0.75	0.93	1.56	0.13	
		5	-0.20	-0.86	-0.06	1.18	0.59	0.57	0.01	-0.03	-0.04	0.57	-2.13	-0.91	0.79	1.47	0.08	
	1	-0.21	-0.88	-0.07	1.17	0.58	0.49	0.01	-0.03	-0.04	0.46	-2.14	-0.93	0.78	1.46	0.07		
	2007	100			-0.07	1.17	0.87	0.96					0.90		-0.59		0.38	
		95			-0.08	1.16	0.86	0.91					0.88		-0.61		0.37	
		50			-0.11	1.12	0.72	0.75					0.75		-0.79		0.28	
		5			-0.14	0.88	0.67	0.68					0.55		-0.95		0.12	
	1			-0.15	0.82	0.67	0.67					0.43		-0.97		0.12		
	2008	100			-0.10	1.22	0.91	0.88					0.94		-0.57			
		95			-0.11	1.21	0.90	0.86					0.94		-0.60			
		50			-0.14	1.07	0.79	0.73					0.82		-0.80			
		5			-0.14	1.01	0.59	0.67					0.65		-0.97			
	1			-0.14	0.99	0.55	0.66					0.65		-1.05				
	2009	100			-0.13	1.22	0.79						1.03		-0.65			
		95			-0.14	1.19	0.76						1.02		-0.69			
		50			-0.17	1.10	0.64						0.89		-0.82			
		5			-0.23	1.00	0.48						0.78		-0.95			
	1			-0.24	0.97	0.47						0.71		-1.01				
	All Years Above	100	-0.10	-0.71	0.03	1.27	0.84	0.97	0.35	0.23	0.49	0.90	-2.06	-0.58	0.92	1.65	0.36	
		95	-0.10	-0.73	0.00	1.25	0.81	0.91	0.30	0.20	0.47	0.88	-2.06	-0.62	0.92	1.61	0.35	
		50	-0.14	-0.86	-0.10	1.17	0.68	0.69	0.13	0.12	0.19	0.75	-2.09	-0.80	0.83	1.51	0.22	
		5	-0.18	-0.94	-0.15	1.06	0.57	0.62	0.05	0.03	-0.08	0.60	-2.12	-0.95	0.73	1.39	0.14	
	1	-0.19	-0.96	-0.16	1.04	0.56	0.59	0.04	0.03	-0.09	0.53	-2.12	-1.00	0.70	1.38	0.13		

Notes:
 Analysis conducted only with wells located within wetlands and with at least 40 measurements.
 Data from 2010-2014 were not used due to too few measurements per year.
 Data from 2015 and 2016 not used due to pumping at PW-101.
 Analysis was done for years with at least ten measurements.

Year	Statistic	Vent-1r	Seep-1	Seep-2	Seep-3	Seep-4	Seep-5	Seep-6
2001	Count	19	19	18	19	19	19	17
	Min	1090.46	1088.80	1083.05	1082.45	1084.41	1090.61	1106.74
	Max	1090.59	1089.06	1083.26	1082.72	1084.60	1090.90	1107.10
	Range	0.13	0.26	0.21	0.27	0.19	0.29	0.36
	Mean	1090.53	1088.93	1083.17	1082.57	1084.50	1090.76	1106.87
2002	Count	18	18	17	18	18	18	17
	Min	1090.51	1088.73	1082.81	1082.47	1084.31	1090.73	1106.85
	Max	1090.57	1089.05	1083.23	1082.65	1084.65	1090.92	1107.19
	Range	0.06	0.32	0.42	0.18	0.34	0.19	0.34
	Mean	1090.54	1088.91	1083.08	1082.55	1084.50	1090.80	1107.04
2003	Count	15	14	15	15	15	15	12
	Min	1090.52	1088.68	1082.82	1082.32	1084.29	1090.47	1106.91
	Max	1090.61	1088.92	1083.11	1082.56	1084.60	1090.79	1107.28
	Range	0.09	0.24	0.29	0.24	0.31	0.32	0.37
	Mean	1090.56	1088.81	1083.01	1082.47	1084.46	1090.68	1107.10
2004	Count	9	8	9	9	10	9	6
	Min					1084.31		
	Max					1084.51		
	Range					0.20		
	Mean					1084.43		
2007	Count	3	4	11	11	11	4	3
	Min			1083.11	1082.56	1084.31		
	Max			1083.19	1082.91	1084.51		
	Range			0.08	0.35	0.20		
	Mean			1083.16	1082.67	1084.42		
2008	Count	4	4	12	12	12	4	3
	Min			1083.14	1082.51	1084.27		
	Max			1083.18	1082.74	1084.63		
	Range			0.04	0.23	0.36		
	Mean			1083.17	1082.63	1084.41		
2009	Count	4	4	12	12	12	4	3
	Min			1083.17	1082.51	1084.39		
	Max			1083.28	1082.76	1084.71		
	Range			0.11	0.25	0.32		
	Mean			1083.21	1082.64	1084.55		
All Years Above	Count	6	6	6	6	6	6	6
	Min	1090.50	1088.74	1083.02	1082.47	1084.33	1090.60	1106.83
	Max	1090.59	1089.01	1083.21	1082.72	1084.62	1090.87	1107.19
	Range	0.09	0.27	0.19	0.25	0.27	0.27	0.36
	Mean	1090.54	1088.89	1083.13	1082.59	1084.47	1090.75	1107.00

Year	Statistic	DP-5	DP-6	DP-7	DP-8	SW-3-DP	SW-6-DP	SW-11-DP
2001	Count	17	14	12	13	7	6	7
	Min	1080.81	1080.25	1080.46	1079.26			
	Max	1081.37	1080.72	1080.89	1079.55			
	Range	0.56	0.47	0.43	0.29			
	Mean	1081.17	1080.60	1080.75	1079.42			
2002	Count	17	17	17	17	11	0	18
	Min	1080.95	1080.42	1080.64	1079.47	1075.83		1101.12
	Max	1081.35	1080.73	1080.88	1079.64	1076.64		1101.50
	Range	0.40	0.31	0.24	0.17	0.81		0.38
	Mean	1081.20	1080.65	1080.83	1079.55	1076.24		1101.30
2003	Count	14	13	11	11	10	12	15
	Min	1080.85	1080.22	1080.66	1079.52	1076.21	1074.34	1101.03
	Max	1081.32	1080.81	1080.93	1079.68	1076.55	1074.59	1101.44
	Range	0.47	0.59	0.27	0.16	0.34	0.25	0.41
	Mean	1081.14	1080.51	1080.81	1079.62	1076.42	1074.47	1101.18
2004	Count	9	9	7	7	6	7	9
	Min							
	Max							
	Range							
	Mean							
2007	Count	10	11	3	3	3	3	11
	Min	1080.98	1080.34					1101.00
	Max	1081.50	1080.63					1101.47
	Range	0.52	0.29					0.47
	Mean	1081.19	1080.53					1101.16
2008	Count	12	12	1	1	4	4	12
	Min	1080.90	1080.42					1100.96
	Max	1081.32	1080.64					1101.25
	Range	0.42	0.22					0.29
	Mean	1081.17	1080.56					1101.10
2009	Count	12	2	0	0	1	1	12
	Min	1080.97						1100.87
	Max	1081.78						1101.19
	Range	0.81						0.32
	Mean	1081.24						1101.00
All Years Above	Count	6	6	6	6	6	6	6
	Min	1080.91	1080.33	1080.59	1079.42	1075.83	1074.34	1100.87
	Max	1081.44	1080.71	1080.90	1079.62	1076.64	1074.59	1101.50
	Range	0.53	0.38	0.31	0.21	0.58	0.25	0.37
	Mean	1081.19	1080.57	1080.80	1079.53	1076.33	1074.47	1101.15

Year	Statistic	SW-14-DP	DP-1	DP-2	DP-3	SW-1-DP	SW-2-DP	SW-8-DP
2001	Count	2	18	16	19	8	8	10
	Min		1083.13	1083.47	1083.05			1080.65
	Max		1085.07	1084.72	1084.21			1080.88
	Range		1.94	1.25	1.16			0.23
	Mean		1084.71	1084.40	1083.70			1080.78
2002	Count	6	17	18	18	16	18	18
	Min		1083.85	1083.67	1083.17	1090.62	1082.93	1080.79
	Max		1085.02	1084.41	1084.18	1091.07	1083.12	1080.97
	Range		1.17	0.74	1.01	0.45	0.19	0.18
	Mean		1084.73	1083.99	1083.74	1090.84	1083.00	1080.88
2003	Count	12	14	14	14	14	13	14
	Min	1078.99	1082.90	1083.25	1082.78	1090.50	1082.68	1080.76
	Max	1079.11	1085.07	1083.85	1083.85	1090.94	1082.95	1081.02
	Range	0.12	2.17	0.60	1.07	0.44	0.27	0.26
	Mean	1079.05	1084.35	1083.63	1083.41	1090.76	1082.81	1080.92
2004	Count	7	9	9	9	7	8	10
	Min				1083.04	1090.65		1080.70
	Max				1083.99	1091.00		1080.85
	Range				0.95	0.35		0.15
	Mean				1083.54	1090.80		1080.79
2007	Count	7	4	4	11	10	3	11
	Min				1083.17	1090.60		1080.71
	Max				1084.06	1090.98		1080.97
	Range				0.89	0.38		0.26
	Mean				1083.54	1090.79		1080.83
2008	Count	7	6	4	12	11	4	12
	Min				1083.12	1090.58		1080.73
	Max				1083.90	1091.06		1080.94
	Range				0.78	0.48		0.21
	Mean				1083.54	1090.80		1080.83
2009	Count	9	4	4	12	10	4	12
	Min				1083.16	1090.66		1080.90
	Max				1084.06	1091.02		1081.13
	Range				0.90	0.36		0.23
	Mean				1083.64	1090.82		1080.99
All Years Above	Count	6	6	6	6	6	6	6
	Min	1078.99	1082.90	1083.25	1082.78	1090.50	1082.68	1080.65
	Max	1079.11	1085.07	1084.72	1084.21	1091.07	1083.12	1081.13
	Range	0.12	1.76	0.86	0.97	0.42	0.23	0.22
	Mean	1079.05	1084.59	1084.00	1083.60	1090.80	1082.90	1080.87

Figure 3-1. 2001 times series plot of water levels in monitoring well Seep 6 (Wetland R), White Pine Springs, Ewart, Michigan.

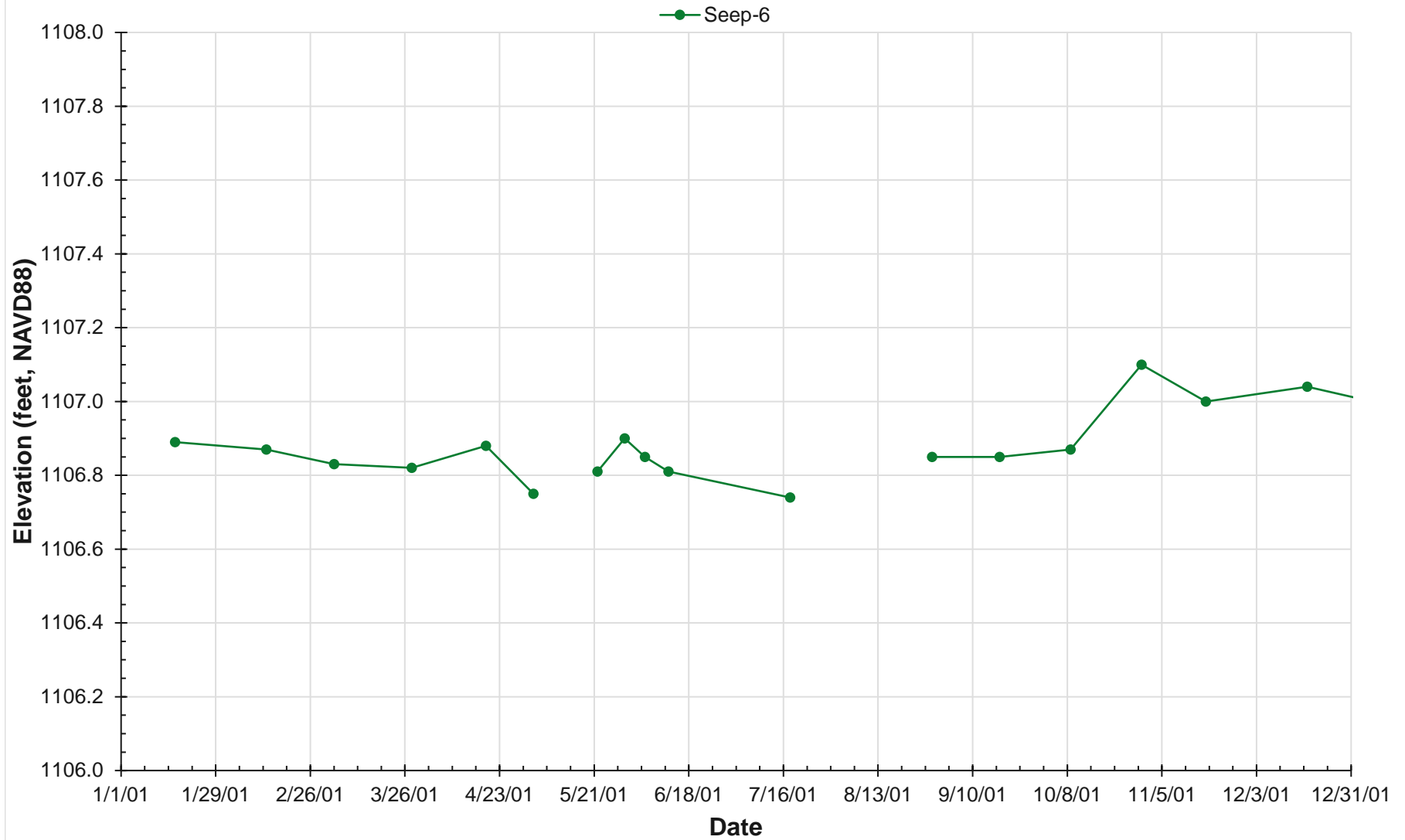


Figure 3-2. 2001 time series plot of water levels in monitoring well Seep-1 (Wetland R), White Pine Springs, Ewart, Michigan.

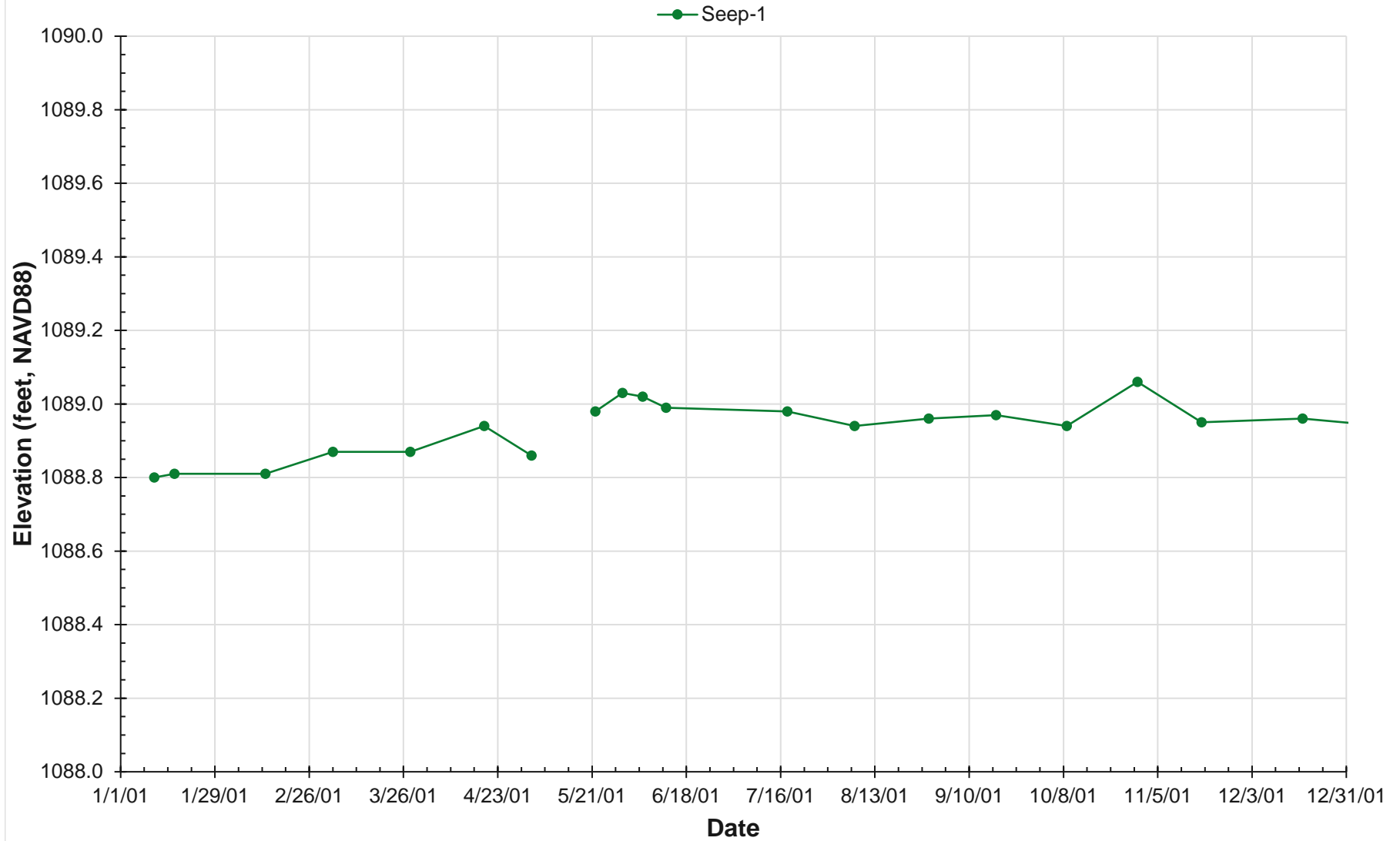


Figure 3. 2001 time series plot of water levels in monitoring wells Vent-1r (Wetland R), and Seep-5 (Wetland A), White Pine Springs, Evert, Michigan.

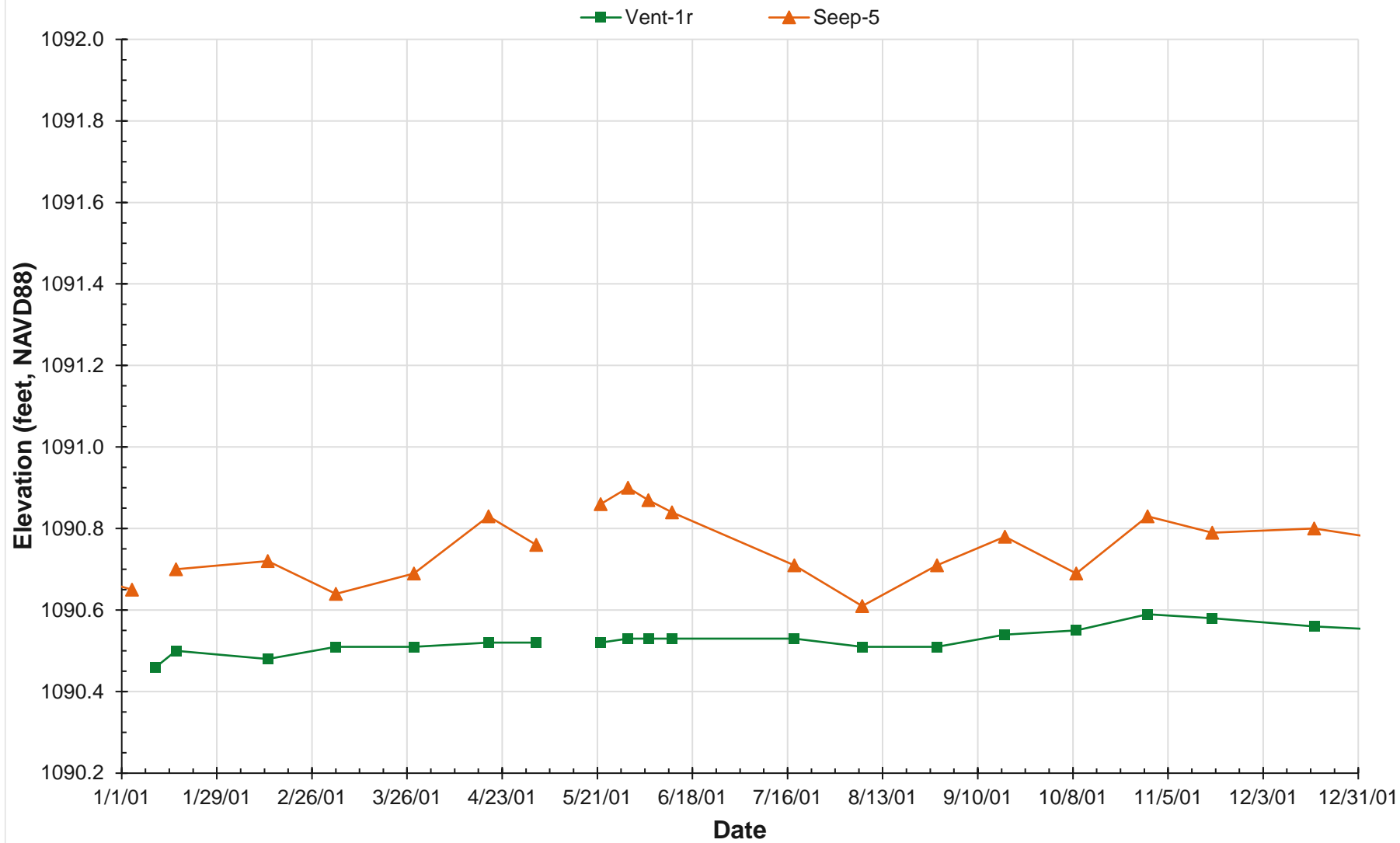


Figure 3-4. 2001 time series plot of water levels in monitoring well DP-8 (Wetland R), White Pine Springs, Evert, Michigan

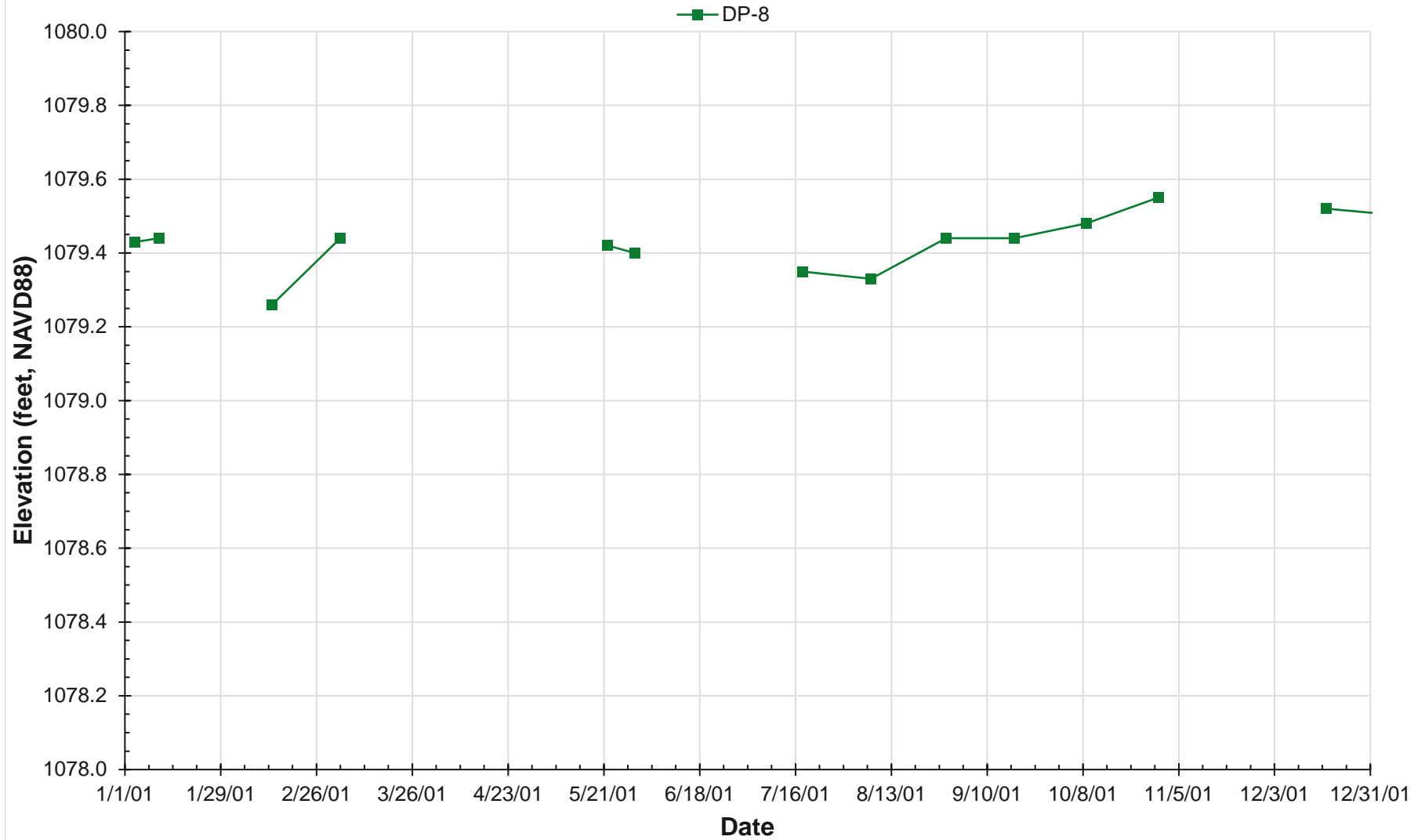


Figure 3-5. 2001 time series plot of water levels in monitoring wells DP-5, DP-6, and DP-7 (Wetland R) and SW-8-DP (Wetland A), White Pine Springs, Ewart, Michigan.

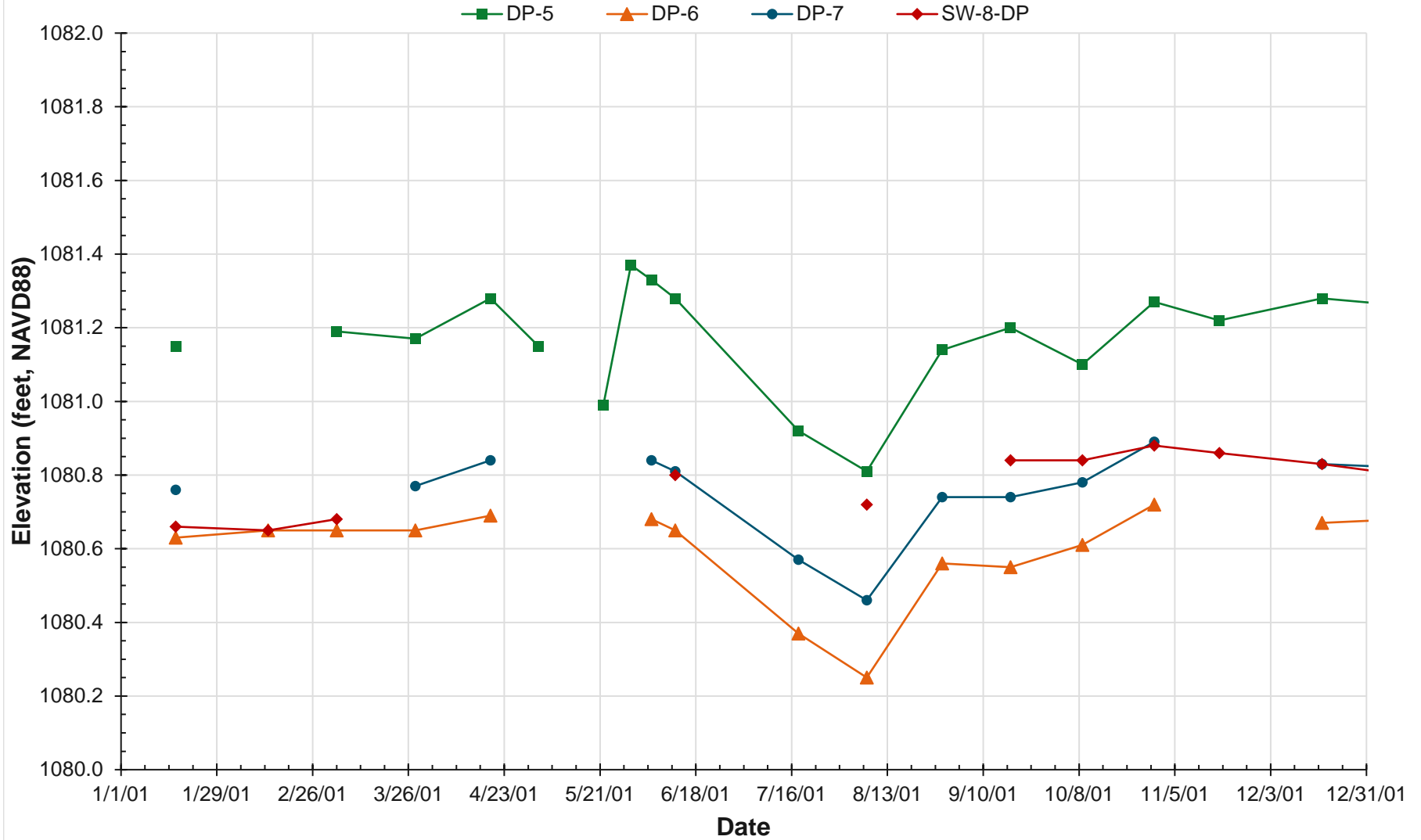


Figure 3-6. 2001 time series plot of water levels in monitoring wells DP-1, DP-2, and DP-3 (Wetland G) and Seep-4 (Wetland R), White Pine Springs, Evert, Michigan.

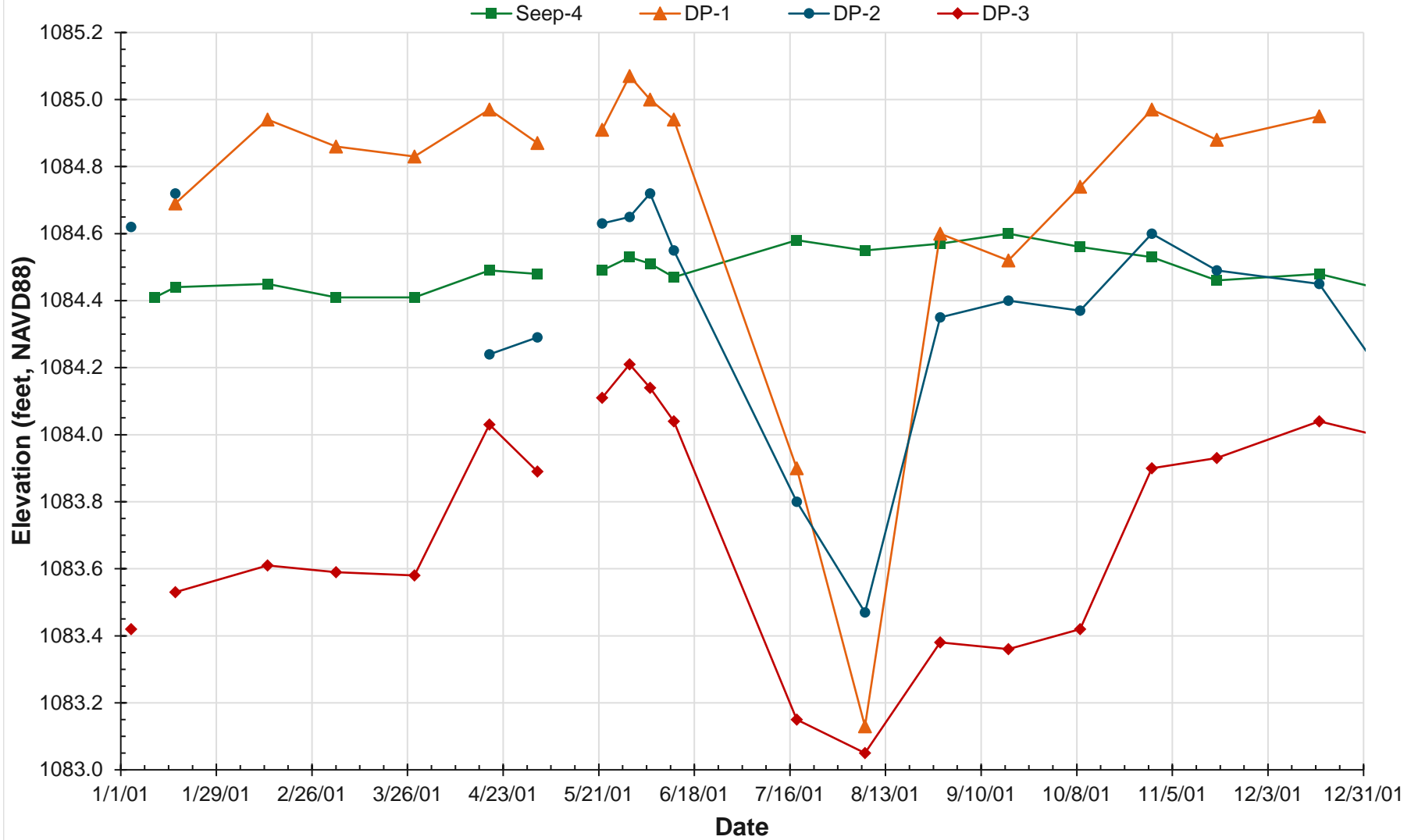


Figure 3-7. 2001 time series plot of water levels in monitoring wells Seep-2 and Seep-3 (Wetland R), White Pine Springs, Ewart, Michigan.

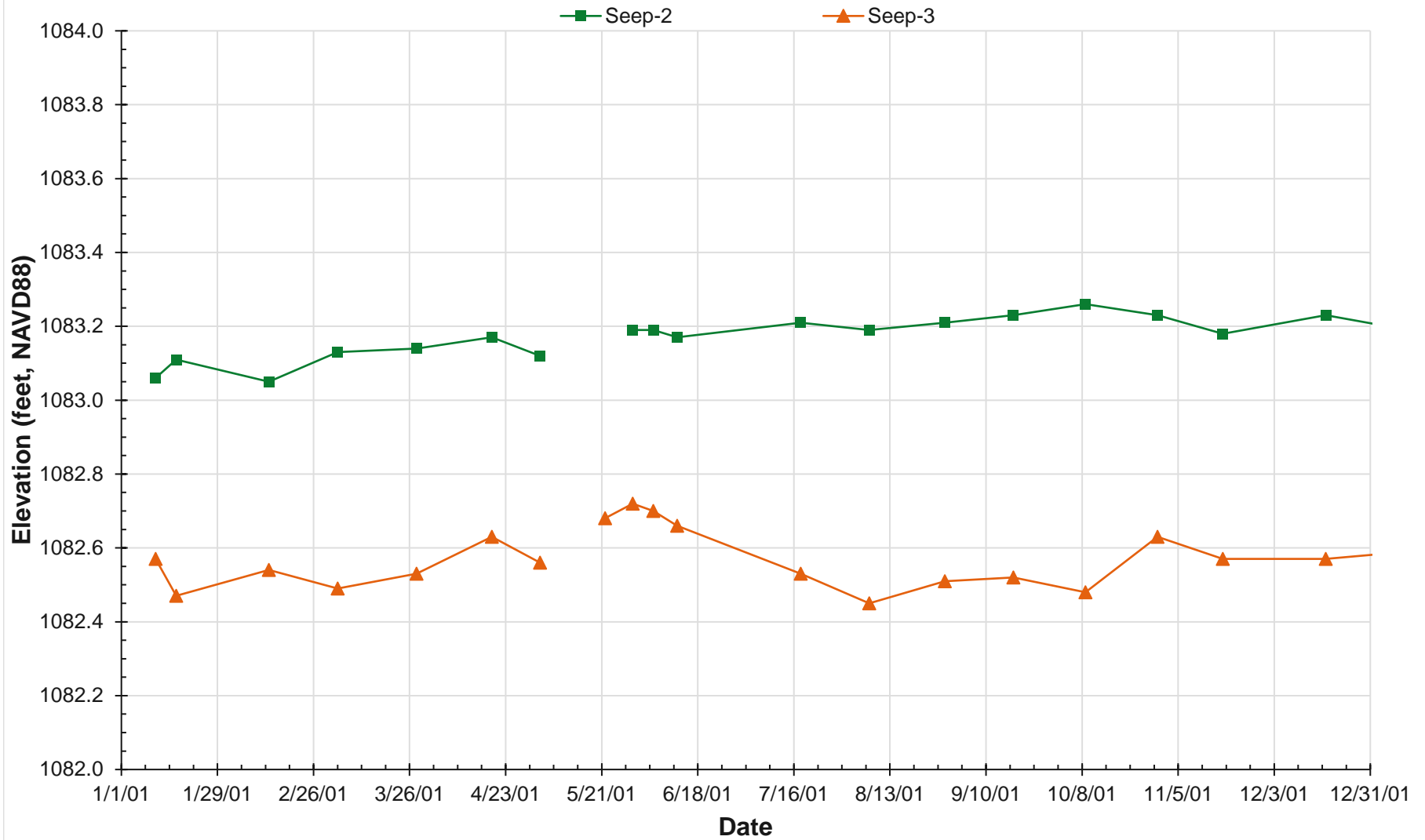


Figure 3-8. 2002 time series plot of water levels in monitoring well Seep-6 (Wetland R), White Pine Springs, Ewart, Michigan.

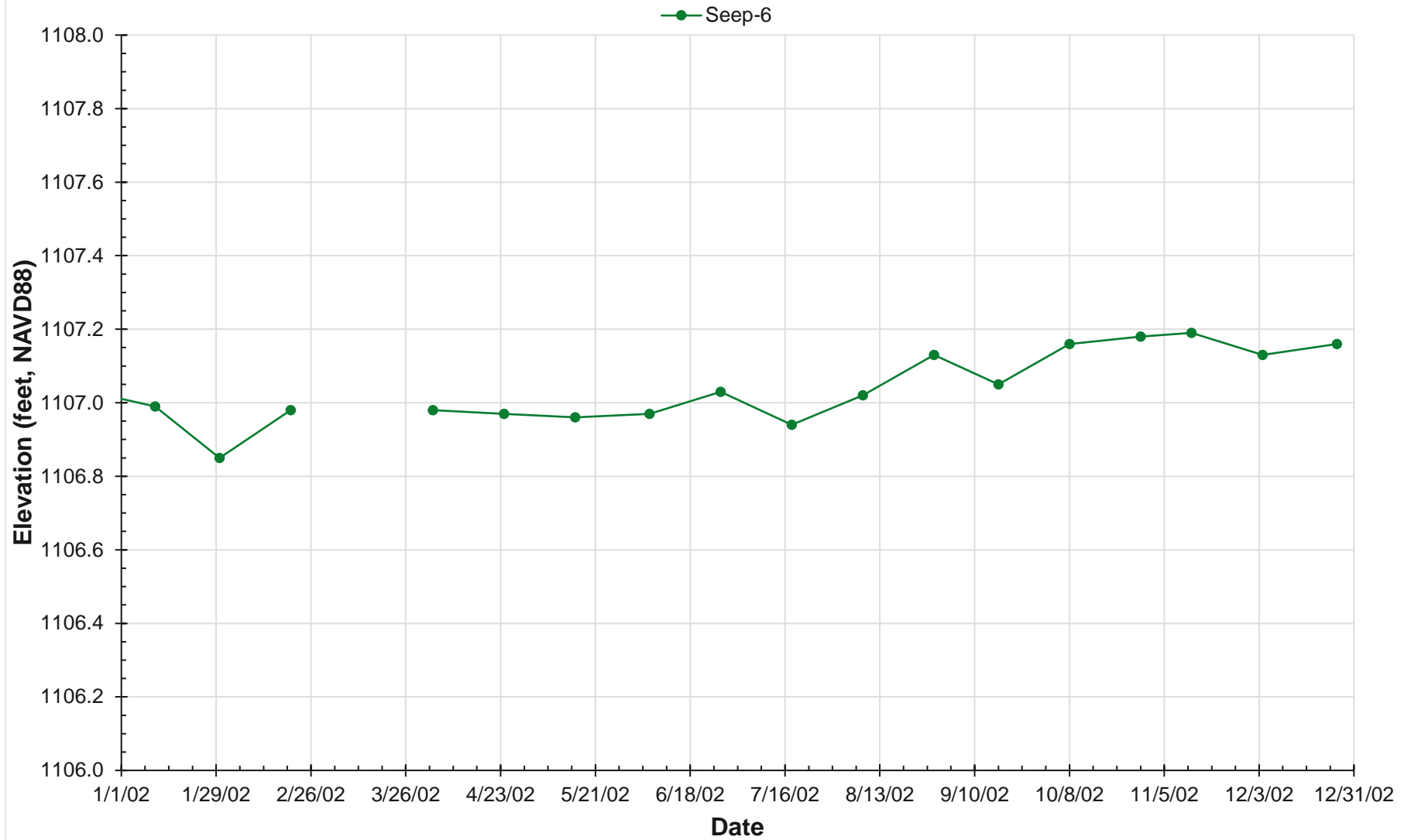


Figure 3-9. 2002 time series plot of water levels in monitoring well Seep-1 (Wetland R), White Pine Springs, Ewart, Michigan.

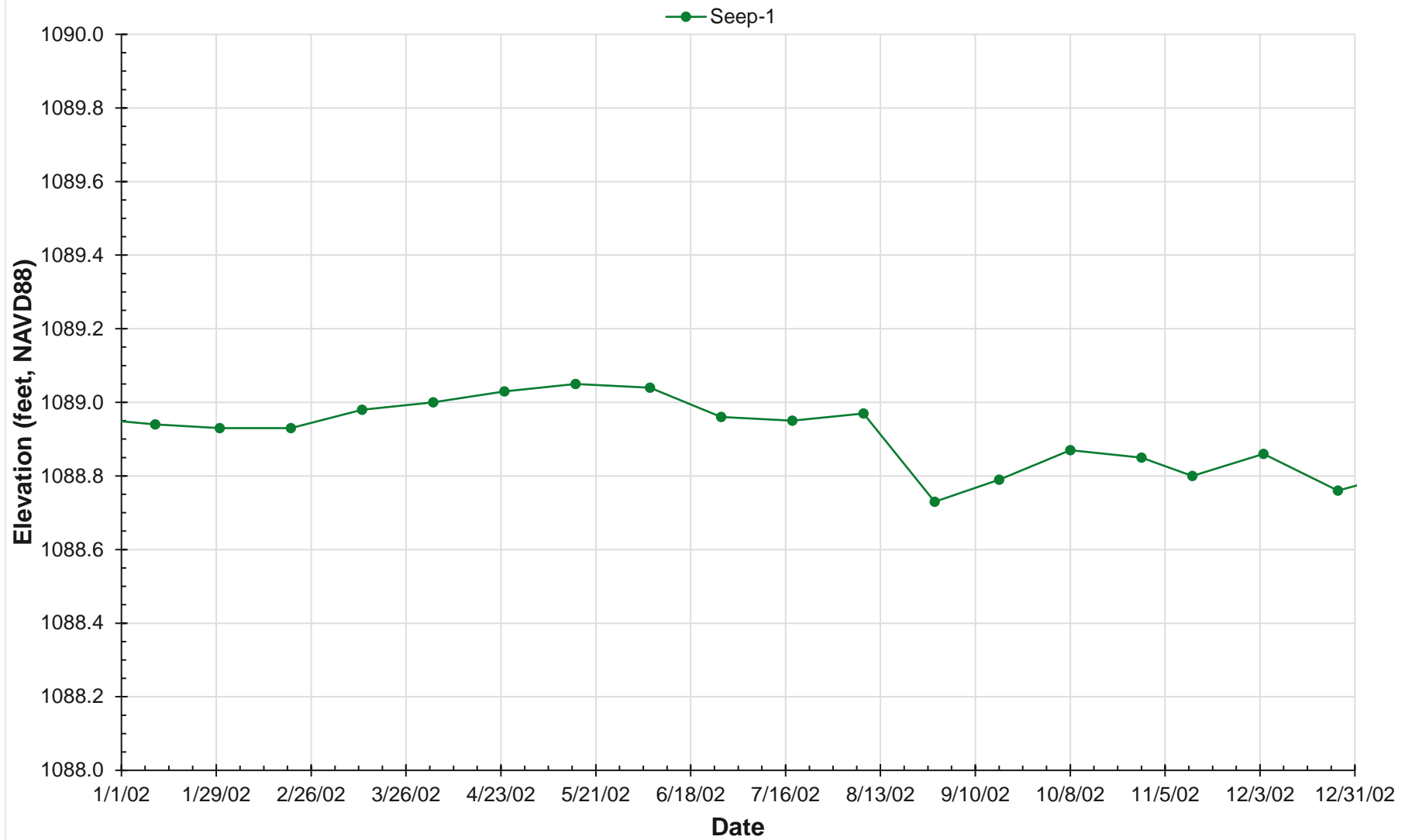


Figure 3-10. 2002 time series plot of water levels in monitoring wells Vent-1r and SW-1-DP (Wetland R) and Seep-5 (Wetland A), White Pine Springs, Ewart, Michigan.

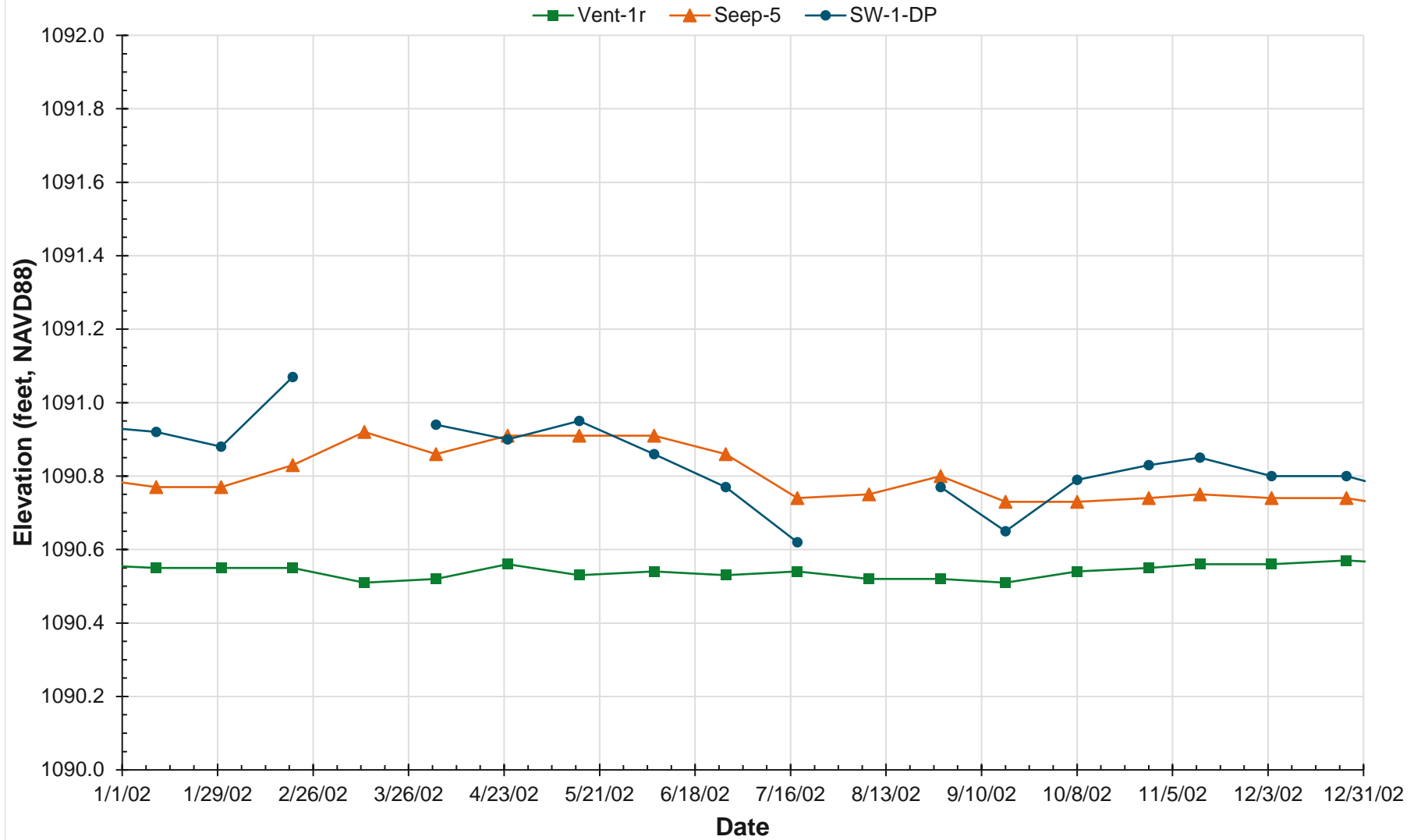


Figure 3-11. 2002 time series plot of water levels in monitoring well SW-2-DP (Wetland R), White Pine Springs, Evert, Michigan.

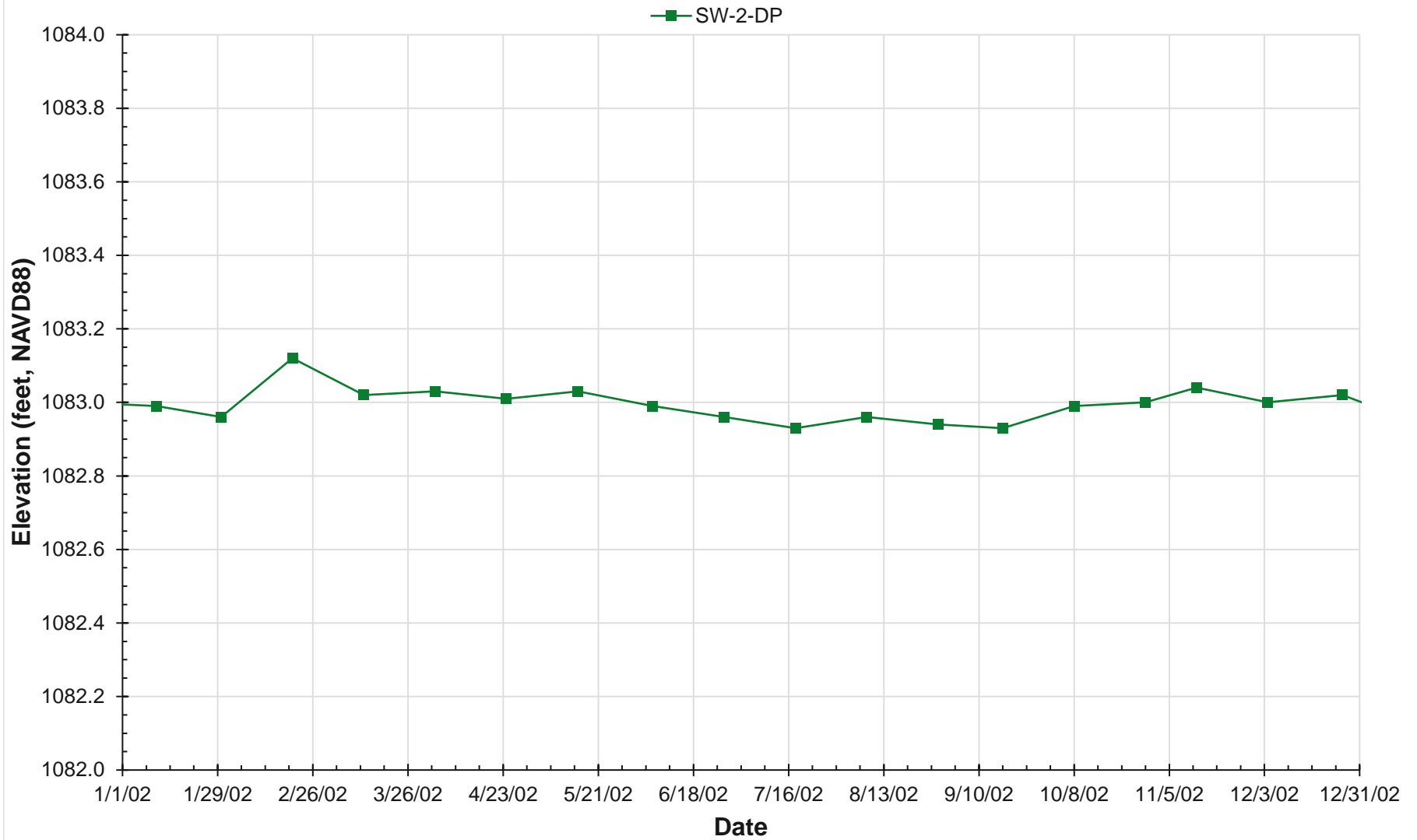


Figure 3-12. 2002 time series plot of water levels in monitoring well SW-3-DP (Wetland R), White Pine Springs, Evert, Michigan.

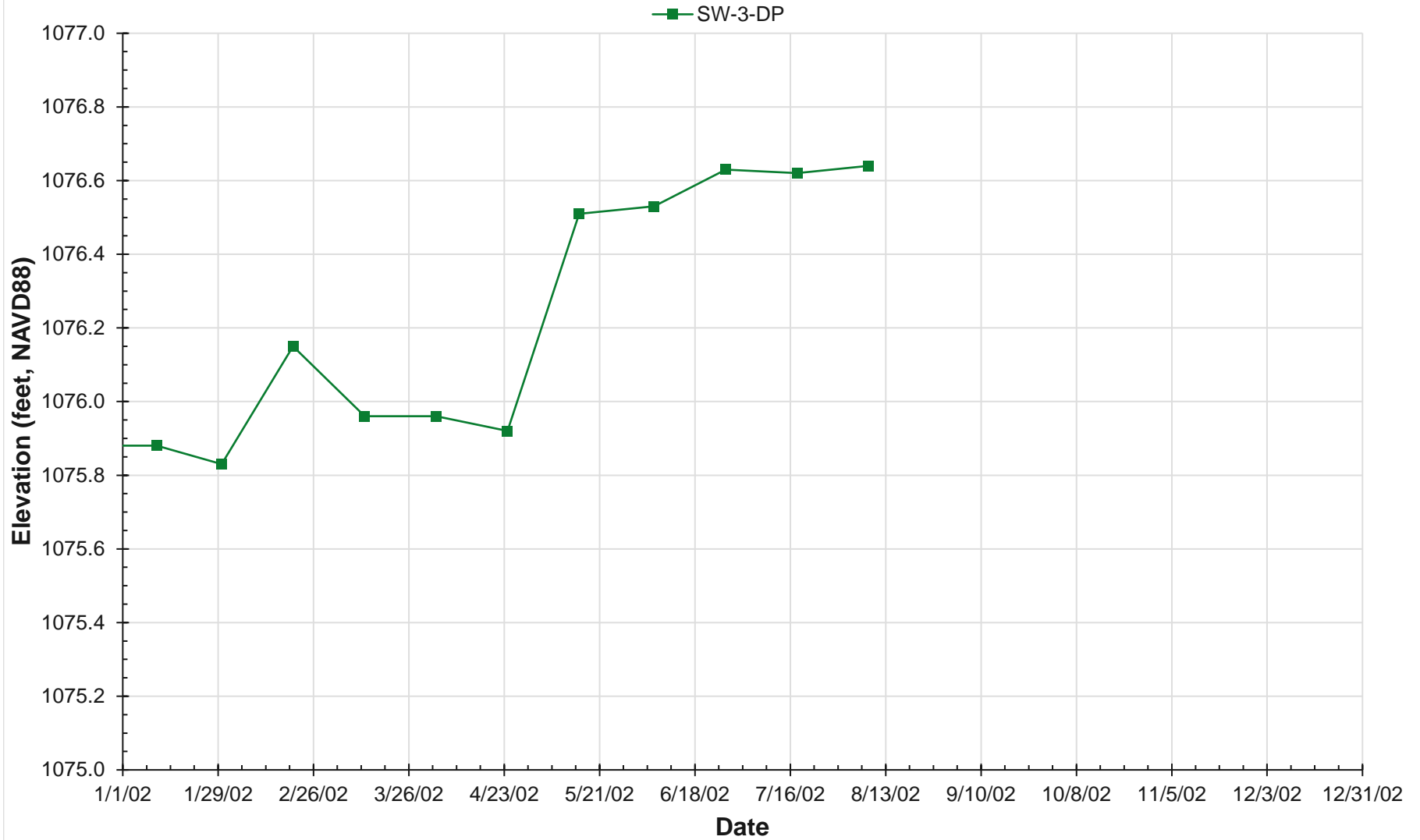


Figure 3-13. 2002 time series plot of water levels in monitoring well SW-11-DP (Wetland R), White Pine Springs, Evert, Michigan.

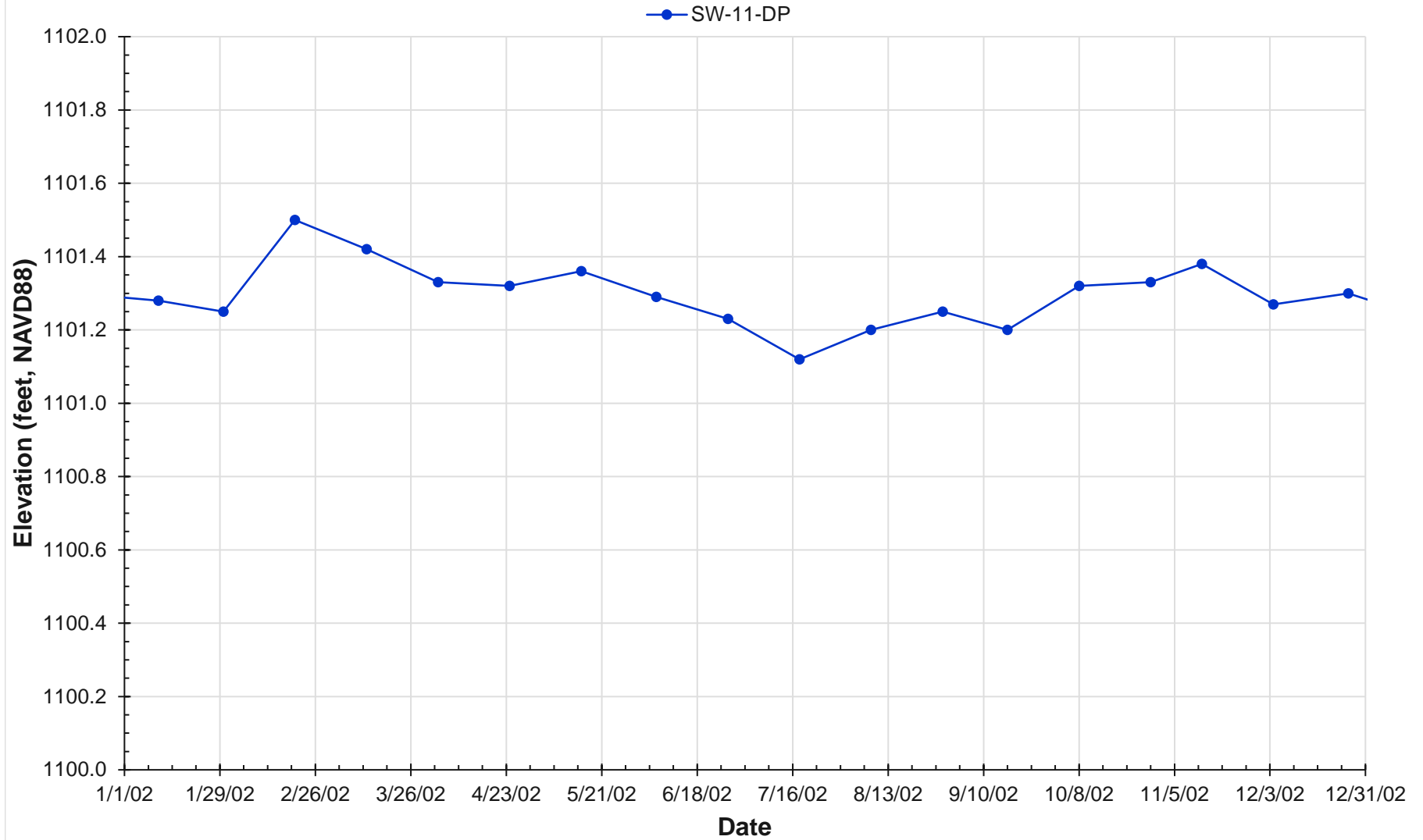


Figure 3-14. 2002 time series plot of water levels in monitoring well DP-8 (Wetland R), White Pine Springs, Ewart, Michigan.

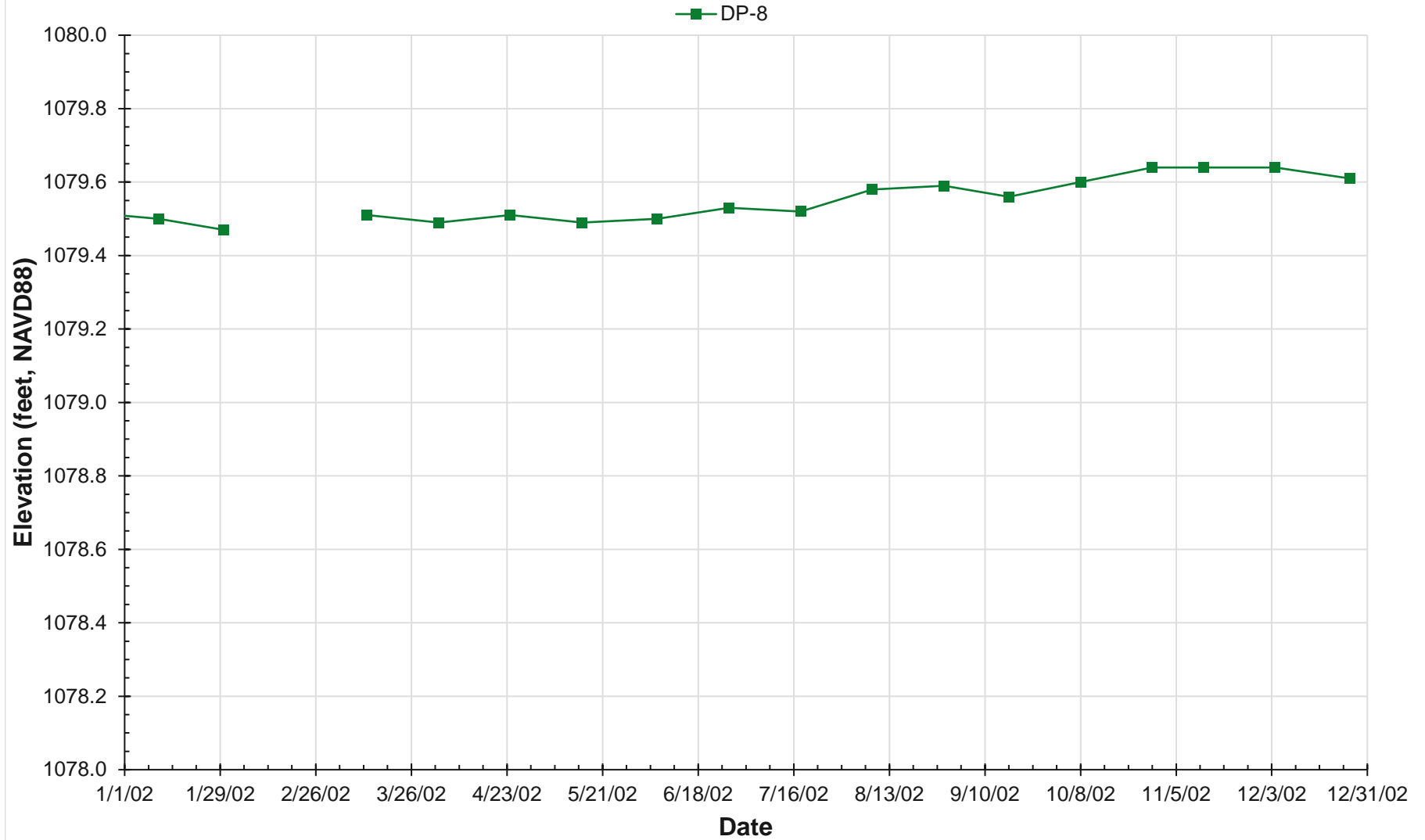


Figure 3-15. 2002 time series plot of water levels in monitoring wells DP-5, DP-6, and DP-7 (Wetland R) and SW-8-DP (Wetland A), White Pine Springs, Ewart, Michigan.

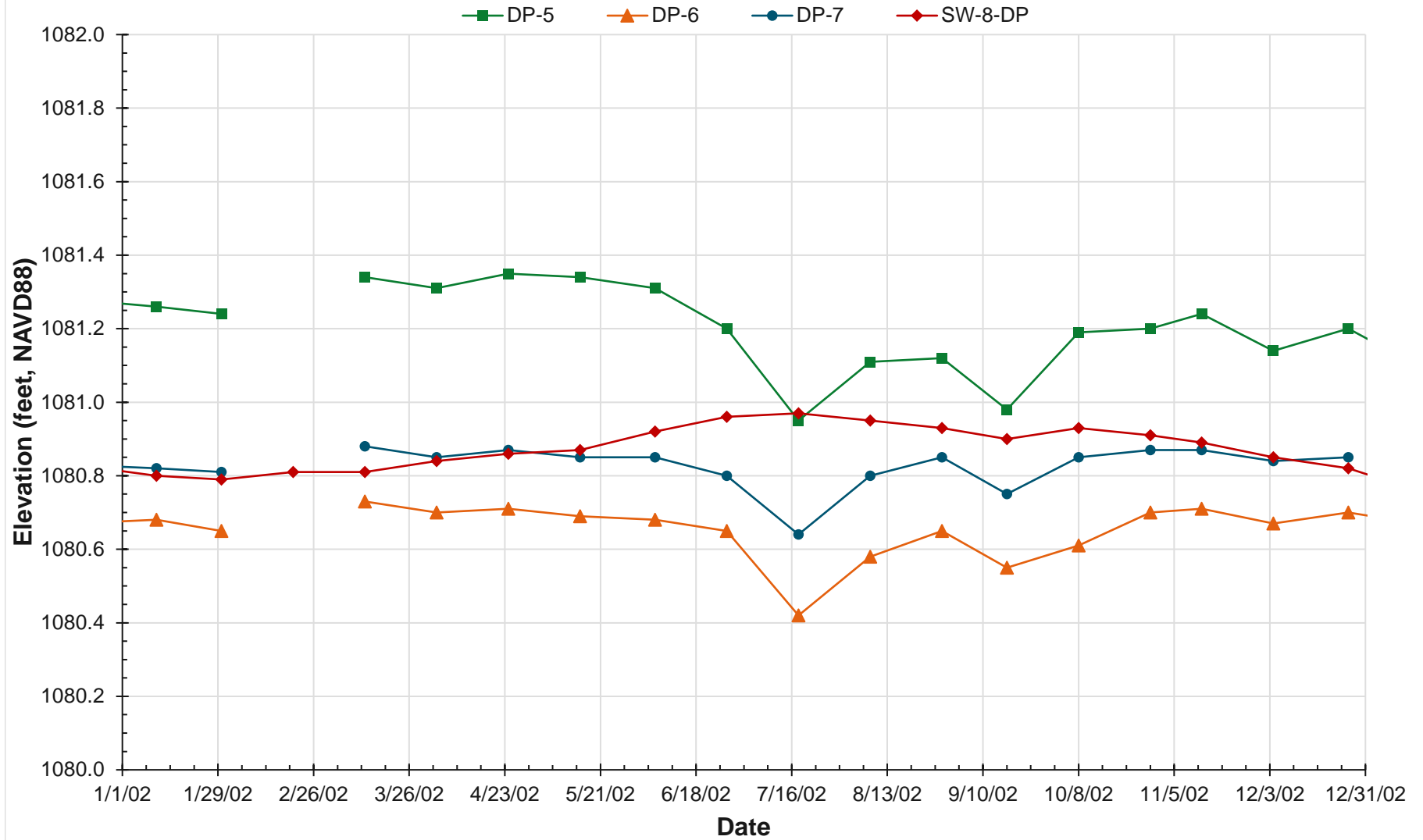


Figure 3-16. 2002 time series plot of water levels in monitoring wells DP-1, DP-2, and DP-3 (Wetland G) and Seep-4 (Wetland R), White Pine Springs, Ewart, Michigan.

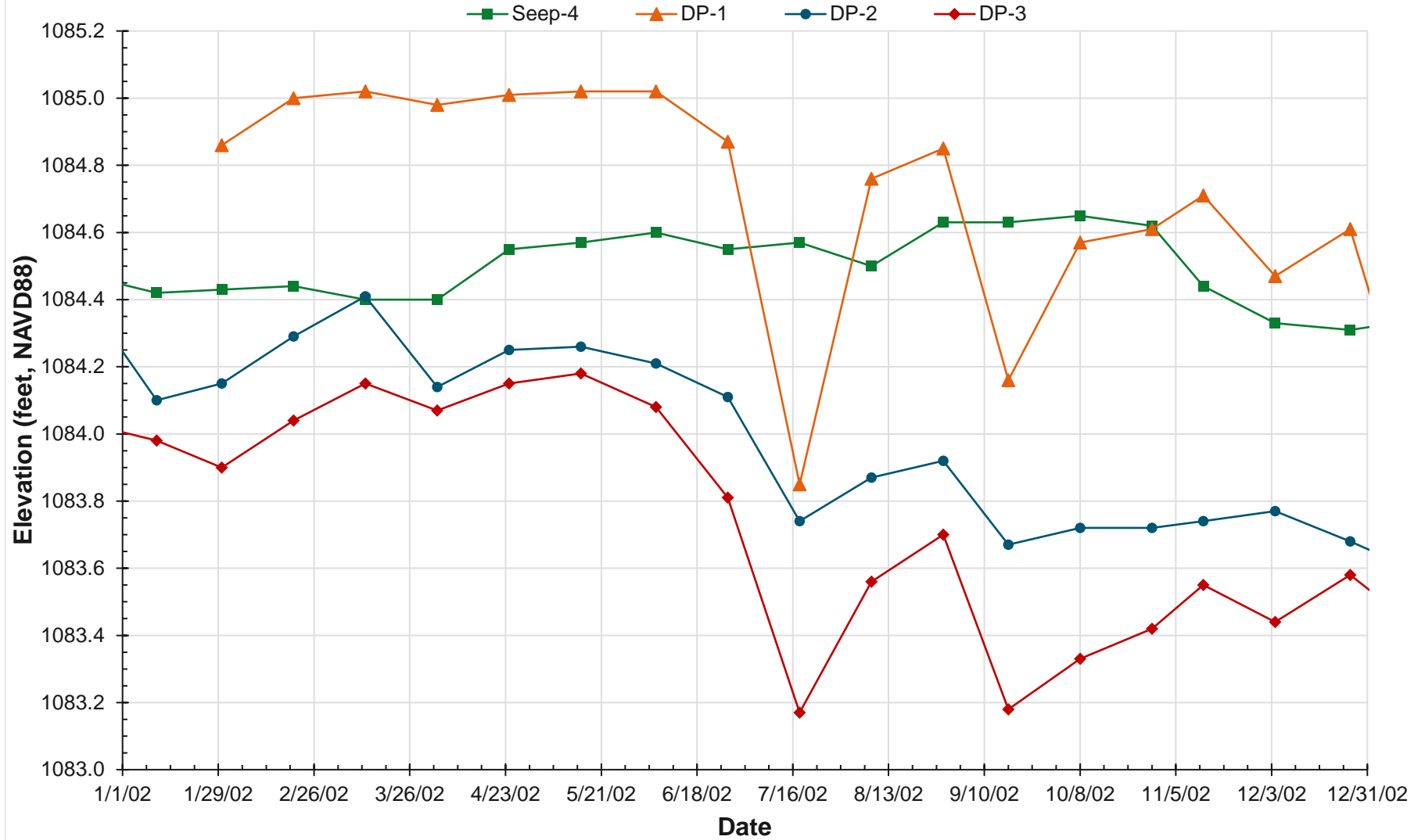


Figure 3-17. 2002 time series plot of water levels in monitoring wells Seep-2, Seep-3, and SW-2-DP (Wetland R), White Pine Springs, Ewart, Michigan.

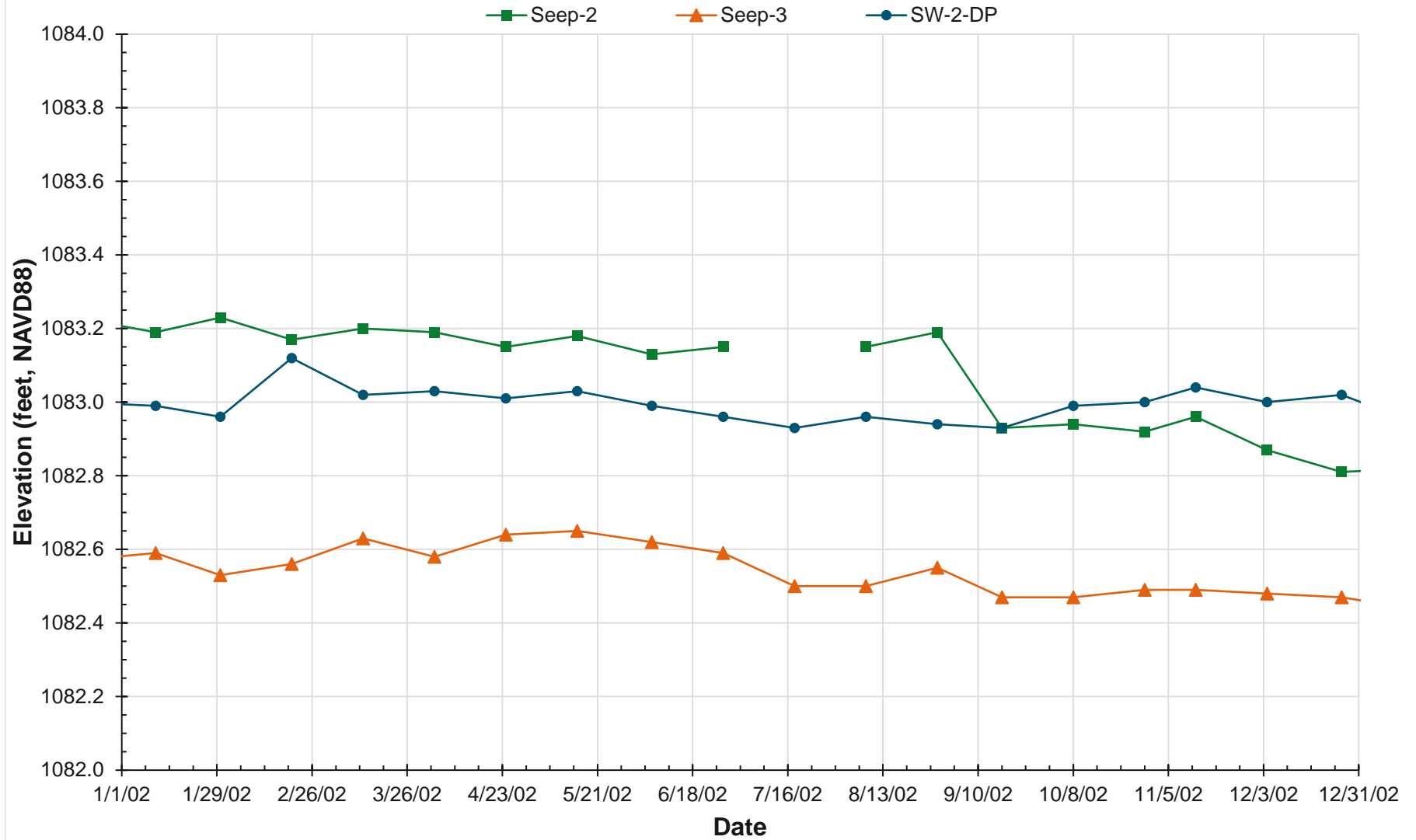


Figure 3-18. 2002 time series plot of water levels in monitoring well Seep-6, White Pine Springs, Ewart, Michigan.

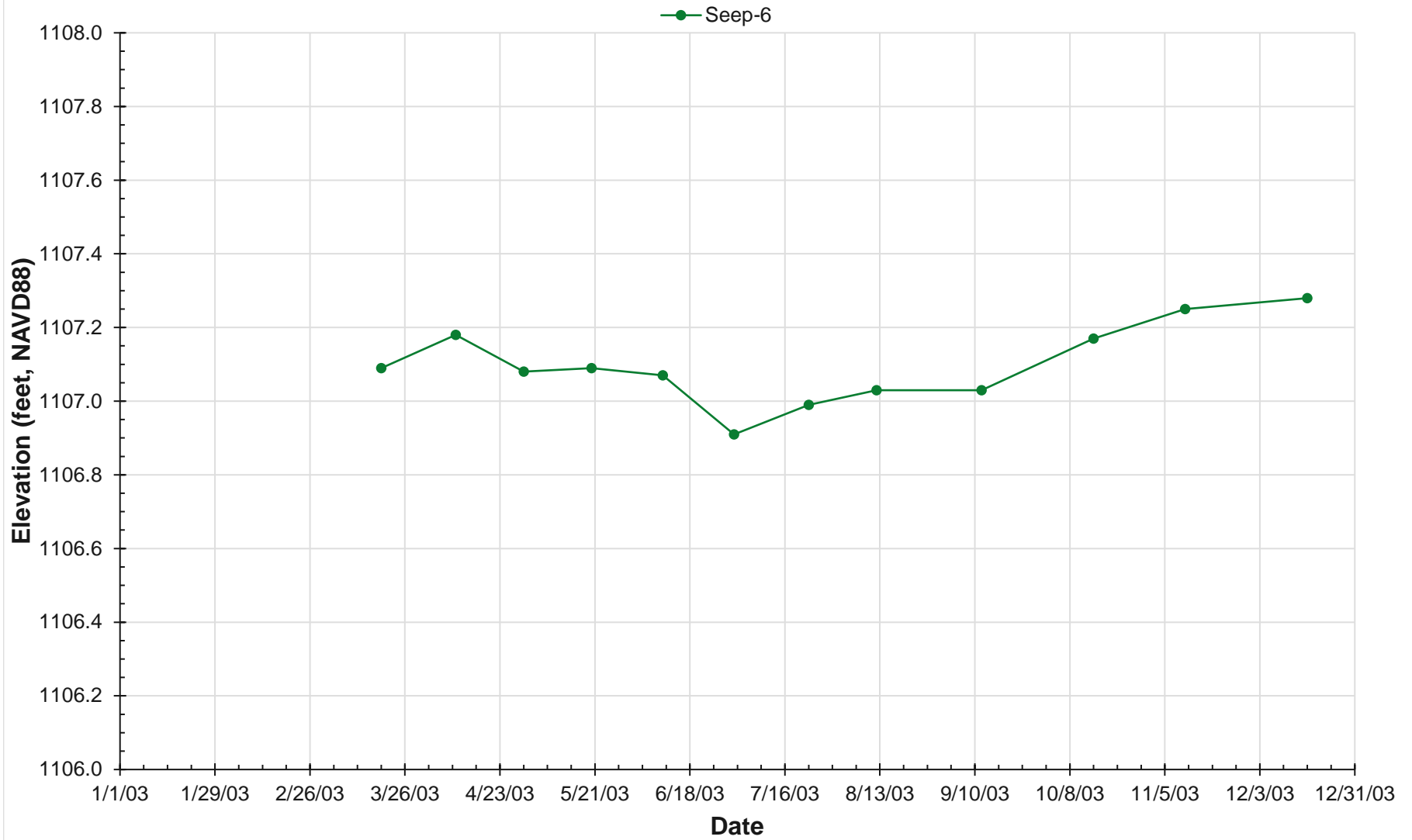


Figure 3-19. 2003 time series plot of water levels in monitoring well Seep-1 (Wetland R), White Pine Springs, Ewart, Michigan.

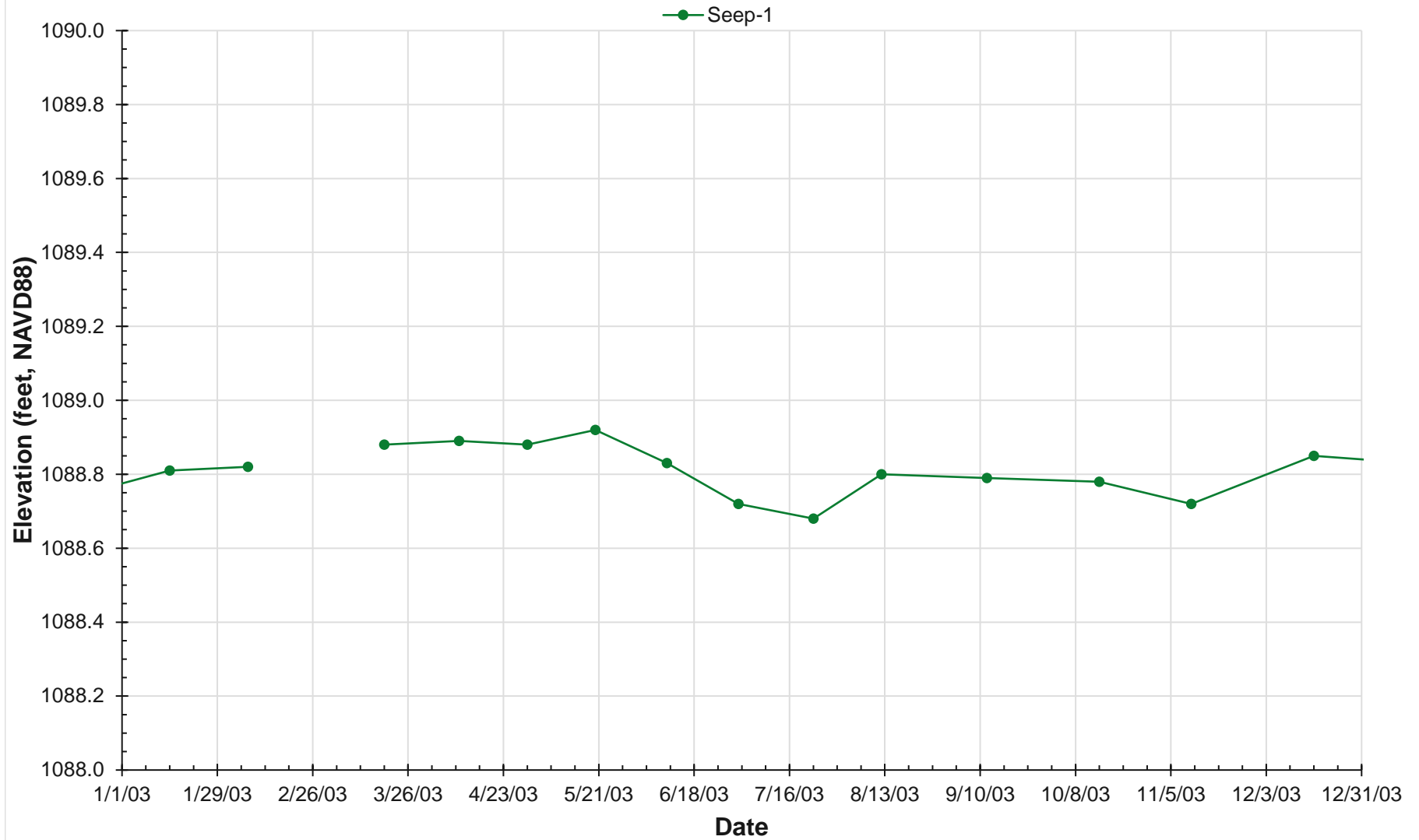


Figure 3-20. 2003 time series plot of water levels in monitoring wells Vent-1r, Seep-5, SW-1-DP
White Pine Springs, Evert, Michigan.

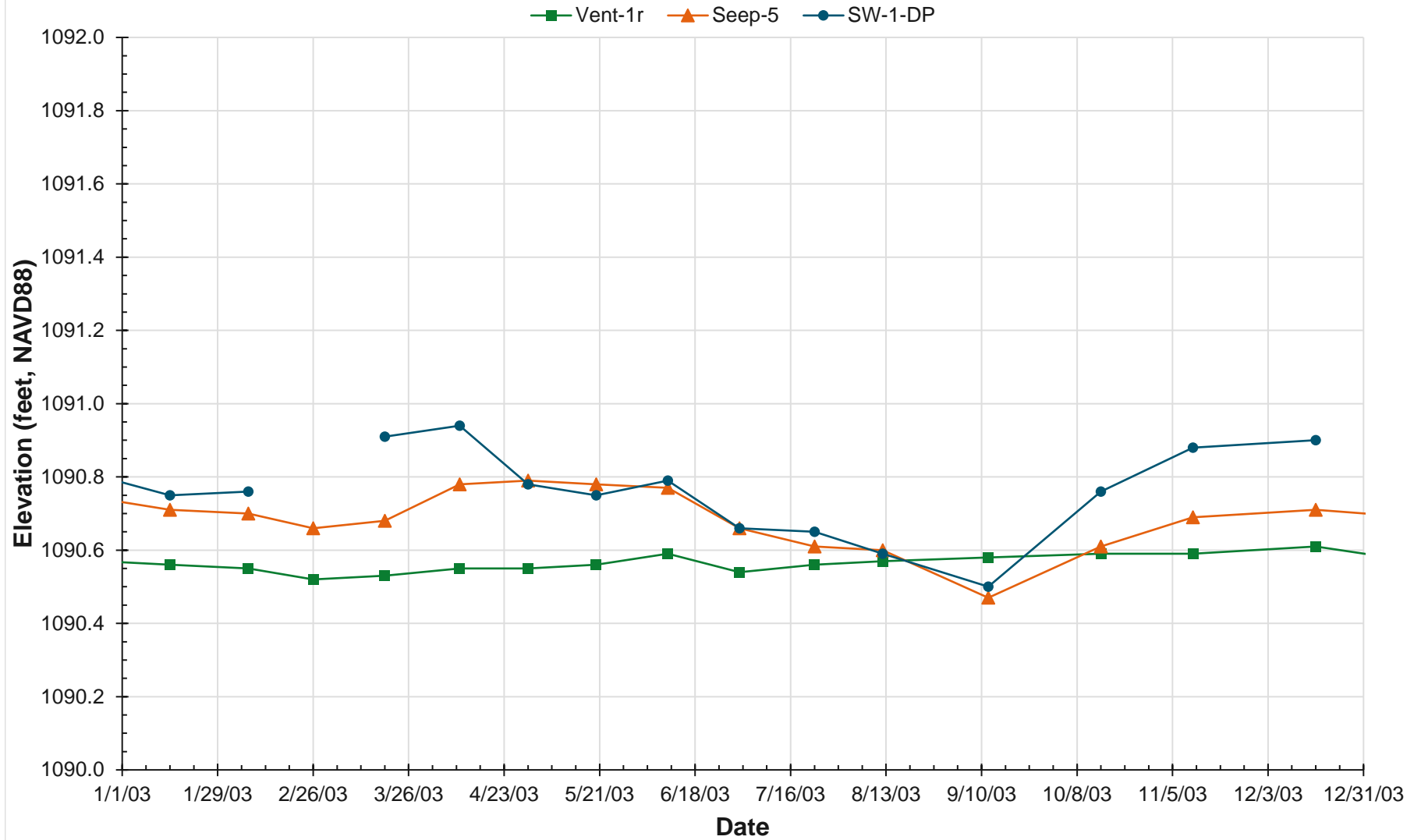


Figure 3-20. 2004 time series plot of water levels in monitoring wells Vent-1r, Seep-5, SW-1-DP
White Pine Springs, Ewart, Michigan.

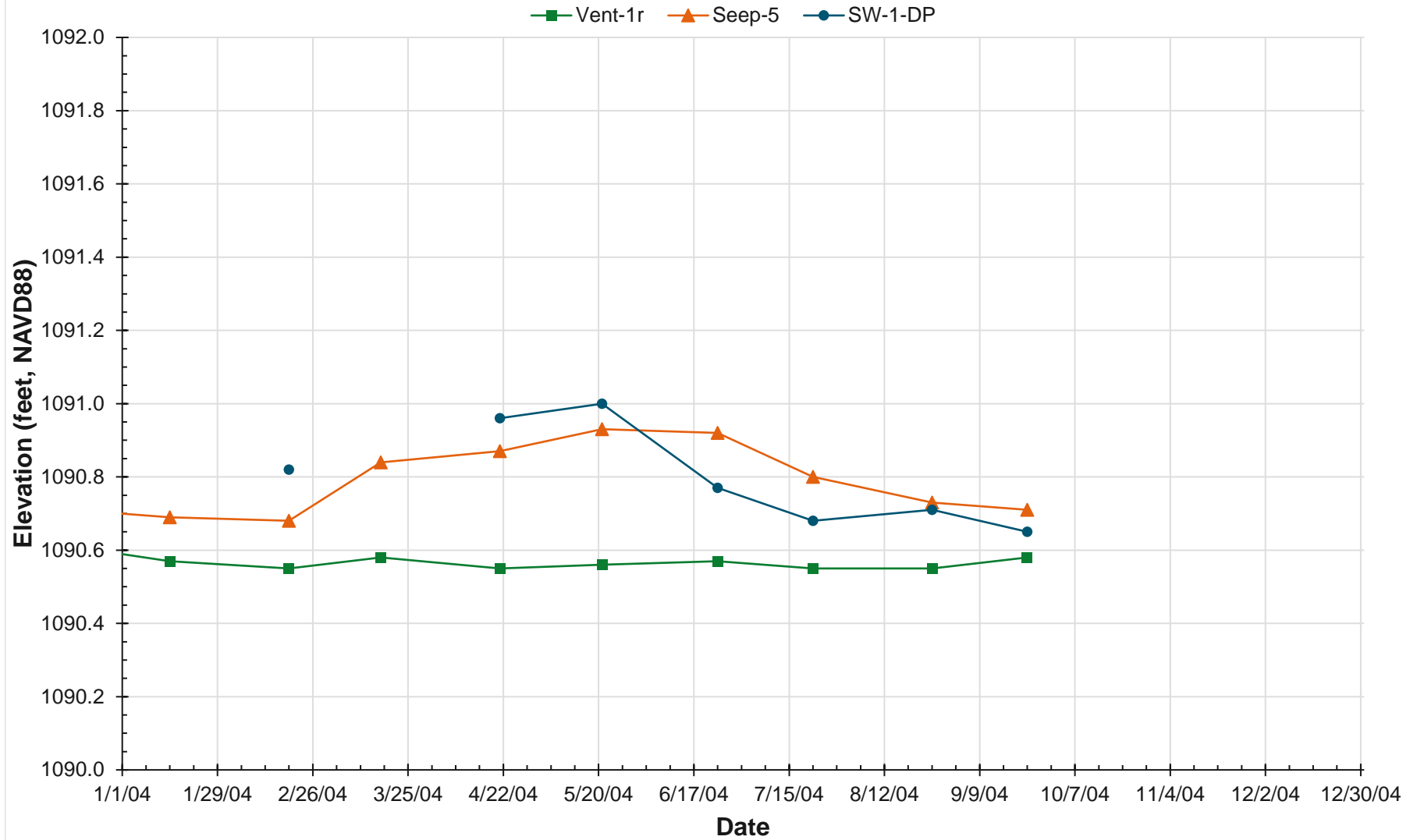


Figure 3-21. 2003 time series plot of water levels in monitoring well SW-2-DP
White Pine Springs, Evert, Michigan.

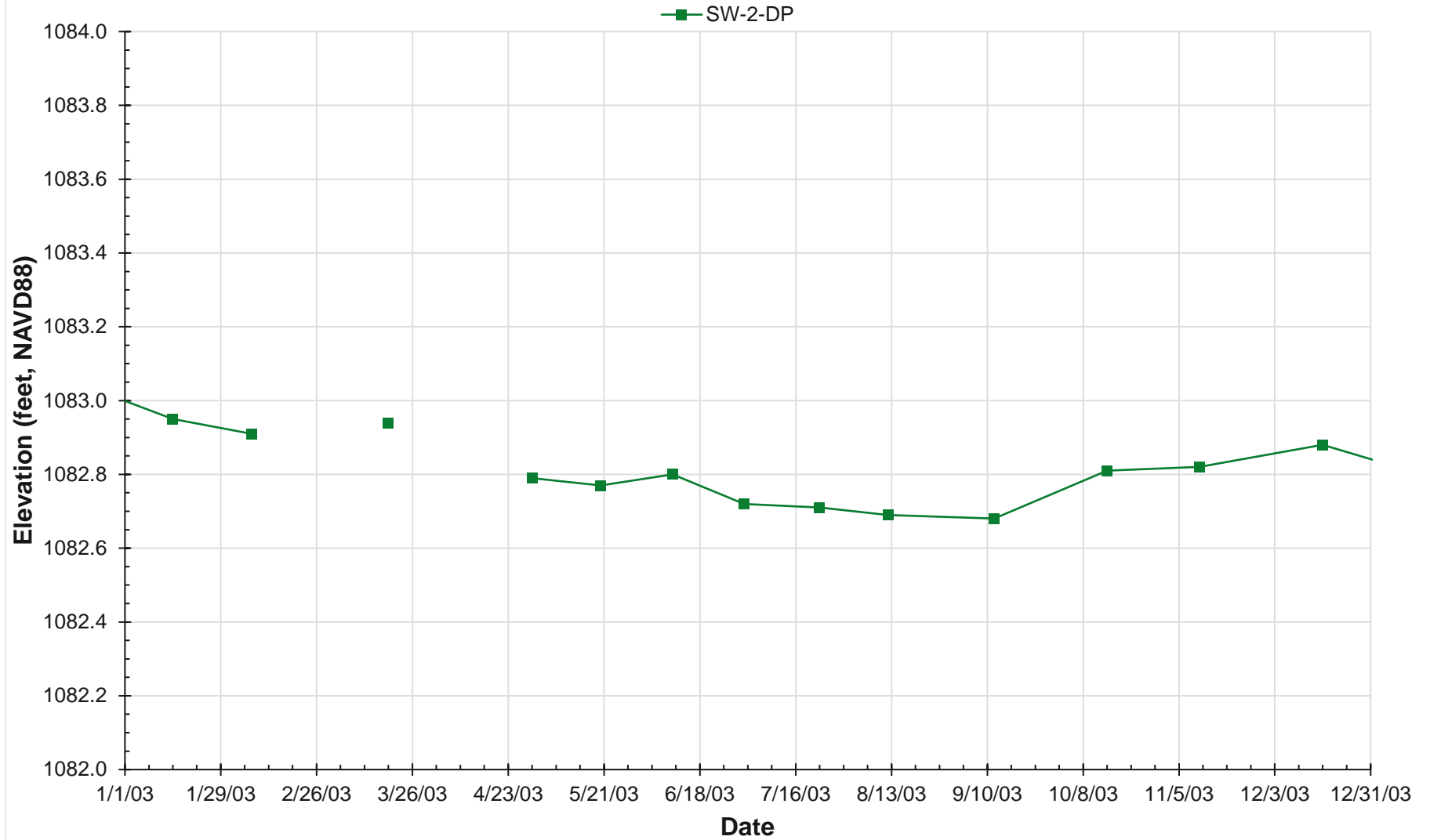
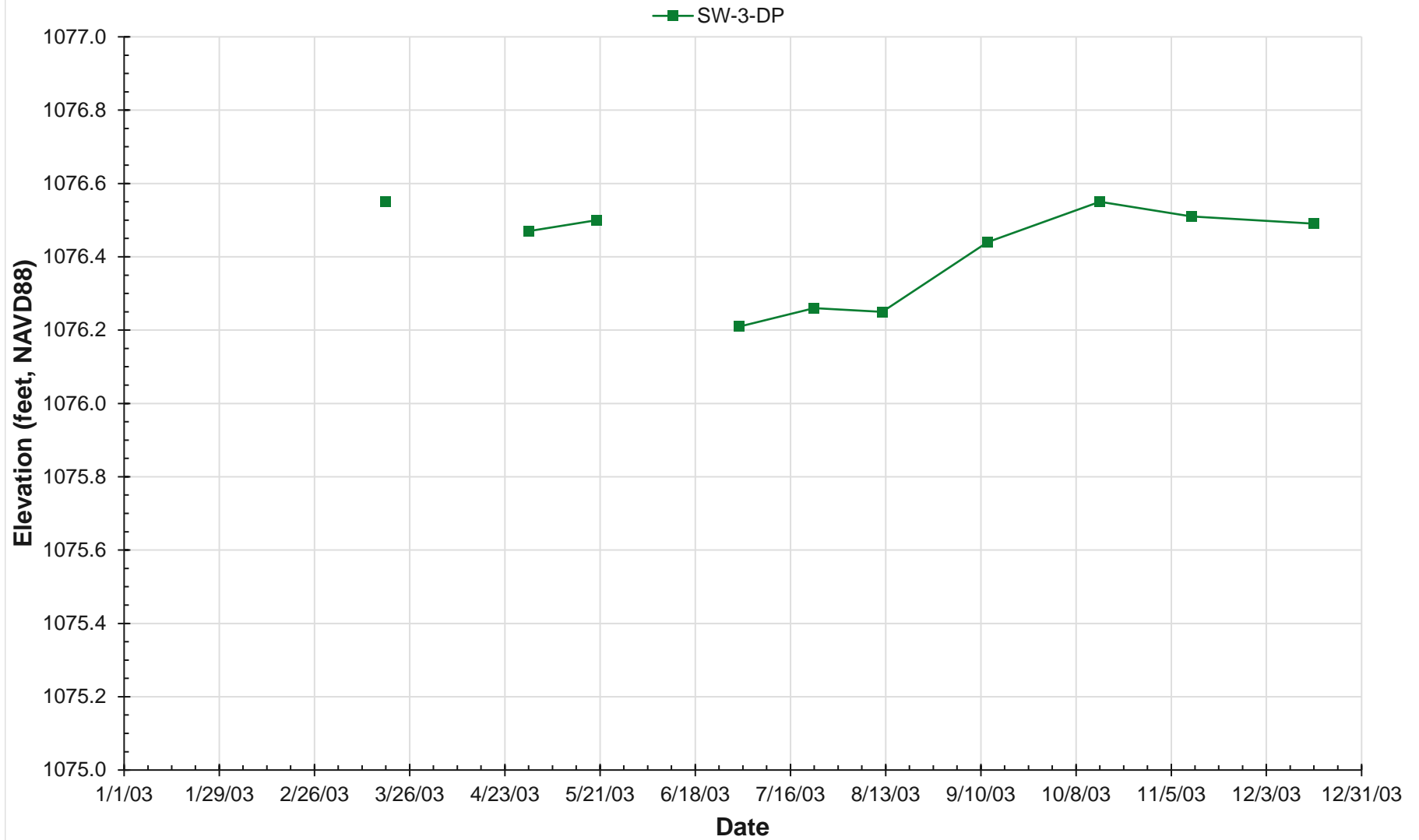
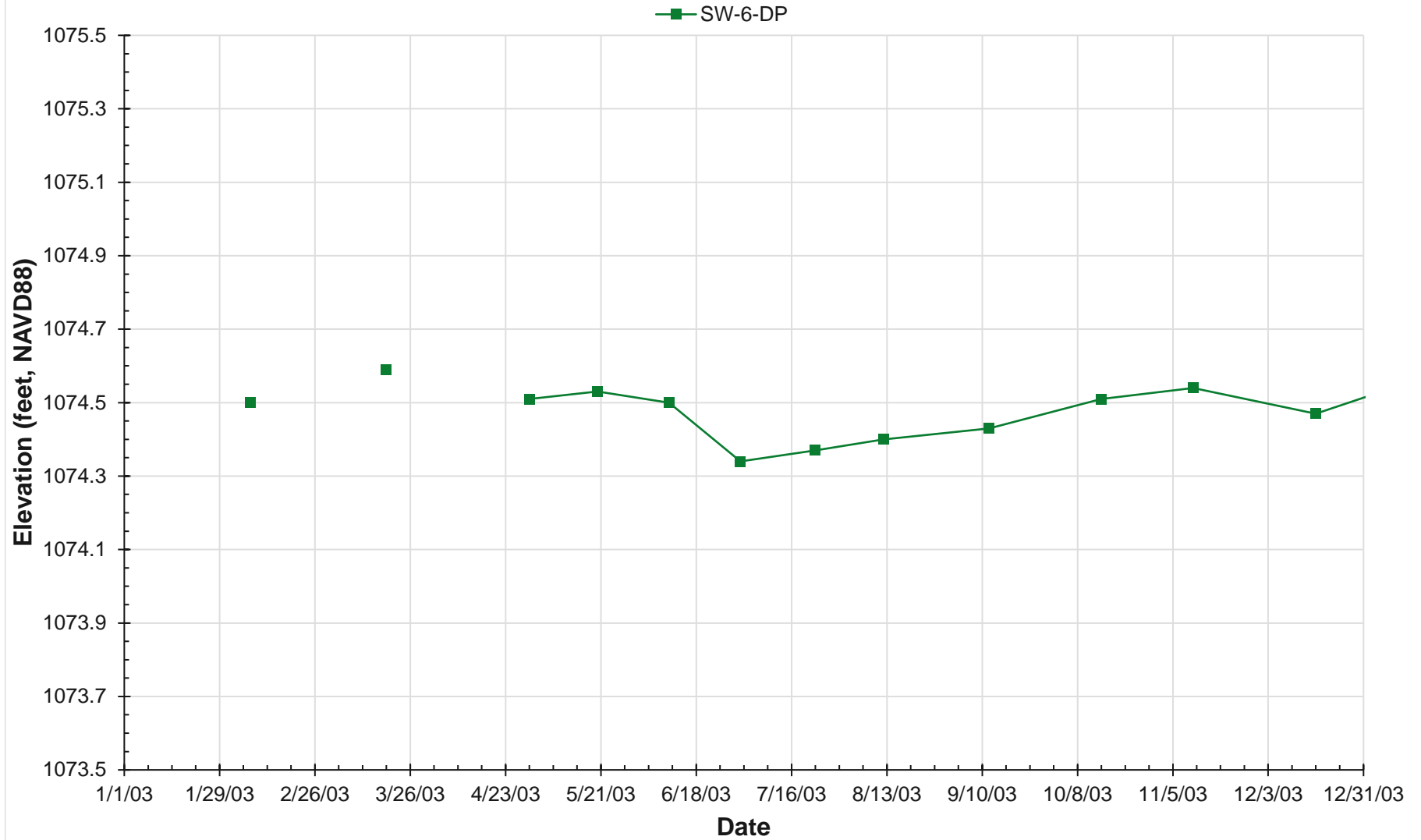


Figure 3-22. 2003 time series plot of water levels in monitoring well SW-3-DP
White Pine Springs, Ewart, Michigan.



**Figure 3-23. 2003 time series plot of water levels in monitoring well SW-6-DP
White Pine Springs, Ewart, Michigan.**



**Figure 3-24. 2003 time series plot of water levels in monitoring well SW-11-DP
White Pine Springs, Ewart, Michigan.**

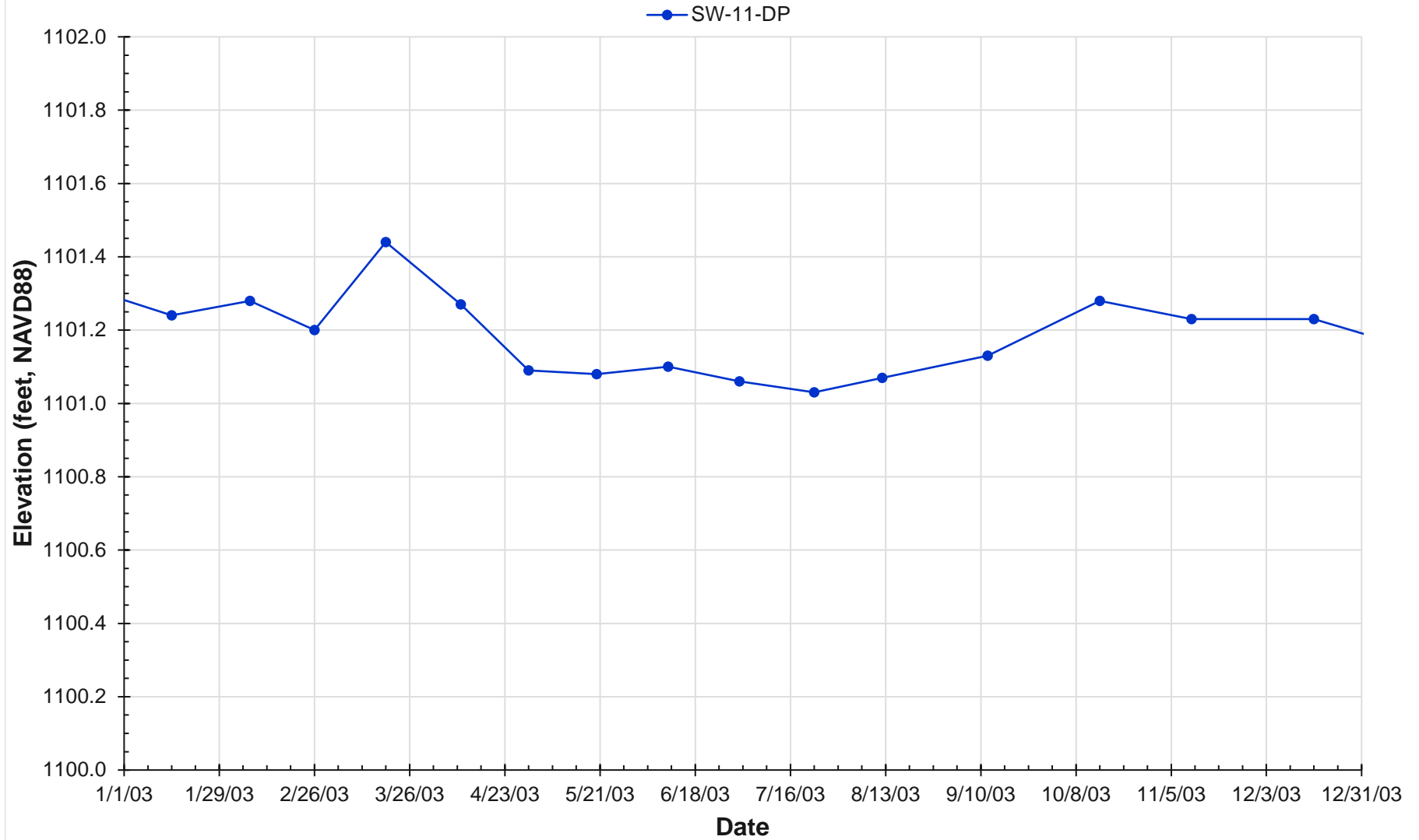


Figure 3-25. 2003 time series plot of water levels in monitoring well SW-14-DP
White Pine Springs, Evert, Michigan.

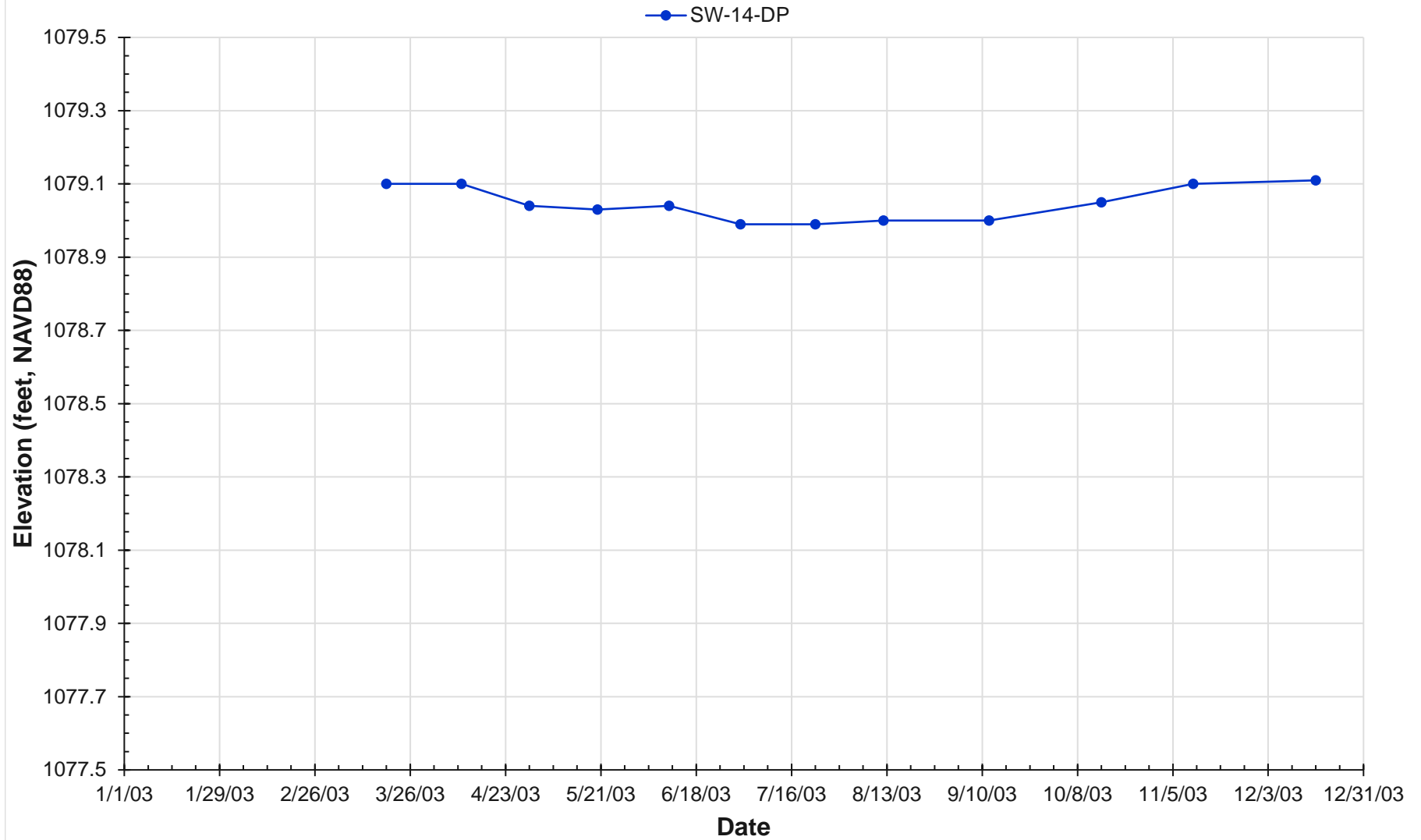


Figure 3-26. 2003 time series plot of water levels in monitoring well DP-8
White Pine Springs, Ewart, Michigan.

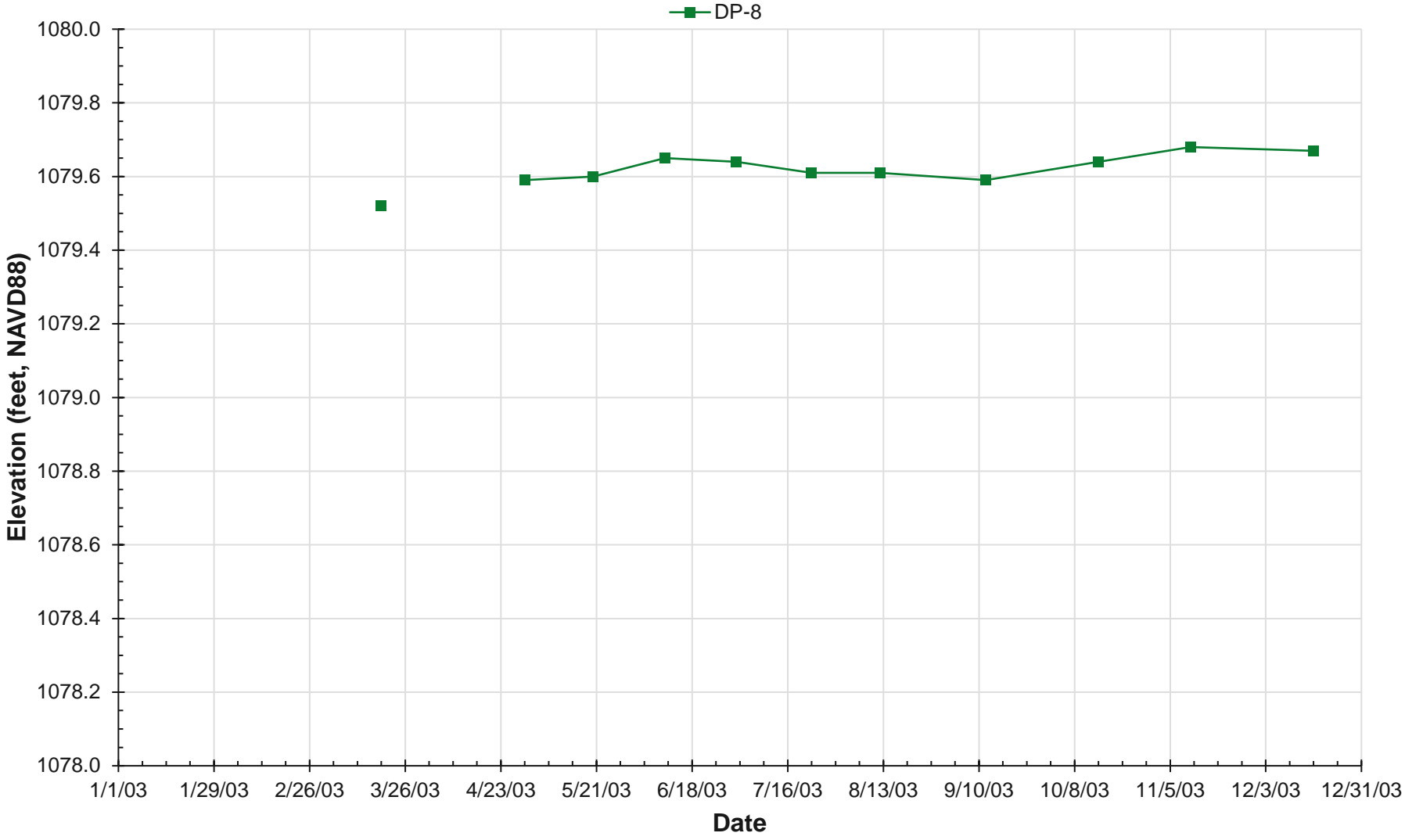


Figure 3-27. 2003 time series plot of water levels in monitoring wells DP-5, DP-6, DP-7 and SW-8-DP White Pine Springs, Ewart, Michigan.

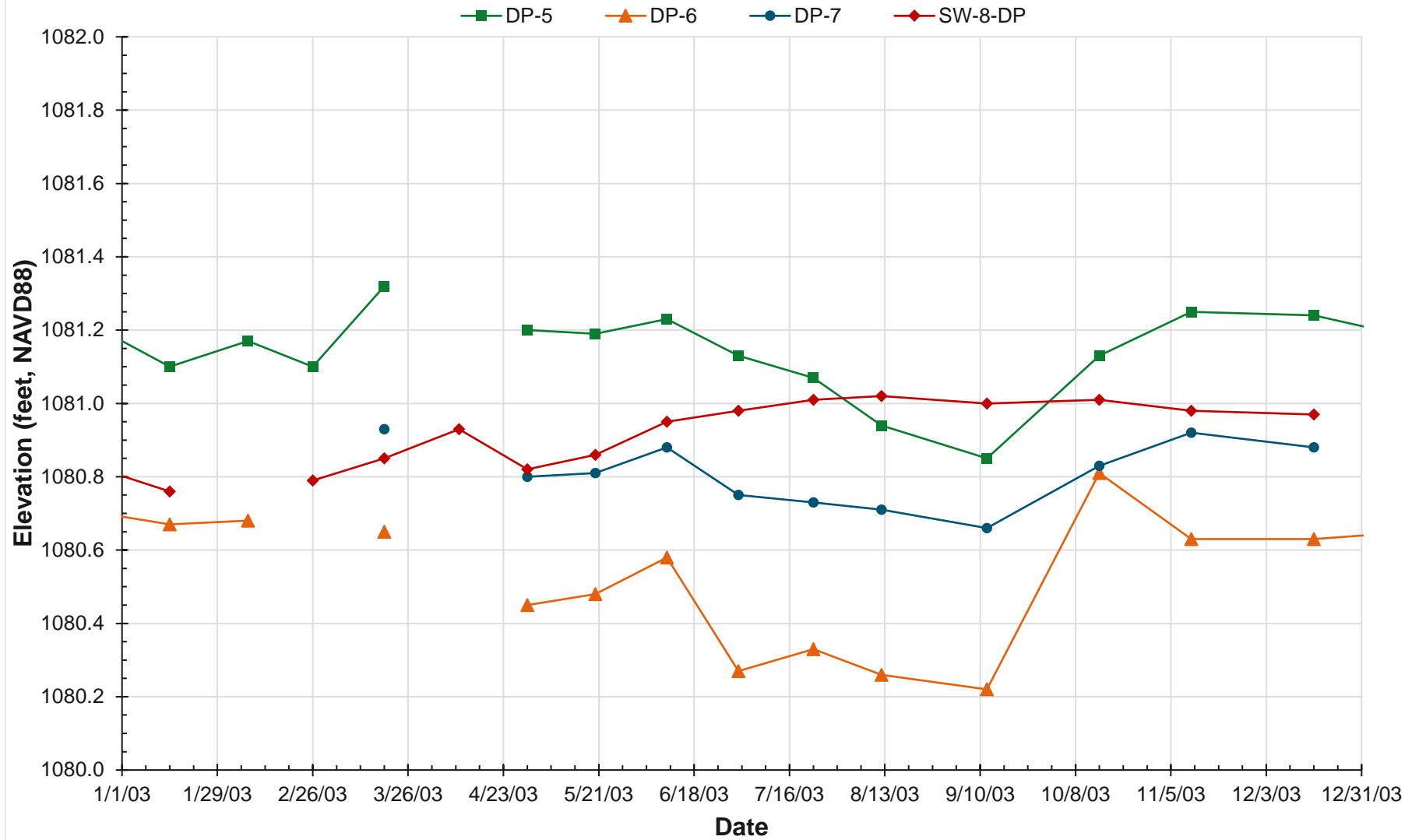


Figure 3-27. 2004 time series plot of water levels in monitoring wells DP-5, DP-6, DP-7 and SW-8-DP White Pine Springs, Evert, Michigan.

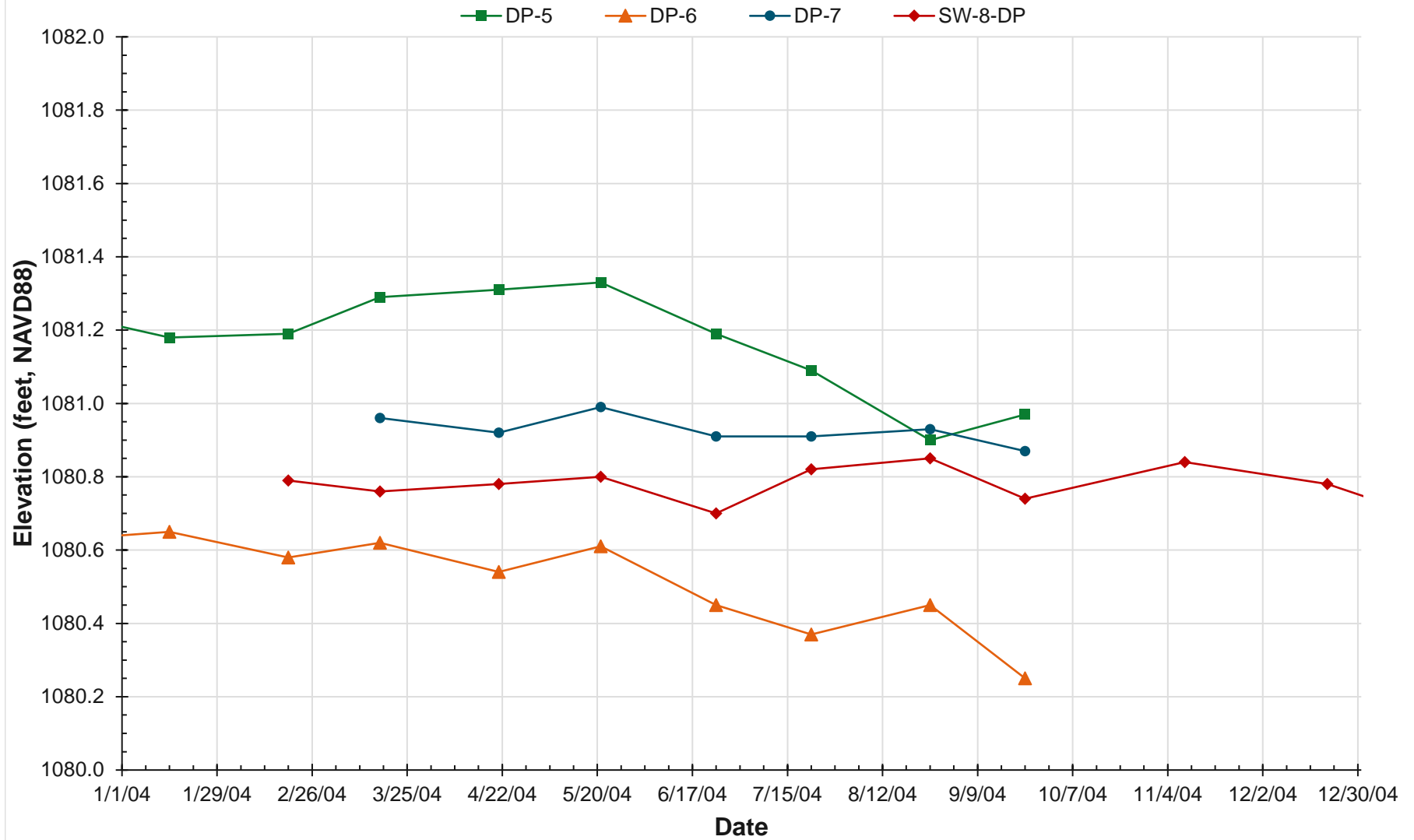


Figure 3-28. 2003 time series plot of water levels in monitoring wells Seep-4, DP-1, DP-2 and DP-3 White Pine Springs, Ewart, Michigan.

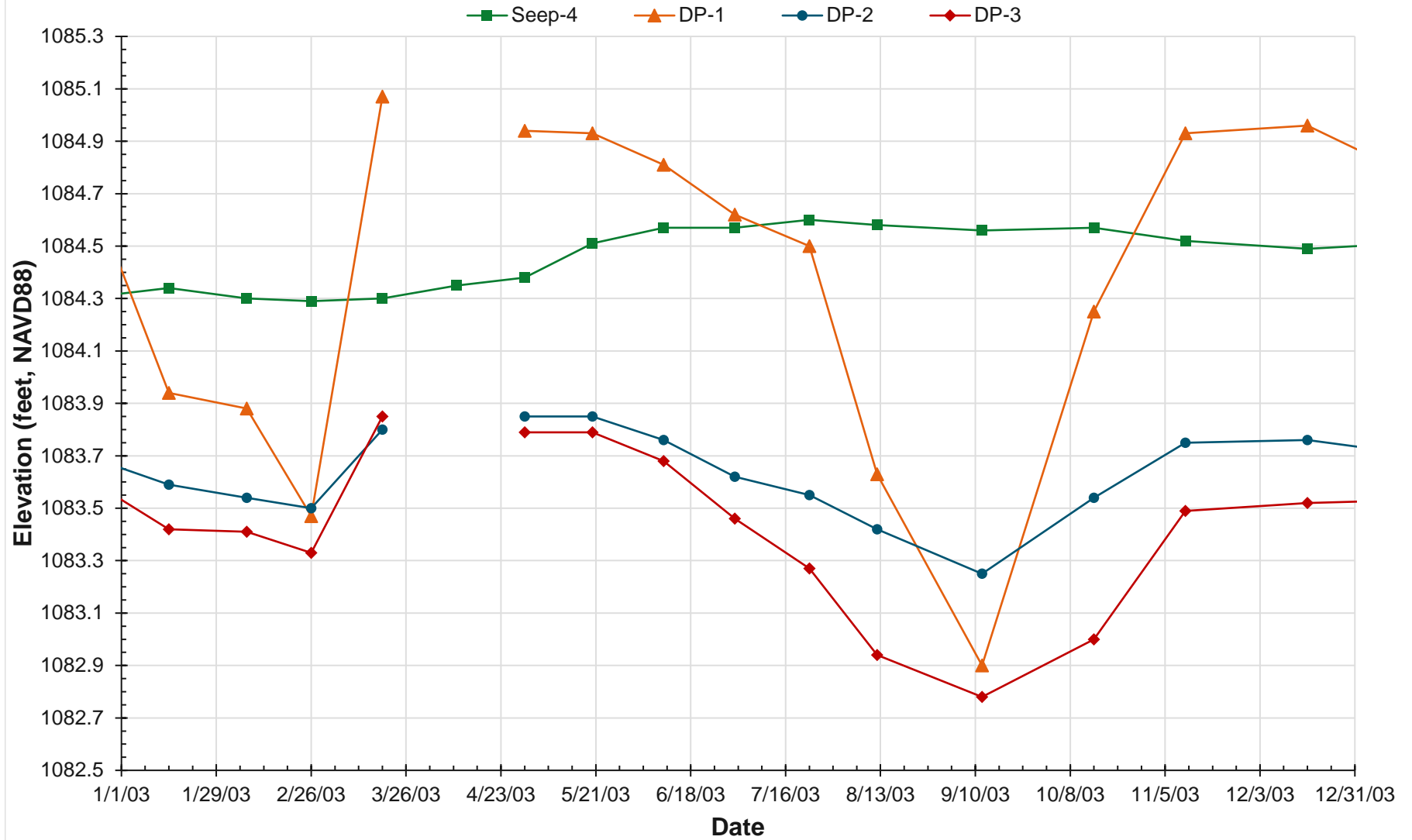


Figure 3-28. 2004 time series plot of water levels in monitoring wells Seep-4, DP-1, DP-2 and DP-3 White Pine Springs, Evert, Michigan.

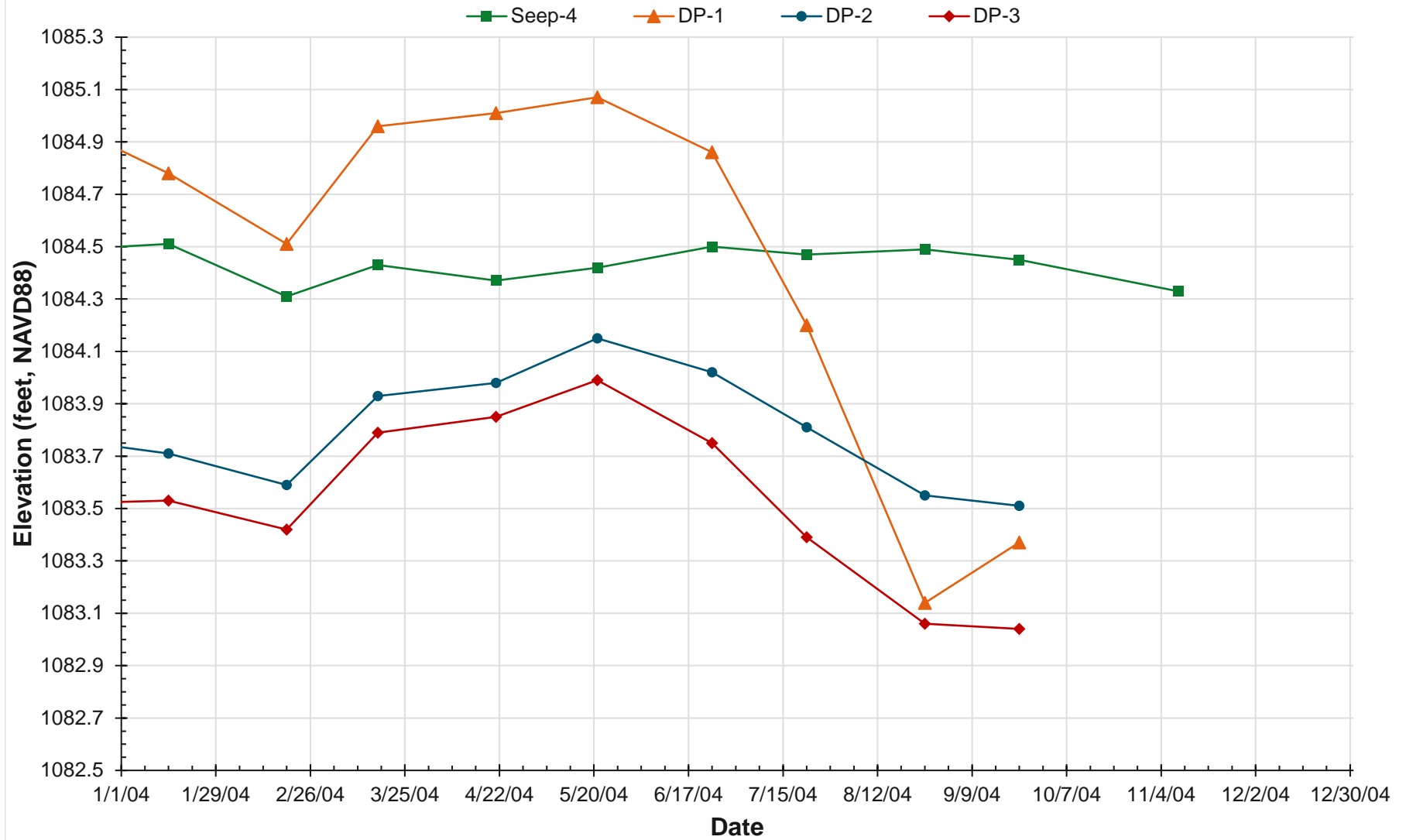


Figure 3-29. 2003 time series plot of water levels in monitoring wells Seep-2, Seep-3 and SW-2-DP White Pine Springs, Ewart, Michigan.

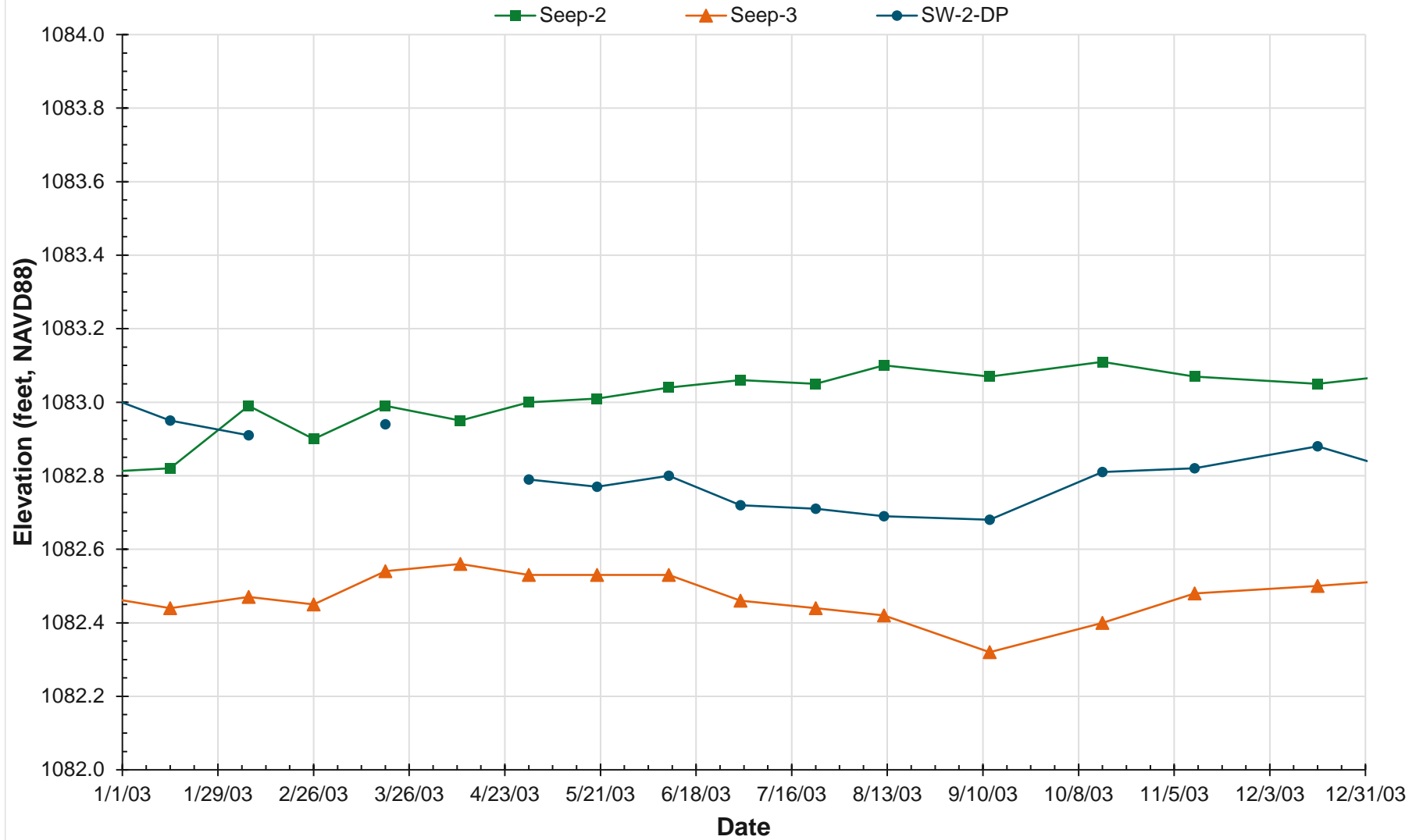


Figure 3-30. 2007 time series plot of water levels in monitoring well SW-1-DP White Pine Springs, Ewart, Michigan.

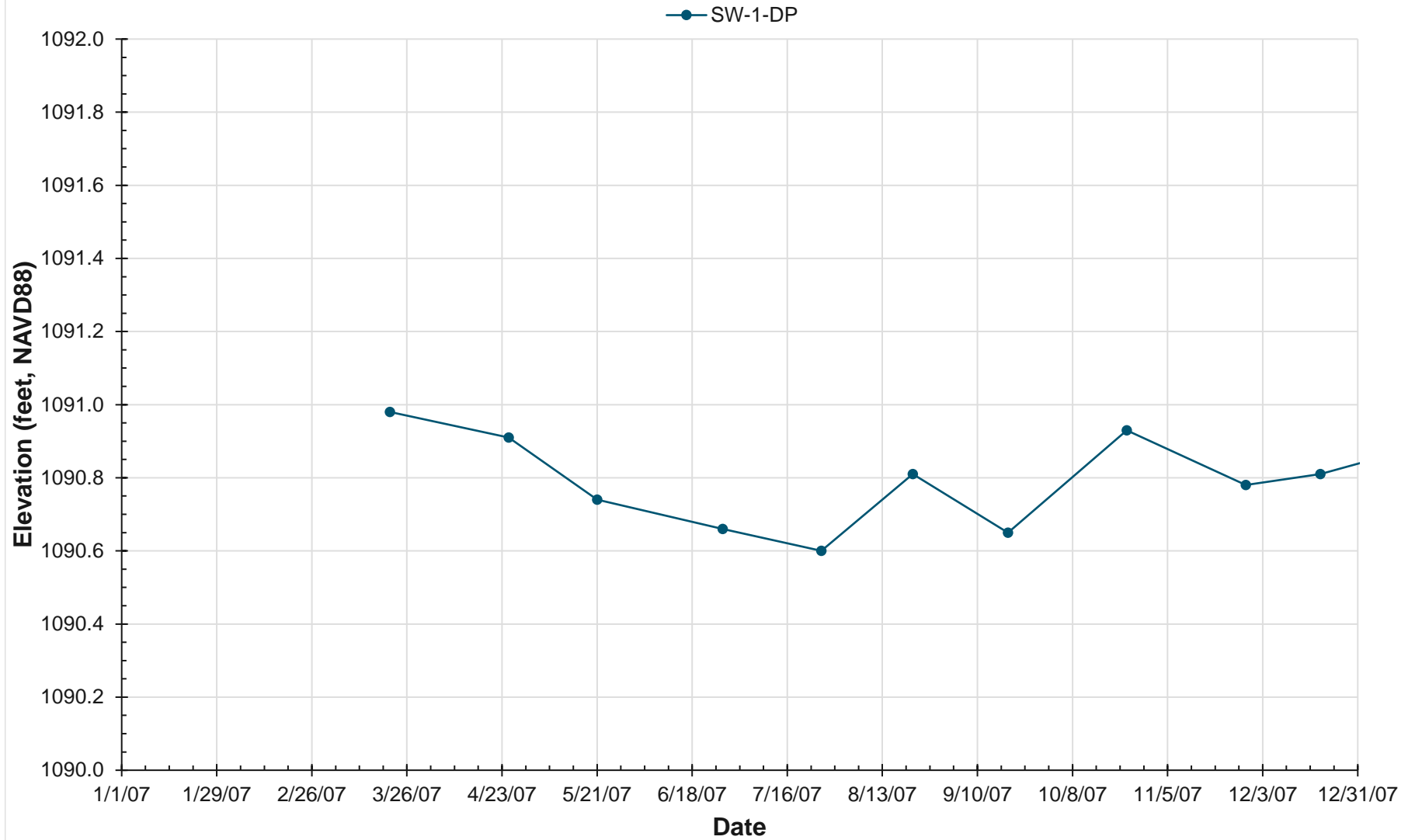


Figure 3-31. 2007 time series plot of water levels in monitoring well SW-11-DP White Pine Springs, Ewart, Michigan.

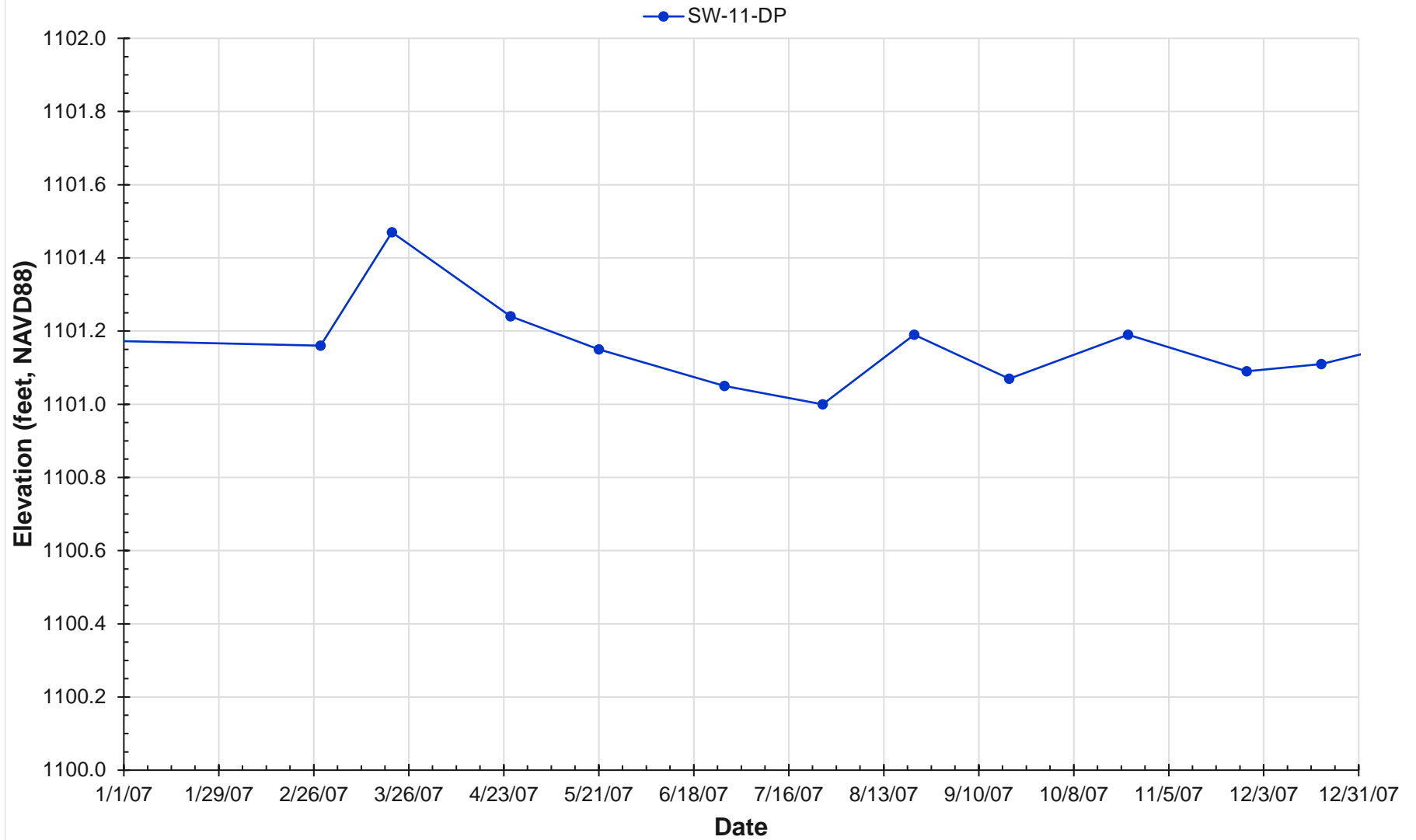


Figure 3-32. 2007 time series plot of water levels in monitoring wells DP-5, SW-8-DP and DP-6
White Pine Springs, Evert, Michigan.

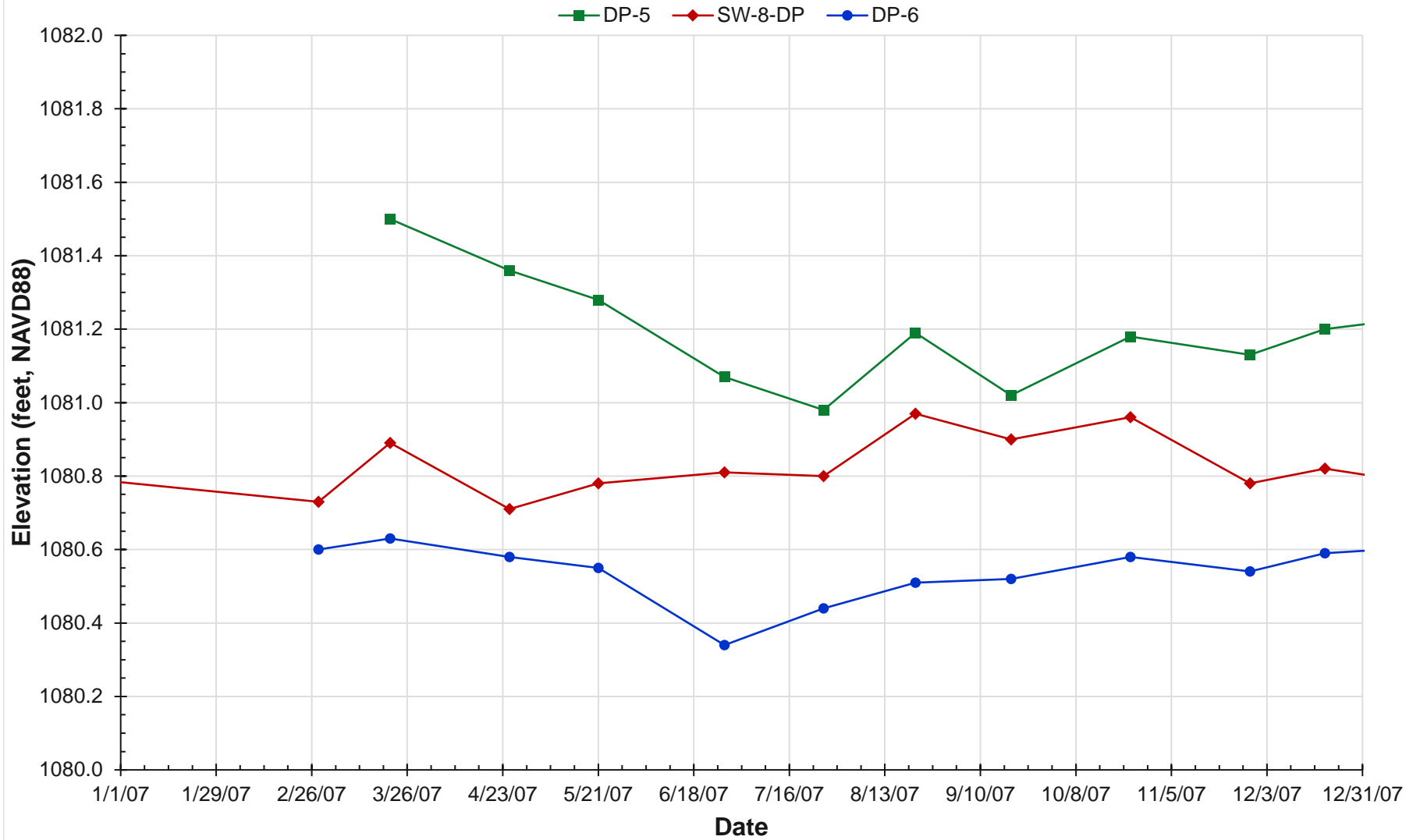


Figure 3-33. 2007 time series plot of water levels in monitoring wells Seep-4 and DP-3 White Pine Springs, Ewart, Michigan.

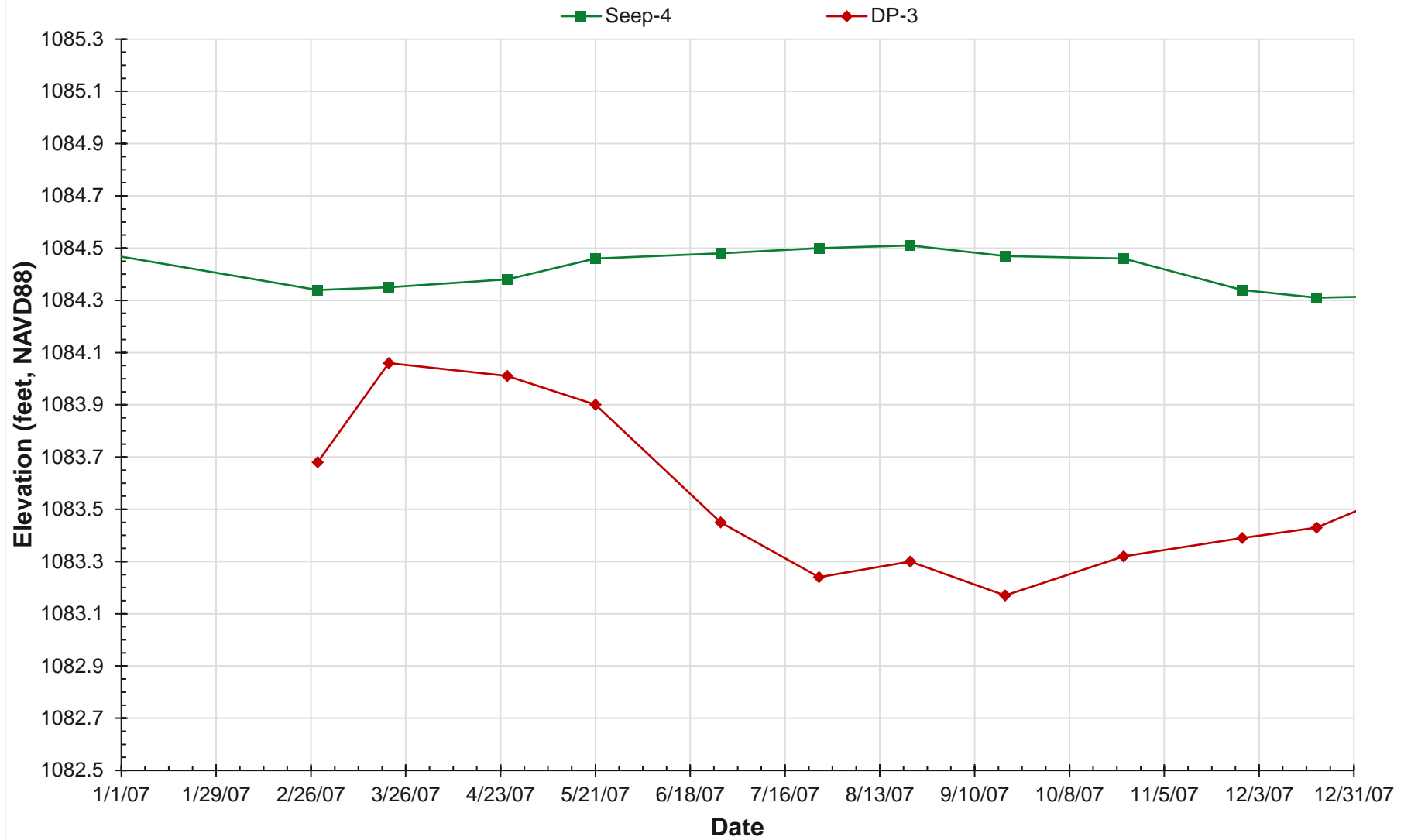


Figure 3-34. 2007 time series plot of water levels in monitoring wells Seep-2 and Seep-3 White Pine Springs, Evert, Michigan.

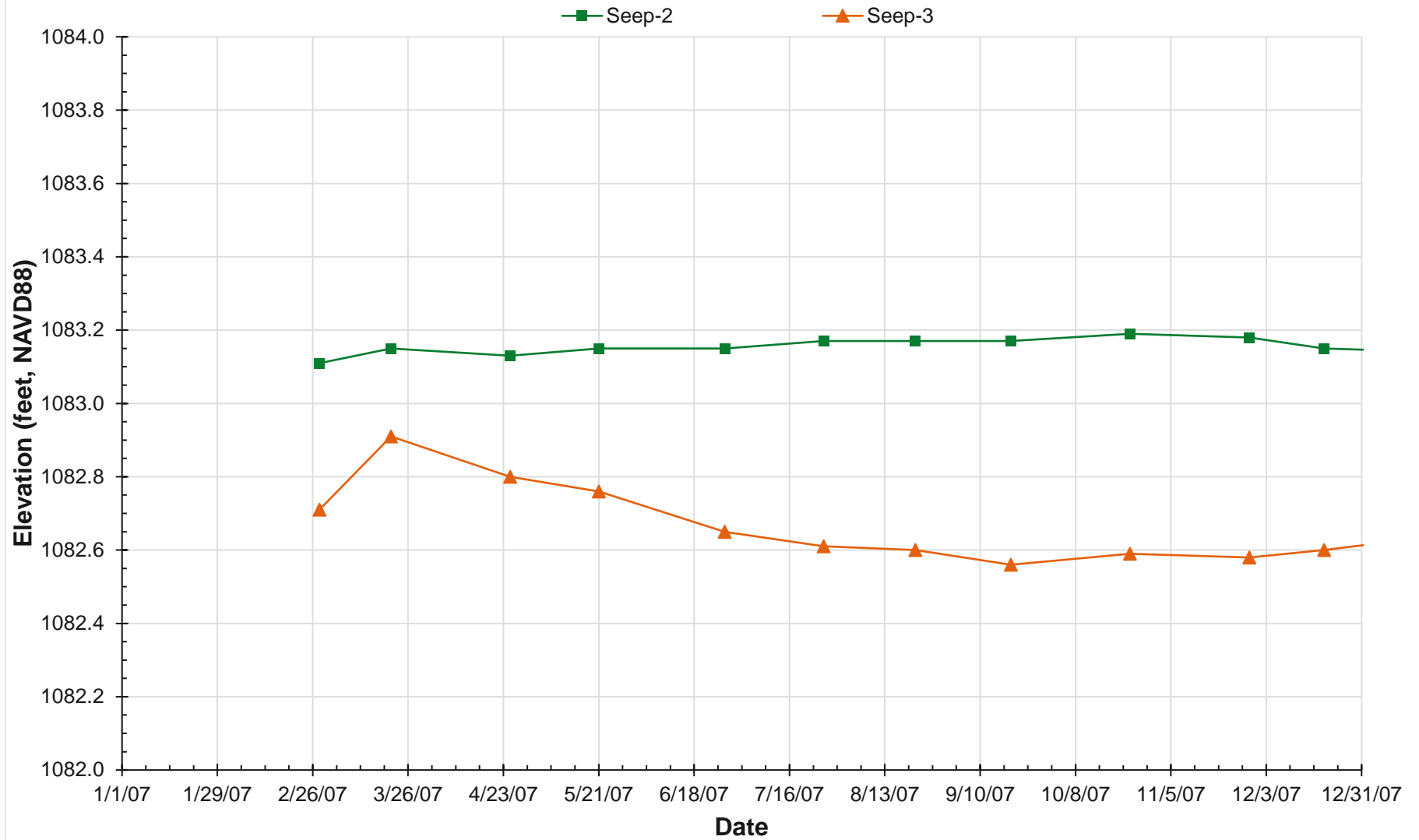


Figure 3-35. 2008 time series plot of water levels in monitoring well SW-1-DP White Pine Springs, Ewart, Michigan.

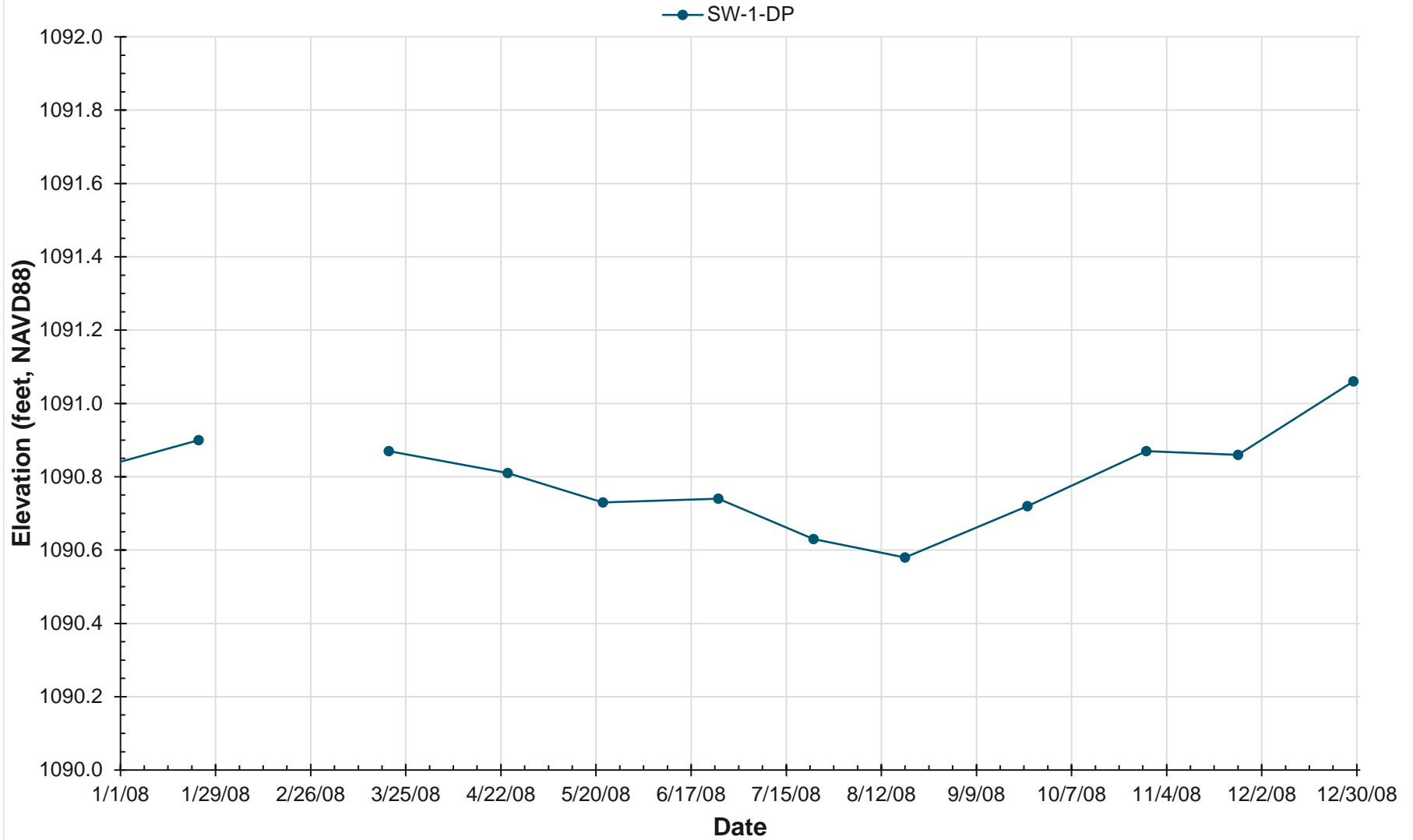


Figure 3-36. 2008 time series plot of water levels in monitoring well SW-11-DP White Pine Springs, Ewart, Michigan.

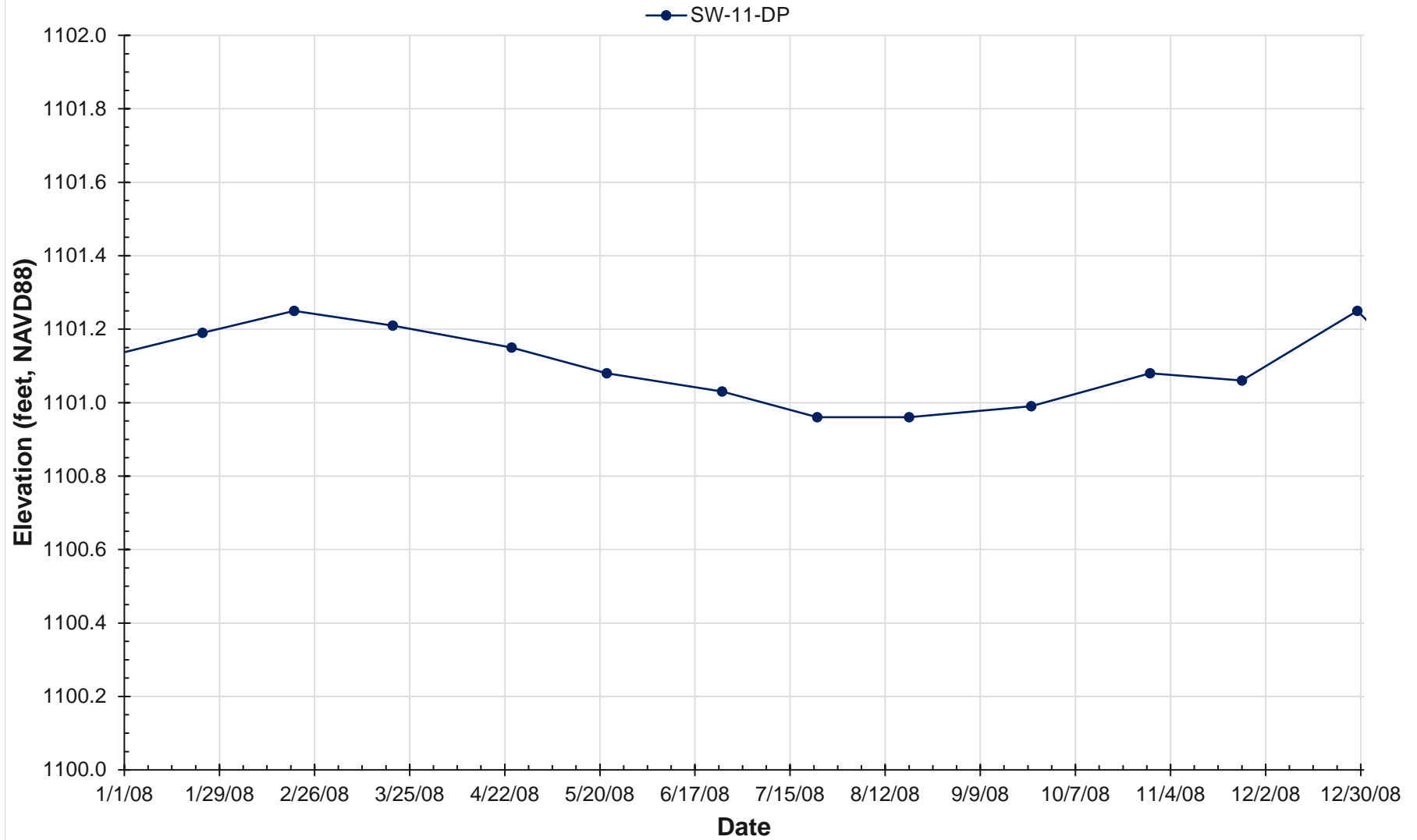


Figure 3-37. 2008 time series plot of water levels in monitoring wells DP-5, SW-8-DP and DP-6
White Pine Springs, Evert, Michigan.

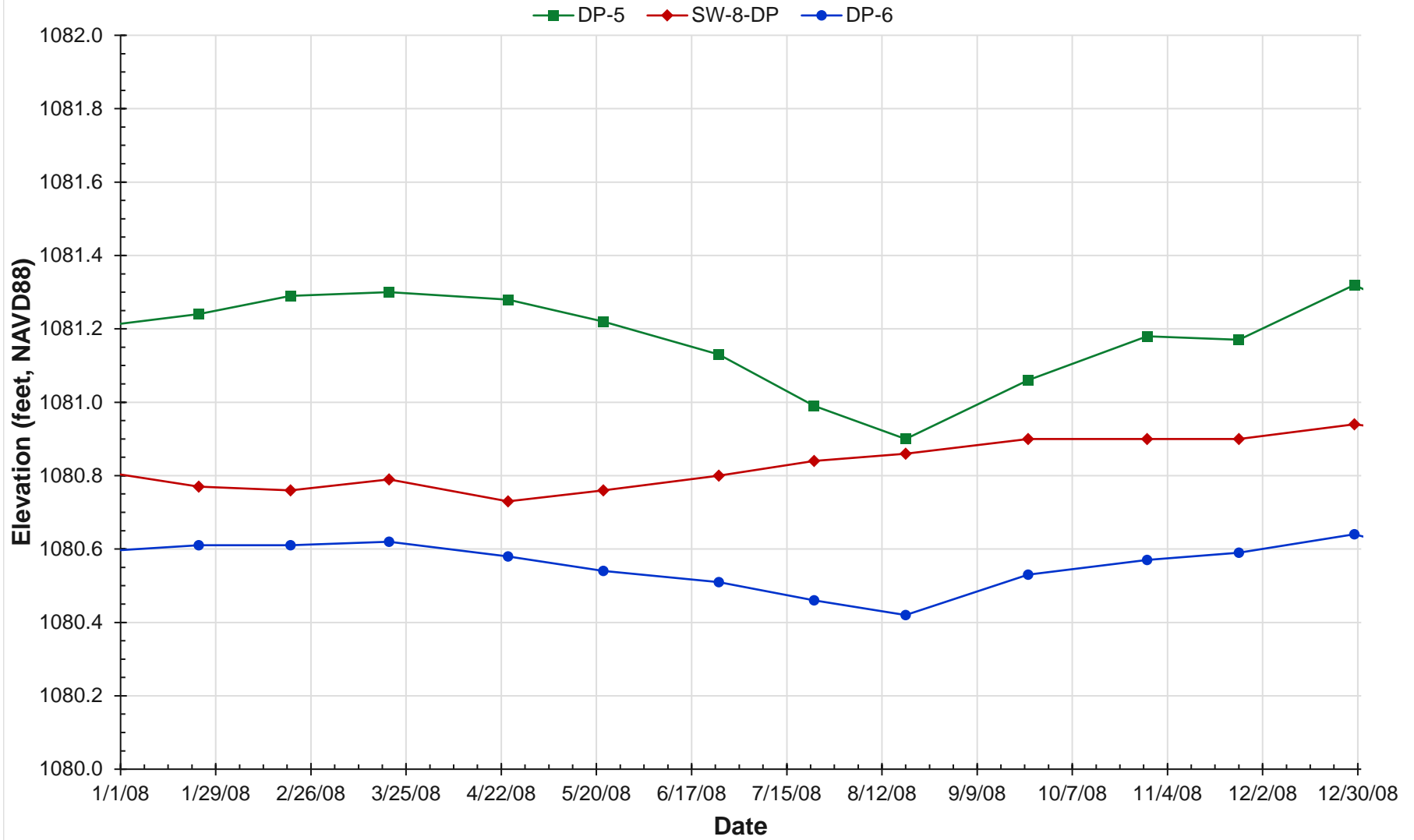


Figure 3-38. 2008 time series plot of water levels in monitoring wells Seep-4 and DP-3 White Pine Springs, Ewart, Michigan.

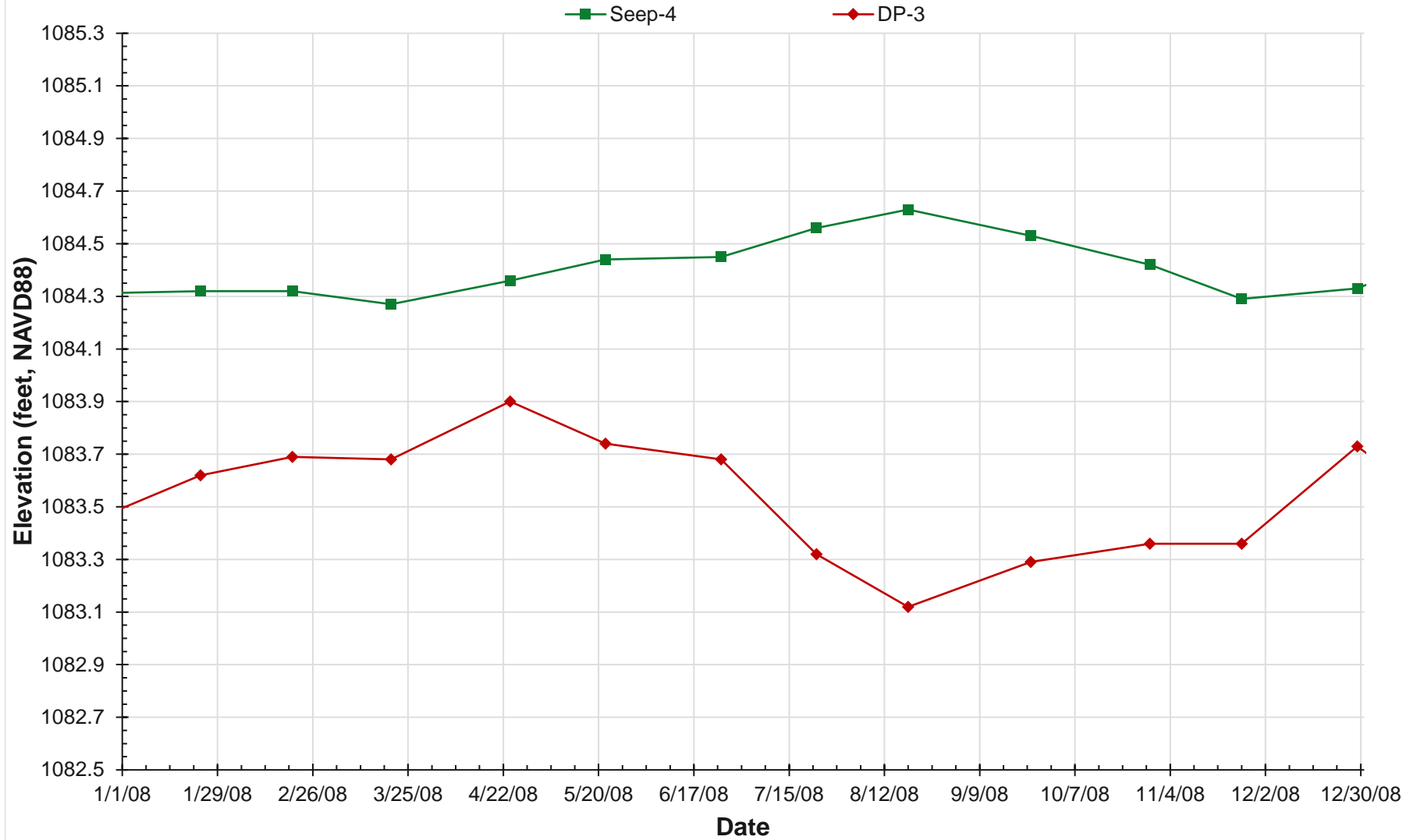


Figure 3-39. 2008 time series plot of water levels in monitoring wells Seep-2 and Seep-3 White Pine Springs, Ewart, Michigan.

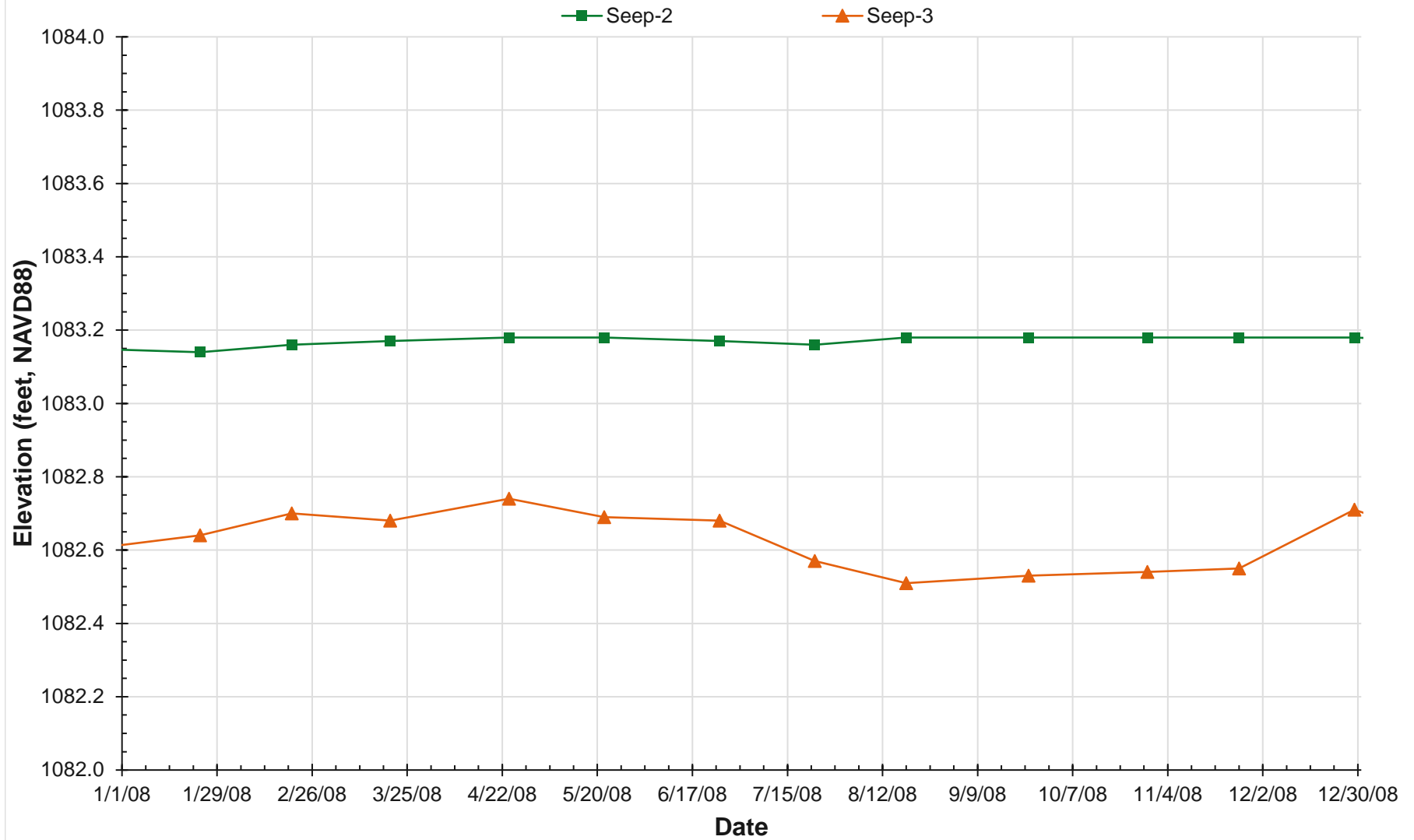


Figure 3-40. 2009 time series plot of water levels in monitoring well SW-1-DP White Pine Springs, Ewart, Michigan.

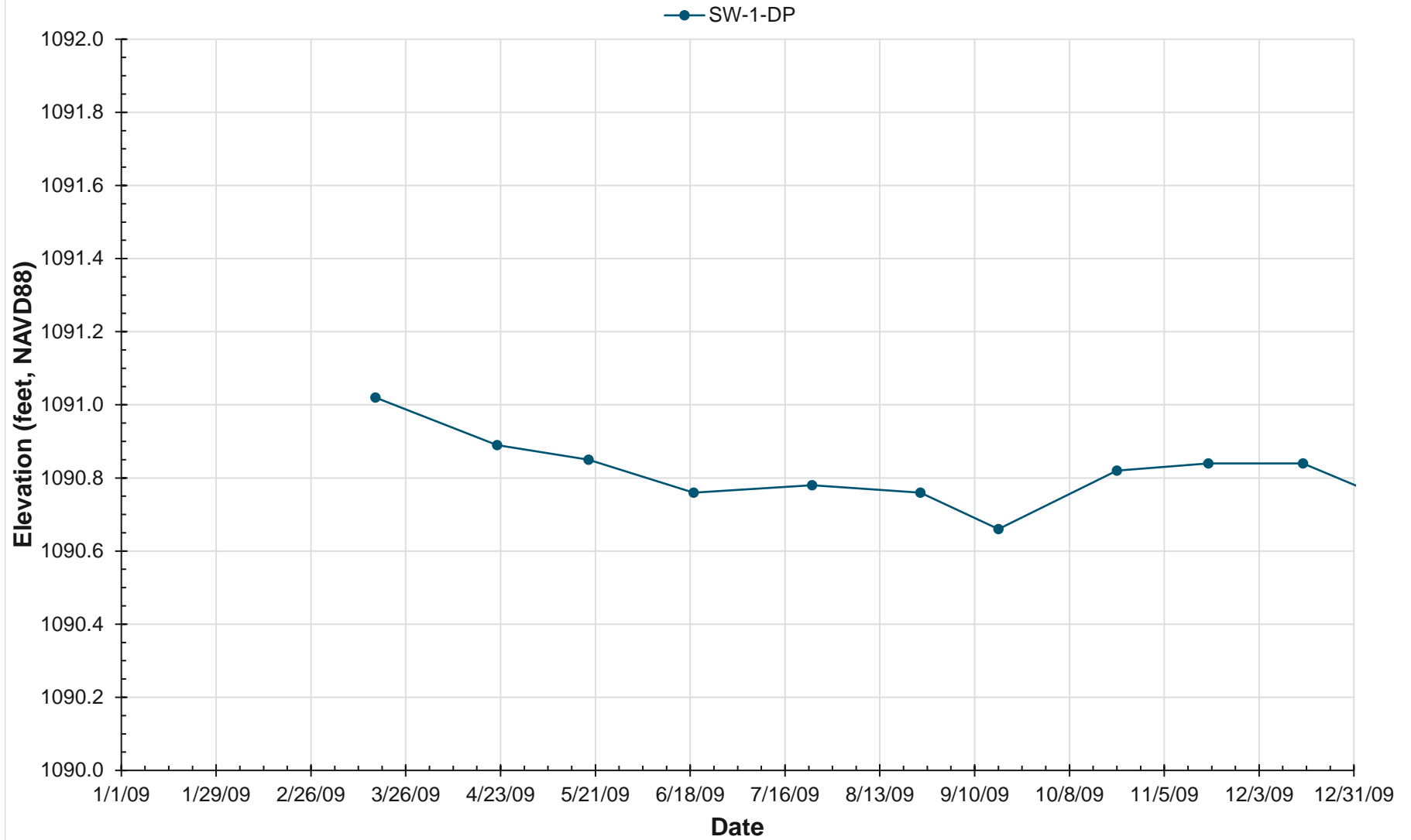


Figure 3-41. 2009 time series plot of water levels in monitoring well SW-11-DP White Pine Springs, Ewart, Michigan.

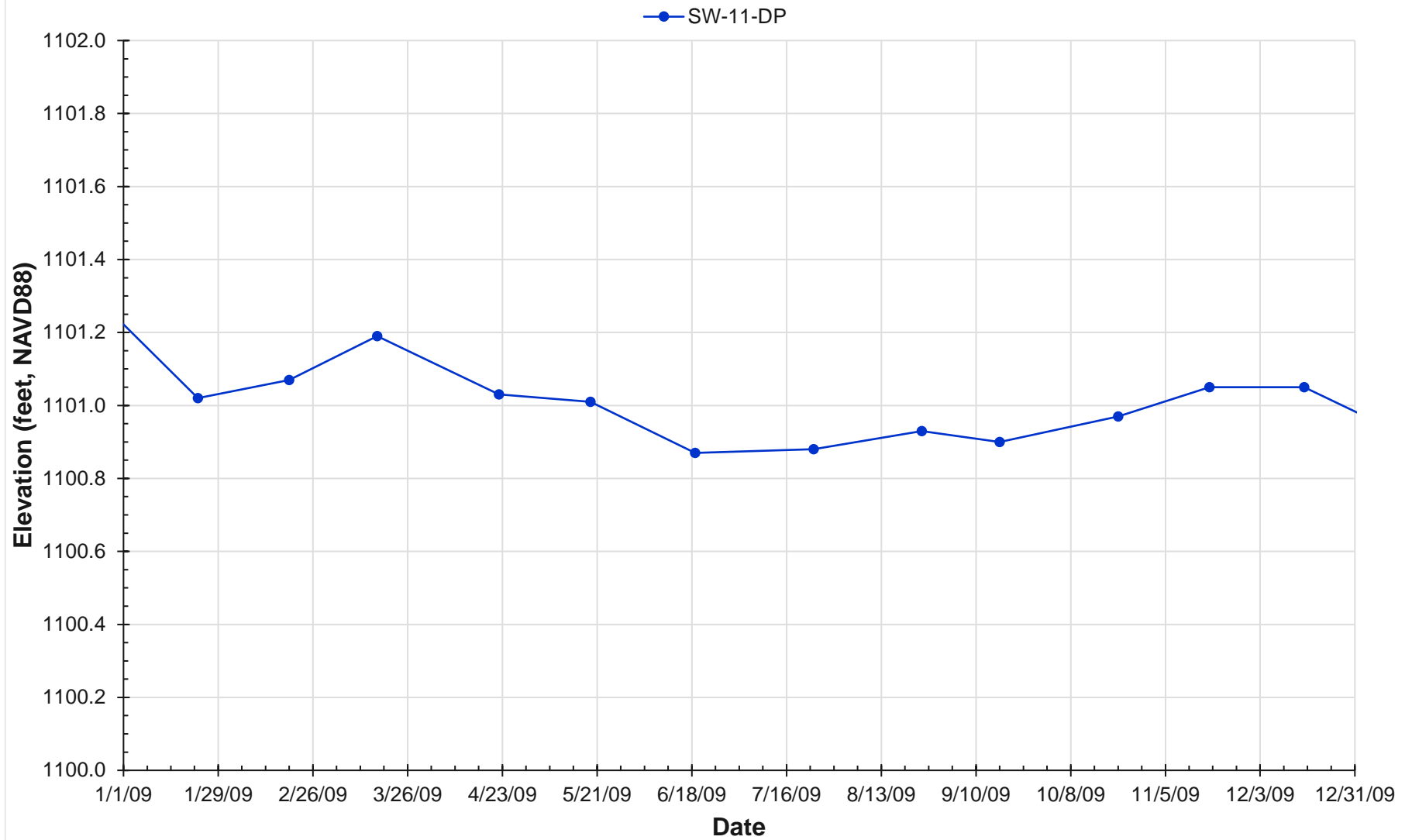


Figure 3-42. 2009 time series plot of water levels in monitoring wells DP-5 and SW-8-DP White Pine Springs, Evert, Michigan.

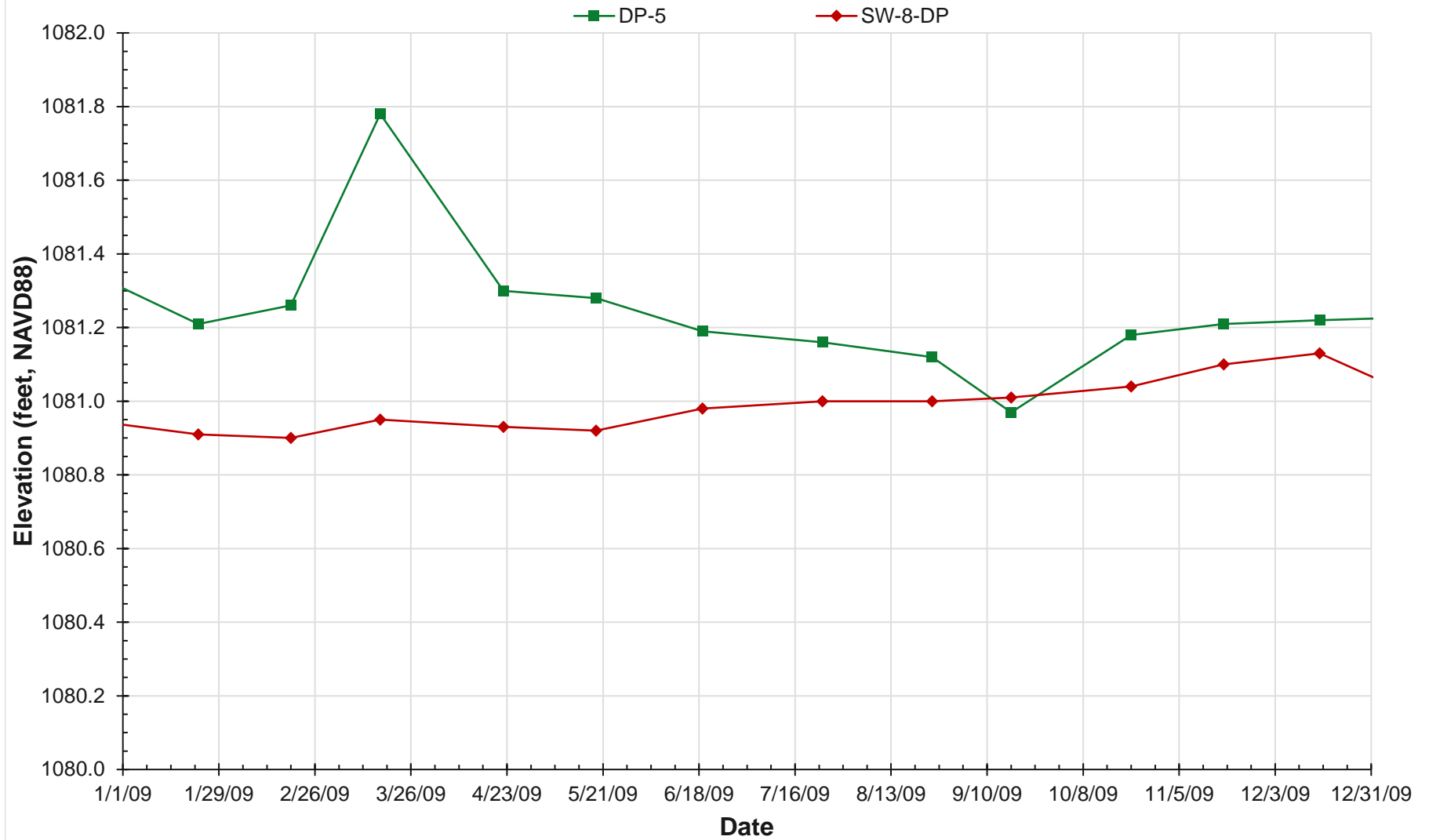


Figure 3-43. 2009 time series plot of water levels in monitoring wells Seep-4 and DP-3 White Pine Springs, Ewart, Michigan.

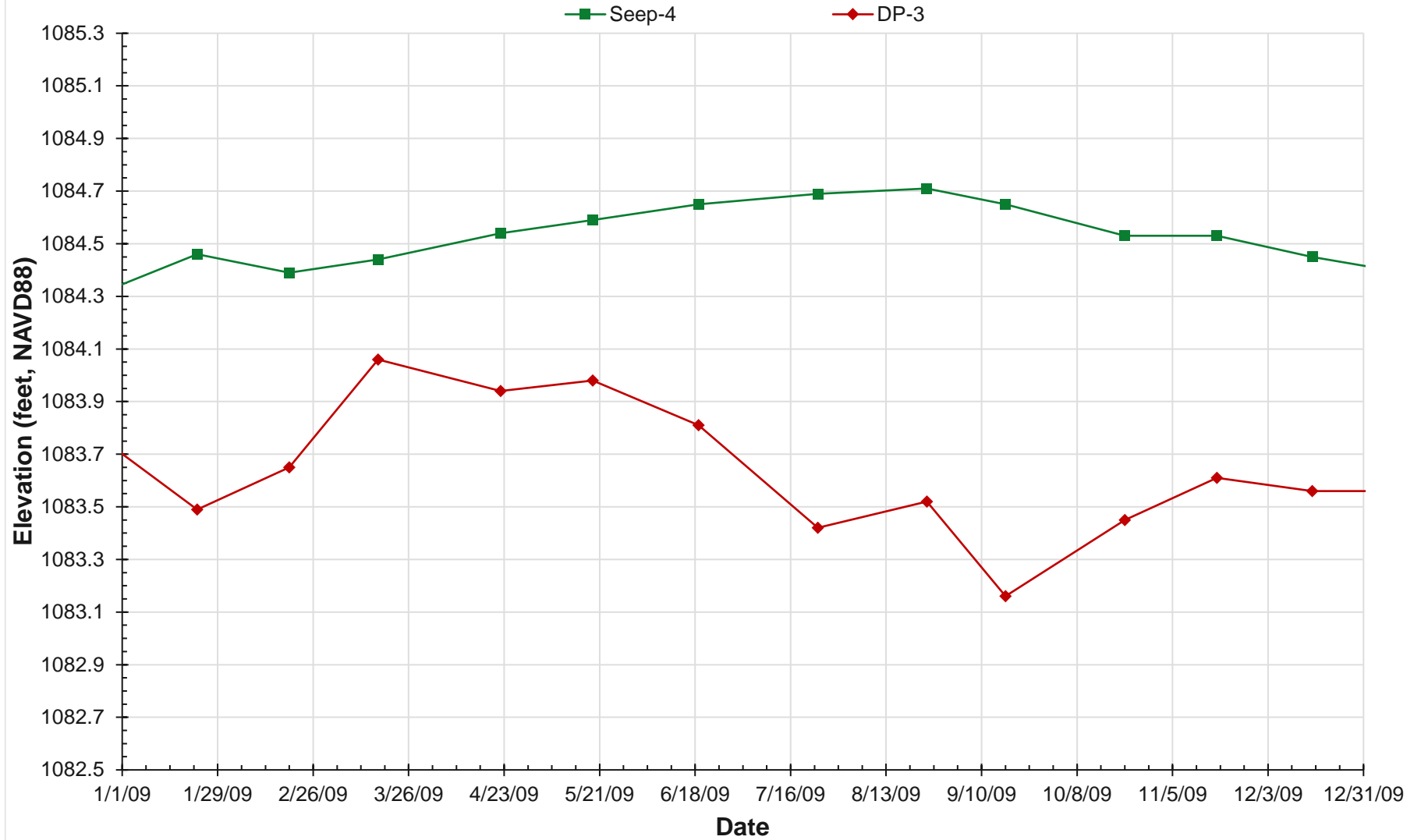


Figure 3-44. 2009 time series plot of water levels in monitoring wells Seep-2 and Seep-3 White Pine Springs, Ewart, Michigan.

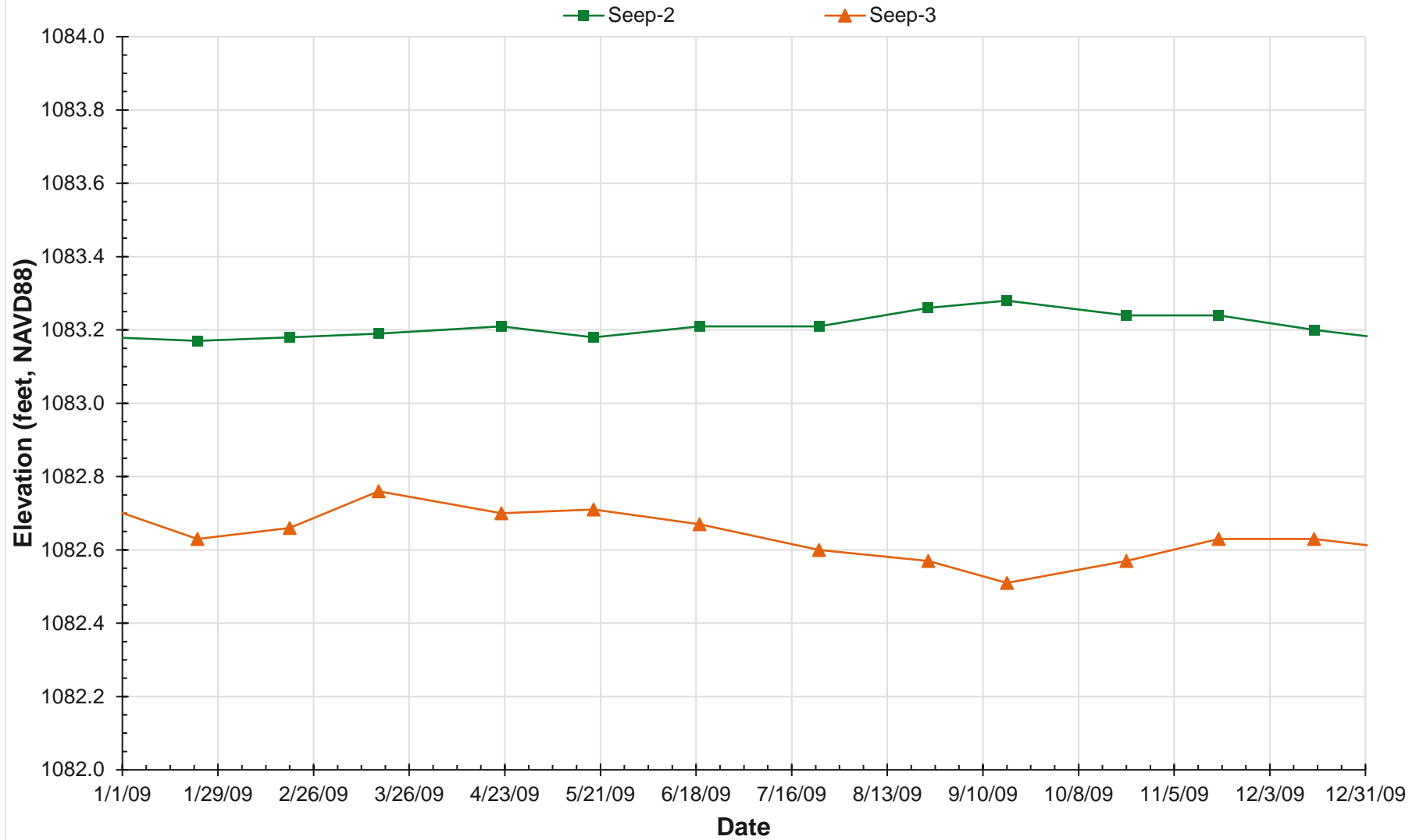


Figure 3-45. Mean monthly water levels in monitoring wells Vent-1r and SW-1-DP (Wetland R) and Seep-5 (Wetland A), White Pine Springs, Evert, Michigan.

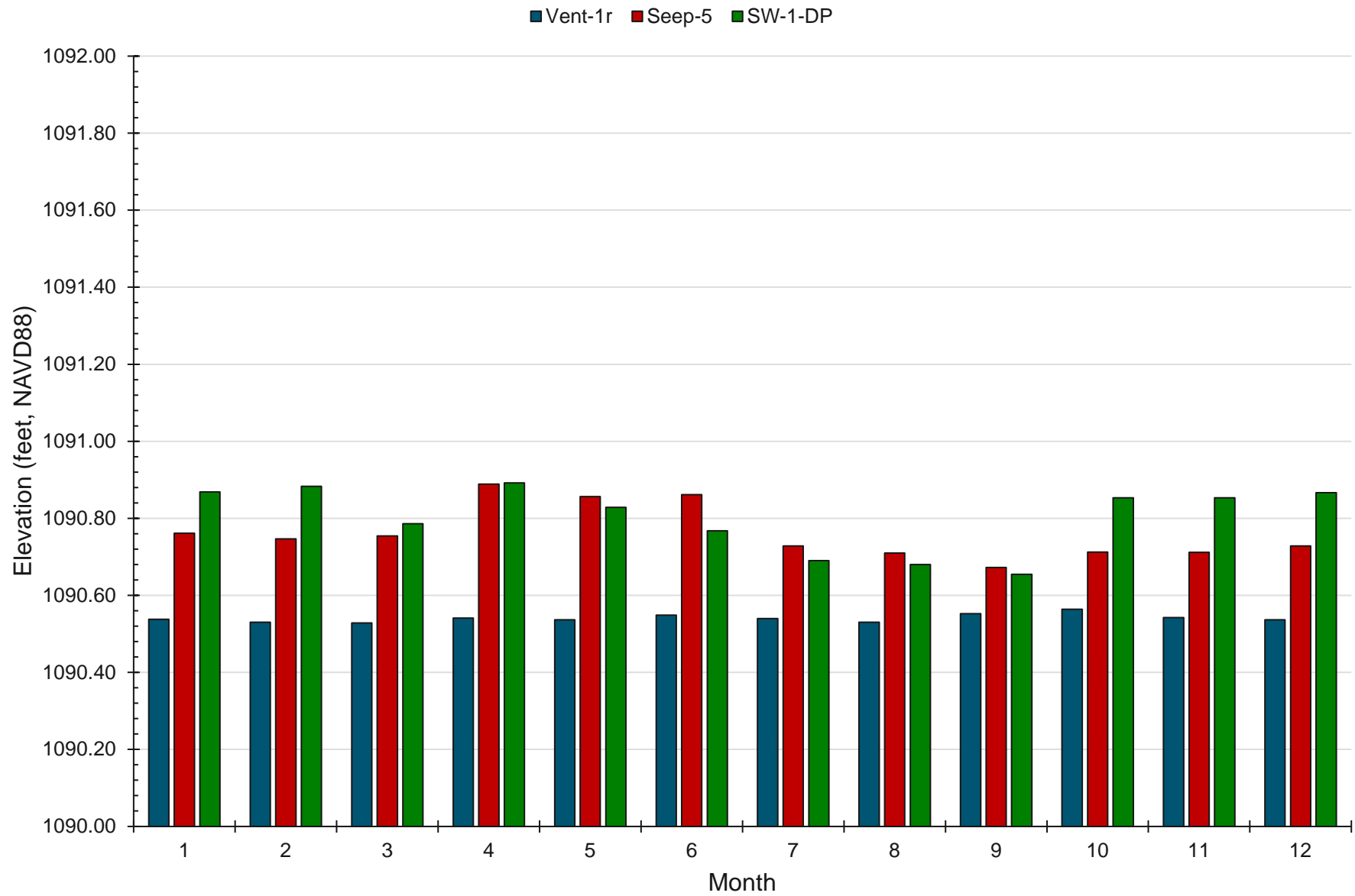


Figure 3-46. Mean monthly water levels in monitoring well Seep-6 (Wetland R), White Pine Springs, Ewart, Michigan.

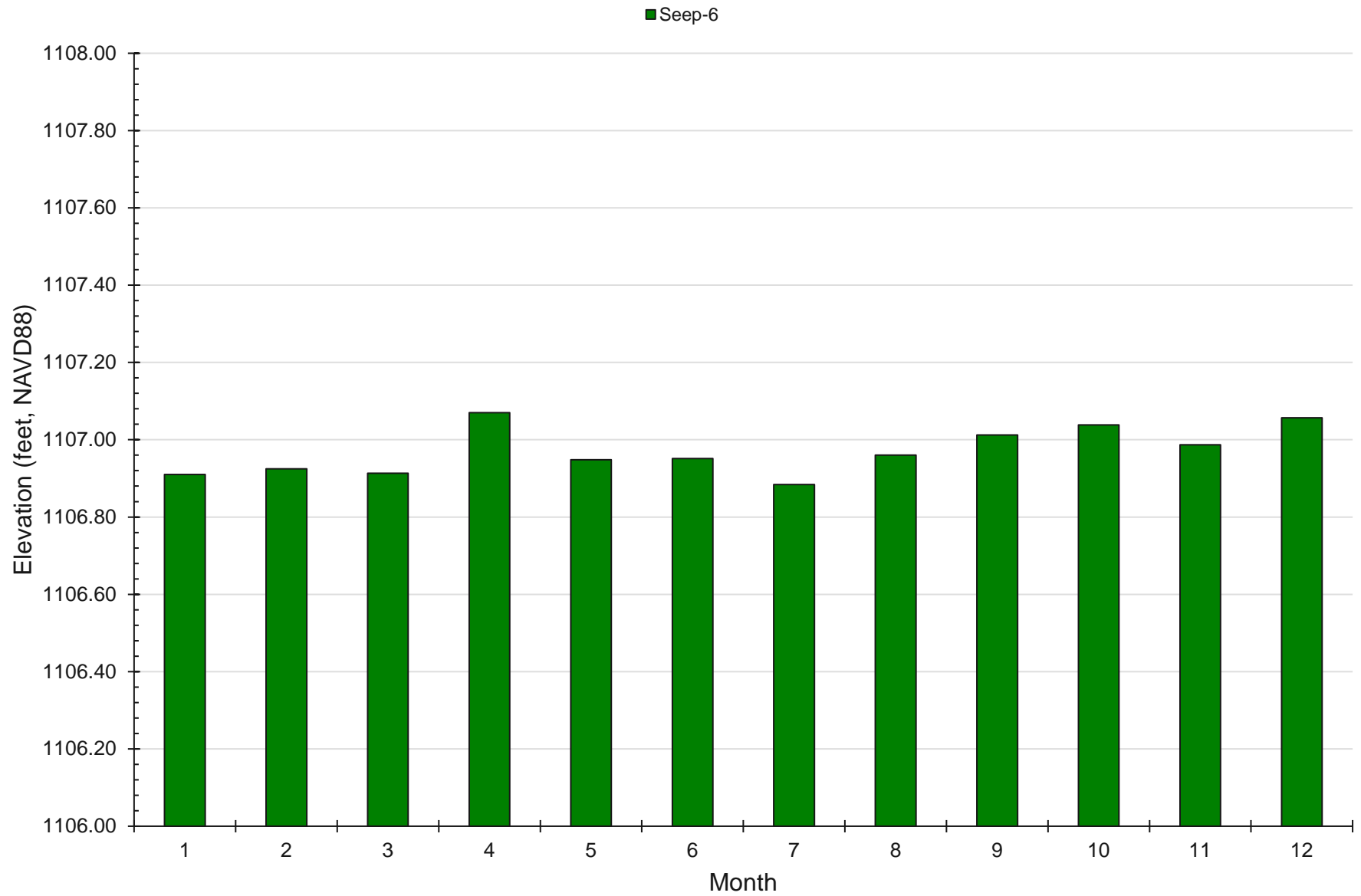


Figure 3-47. Mean monthly water levels in monitoring well SW-3-DP (Wetland R), White Pine Springs, Ewart, Michigan.

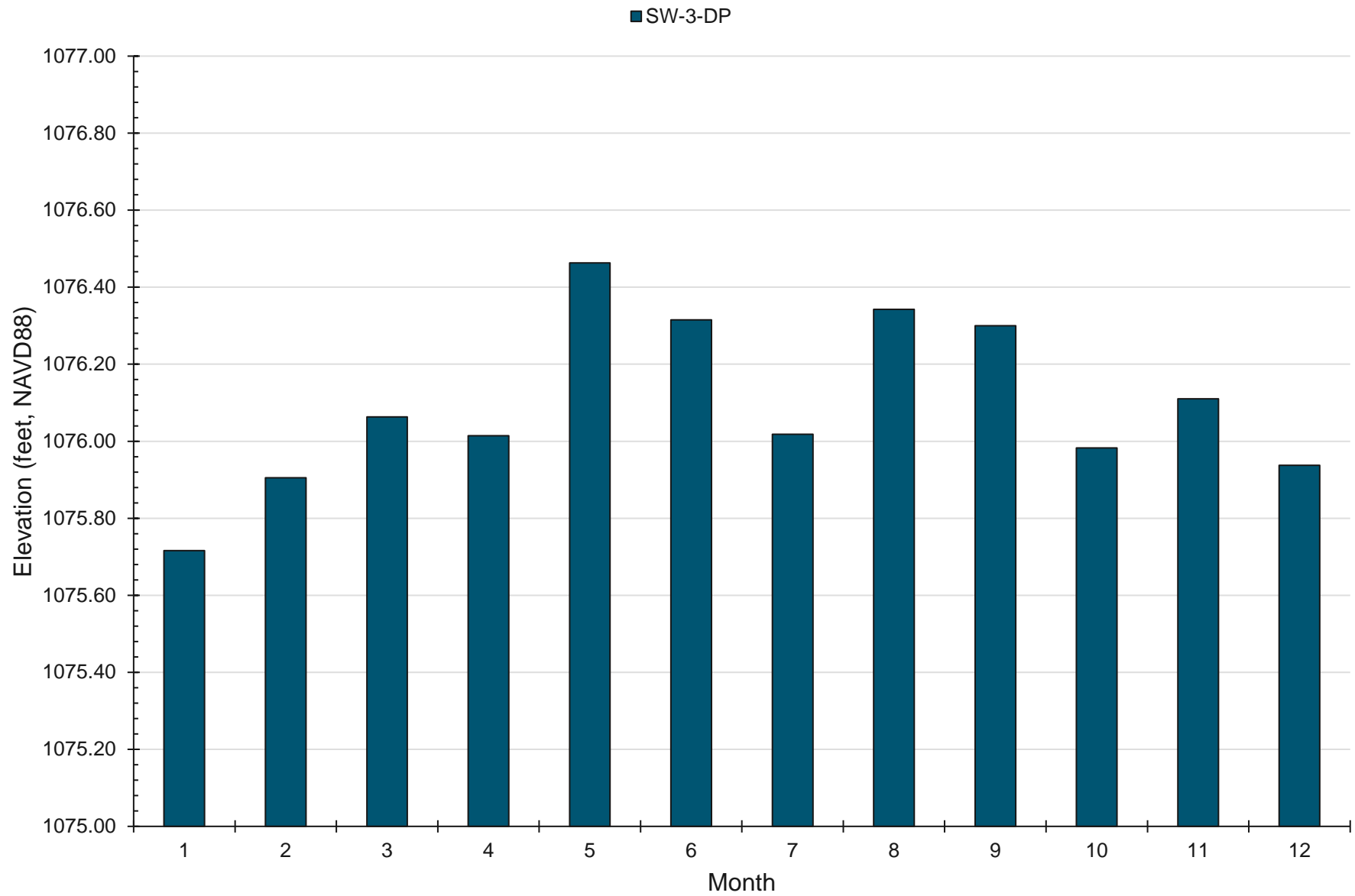


Figure 3-48. Mean monthly water levels in monitoring well DP-8 (Wetland R), White Pine Springs, Evart, Michigan.

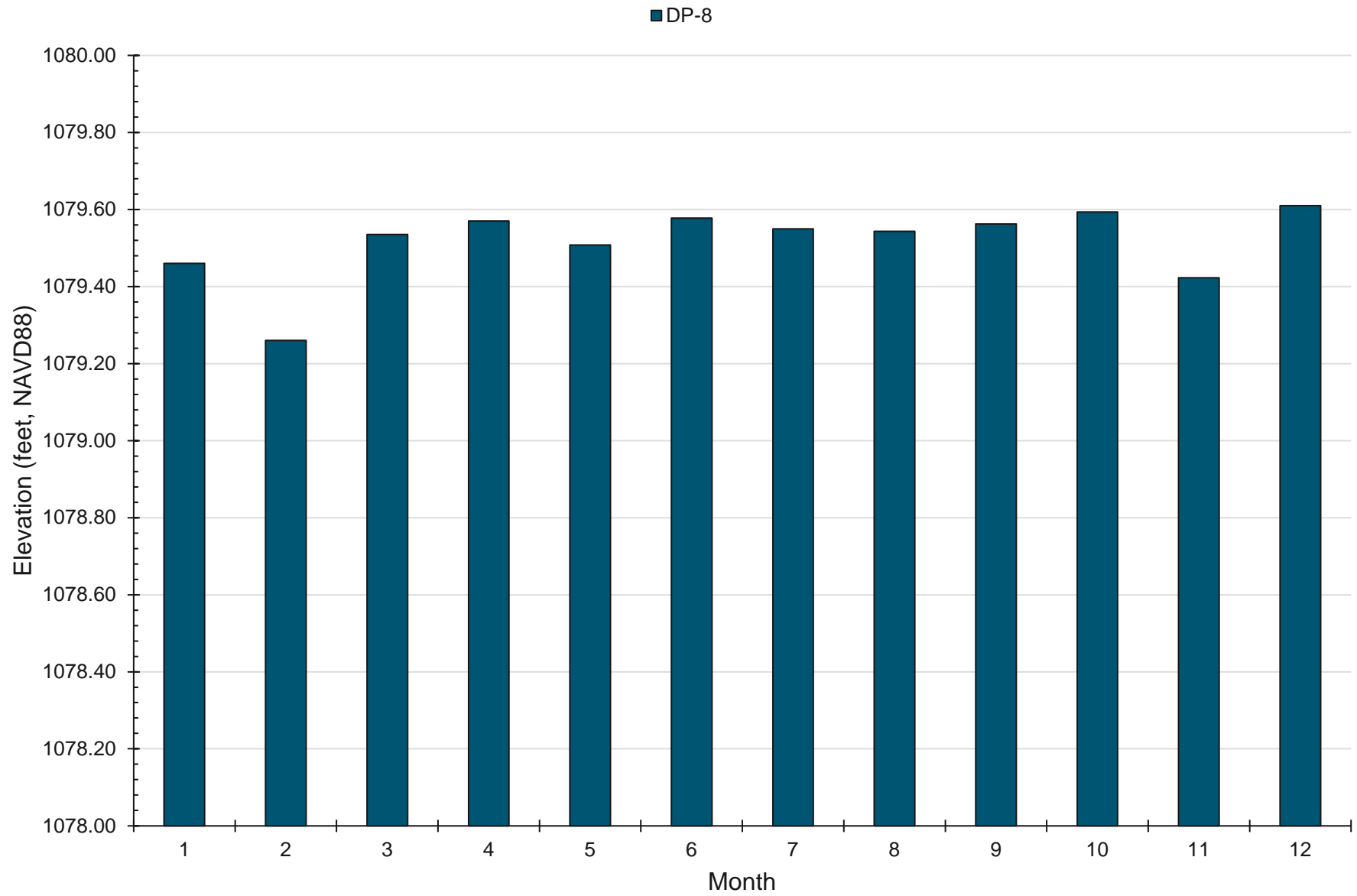


Figure 3-49. Mean monthly water levels in monitoring wells SW-8-DP (Wetland A) and DP-5, DP-6, and DP-7 (Wetland R), White Pine Springs, Evert, Michigan.

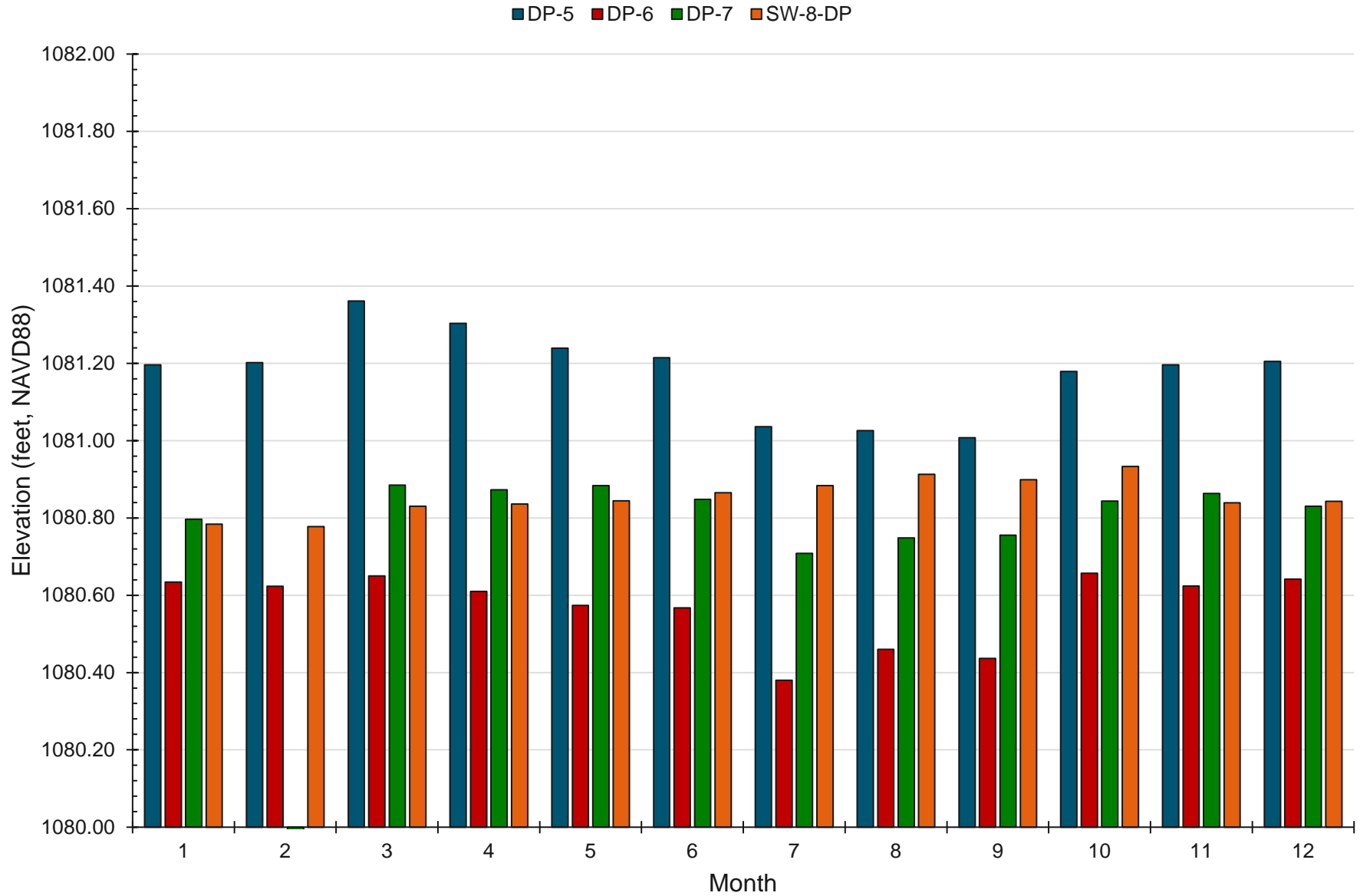


Figure 3-50. Mean monthly water levels in monitoring wells Seep-4 (Wetland R) and DP-1, DP-2, and DP-3 (Wetland G), White Pine Springs, Evart, Michigan.

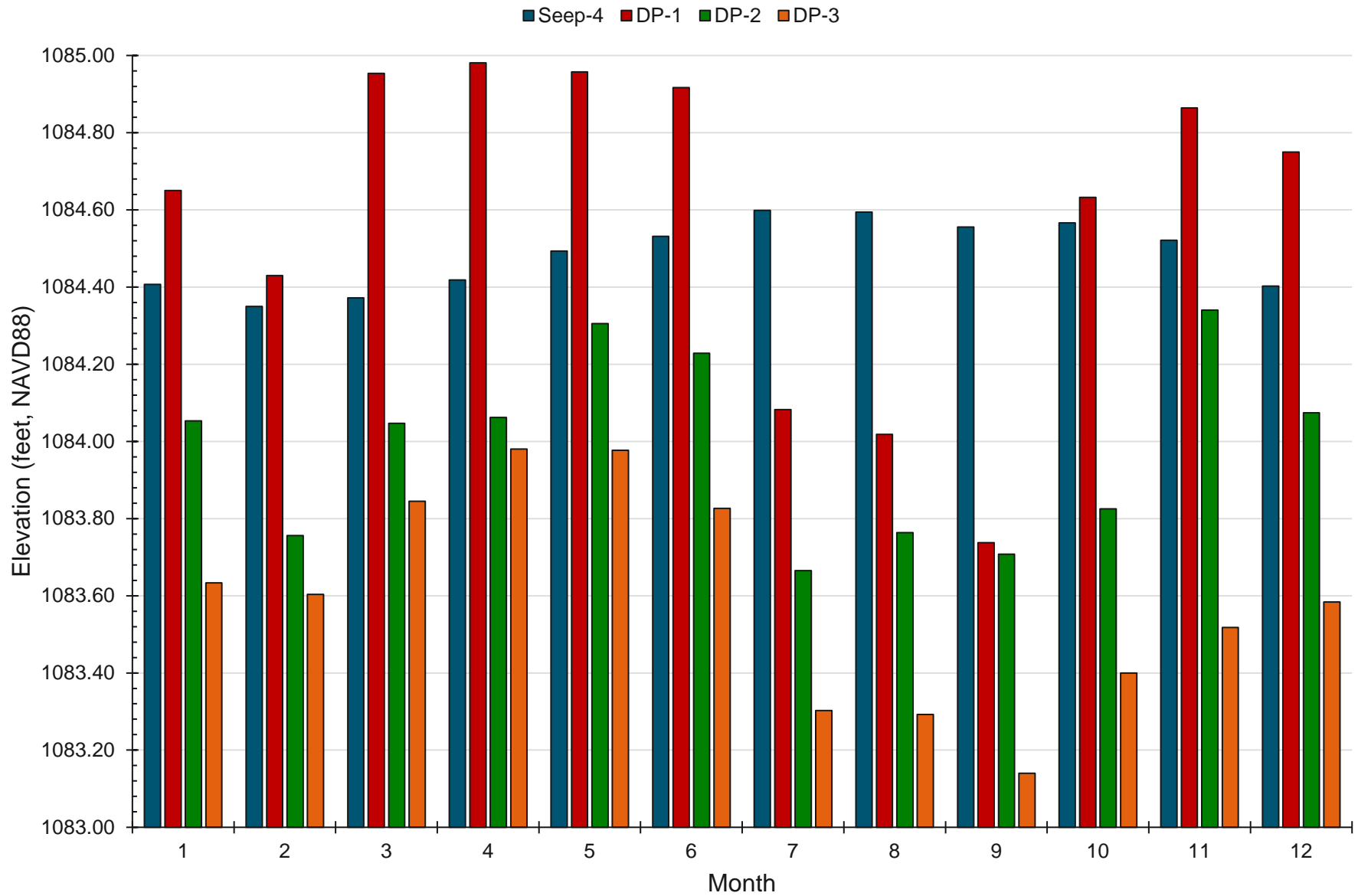


Figure 3-51. Mean monthly water levels in monitoring wells SW-2-DP, Seep-2, and Seep-3 (Wetland R), White Pine Springs, Ewart, Michigan.

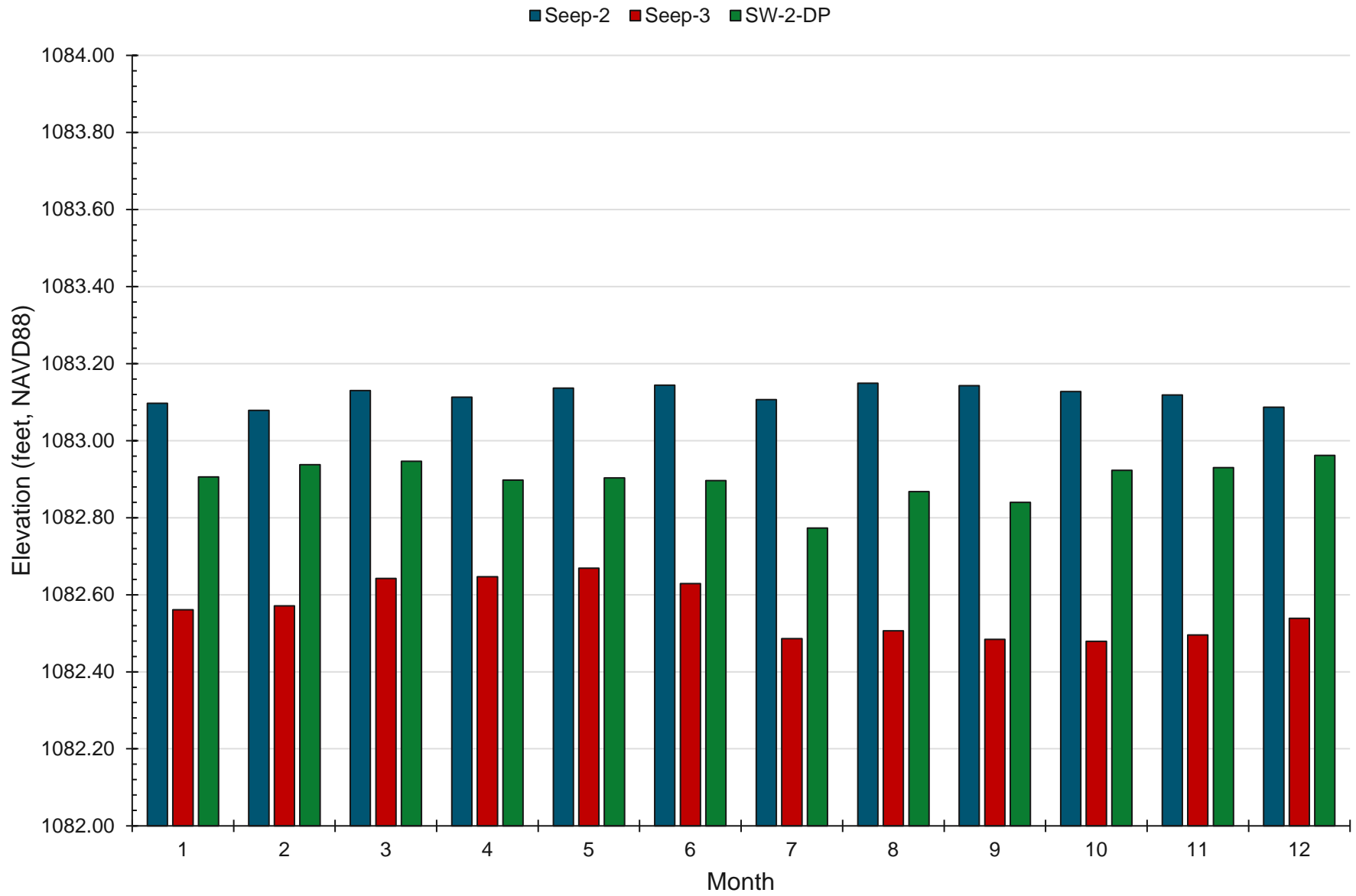


Figure 3-52. Mean monthly water levels in monitoring well SW-11-DP (Wetland R) White Pine Springs, Ewart, Michigan.

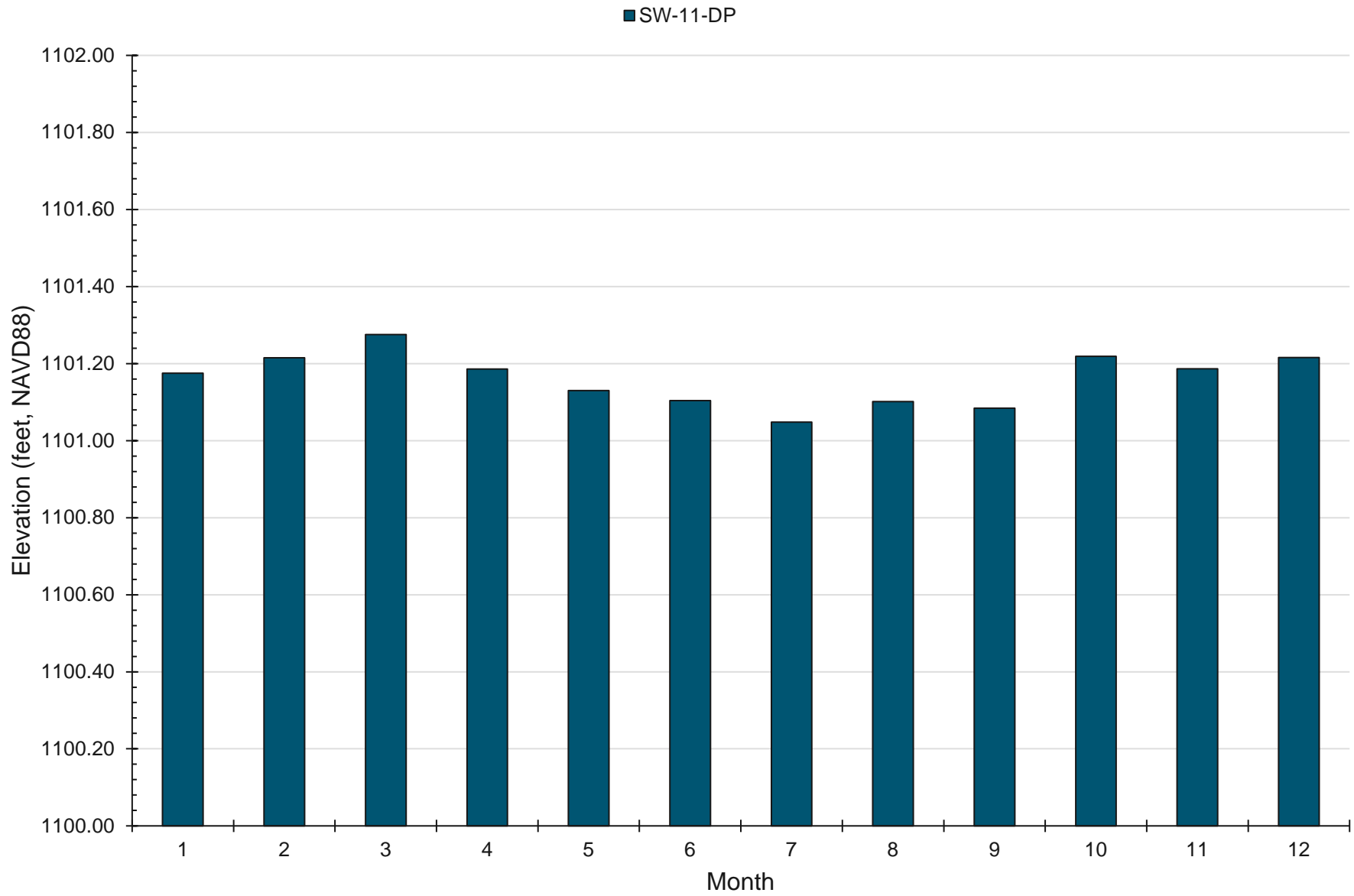


Figure 3-53. Mean monthly water levels in monitoring well Seep-1 (Wetland R) White Pine Springs, Ewart, Michigan.

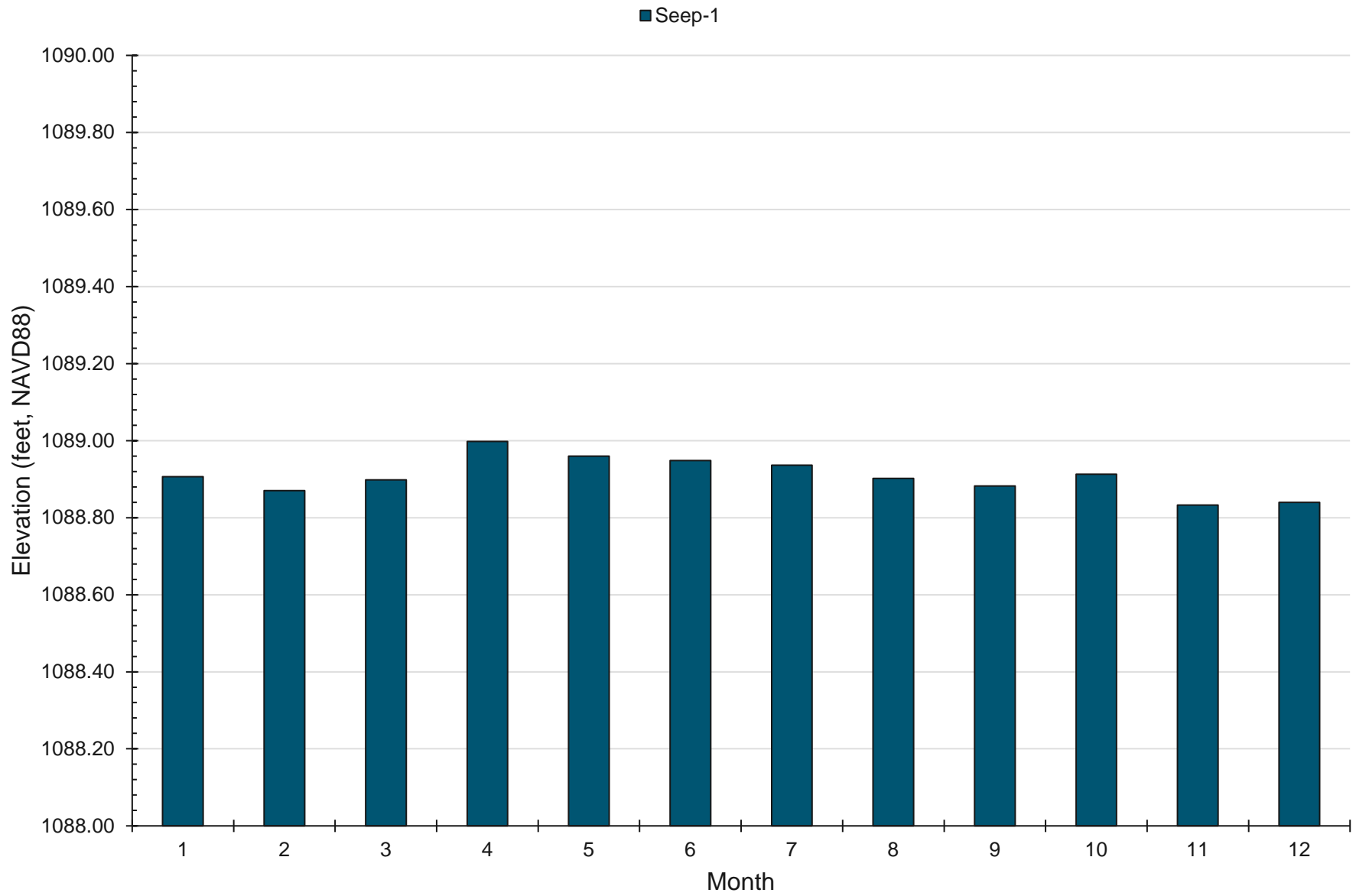


Figure 3-54. Mean monthly water levels in monitoring well SW-14-DP (Wetland R) White Pine Springs, Ewart, Michigan.

