

**Appendix D.** Barometric pressure, water temperature, fluid pressure, and hydraulic head data from port measurements for boreholes USGS 103, USGS 105, USGS 108, USGS 132, USGS 133, USGS 134, USGS 135, MIDDLE 2050A, and MIDDLE 2051, Idaho National Laboratory, Idaho, 2009–10.

[Port No.: Identifier used to locate port couplings. **Hydraulic head** values in feet above National Geodetic Vertical Datum of 1929 (NGVD29). **Abbreviations:** °C, degrees Celsius; psi, pound per square inch; psia, pound per square inch absolute; ft, foot; –, no data]

USGS 103 borehole								
Port No.	Atmospheric pressure (psia) corresponding to measurement event							
	04-14-2009	06-30-2009	08-24-2009	12-07-2009	03-31-2010	06-22-2010	09-29-2010	12-01-2010
1	12.107	12.275	12.321	12.135	12.139	12.321	12.348	12.359
2	12.106	12.277	12.321	12.130	12.141	12.322	12.348	12.360
3	12.107	12.276	12.321	12.128	12.141	12.322	12.348	12.360
4	12.107	12.276	12.322	12.125	12.141	12.322	12.348	12.360
5	12.106	12.279	12.322	12.121	12.142	12.321	12.346	12.360
6	12.106	12.277	12.322	12.115	12.141	12.320	12.346	12.361
7	12.106	12.278	12.322	12.112	12.142	12.320	12.345	12.361
8	12.105	12.275	12.322	12.111	12.143	12.319	12.344	12.361
9	12.107	12.273	12.322	12.107	12.142	12.319	12.344	12.361
10	12.106	12.276	12.323	12.101	12.141	12.319	12.344	12.361
11	12.105	12.275	12.324	12.100	12.141	12.319	12.344	12.361
12	12.104	12.275	12.324	12.099	12.142	12.319	12.342	12.361
13	12.103	12.275	12.324	12.097	12.143	12.319	12.343	12.361
14	12.103	12.277	12.324	12.098	12.145	12.319	12.341	12.360
15	12.140	12.276	12.325	12.095	12.144	12.318	12.341	12.361
16	12.104	12.276	12.325	12.093	12.144	12.320	12.341	12.360
17	12.103	12.276	12.325	12.092	12.142	12.321	12.341	12.360
18	12.103	12.277	12.326	12.090	12.143	12.322	12.341	12.360
19	12.104	12.276	12.326	12.090	12.142	12.322	12.340	12.360
20	12.105	12.274	12.326	12.090	12.143	12.320	12.340	12.360
21	12.105	12.269	12.326	12.092	12.144	12.322	12.339	12.359
22	12.104	12.270	12.326	12.092	12.143	12.323	12.339	12.359
23	12.105	12.271	12.326	12.092	12.143	12.324	12.338	12.360

USGS 103 borehole								
Port No.	Fluid temperature (°C) corresponding to measurement event							
	04-14-2009	06-30-2009	08-24-2009	12-07-2009	03-31-2010	06-22-2010	09-29-2010	12-01-2010
1	12.5	12.6	12.6	12.4	12.4	12.6	12.7	12.8
2	12.5	12.5	12.6	12.5	12.5	12.6	12.7	12.7
3	12.5	12.5	12.5	12.5	12.5	12.5	12.7	12.7
4	12.5	12.5	12.5	12.5	12.5	12.5	12.7	12.7
5	12.4	12.5	12.4	12.4	12.4	12.4	12.6	12.6
6	12.4	12.5	12.4	12.4	12.4	12.4	12.6	12.6
7	12.4	12.4	12.5	12.4	12.5	12.5	12.6	12.6
8	12.4	12.4	12.4	12.4	12.4	12.5	12.6	12.6
9	12.4	12.4	12.4	12.4	12.4	12.5	12.6	12.6
10	12.4	12.4	12.4	12.4	12.5	12.4	12.6	12.6
11	12.4	12.4	12.5	12.4	12.5	12.5	12.6	12.6
12	12.5	12.5	12.5	12.5	12.5	12.5	12.7	12.7
13	12.5	12.5	12.5	12.5	12.5	12.5	12.7	12.7
14	12.6	12.6	12.6	12.5	12.6	12.6	12.7	12.7
15	12.6	12.6	12.6	12.6	12.6	12.6	12.8	12.8
16	12.6	12.6	12.6	12.6	12.6	12.6	12.8	12.8
17	12.7	12.7	12.7	12.6	12.7	12.7	12.8	12.8
18	12.7	12.7	12.7	12.7	12.7	12.7	12.9	12.8
19	12.8	12.8	12.8	12.8	12.8	12.8	12.9	12.9
20	12.8	12.8	12.8	12.8	12.8	12.8	13.0	13.0
21	13.0	13.0	13.1	13.0	13.0	13.0	13.2	13.2
22	13.1	13.1	13.1	13.1	13.1	13.1	13.3	13.3
23	13.2	13.2	13.2	13.1	13.2	13.2	13.3	13.3

**D2 Multilevel Groundwater Monitoring of Hydraulic Head and Temperature, Eastern Snake River Plain Aquifer, Idaho, 2009–10**

**Appendix D.** Barometric pressure, water temperature, fluid pressure, and hydraulic head data from port measurements for boreholes USGS 103, USGS 105, USGS 108, USGS 132, USGS 133, USGS 134, USGS 135, MIDDLE 2050A, and MIDDLE 2051, Idaho National Laboratory, Idaho, 2009–10.—Continued

[Port No.: Identifier used to locate port couplings. **Hydraulic head** values in feet above National Geodetic Vertical Datum of 1929 (NGVD29). **Abbreviations:** °C, degrees Celsius; psi, pound per square inch; psia, pound per square inch absolute; ft, foot; –, no data]

USGS 103 borehole								
Port No.	Fluid pressure (psia) corresponding to measurement event							
	04-14-2009	06-30-2009	08-24-2009	12-07-2009	03-31-2010	06-22-2010	09-29-2010	12-01-2010
1	302.88	303.13	303.10	303.26	303.15	303.27	303.02	303.26
2	296.61	296.85	296.84	296.96	296.85	296.97	296.72	296.97
3	281.88	282.18	282.17	282.31	282.17	282.31	282.02	282.31
4	271.22	271.47	271.46	271.58	271.47	271.59	271.35	271.59
5	241.21	241.47	241.46	241.57	241.48	241.59	241.35	241.6
6	234.94	235.18	235.17	235.30	235.19	235.32	235.05	235.31
7	228.65	228.92	228.90	229.01	228.92	229.05	228.78	229.04
8	218.69	218.95	218.92	219.05	218.93	219.07	218.81	219.07
9	211.03	211.28	211.27	211.39	211.27	211.41	211.16	211.4
10	198.46	198.72	198.72	198.82	198.72	198.84	198.59	198.84
11	187.99	188.25	188.24	188.36	188.25	188.38	188.13	188.38
12	173.20	173.44	173.44	173.56	173.46	173.63	173.38	173.64
13	168.94	169.23	169.18	169.32	169.21	169.33	169.07	169.33
14	157.77	158.06	158.01	158.13	158.02	158.16	157.9	158.15
15	151.55	151.80	151.78	151.92	151.80	151.93	151.68	151.95
16	144.37	144.62	144.61	144.75	144.62	144.75	144.49	144.75
17	131.79	132.06	132.03	132.16	132.05	132.18	131.93	132.2
18	119.92	120.18	120.14	120.30	120.18	120.32	120.06	120.32
19	105.24	105.50	105.48	105.63	105.48	105.65	105.37	105.65
20	90.36	90.62	90.60	90.75	90.61	90.75	90.5	90.76
21	58.87	59.13	59.12	59.26	59.30	59.46	59.01	59.28
22	52.60	52.86	52.84	52.98	52.89	53.00	52.74	53.01
23	48.21	48.46	48.46	48.59	48.46	48.64	48.34	48.62

USGS 103 borehole								
Port No.	Hydraulic head (ft) corresponding to measurement event							
	04-14-2009	06-30-2009	08-24-2009	12-07-2009	03-31-2010	06-22-2010	09-29-2010	12-01-2010
1	4,419.8	4,420.0	4,419.8	4,420.6	4,420.3	4,420.2	4,419.6	4,420.1
2	4,419.8	4,420.0	4,419.9	4,420.6	4,420.3	4,420.2	4,419.6	4,420.1
3	4,419.7	4,420.0	4,419.9	4,420.6	4,420.3	4,420.2	4,419.5	4,420.1
4	4,419.8	4,420.0	4,419.8	4,420.6	4,420.3	4,420.1	4,419.5	4,420.1
5	4,419.7	4,419.9	4,419.8	4,420.5	4,420.3	4,420.1	4,419.5	4,420.1
6	4,419.8	4,419.9	4,419.8	4,420.6	4,420.3	4,420.2	4,419.5	4,420.1
7	4,419.7	4,419.9	4,419.8	4,420.5	4,420.3	4,420.1	4,419.5	4,420.0
8	4,419.8	4,420.0	4,419.8	4,420.6	4,420.2	4,420.1	4,419.5	4,420.0
9	4,419.8	4,420.0	4,419.8	4,420.6	4,420.3	4,420.2	4,419.6	4,420.1
10	4,419.7	4,420.0	4,419.8	4,420.6	4,420.3	4,420.1	4,419.5	4,420.0
11	4,419.7	4,419.9	4,419.8	4,420.6	4,420.3	4,420.1	4,419.5	4,420.1
12	4,419.9	4,420.1	4,419.9	4,420.7	4,420.4	4,420.4	4,419.8	4,420.3
13	4,419.7	4,420.0	4,419.8	4,420.6	4,420.3	4,420.1	4,419.5	4,420.0
14	4,419.8	4,420.0	4,419.8	4,420.6	4,420.3	4,420.2	4,419.5	4,420.1
15	4,419.8	4,420.1	4,419.9	4,420.8	4,420.4	4,420.3	4,419.6	4,420.2
16	4,419.9	4,420.0	4,419.9	4,420.8	4,420.3	4,420.2	4,419.6	4,420.1
17	4,419.8	4,420.0	4,419.8	4,420.7	4,420.3	4,420.2	4,419.6	4,420.1
18	4,419.9	4,420.1	4,419.9	4,420.8	4,420.4	4,420.3	4,419.6	4,420.2
19	4,419.8	4,420.0	4,419.9	4,420.8	4,420.3	4,420.3	4,419.6	4,420.2
20	4,419.8	4,420.0	4,419.9	4,420.8	4,420.3	4,420.2	4,419.6	4,420.2
21	4,419.8	4,420.0	4,419.9	4,420.7	4,420.7	4,420.7	4,419.6	4,420.2
22	4,419.9	4,420.1	4,419.9	4,420.8	4,420.5	4,420.3	4,419.7	4,420.2
23	4,419.9	4,420.1	4,419.9	4,420.8	4,420.4	4,420.4	4,419.6	4,420.2

**Appendix D.** Barometric pressure, water temperature, fluid pressure, and hydraulic head data from port measurements for boreholes USGS 103, USGS 105, USGS 108, USGS 132, USGS 133, USGS 134, USGS 135, MIDDLE 2050A, and MIDDLE 2051, Idaho National Laboratory, Idaho, 2009–10.—Continued

[**Port No.:** Identifier used to locate port couplings. **Hydraulic head** values in feet above National Geodetic Vertical Datum of 1929 (NGVD29). **Abbreviations:** °C, degrees Celsius; psi, pound per square inch; psia, pound per square inch absolute; ft, foot; –, no data]

USGS 105 borehole						
Port No.	Atmospheric pressure (psia) corresponding to measurement event					
	09-16-2009	12-10-2009	03-31-2010	06-15-2010	09-23-2010	11-30-2010
1	12.354	12.248	12.099	12.195	12.228	12.373
2	12.357	12.250	12.095	12.193	12.227	12.372
3	12.358	12.250	12.095	12.194	12.227	12.371
4	12.359	12.250	12.095	12.197	12.227	12.371
5	12.358	12.247	12.095	12.193	12.227	12.371
6	12.356	12.248	12.094	12.192	12.227	12.369
7	12.355	12.247	12.092	12.196	12.228	12.370
8	12.355	12.245	12.091	12.195	12.228	12.369
9	12.355	12.243	12.091	12.197	12.229	12.368
10	12.354	12.240	12.091	12.195	12.227	12.368
11	12.354	12.240	12.089	12.194	12.227	12.368
12	12.354	12.237	12.088	12.192	12.227	12.368
13	12.354	12.235	12.086	12.190	12.226	12.368
14	12.353	12.233	12.085	12.189	12.226	12.367
15	12.351	12.231	12.085	12.192	12.226	12.367
16	12.350	12.228	12.083	12.190	12.226	12.367
17	12.350	12.226	12.083	12.190	12.226	12.367
18	12.349	12.224	12.083	12.188	12.225	12.367

USGS 105 borehole						
Port No.	Fluid temperature (°C) corresponding to measurement event					
	09-16-2009	12-10-2009	03-31-2010	06-15-2010	09-23-2010	11-30-2010
1	12.5	12.4	12.4	12.5	12.7	12.5
2	12.4	12.4	12.4	12.4	12.6	12.6
3	12.5	12.4	12.4	12.4	12.6	12.6
4	12.6	12.5	12.5	12.5	12.7	12.6
5	12.8	12.8	12.7	12.7	12.9	12.9
6	12.9	12.9	12.9	12.8	13.0	13.0
7	13.0	12.9	12.9	12.9	13.1	13.1
8	12.9	12.9	13.0	12.9	13.1	13.1
9	12.9	13.0	13.0	13.0	13.1	13.1
10	12.9	12.9	12.9	12.9	13.1	13.1
11	12.9	12.9	12.9	12.9	13.1	13.1
12	12.9	12.9	12.9	12.9	13.1	13.1
13	12.8	12.8	12.8	12.8	12.9	13.0
14	12.7	12.6	12.7	12.7	12.8	12.9
15	12.6	12.6	12.6	12.6	12.8	12.8
16	12.6	12.6	12.6	12.6	12.8	12.8
17	12.7	12.6	12.6	12.6	12.8	12.8
18	12.7	12.6	12.6	12.6	12.8	12.8

**D4 Multilevel Groundwater Monitoring of Hydraulic Head and Temperature, Eastern Snake River Plain Aquifer, Idaho, 2009–10**

**Appendix D.** Barometric pressure, water temperature, fluid pressure, and hydraulic head data from port measurements for boreholes USGS 103, USGS 105, USGS 108, USGS 132, USGS 133, USGS 134, USGS 135, MIDDLE 2050A, and MIDDLE 2051, Idaho National Laboratory, Idaho, 2009–10.—Continued

[Port No.: Identifier used to locate port couplings. **Hydraulic head** values in feet above National Geodetic Vertical Datum of 1929 (NGVD29). **Abbreviations:** °C, degrees Celsius; psi, pound per square inch; psia, pound per square inch absolute; ft, foot; –, no data]

USGS 105 borehole						
Port No.	Fluid pressure (psia) corresponding to measurement event					
	09-16-2009	12-10-2009	03-31-2010	06-15-2010	09-23-2010	11-30-2010
1	274.39	274.57	274.40	274.44	274.16	274.53
2	258.09	258.26	258.10	258.15	257.85	258.21
3	250.80	250.97	250.81	250.86	250.57	250.93
4	225.28	225.44	225.27	225.33	225.04	225.40
5	199.47	199.22	199.05	199.10	198.81	199.17
6	184.16	184.34	184.16	184.22	183.92	184.29
7	168.34	168.53	168.34	168.41	168.12	168.47
8	155.56	155.75	155.57	155.64	155.34	155.70
9	147.04	147.22	147.04	147.10	146.81	147.16
10	132.14	132.31	132.13	132.19	131.89	132.25
11	122.70	122.90	122.70	122.76	122.49	122.83
12	114.18	114.36	114.20	114.25	113.96	114.31
13	95.00	95.19	95.00	95.07	94.78	95.13
14	88.51	88.71	88.53	88.60	88.30	88.66
15	79.78	79.99	79.80	79.87	79.58	79.94
16	47.05	47.27	47.06	47.13	46.83	47.19
17	34.91	35.11	34.93	35.01	34.70	35.07
18	26.16	26.38	26.19	26.27	25.97	26.32

  

USGS 105 borehole						
Port No.	Hydraulic head (ft) corresponding to measurement event					
	09-16-2009	12-10-2009	03-31-2010	06-15-2010	09-23-2010	11-30-2010
1	4,419.4	4,420.1	4,420.0	4,419.9	4,419.2	4,419.7
2	4,419.4	4,420.1	4,420.0	4,419.9	4,419.2	4,419.7
3	4,419.4	4,420.0	4,420.0	4,419.9	4,419.2	4,419.7
4	4,419.4	4,420.0	4,420.0	4,419.9	4,419.1	4,419.6
5	4,420.3	4,420.0	4,420.0	4,419.8	4,419.1	4,419.6
6	4,419.4	4,420.0	4,420.0	4,419.9	4,419.1	4,419.6
7	4,419.3	4,420.0	4,419.9	4,419.8	4,419.1	4,419.6
8	4,419.3	4,420.0	4,419.9	4,419.8	4,419.1	4,419.6
9	4,419.3	4,420.0	4,419.9	4,419.8	4,419.1	4,419.6
10	4,419.3	4,420.0	4,419.9	4,419.8	4,419.0	4,419.6
11	4,419.3	4,420.0	4,419.9	4,419.8	4,419.1	4,419.5
12	4,419.3	4,420.0	4,419.9	4,419.8	4,419.1	4,419.5
13	4,419.3	4,420.0	4,419.9	4,419.8	4,419.1	4,419.6
14	4,419.1	4,419.8	4,419.7	4,419.6	4,418.9	4,419.4
15	4,419.1	4,419.9	4,419.8	4,419.7	4,418.9	4,419.4
16	4,419.0	4,419.8	4,419.7	4,419.6	4,418.8	4,419.3
17	4,418.9	4,419.7	4,419.6	4,419.5	4,418.7	4,419.3
18	4,418.9	4,419.7	4,419.6	4,419.5	4,418.7	4,419.2

**Appendix D.** Barometric pressure, water temperature, fluid pressure, and hydraulic head data from port measurements for boreholes USGS 103, USGS 105, USGS 108, USGS 132, USGS 133, USGS 134, USGS 135, MIDDLE 2050A, and MIDDLE 2051, Idaho National Laboratory, Idaho, 2009–10.—Continued

[**Port No.:** Identifier used to locate port couplings. **Hydraulic head** values in feet above National Geodetic Vertical Datum of 1929 (NGVD29). **Abbreviations:** °C, degrees Celsius; psi, pound per square inch; psia, pound per square inch absolute; ft, foot; –, no data]

USGS 108 borehole		
Port No.	Atmospheric pressure (psia) corresponding to measurement event	
	09-23-2010	11-22-2010
1	12.257	12.106
2	12.256	12.102
3	12.256	12.099
4	12.256	12.099
5	12.256	12.098
6	12.258	12.097
7	12.258	12.098
8	12.258	12.097
9	12.255	12.096
10	12.256	12.095
11	12.257	12.094
12	12.258	12.096
13	12.259	12.096
14	12.258	12.095
15	12.258	12.094
16	12.258	12.095

USGS 108 borehole		
Port No.	Fluid temperature (°C) corresponding to measurement event	
	09-23-2010	11-22-2010
1	12.7	12.8
2	12.7	12.7
3	12.7	12.7
4	12.7	12.7
5	12.7	12.7
6	12.7	12.7
7	12.7	12.7
8	12.6	12.7
9	12.6	12.6
10	12.6	12.6
11	12.6	12.6
12	12.6	12.6
13	12.6	12.6
14	12.5	12.5
15	12.4	12.4
16	12.6	12.4

**D6 Multilevel Groundwater Monitoring of Hydraulic Head and Temperature, Eastern Snake River Plain Aquifer, Idaho, 2009–10**

**Appendix D.** Barometric pressure, water temperature, fluid pressure, and hydraulic head data from port measurements for boreholes USGS 103, USGS 105, USGS 108, USGS 132, USGS 133, USGS 134, USGS 135, MIDDLE 2050A, and MIDDLE 2051, Idaho National Laboratory, Idaho, 2009–10.—Continued

[Port No.: Identifier used to locate port couplings. **Hydraulic head** values in feet above National Geodetic Vertical Datum of 1929 (NGVD29). **Abbreviations:** °C, degrees Celsius; psi, pound per square inch; psia, pound per square inch absolute; ft, foot; –, no data]

<b>USGS 108 borehole</b>		
<b>Port No.</b>	<b>Fluid pressure (psia) corresponding to measurement event</b>	
	<b>09-23-2010</b>	<b>11-22-2010</b>
1	255.04	255.16
2	250.59	250.70
3	233.58	233.69
4	208.09	208.21
5	193.22	193.33
6	188.77	188.90
7	172.47	172.59
8	140.58	140.69
9	131.97	132.08
10	125.40	125.52
11	108.35	108.46
12	97.70	97.81
13	90.41	90.53
14	42.81	42.92
15	33.55	33.67
16	25.53	25.64

<b>USGS 108 borehole</b>		
<b>Port No.</b>	<b>Hydraulic head (ft) corresponding to measurement event</b>	
	<b>09-23-2010</b>	<b>11-22-2010</b>
1	4,419.3	4,419.9
2	4,419.3	4,419.9
3	4,419.3	4,419.9
4	4,419.5	4,420.1
5	4,419.5	4,420.1
6	4,419.5	4,420.1
7	4,419.5	4,420.1
8	4,419.5	4,420.2
9	4,419.3	4,419.9
10	4,419.3	4,419.9
11	4,419.2	4,419.8
12	4,419.1	4,419.7
13	4,419.1	4,419.7
14	4,418.8	4,419.4
15	4,418.7	4,419.4
16	4,418.6	4,419.3

**Appendix D.** Barometric pressure, water temperature, fluid pressure, and hydraulic head data from port measurements for boreholes USGS 103, USGS 105, USGS 108, USGS 132, USGS 133, USGS 134, USGS 135, MIDDLE 2050A, and MIDDLE 2051, Idaho National Laboratory, Idaho, 2009–10.—Continued

[Port No.: Identifier used to locate port couplings. **Hydraulic head** values in feet above National Geodetic Vertical Datum of 1929 (NGVD29). **Abbreviations:** °C, degrees Celsius; psi, pound per square inch; psia, pound per square inch absolute; ft, foot; –, no data]

USGS 132 borehole								
Port No.	Atmospheric pressure (psia) corresponding to measurement event							
	04-15-2009	06-30-2009	08-26-2009	12-10-2009	04-01-2010	06-16-2010	09-28-2010	12-01-2010
1	12.062	12.257	12.370	12.245	12.115	12.171	12.300	12.337
2	12.065	12.262	12.369	12.242	12.114	12.166	12.300	12.336
3	12.068	12.251	12.369	12.241	12.114	12.173	12.300	12.335
4	12.068	12.245	12.369	12.242	12.113	12.177	12.298	12.334
5	12.066	12.246	12.370	12.241	12.112	12.172	12.297	12.333
6	12.067	12.248	12.370	12.241	12.113	12.170	12.295	12.332
7	12.068	12.249	12.370	12.242	12.113	12.170	12.294	12.331
8	12.069	12.250	12.370	12.242	12.112	12.179	12.294	12.330
9	12.069	12.250	12.371	12.243	12.112	12.182	12.294	12.330
10	12.071	12.250	12.370	12.242	12.112	12.183	12.292	12.330
11	12.074	12.249	12.370	12.241	12.112	12.183	12.292	12.330
12	12.073	12.248	12.370	12.241	12.113	12.183	12.290	12.329
13	12.075	12.248	12.370	12.242	12.112	12.183	12.289	12.329
14	12.075	12.249	12.370	12.240	12.112	12.187	12.287	12.330
15	12.077	12.250	12.370	12.240	12.113	12.187	12.287	12.329
16	12.078	12.251	12.370	12.240	12.116	12.188	12.285	12.329
17	12.082	12.252	12.370	12.241	12.117	12.182	12.284	12.328
18	12.085	12.251	12.370	12.241	12.119	12.194	12.283	12.328
19	12.087	12.250	12.369	12.242	12.120	12.189	12.283	12.328
20	12.091	12.249	12.368	12.242	12.121	12.194	12.282	12.328
21	12.094	12.248	12.367	12.241	12.122	12.188	12.281	12.328
22	12.093	12.247	12.366	12.241	12.120	12.193	12.281	12.328
23	12.093	12.246	12.366	12.242	12.120	12.187	12.280	12.328

USGS 132 borehole								
Port No.	Fluid temperature (°C) corresponding to measurement event							
	04-15-2009	06-30-2009	08-26-2009	12-10-2009	04-01-2010	06-16-2010	09-28-2010	12-01-2010
1	10.6	10.7	10.8	10.6	10.6	10.7	10.9	10.9
2	10.6	10.6	10.6	10.6	10.6	10.6	10.8	10.9
3	10.6	10.6	10.6	10.6	10.6	10.7	10.8	10.8
4	10.6	10.6	10.6	10.6	10.7	10.7	10.8	10.9
5	11.3	11.3	11.3	11.1	11.3	11.2	11.4	11.5
6	11.8	11.8	11.8	11.7	11.7	11.7	11.8	11.9
7	12.0	12.0	12.0	11.9	11.9	12.0	12.1	12.1
8	12.1	12.1	12.1	12.1	12.0	12.1	12.2	12.3
9	12.2	12.2	12.1	12.2	12.1	12.2	12.3	12.3
10	12.3	12.3	12.3	12.3	12.2	12.3	12.4	12.4
11	12.3	12.3	12.3	12.3	12.3	12.3	12.5	12.5
12	12.4	12.4	12.4	12.4	12.4	12.4	12.6	12.6
13	12.4	12.4	12.5	12.4	12.4	12.5	12.6	12.6
14	12.5	12.5	12.5	12.5	12.5	12.5	12.6	12.6
15	12.5	12.5	12.5	12.5	12.5	12.5	12.7	12.6
16	12.4	12.5	12.5	12.5	12.5	12.5	12.6	12.6
17	12.4	12.4	12.4	12.4	12.4	12.4	12.6	12.6
18	12.4	12.4	12.4	12.4	12.4	12.4	12.6	12.6
19	12.3	12.3	12.3	12.3	12.3	12.3	12.5	12.5
20	11.7	11.7	11.8	11.8	12.0	11.9	12.0	12.1
21	11.6	11.6	11.6	11.7	11.8	11.7	11.9	11.9
22	11.5	11.5	11.6	11.6	11.6	11.6	11.7	11.8
23	11.5	11.6	11.6	11.5	11.6	11.5	11.7	11.8

**D8 Multilevel Groundwater Monitoring of Hydraulic Head and Temperature, Eastern Snake River Plain Aquifer, Idaho, 2009–10**

**Appendix D.** Barometric pressure, water temperature, fluid pressure, and hydraulic head data from port measurements for boreholes USGS 103, USGS 105, USGS 108, USGS 132, USGS 133, USGS 134, USGS 135, MIDDLE 2050A, and MIDDLE 2051, Idaho National Laboratory, Idaho, 2009–10.—Continued

[Port No.: Identifier used to locate port couplings. **Hydraulic head** values in feet above National Geodetic Vertical Datum of 1929 (NGVD29). **Abbreviations:** °C, degrees Celsius; psi, pound per square inch; psia, pound per square inch absolute; ft, foot; –, no data]

USGS 132 borehole								
Port No.	Fluid pressure (psia) corresponding to measurement event							
	04-15-2009	06-30-2009	08-26-2009	12-10-2009	04-01-2010	06-16-2010	09-28-2010	12-01-2010
1	256.83	257.10	257.11	257.30	257.14	257.13	257.02	257.21
2	248.11	248.40	248.45	248.60	248.43	248.43	248.31	248.51
3	244.57	244.85	244.91	245.05	244.88	244.88	244.76	244.96
4	240.31	240.59	240.64	240.78	240.62	240.62	240.50	240.71
5	201.99	202.29	202.33	202.47	202.32	202.32	202.20	202.40
6	186.77	187.07	187.13	187.26	187.10	187.10	186.98	187.19
7	175.23	175.51	175.57	175.71	175.55	175.54	175.43	175.63
8	161.74	162.02	162.09	162.23	162.06	162.06	161.93	162.15
9	155.36	155.65	155.69	155.84	155.68	155.67	155.56	155.76
10	146.52	146.79	146.86	146.99	146.83	146.84	146.71	146.91
11	143.48	143.76	143.82	143.95	143.79	143.80	143.68	143.88
12	128.57	128.85	128.91	129.04	128.88	128.88	128.76	128.97
13	124.31	124.58	124.64	124.79	124.62	124.62	124.50	124.71
14	106.93	107.22	107.28	107.41	107.26	107.25	107.13	107.34
15	100.32	100.61	100.68	100.81	100.65	100.65	100.53	100.73
16	96.07	96.35	96.41	96.55	96.40	96.39	96.26	96.48
17	91.09	91.37	91.42	91.57	91.41	91.41	91.29	91.49
18	80.09	80.38	80.44	80.59	80.43	80.43	80.31	80.51
19	63.55	63.83	63.90	64.03	63.87	63.87	63.76	63.96
20	40.03	40.32	40.39	40.53	40.37	40.38	40.26	40.46
21	35.76	36.04	36.13	36.26	36.10	36.11	35.98	36.18
22	24.73	25.04	25.12	25.26	25.10	25.10	24.99	25.18
23	18.87	19.16	19.22	19.38	19.21	19.22	19.08	19.30

USGS 132 borehole								
Port No.	Hydraulic head (ft) corresponding to measurement event							
	04-15-2009	06-30-2009	08-26-2009	12-10-2009	04-01-2010	06-16-2010	09-28-2010	12-01-2010
1	4,419.7	4,419.9	4,419.7	4,420.4	4,420.3	4,420.2	4,419.6	4,420.0
2	4,419.7	4,419.9	4,419.7	4,420.4	4,420.3	4,420.2	4,419.6	4,420.0
3	4,419.7	4,419.9	4,419.8	4,420.4	4,420.3	4,420.2	4,419.6	4,420.0
4	4,419.6	4,419.9	4,419.7	4,420.3	4,420.3	4,420.1	4,419.6	4,420.0
5	4,419.5	4,419.8	4,419.6	4,420.2	4,420.2	4,420.0	4,419.5	4,419.9
6	4,419.5	4,419.8	4,419.6	4,420.2	4,420.1	4,420.0	4,419.5	4,419.9
7	4,419.5	4,419.8	4,419.6	4,420.2	4,420.2	4,420.0	4,419.5	4,419.8
8	4,419.6	4,419.8	4,419.7	4,420.3	4,420.2	4,420.1	4,419.5	4,419.9
9	4,419.6	4,419.9	4,419.7	4,420.3	4,420.3	4,420.1	4,419.6	4,419.9
10	4,419.6	4,419.8	4,419.6	4,420.2	4,420.2	4,420.0	4,419.5	4,419.9
11	4,419.5	4,419.8	4,419.6	4,420.2	4,420.2	4,420.0	4,419.5	4,419.9
12	4,419.5	4,419.8	4,419.6	4,420.2	4,420.1	4,420.0	4,419.5	4,419.8
13	4,419.5	4,419.7	4,419.6	4,420.2	4,420.1	4,420.0	4,419.5	4,419.9
14	4,419.5	4,419.8	4,419.7	4,420.3	4,420.2	4,420.0	4,419.5	4,419.9
15	4,419.5	4,419.8	4,419.6	4,420.2	4,420.2	4,420.0	4,419.5	4,419.9
16	4,419.5	4,419.8	4,419.7	4,420.3	4,420.2	4,420.0	4,419.5	4,419.9
17	4,419.5	4,419.8	4,419.6	4,420.3	4,420.2	4,420.0	4,419.5	4,419.9
18	4,419.5	4,419.8	4,419.6	4,420.3	4,420.2	4,420.0	4,419.5	4,419.9
19	4,419.5	4,419.8	4,419.6	4,420.2	4,420.2	4,420.0	4,419.5	4,419.9
20	4,419.3	4,419.6	4,419.5	4,420.1	4,420.1	4,419.9	4,419.4	4,419.8
21	4,419.3	4,419.6	4,419.6	4,420.2	4,420.1	4,419.9	4,419.4	4,419.8
22	4,419.2	4,419.6	4,419.5	4,420.1	4,420.0	4,419.9	4,419.4	4,419.7
23	4,419.4	4,419.7	4,419.6	4,420.3	4,420.1	4,420.0	4,419.5	4,419.9



**Appendix D.** Barometric pressure, water temperature, fluid pressure, and hydraulic head data from port measurements for boreholes USGS 103, USGS 105, USGS 108, USGS 132, USGS 133, USGS 134, USGS 135, MIDDLE 2050A, and MIDDLE 2051, Idaho National Laboratory, Idaho, 2009–10.—Continued

[Port No.: Identifier used to locate port couplings. **Hydraulic head** values in feet above National Geodetic Vertical Datum of 1929 (NGVD29). **Abbreviations:** °C, degrees Celsius; psi, pound per square inch; psia, pound per square inch absolute; ft, foot; –, no data]

USGS 133 borehole								
Port No.	Atmospheric pressure (psia) corresponding to measurement event							
	04-17-2009	07-01-2009	08-19-2009	12-15-2009	03-30-2010	06-29-2010	09-30-2010	02-12-2010
1	12.427	12.343	12.339	12.390	12.051	12.325	12.34	12.345
2	12.427	12.346	12.338	12.397	12.050	12.325	12.338	12.342
3	12.427	12.347	12.336	12.398	12.048	12.328	12.337	12.341
4	12.427	12.347	12.336	12.397	12.048	12.322	12.335	12.34
5	12.427	12.347	12.336	12.395	12.051	12.324	12.335	12.339
6	12.427	12.347	12.335	12.397	12.052	12.329	12.334	12.337
7	12.427	12.346	12.334	12.397	12.051	12.331	12.333	12.335
8	12.426	12.347	12.333	12.398	12.052	12.333	12.333	12.334
9	12.426	12.347	12.332	12.398	12.053	12.333	12.332	12.333
10	12.425	12.347	12.331	12.398	12.054	12.332	12.332	12.333
11	12.426	12.348	12.330	12.398	12.053	12.332	12.331	12.333
12	12.426	12.348	12.330	12.399	12.056	12.333	12.33	12.323
13	12.425	12.378	12.329	12.397	12.056	12.332	12.329	12.331

  

USGS 133 borehole								
Port No.	Fluid temperature (°C) corresponding to measurement event							
	04-17-2009	07-01-2009	08-19-2009	12-15-2009	03-30-2010	06-29-2010	09-30-2010	02-12-2010
1	12.2	12.3	12.3	12.0	12.1	12.2	12.45	12.06
2	12.1	12.0	12.1	12.0	12.0	12.1	12.22	12.06
3	12.0	12.0	12.0	11.9	12.0	12.0	12.15	12.07
4	11.9	11.9	11.9	11.9	11.9	11.9	12.05	12.05
5	11.8	11.8	11.8	11.8	11.9	11.9	11.97	12.01
6	11.5	11.5	11.6	11.5	11.5	11.6	11.66	11.74
7	11.4	11.4	11.4	11.4	11.4	11.4	11.59	11.64
8	11.4	11.4	11.4	11.4	11.4	11.4	11.52	11.6
9	11.3	11.3	11.3	11.3	11.3	11.3	11.48	11.53
10	11.3	11.3	11.3	11.3	11.3	11.3	11.41	11.48
11	11.1	11.1	11.1	11.1	11.1	11.1	11.26	11.34
12	11.0	11.0	11.0	11.0	11.0	11.0	11.18	11.24
13	11.0	11.0	11.0	11.0	11.0	11.0	11.13	11.17

  

USGS 133 borehole								
Port No.	Fluid pressure (psia) corresponding to measurement event							
	04-17-2009	07-01-2009	08-19-2009	12-15-2009	03-30-2010	06-29-2010	09-30-2010	02-12-2010
1	147.87	147.71	147.68	147.93	147.90	148.02	147.75	147.87
2	139.17	139.02	138.96	139.22	139.20	139.31	139.07	139.15
3	134.74	134.75	134.69	134.94	134.92	135.02	134.76	134.86
4	127.79	127.67	127.59	127.85	127.83	127.92	127.7	127.78
5	122.14	122.01	121.94	122.19	122.18	122.28	122.04	122.12
6	94.89	94.84	94.80	94.94	95.11	95.22	95.06	95.06
7	84.46	84.42	84.38	84.49	84.64	84.78	84.6	84.59
8	74.16	74.12	74.07	74.15	74.34	74.45	74.26	74.24
9	68.29	68.23	68.19	68.27	68.46	68.56	68.38	68.36
10	61.18	61.13	61.08	61.17	61.34	61.46	61.27	61.26
11	36.97	36.94	36.90	36.96	37.16	37.28	37.1	37.08
12	30.57	30.52	30.48	30.56	30.74	30.86	30.68	30.66
13	21.83	21.79	21.74	21.81	22.03	22.09	21.96	21.91

**D10 Multilevel Groundwater Monitoring of Hydraulic Head and Temperature, Eastern Snake River Plain Aquifer, Idaho, 2009–10**

**Appendix D.** Barometric pressure, water temperature, fluid pressure, and hydraulic head data from port measurements for boreholes USGS 103, USGS 105, USGS 108, USGS 132, USGS 133, USGS 134, USGS 135, MIDDLE 2050A, and MIDDLE 2051, Idaho National Laboratory, Idaho, 2009–10.—Continued

[Port No.: Identifier used to locate port couplings. **Hydraulic head** values in feet above National Geodetic Vertical Datum of 1929 (NGVD29). **Abbreviations:** °C, degrees Celsius; psi, pound per square inch; psia, pound per square inch absolute; ft, foot; –, no data]

USGS 133 borehole								
Port No.	Hydraulic head (ft) corresponding to measurement event							
	04-17-2009	07-01-2009	08-19-2009	12-15-2009	03-30-2010	06-29-2010	09-30-2010	02-12-2010
1	4,456.5	4,456.4	4,456.3	4,456.7	4,457.5	4,457.1	4,456.5	4,456.7
2	4,456.6	4,456.4	4,456.3	4,456.7	4,457.5	4,457.1	4,456.5	4,456.7
3	4,456.1	4,456.3	4,456.2	4,456.7	4,457.4	4,457.0	4,456.4	4,456.6
4	4,456.5	4,456.4	4,456.2	4,456.7	4,457.5	4,457.0	4,456.5	4,456.7
5	4,456.5	4,456.4	4,456.3	4,456.7	4,457.5	4,457.1	4,456.5	4,456.7
6	4,460.9	4,461.0	4,460.9	4,461.1	4,462.3	4,461.9	4,461.5	4,461.5
7	4,461.4	4,461.5	4,461.5	4,461.6	4,462.7	4,462.4	4,462.0	4,461.9
8	4,462.3	4,462.4	4,462.3	4,462.3	4,463.6	4,463.2	4,462.7	4,462.7
9	4,462.3	4,462.4	4,462.3	4,462.3	4,463.6	4,463.1	4,462.7	4,462.7
10	4,462.3	4,462.4	4,462.3	4,462.3	4,463.5	4,463.1	4,462.7	4,462.7
11	4,462.2	4,462.4	4,462.3	4,462.3	4,463.5	4,463.2	4,462.8	4,462.7
12	4,462.2	4,462.3	4,462.2	4,462.3	4,463.5	4,463.1	4,462.7	4,462.7
13	4,462.2	4,462.2	4,462.2	4,462.2	4,463.5	4,463.0	4,462.7	4,462.6

USGS 134 borehole							
Port No.	Atmospheric pressure (psia) corresponding to measurement event						
	04-17-2009	06-29-2009	08-17-2009	12-15-2009	03-30-2010	06-21-2009	10-01-2009
1	12.342	12.306	12.379	12.340	12.022	12.313	12.377
2	12.340	12.304	12.378	12.341	12.021	12.313	12.376
3	–	–	–	–	–	–	–
4	12.339	12.303	12.378	12.342	12.020	12.312	12.375
5	12.336	12.301	12.378	12.341	12.020	12.311	12.375
6	12.336	12.301	12.378	12.340	12.019	12.311	12.375
7	12.336	12.301	12.378	12.341	12.020	12.311	12.375
8	12.335	12.300	12.378	12.341	12.019	12.311	12.374
9	12.334	12.300	12.379	12.342	12.019	12.310	12.374
10	12.333	12.300	12.379	12.342	12.019	12.310	12.373
11	12.331	12.297	12.379	12.342	12.016	12.310	12.373
12	12.331	12.296	12.379	12.343	12.015	12.310	12.372
13	12.330	12.295	12.378	12.343	12.015	12.310	12.372
14	12.329	12.295	12.379	12.344	12.015	12.310	12.371
15	12.329	12.294	12.379	12.345	12.015	12.310	12.370
16	12.329	12.293	12.379	12.345	12.015	12.310	12.370
17	12.328	12.292	12.379	12.346	12.016	12.309	12.370
18	12.328	12.290	12.379	12.347	12.015	12.308	12.369
19	12.328	12.288	12.379	12.347	12.015	12.307	12.368
20	12.328	12.288	12.378	12.347	12.015	12.308	12.367

**Appendix D.** Barometric pressure, water temperature, fluid pressure, and hydraulic head data from port measurements for boreholes USGS 103, USGS 105, USGS 108, USGS 132, USGS 133, USGS 134, USGS 135, MIDDLE 2050A, and MIDDLE 2051, Idaho National Laboratory, Idaho, 2009–10.—Continued

[Port No.: Identifier used to locate port couplings. **Hydraulic head** values in feet above National Geodetic Vertical Datum of 1929 (NGVD29). **Abbreviations:** °C, degrees Celsius; psi, pound per square inch; psia, pound per square inch absolute; ft, foot; –, no data]

USGS 134 borehole							
Port No.	Fluid temperature (°C) corresponding to measurement event						
	04-17-2009	06-29-2009	08-17-2009	12-15-2009	03-30-2010	06-21-2009	10-01-2009
1	14.9	15.0	14.9	14.9	14.8	14.9	15.1
2	14.8	14.8	14.8	14.8	14.8	14.8	15.0
3	–	–	–	–	–	–	–
4	14.6	14.6	14.6	14.6	14.6	14.6	14.8
5	14.5	14.5	14.4	14.5	14.5	14.5	14.7
6	14.3	14.4	14.3	14.3	14.4	14.4	14.6
7	14.3	14.3	14.3	14.2	14.3	14.3	14.5
8	14.1	14.1	14.1	14.1	14.1	14.2	14.3
9	13.9	13.9	13.9	13.9	13.9	14.0	14.2
10	13.7	13.7	13.7	13.7	13.7	13.8	14.0
11	13.6	13.6	13.6	13.6	13.6	13.7	13.8
12	13.5	13.5	13.5	13.5	13.5	13.5	13.7
13	13.4	13.4	13.4	13.4	13.4	13.4	13.6
14	13.3	13.3	13.3	13.3	13.3	13.4	13.5
15	13.3	13.2	13.3	13.2	13.2	13.3	13.4
16	13.2	13.2	13.2	13.2	13.2	13.2	13.4
17	13.0	13.0	13.0	13.0	13.1	13.1	13.2
18	13.0	13.0	13.0	12.9	13.0	13.0	13.1
19	12.9	12.9	12.9	12.9	12.9	12.9	13.0
20	12.8	12.8	12.8	12.7	12.8	12.8	12.9

USGS 134 borehole							
Port No.	Fluid pressure (psia) corresponding to measurement event						
	04-17-2009	06-29-2009	08-17-2009	12-15-2009	03-30-2010	06-21-2009	10-01-2009
1	171.03	170.97	170.90	171.10	171.10	171.18	170.98
2	166.70	166.64	166.55	166.76	166.76	166.87	166.66
3	–	–	–	–	–	–	–
4	155.87	155.81	155.74	155.92	155.93	156.04	155.83
5	149.36	149.32	149.25	149.42	149.45	149.53	149.34
6	145.03	144.99	144.93	145.10	145.12	145.21	145.02
7	138.53	138.49	138.42	138.60	138.62	138.71	138.51
8	128.16	128.11	128.03	128.21	128.23	128.30	128.13
9	112.98	112.92	112.85	113.04	113.06	113.14	112.95
10	102.57	102.53	102.48	102.65	102.70	102.75	102.56
11	95.19	95.17	95.12	95.26	95.32	95.40	95.20
12	88.79	88.76	88.72	88.87	88.93	88.98	88.79
13	77.77	77.75	77.75	77.88	77.94	77.98	77.83
14	73.11	73.13	73.07	73.17	73.28	73.32	73.16
15	68.79	68.79	68.75	68.83	68.97	69.00	68.82
16	66.18	66.18	66.15	66.23	66.36	66.40	66.23
17	51.45	51.44	51.42	51.48	51.65	51.67	51.51
18	46.26	46.25	46.24	46.28	46.46	46.46	46.30
19	39.71	39.70	39.70	39.76	39.95	39.94	39.79
20	29.57	29.45	29.59	29.66	29.65	29.76	29.72

**D12    Multilevel Groundwater Monitoring of Hydraulic Head and Temperature, Eastern Snake River Plain Aquifer, Idaho, 2009–10**

**Appendix D.** Barometric pressure, water temperature, fluid pressure, and hydraulic head data from port measurements for boreholes USGS 103, USGS 105, USGS 108, USGS 132, USGS 133, USGS 134, USGS 135, MIDDLE 2050A, and MIDDLE 2051, Idaho National Laboratory, Idaho, 2009–10.—Continued

[Port No.: Identifier used to locate port couplings. **Hydraulic head** values in feet above National Geodetic Vertical Datum of 1929 (NGVD29). **Abbreviations:** °C, degrees Celsius; psi, pound per square inch; psia, pound per square inch absolute; ft, foot; –, no data]

USGS 134 borehole							
Port No.	Hydraulic head (ft) corresponding to measurement event						
	04-17-2009	06-29-2009	08-17-2009	12-15-2009	03-30-2010	06-21-2009	10-01-2009
1	4,453.0	4,453.0	4,452.7	4,453.2	4,453.9	4,453.5	4,452.9
2	4,453.1	4,453.0	4,452.6	4,453.2	4,454.0	4,453.5	4,452.9
3	–	–	–	–	–	–	–
4	4,453.0	4,453.0	4,452.7	4,453.2	4,453.9	4,453.5	4,452.9
5	4,453.0	4,453.0	4,452.7	4,453.2	4,454.0	4,453.5	4,452.9
6	4,453.0	4,453.0	4,452.7	4,453.2	4,454.0	4,453.5	4,452.9
7	4,453.0	4,453.0	4,452.7	4,453.2	4,454.0	4,453.5	4,452.9
8	4,453.1	4,453.0	4,452.7	4,453.2	4,454.0	4,453.4	4,452.9
9	4,453.1	4,453.0	4,452.6	4,453.2	4,454.0	4,453.5	4,452.9
10	4,453.0	4,453.0	4,452.7	4,453.2	4,454.1	4,453.5	4,452.9
11	4,453.0	4,453.0	4,452.7	4,453.2	4,454.0	4,453.6	4,452.9
12	4,453.3	4,453.3	4,453.0	4,453.4	4,454.3	4,453.7	4,453.2
13	4,453.9	4,453.9	4,453.7	4,454.1	4,455.0	4,454.4	4,453.9
14	4,453.1	4,453.2	4,452.9	4,453.2	4,454.2	4,453.6	4,453.1
15	4,453.1	4,453.2	4,452.9	4,453.2	4,454.3	4,453.6	4,453.1
16	4,453.1	4,453.2	4,452.9	4,453.2	4,454.3	4,453.7	4,453.1
17	4,453.2	4,453.2	4,453.0	4,453.2	4,454.3	4,453.7	4,453.2
18	4,453.2	4,453.3	4,453.1	4,453.2	4,454.4	4,453.7	4,453.2
19	4,453.0	4,453.1	4,452.9	4,453.1	4,454.3	4,453.6	4,453.1
20	4,453.7	4,453.5	4,453.6	4,453.8	4,454.6	4,454.2	4,453.9

USGS 135 borehole						
Port No.	Atmospheric pressure (psia) corresponding to measurement event					
	09-14-2009	12-08-2009	04-01-2010	06-14-2010	09-28-2010	11-30-2010
1	12.188	12.070	12.069	12.244	12.291	12.369
2	12.187	12.072	12.068	12.242	12.291	12.367
3	12.188	12.073	12.068	12.239	12.290	12.366
4	12.187	12.073	12.068	12.238	12.290	12.366
5	12.188	12.076	12.068	12.236	12.289	12.366
6	12.188	12.078	12.068	12.234	12.289	12.365
7	12.189	12.079	12.068	12.233	12.289	12.364
8	12.189	12.080	12.068	12.232	12.288	12.364
9	12.190	12.082	12.068	12.229	12.286	12.364
10	12.189	12.083	12.068	12.229	12.285	12.365
11	12.188	12.083	12.067	12.227	12.283	12.365
12	12.186	12.084	12.067	12.226	12.282	12.365
13	12.187	12.086	12.067	12.225	12.281	12.365
14	12.187	12.085	12.067	12.224	12.280	12.365

**Appendix D.** Barometric pressure, water temperature, fluid pressure, and hydraulic head data from port measurements for boreholes USGS 103, USGS 105, USGS 108, USGS 132, USGS 133, USGS 134, USGS 135, MIDDLE 2050A, and MIDDLE 2051, Idaho National Laboratory, Idaho, 2009–10.—Continued

[**Port No.:** Identifier used to locate port couplings. **Hydraulic head** values in feet above National Geodetic Vertical Datum of 1929 (NGVD29). **Abbreviations:** °C, degrees Celsius; psi, pound per square inch; psia, pound per square inch absolute; ft, foot; –, no data]

USGS 135 borehole						
Port No.	Fluid temperature (°C) corresponding to measurement event					
	09-14-2009	12-08-2009	04-01-2010	06-14-2010	09-28-2010	11-30-2010
1	11.6	11.4	11.4	11.7	11.9	11.8
2	11.5	11.5	11.5	11.5	11.7	11.7
3	11.5	11.5	11.5	11.5	11.7	11.7
4	11.5	11.5	11.5	11.5	11.6	11.7
5	11.5	11.5	11.5	11.5	11.6	11.7
6	11.5	11.5	11.5	11.5	11.7	11.7
7	11.5	11.5	11.5	11.5	11.7	11.7
8	11.5	11.5	11.5	11.5	11.6	11.7
9	11.5	11.5	11.5	11.5	11.6	11.7
10	11.5	11.5	11.5	11.5	11.6	11.7
11	11.5	11.5	11.5	11.5	11.6	11.7
12	11.5	11.5	11.5	11.5	11.6	11.7
13	11.5	11.4	11.5	11.5	11.6	11.6
14	11.5	11.4	11.4	11.4	11.6	11.6

  

USGS 135 borehole						
Port No.	Fluid pressure (psia) corresponding to measurement event					
	09-14-2009	12-08-2009	04-01-2010	06-14-2010	09-28-2010	11-30-2010
1	185.40	185.51	185.50	185.60	185.38	185.61
2	180.93	181.05	181.05	181.15	180.92	181.16
3	158.30	158.43	158.39	158.51	158.29	158.53
4	139.13	139.25	139.23	139.34	139.11	139.36
5	129.20	129.32	129.29	129.40	129.17	129.41
6	120.47	120.60	120.57	120.67	120.46	120.69
7	101.27	101.41	101.39	101.49	101.27	101.52
8	75.70	75.84	75.81	75.90	75.69	75.93
9	63.58	63.73	63.70	63.80	63.58	63.83
10	57.70	57.83	57.82	57.92	57.70	57.93
11	43.48	43.62	43.60	43.70	43.48	43.72
12	32.81	32.97	32.93	33.02	32.81	33.05
13	20.73	20.88	20.85	20.95	20.72	20.96
14	16.24	16.39	16.36	16.44	16.26	16.49

**D14 Multilevel Groundwater Monitoring of Hydraulic Head and Temperature, Eastern Snake River Plain Aquifer, Idaho, 2009–10**

**Appendix D.** Barometric pressure, water temperature, fluid pressure, and hydraulic head data from port measurements for boreholes USGS 103, USGS 105, USGS 108, USGS 132, USGS 133, USGS 134, USGS 135, MIDDLE 2050A, and MIDDLE 2051, Idaho National Laboratory, Idaho, 2009–10.—Continued

[Port No.: Identifier used to locate port couplings. **Hydraulic head** values in feet above National Geodetic Vertical Datum of 1929 (NGVD29). **Abbreviations:** °C, degrees Celsius; psi, pound per square inch; psia, pound per square inch absolute; ft, foot; –, no data]

USGS 135 borehole							
Port No.	Hydraulic head (ft) corresponding to measurement event						
	09-14-2009	12-08-2009	04-01-2010	06-14-2010	09-28-2010	11-30-2010	
1	4,418.6	4,419.2	4,419.1	4,419.0	4,418.4	4,418.7	
2	4,418.6	4,419.1	4,419.2	4,419.0	4,418.4	4,418.7	
3	4,417.2	4,417.7	4,417.6	4,417.5	4,416.9	4,417.3	
4	4,417.1	4,417.7	4,417.7	4,417.5	4,416.9	4,417.3	
5	4,417.2	4,417.7	4,417.7	4,417.6	4,416.9	4,417.3	
6	4,417.2	4,417.7	4,417.7	4,417.5	4,416.9	4,417.3	
7	4,417.1	4,417.7	4,417.7	4,417.5	4,416.9	4,417.3	
8	4,417.1	4,417.7	4,417.7	4,417.5	4,416.9	4,417.3	
9	4,417.1	4,417.7	4,417.7	4,417.6	4,416.9	4,417.3	
10	4,417.2	4,417.7	4,417.7	4,417.6	4,417.0	4,417.3	
11	4,417.1	4,417.6	4,417.6	4,417.5	4,416.8	4,417.2	
12	4,417.0	4,417.6	4,417.6	4,417.4	4,416.8	4,417.2	
13	4,417.1	4,417.6	4,417.6	4,417.5	4,416.8	4,417.2	
14	4,417.1	4,417.7	4,417.6	4,417.5	4,416.9	4,417.3	

  

MIDDLE 2050A borehole								
Port No.	Atmospheric pressure (psia) corresponding to measurement event							
	04-17-2009	07-01-2009	08-18-2009	12-14-2009	04-02-2010	06-24-2010	09-30-2010	12-02-2010
1	12.405	12.329	12.325	12.301	12.233	12.304	12.355	12.305
2	12.403	12.327	12.322	12.299	12.229	12.303	12.354	12.299
3	12.402	12.325	12.320	12.303	12.229	12.301	12.353	12.298
4	12.399	12.324	12.317	12.300	12.227	12.300	12.352	12.296
5	12.398	12.325	12.316	12.299	12.227	12.299	12.352	12.295
6	12.397	12.234	12.313	12.298	12.226	12.297	12.352	12.295
7	12.395	12.324	12.309	12.302	12.225	12.297	12.350	12.295
8	12.393	12.323	12.309	12.301	12.223	12.295	12.349	12.293
9	12.391	12.323	12.308	12.303	12.222	12.295	12.349	12.293
10	12.388	12.322	12.305	12.304	12.222	12.293	12.347	12.292
11	12.386	12.320	12.304	12.306	12.222	12.292	12.346	12.291
12	12.384	12.320	12.303	12.309	12.220	12.292	12.345	12.289
13	12.383	12.319	12.302	12.308	12.220	12.291	12.343	12.289
14	12.382	12.319	12.301	12.311	12.218	12.290	12.343	12.288
15	12.382	12.318	12.302	12.314	12.218	12.289	12.343	12.288

**Appendix D.** Barometric pressure, water temperature, fluid pressure, and hydraulic head data from port measurements for boreholes USGS 103, USGS 105, USGS 108, USGS 132, USGS 133, USGS 134, USGS 135, MIDDLE 2050A, and MIDDLE 2051, Idaho National Laboratory, Idaho, 2009–10.—Continued

[**Port No.:** Identifier used to locate port couplings. **Hydraulic head** values in feet above National Geodetic Vertical Datum of 1929 (NGVD29). **Abbreviations:** °C, degrees Celsius; psi, pound per square inch; psia, pound per square inch absolute; ft, foot; —, no data]

MIDDLE 2050A borehole								
Port No.	Fluid temperature (°C) corresponding to measurement event							
	04-17-2009	07-01-2009	08-18-2009	12-14-2009	04-02-2010	06-24-2010	09-30-2010	12-02-2010
1	16.1	16.2	16.3	16.2	15.9	16.3	16.3	16.2
2	15.7	15.7	15.8	15.8	15.8	15.8	16.0	16.0
3	15.1	15.1	15.1	15.2	15.4	15.2	15.4	15.5
4	14.3	14.3	14.3	14.4	14.6	14.4	14.6	14.8
5	14.1	14.1	14.1	14.1	14.3	14.1	14.3	14.5
6	14.0	14.0	14.0	14.1	14.1	14.1	14.2	14.3
7	13.0	13.0	13.0	13.2	13.4	13.2	13.3	13.4
8	12.8	12.8	12.8	12.8	13.0	12.9	13.0	13.1
9	12.6	12.6	12.6	12.6	12.8	12.7	12.8	12.8
10	12.0	12.0	12.0	12.1	12.4	12.1	12.2	12.4
11	11.8	11.8	11.9	11.8	12.1	11.9	12.0	12.2
12	11.5	11.4	11.5	11.5	11.8	11.5	11.7	11.8
13	11.3	11.3	11.3	11.3	11.5	11.4	11.5	11.6
14	11.2	11.2	11.2	11.1	11.3	11.2	11.4	11.4
15	11.1	11.1	11.1	11.1	11.2	11.1	11.2	11.3

  

MIDDLE 2050A borehole								
Port No.	Fluid pressure (psia) corresponding to measurement event							
	04-17-2009	07-01-2009	08-18-2009	12-14-2009	04-02-2010	06-24-2010	09-30-2010	12-02-2010
1	352.72	352.61	352.55	352.77	352.90	352.81	352.47	352.66
2	336.58	336.46	336.41	336.61	336.73	336.66	336.31	336.53
3	314.96	314.85	314.80	315.00	315.12	315.06	314.70	314.91
4	272.38	272.27	272.23	272.40	272.53	272.48	272.13	272.31
5	256.19	256.01	255.96	256.14	256.26	256.21	255.86	256.05
6	236.64	236.55	236.49	236.67	236.80	236.77	236.40	236.59
7	169.23	169.16	169.09	169.30	169.43	169.38	169.01	169.20
8	155.05	154.97	154.92	155.12	155.24	155.23	154.83	155.02
9	146.23	146.14	146.07	146.26	146.40	146.38	146.00	146.18
10	115.69	115.61	115.55	115.74	115.87	115.85	115.47	115.65
11	110.01	109.93	109.86	110.07	110.20	110.18	109.81	109.98
12	82.83	82.71	82.72	82.82	82.98	83.01	82.63	82.74
13	74.32	74.19	74.20	74.30	74.47	74.50	74.11	74.23
14	38.76	38.63	38.63	38.75	38.91	38.94	38.55	38.67
15	27.76	27.64	27.66	27.73	27.91	27.95	27.56	27.68

**D16 Multilevel Groundwater Monitoring of Hydraulic Head and Temperature, Eastern Snake River Plain Aquifer, Idaho, 2009–10**

**Appendix D.** Barometric pressure, water temperature, fluid pressure, and hydraulic head data from port measurements for boreholes USGS 103, USGS 105, USGS 108, USGS 132, USGS 133, USGS 134, USGS 135, MIDDLE 2050A, and MIDDLE 2051, Idaho National Laboratory, Idaho, 2009–10.—Continued

[Port No.: Identifier used to locate port couplings. **Hydraulic head** values in feet above National Geodetic Vertical Datum of 1929 (NGVD29). **Abbreviations:** °C, degrees Celsius; psi, pound per square inch; psia, pound per square inch absolute; ft, foot; –, no data]

<b>MIDDLE 2050A borehole</b>								
<b>Port No.</b>	<b>Hydraulic head (ft) corresponding to measurement event</b>							
	<b>04-17-2009</b>	<b>07-01-2009</b>	<b>08-18-2009</b>	<b>12-14-2009</b>	<b>04-02-2010</b>	<b>06-24-2010</b>	<b>09-30-2010</b>	<b>12-02-2010</b>
1	4,445.3	4,445.2	4,445.1	4,445.7	4,446.1	4,445.8	4,444.9	4,445.4
2	4,445.7	4,445.6	4,445.5	4,446.0	4,446.5	4,446.2	4,445.3	4,445.9
3	4,445.7	4,445.7	4,445.6	4,446.1	4,446.5	4,446.2	4,445.3	4,445.9
4	4,445.8	4,445.7	4,445.6	4,446.1	4,446.6	4,446.3	4,445.3	4,445.9
5	4,446.1	4,445.9	4,445.8	4,446.2	4,446.7	4,446.4	4,445.5	4,446.0
6	4,445.9	4,446.0	4,445.7	4,446.2	4,446.7	4,446.4	4,445.4	4,446.0
7	4,445.8	4,445.8	4,445.7	4,446.2	4,446.7	4,446.4	4,445.4	4,446.0
8	4,445.8	4,445.8	4,445.7	4,446.2	4,446.7	4,446.5	4,445.5	4,446.0
9	4,445.9	4,445.8	4,445.7	4,446.1	4,446.6	4,446.4	4,445.4	4,446.0
10	4,445.8	4,445.8	4,445.7	4,446.1	4,446.6	4,446.4	4,445.4	4,446.0
11	4,445.9	4,445.8	4,445.7	4,446.2	4,446.7	4,446.5	4,445.5	4,446.0
12	4,446.2	4,446.1	4,446.1	4,446.4	4,446.9	4,446.8	4,445.8	4,446.2
13	4,446.2	4,446.1	4,446.1	4,446.3	4,446.9	4,446.8	4,445.8	4,446.2
14	4,446.2	4,446.1	4,446.1	4,446.3	4,446.9	4,446.8	4,445.8	4,446.2
15	4,446.2	4,446.1	4,446.2	4,446.3	4,446.9	4,446.9	4,445.8	4,446.2

  

<b>MIDDLE 2051 borehole</b>								
<b>Port No.</b>	<b>Atmospheric pressure (psia) corresponding to measurement event</b>							
	<b>04-15-2009</b>	<b>06-30-2009</b>	<b>09-02-2009</b>	<b>12-14-2009</b>	<b>04-02-2010</b>	<b>06-29-2010</b>	<b>09-30-2010</b>	<b>12-02-2010</b>
1	12.128	12.258	12.381	12.254	12.221	12.294	12.323	12.306
2	12.129	12.258	12.381	12.260	12.220	12.292	12.324	12.303
3	12.129	12.258	12.381	12.262	12.221	12.292	12.325	12.303
4	12.133	12.258	12.381	12.265	12.220	12.290	12.326	12.302
5	12.119	12.252	12.381	12.267	12.220	12.286	12.327	12.303
6	12.123	12.249	12.380	12.267	12.220	12.286	12.328	12.303
7	12.127	12.247	12.379	12.269	12.221	12.287	12.329	12.303
8	12.126	12.247	12.379	12.270	12.223	12.284	12.330	12.303
9	12.125	12.246	12.380	12.268	12.223	12.284	12.330	12.302
10	12.132	12.244	12.380	12.268	12.224	12.279	12.331	12.302
11	12.133	12.242	12.379	12.270	12.224	12.280	12.332	12.301
12	12.136	12.240	12.379	12.270	12.223	12.279	12.331	12.302

  

<b>MIDDLE 2051 borehole</b>								
<b>Port No.</b>	<b>Fluid temperature (°C) corresponding to measurement event</b>							
	<b>04-15-2009</b>	<b>06-30-2009</b>	<b>09-02-2009</b>	<b>12-14-2009</b>	<b>04-02-2010</b>	<b>06-29-2010</b>	<b>09-30-2010</b>	<b>12-02-2010</b>
1	14.9	15.1	15.1	14.9	14.9	15.0	15.1	15.2
2	15.0	15.0	15.1	15.0	15.0	15.0	15.2	15.2
3	15.0	15.0	15.0	15.0	15.0	15.0	15.2	15.1
4	14.7	14.7	14.7	14.8	14.8	14.8	14.9	14.9
5	13.5	13.5	13.5	13.6	13.6	13.6	13.7	13.8
6	13.3	13.4	13.4	13.4	13.5	13.4	13.5	13.6
7	13.4	13.4	13.3	13.4	13.4	13.4	13.5	13.6
8	13.3	13.3	13.3	13.3	13.4	13.3	13.5	13.5
9	13.1	13.1	13.1	13.0	13.1	13.1	13.3	13.4
10	11.4	11.4	11.4	11.6	11.6	11.5	11.7	11.9
11	10.6	10.6	10.7	10.8	10.9	10.7	10.9	11.1
12	10.4	10.4	10.4	10.5	10.7	10.5	10.6	10.9



**Appendix D.** Barometric pressure, water temperature, fluid pressure, and hydraulic head data from port measurements for boreholes USGS 103, USGS 105, USGS 108, USGS 132, USGS 133, USGS 134, USGS 135, MIDDLE 2050A, and MIDDLE 2051, Idaho National Laboratory, Idaho, 2009–10.—Continued

[Port No.: Identifier used to locate port couplings. **Hydraulic head** values in feet above National Geodetic Vertical Datum of 1929 (NGVD29). **Abbreviations:** °C, degrees Celsius; psi, pound per square inch; psia, pound per square inch absolute; ft, foot; –, no data]

MIDDLE 2051 borehole								
Port No.	Fluid pressure (psia) corresponding to measurement event							
	04-15-2009	06-30-2009	09-02-2009	12-14-2009	04-02-2010	06-29-2010	09-30-2010	12-02-2010
1	260.70	260.88	260.86	260.99	261.05	261.04	260.79	260.90
2	256.45	256.63	256.64	256.72	256.78	256.79	256.53	256.64
3	239.13	239.31	239.31	239.39	239.46	239.46	239.21	239.32
4	200.85	201.03	201.04	201.13	201.17	201.18	200.94	201.05
5	146.21	146.44	146.46	146.52	146.55	146.58	146.34	146.46
6	123.20	123.41	123.45	123.52	123.55	123.56	123.34	123.45
7	108.30	108.50	108.54	108.60	108.64	108.66	108.43	108.53
8	100.47	100.69	100.71	100.79	100.81	100.85	100.62	100.72
9	89.50	89.70	89.75	89.81	89.84	89.86	89.64	89.74
10	45.41	45.64	45.68	45.74	45.78	45.80	45.55	45.67
11	33.16	33.25	33.34	33.44	33.57	33.60	33.40	33.46
12	29.13	29.22	29.31	29.42	29.59	29.64	29.46	29.50

  

MIDDLE 2051 borehole								
Port No.	Hydraulic head (ft) corresponding to measurement event							
	04-15-2009	06-30-2009	09-02-2009	12-14-2009	04-02-2010	06-29-2010	09-30-2010	12-02-2010
1	4,429.6	4,429.7	4,429.4	4,430.0	4,430.2	4,430.0	4,429.4	4,429.7
2	4,429.6	4,429.7	4,429.4	4,429.9	4,430.1	4,430.0	4,429.3	4,429.6
3	4,429.6	4,429.7	4,429.4	4,429.9	4,430.1	4,430.0	4,429.3	4,429.6
4	4,429.5	4,429.6	4,429.4	4,429.9	4,430.1	4,429.9	4,429.3	4,429.6
5	4,426.2	4,426.4	4,426.2	4,426.6	4,426.8	4,426.7	4,426.0	4,426.4
6	4,426.2	4,426.4	4,426.2	4,426.6	4,426.8	4,426.6	4,426.0	4,426.4
7	4,426.2	4,426.4	4,426.1	4,426.5	4,426.7	4,426.6	4,426.0	4,426.3
8	4,426.1	4,426.4	4,426.1	4,426.5	4,426.7	4,426.7	4,426.0	4,426.3
9	4,426.2	4,426.4	4,426.2	4,426.6	4,426.8	4,426.7	4,426.1	4,426.3
10	4,426.2	4,426.4	4,426.2	4,426.6	4,426.8	4,426.7	4,426.0	4,426.4
11	4,432.4	4,432.3	4,432.2	4,432.7	4,433.1	4,433.0	4,432.5	4,432.7
12	4,433.0	4,432.9	4,432.8	4,433.3	4,433.8	4,433.8	4,433.3	4,433.4

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