Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 168-M15-01PT	20.76	07/24/07	USGS	P	52.2	5.05	185	M
FSW 168-M15-02GNT	10.76	07/24/07	USGS	P	117	5.28	265	M
FSW 168-M15-03RT	0.76	07/24/07	USGS	P	137	5.48	312	M
FSW 168-M15-05BKT	-9.24	07/24/07	USGS	P	80.7	5.69	189	M
FSW 168-M16-01PT	-13.12	07/24/07	USGS	P	83.8	5.82	82	M
FSW 168-M16-02GNT	-14.12	07/24/07	USGS	P	85.3	5.73	51	M
FSW 168-M15-06WT	-14.24	07/24/07	USGS	P	84.7	5.69	48	M
FSW 168-M16-03RT	-15.12	07/24/07	USGS	P	87.6	5.73	24	C
FSW 168-M16-04BUT	-16.12	07/24/07	USGS	P	86.0	5.70	45	M
FSW 168-M16-05BKT	-18.12	07/24/07	USGS	P	93.9	5.61	E 0.3	C
FSW 168-M16-06WT	-19.12	07/24/07	USGS	P	87.2	5.45	E 0.0	C
FSW 168-M15-07O	-19.24	07/24/07	USGS	P	83.9	5.41	3.9	C
FSW 168-M16-07O	-20.12	07/24/07	USGS	P	85.4	5.57	E 0.0	C
FSW 168-M16-08GY	-21.12	07/24/07	USGS	P	90.8	5.76	E 2.0	C
FSW 168-M16-09Y	-23.24	07/24/07	USGS	P	124	5.88	E 0.9	C
FSW 168-M16-10P	-24.24	07/24/07	USGS	P	140	6.09	E 0.0	C
FSW 168-M15-08GY	-24.24	07/24/07	USGS	P	138	6.03	E 0.3	C
FSW 168-M16-11GN	-25.24	07/24/07	USGS	P	143	6.21	E 0.0	C
FSW 168-M16-12R	-26.24	07/24/07	USGS	P	135	6.33	E 0.0	C
FSW 168-M16-13BU	-28.24	07/24/07	USGS	P	139	6.44	E 0.0	C
FSW 168-M16-14BK	-29.24	07/24/07	USGS	P	150	6.48	E 0.0	C
FSW 168-M15-09Y	-29.24	07/24/07	USGS	P	155	6.45	E 0.0	C
FSW 168-M16-15W	-30.24	07/24/07	USGS	P	158	6.53	E 0.3	C

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 168-M15-01PT	20.76	07/24/07	12.3	0.02	--
FSW 168-M15-02GNT	10.76	07/24/07	12.5	--	--
FSW 168-M15-03RT	0.76	07/24/07	14.2	0.07	--
FSW 168-M15-05BKT	-9.24	07/24/07	13.1	0.05	--
FSW 168-M16-01PT	-13.12	07/24/07	12.5	--	--
FSW 168-M16-02GNT	-14.12	07/24/07	11.8	0.05	--
FSW 168-M15-06WT	-14.24	07/24/07	13.0	--	--
FSW 168-M16-03RT	-15.12	07/24/07	11.8	--	--
FSW 168-M16-04BUT	-16.12	07/24/07	12.0	--	--
FSW 168-M16-05BKT	-18.12	07/24/07	11.9	--	--
FSW 168-M16-06WT	-19.12	07/24/07	11.8	--	--
FSW 168-M15-07O	-19.24	07/24/07	14.0	0.03	--
FSW 168-M16-07O	-20.12	07/24/07	12.1	--	--
FSW 168-M16-08GY	-21.12	07/24/07	12.8	--	--
FSW 168-M16-09Y	-23.24	07/24/07	11.9	--	--
FSW 168-M16-10P	-24.24	07/24/07	12.3	0.17	--
FSW 168-M15-08GY	-24.24	07/24/07	13.2	--	--
FSW 168-M16-11GN	-25.24	07/24/07	12.1	--	--
FSW 168-M16-12R	-26.24	07/24/07	12.2	--	--
FSW 168-M16-13BU	-28.24	07/24/07	12.3	--	--
FSW 168-M16-14BK	-29.24	07/24/07	12.1	--	--
FSW 168-M15-09Y	-29.24	07/24/07	12.9	0.31	--
FSW 168-M16-15W	-30.24	07/24/07	12.5	--	--

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 168-M15-10P	-34.24	07/24/07	USGS	P	146	6.46	E 0.0	C
FSW 168-M15-11GN	-39.24	07/24/07	USGS	P	137	6.45	E 0.0	C
FSW 168-M15-12R	-44.24	07/24/07	USGS	P	143	6.32	E 0.2	C
FSW 168-M15-14BK	-54.24	07/24/07	USGS	P	147	6.43	E 2.1	C
FSW 168-M15-15W	-59.24	07/24/07	USGS	P	129	6.38	E 0.0	C
FSW 230-0042	45.66	08/01/07	USGS	K	62.8	5.16	260	M
FSW 230-0048	42.80	08/01/07	USGS	K	74.9	5.33	123	M
FSW 230-0049	37.74	08/01/07	USGS	K	64.7	5.55	E 2.9	C
FSW 230-0058	28.93	08/01/07	USGS	K	132	5.30	118	M
FSW 230-0068	19.24	08/01/07	USGS	K	179	5.27	199	M
FSW 230-0078	9.52	08/01/07	USGS	K	97.5	5.53	222	M
FSW 230-0088	-0.68	08/01/07	USGS	K	91.6	5.55	242	M
FSW 230-0108	-21.02	08/01/07	USGS	K	104	5.57	271	M
FSW 230-0127	-40.33	08/01/07	USGS	K	107	5.37	286	M
FSW 236-0070	29.15	06/07/07	USGS	K	103	5.72	354	M
FSW 236-0089	10.16	06/07/07	USGS	K	103	5.56	327	M
FSW 236-0106	-6.40	06/07/07	USGS	K	103	5.56	302	M
FSW 236-0121	-21.61	06/07/07	USGS	K	102	5.49	303	M
FSW 236-0141	-42.21	06/07/07	USGS	K	114	5.64	307	M
FSW 239-M01-01PT	41.20	06/20/07	USGS	P	299	5.30	6.4	C

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 168-M15-10P	-34.24	07/24/07	12.3	--	--
FSW 168-M15-11GN	-39.24	07/24/07	12.2	0.25	--
FSW 168-M15-12R	-44.24	07/24/07	12.3	--	--
FSW 168-M15-14BK	-54.24	07/24/07	12.2	0.22	--
FSW 168-M15-15W	-59.24	07/24/07	12.2	0.17	--
FSW 230-0042	45.66	08/01/07	15.1	--	--
FSW 230-0048	42.80	08/01/07	15.0	--	--
FSW 230-0049	37.74	08/01/07	14.5	--	--
FSW 230-0058	28.93	08/01/07	16.0	--	--
FSW 230-0068	19.24	08/01/07	16.0	--	--
FSW 230-0078	9.52	08/01/07	14.5	--	--
FSW 230-0088	-0.68	08/01/07	14.8	--	--
FSW 230-0108	-21.02	08/01/07	14.4	--	--
FSW 230-0127	-40.33	08/01/07	14.0	--	--
FSW 236-0070	29.15	06/07/07	11.6	--	4.7
FSW 236-0089	10.16	06/07/07	11.3	--	E 1.1
FSW 236-0106	-6.40	06/07/07	11.3	--	E 1.6
FSW 236-0121	-21.61	06/07/07	11.3	--	E 2.6
FSW 236-0141	-42.21	06/07/07	11.4	--	E 2.1
FSW 239-M01-01PT	41.20	06/20/07	13.3	--	E 1.6

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 239-M01-02GNT	36.20	06/20/07	USGS	P	229	5.21	44	M
FSW 239-M01-03RT	31.20	06/20/07	USGS	P	120	5.24	109	M
FSW 239-M01-04BUT	26.23	06/20/07	USGS	P	57.6	5.69	273	M
FSW 239-M01-05BKT	21.23	06/20/07	USGS	P	62.9	6.43	343	M
FSW 239-M01-06WT	16.25	06/20/07	USGS	P	82.0	5.95	132	M
FSW 239-M01-07O	11.25	06/20/07	USGS	P	96.0	5.96	E 0.0	C
FSW 239-M01-08GY	6.28	06/20/07	USGS	P	117	5.90	E 1.1	C
FSW 239-M01-09Y	1.28	06/20/07	USGS	P	153	5.91	E 0.0	C
FSW 239-M01-10P	-8.70	06/20/07	USGS	P	156	5.93	E 0.0	C
FSW 239-M01-11GN	-18.69	06/20/07	USGS	P	151	5.86	E 0.4	C
FSW 239-M01-12R	-28.66	06/20/07	USGS	P	130	6.09	E 0.5	C
FSW 239-M01-13BU	-38.65	06/20/07	USGS	P	130	5.61	216	M
FSW 239-M01-14BK	-48.63	06/20/07	USGS	P	99.9	5.60	257	M
FSW 239-M01-15W	-58.62	06/20/07	USGS	P	57.4	5.58	303	M
FSW 239-0121	-68.56	06/20/07	USGS	K	105	6.21	5.6	C
FSW 244-0070	1.99	09/07/07	USGS	K	101	6.17	13	C
FSW 244-0090	-19.20	09/07/07	USGS	K	161	5.93	13	C
FSW 244-0119	-48.56	09/07/07	USGS	K	118	6.04	E 1.4	C
FSW 254-0026	31.45	08/08/07	USGS	P	136	5.13	247	M
FSW 254-0054	3.75	08/08/07	USGS	P	75.5	5.70	176	M
FSW 254-0072	-14.35	08/08/07	USGS	P	128	6.17	E 0.0	C

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 239-M01-02GNT	36.20	06/20/07	11.6	--	E 1.6
FSW 239-M01-03RT	31.20	06/20/07	11.4	--	E 1.6
FSW 239-M01-04BUT	26.23	06/20/07	11.4	--	E 1.6
FSW 239-M01-05BKT	21.23	06/20/07	11.7	--	E 2.1
FSW 239-M01-06WT	16.25	06/20/07	11.6	--	E 2.1
FSW 239-M01-07O	11.25	06/20/07	11.9	--	7.4
FSW 239-M01-08GY	6.28	06/20/07	12.2	--	4.2
FSW 239-M01-09Y	1.28	06/20/07	12.4	--	8.4
FSW 239-M01-10P	-8.70	06/20/07	12.0	--	E 2.6
FSW 239-M01-11GN	-18.69	06/20/07	11.8	--	E 0.5
FSW 239-M01-12R	-28.66	06/20/07	12.0	--	E 1.6
FSW 239-M01-13BU	-38.65	06/20/07	12.1	--	E 2.6
FSW 239-M01-14BK	-48.63	06/20/07	12.5	--	3.7
FSW 239-M01-15W	-58.62	06/20/07	11.9	--	5.8
FSW 239-0121	-68.56	06/20/07	12.0	--	18.4
FSW 244-0070	1.99	09/07/07	13.3	--	E 2.1
FSW 244-0090	-19.20	09/07/07	13.5	--	E 2.6
FSW 244-0119	-48.56	09/07/07	13.0	--	3.2
FSW 254-0026	31.45	08/08/07	15.7	0.04	--
FSW 254-0054	3.75	08/08/07	14.8	0.14	--
FSW 254-0072	-14.35	08/08/07	14.0	0.51	--

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 254-0107	-49.15	08/08/07	USGS	P	140	6.51	E 0.2	C
FSW 254-0140	-82.55	08/08/07	USGS	P	110	6.34	E 0.6	C
FSW 254-0168	-110.95	08/08/07	USGS	P	106	6.25	E 0.0	C
FSW 254-0216	-158.95	08/08/07	USGS	P	89.7	6.65	E 0.0	C
FSW 262-M01-02GNT	12.48	06/21/07	USGS	P	154	5.26	268	M
FSW 262-0041	6.80	06/28/07	USGS	P	188	5.29	284	M
FSW 262-M01-03RT	-2.51	06/21/07	USGS	P	275	5.42	304	M
FSW 262-M01-05BKT	-12.50	06/21/07	USGS	P	144	5.78	303	M
FSW 262-M01-06WT	-17.50	06/21/07	USGS	P	84.3	5.77	301	M
FSW 262-0069	-20.50	06/28/07	USGS	P	93.5	5.58	258	M
FSW 262-M01-07O	-22.48	06/21/07	USGS	P	79.4	5.65	73	M
FSW 262-M01-08GY	-27.48	06/21/07	USGS	P	122	6.41	E 0.4	C
FSW 262-M01-09Y	-32.50	06/21/07	USGS	P	143	6.57	E 0.1	C
FSW 262-0085	-36.80	06/28/07	USGS	P	165	6.53	E 0.0	C
FSW 262-M01-10P	-37.50	06/21/07	USGS	P	167	6.56	E 0.6	C
FSW 262-M01-11GN	-42.48	06/21/07	USGS	P	160	6.58	E 1.4	C
FSW 262-M01-12R	-47.48	06/21/07	USGS	P	159	6.60	E 0.7	C
FSW 262-0109	-60.90	06/28/07	USGS	P	120	6.51	E 0.0	C
FSW 262-M01-15W	-77.51	06/21/07	USGS	P	138	6.47	7.1	C
FSW 262-0126	-78.34	06/28/07	USGS	K	157	6.77	E 3.0	C
FSW 262-0159	-110.90	06/28/07	USGS	P	161	6.70	4.5	C

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 254-0107	-49.15	08/08/07	14.7	0.40	--
FSW 254-0140	-82.55	08/08/07	14.0	0.32	--
FSW 254-0168	-110.95	08/08/07	14.8	0.43	--
FSW 254-0216	-158.95	08/08/07	12.8	0.27	--
FSW 262-M01-02GNT	12.48	06/21/07	12.1	0.03	--
FSW 262-0041	6.80	06/28/07	13.8	--	--
FSW 262-M01-03RT	-2.51	06/21/07	12.0	--	--
FSW 262-M01-05BKT	-12.50	06/21/07	11.8	--	--
FSW 262-M01-06WT	-17.50	06/21/07	12.3	0.05	--
FSW 262-0069	-20.50	06/28/07	12.9	--	--
FSW 262-M01-07O	-22.48	06/21/07	11.8	--	--
FSW 262-M01-08GY	-27.48	06/21/07	12.3	0.31	--
FSW 262-M01-09Y	-32.50	06/21/07	12.0	--	--
FSW 262-0085	-36.80	06/28/07	14.5	--	--
FSW 262-M01-10P	-37.50	06/21/07	11.8	0.32	--
FSW 262-M01-11GN	-42.48	06/21/07	12.2	--	--
FSW 262-M01-12R	-47.48	06/21/07	12.7	0.32	--
FSW 262-0109	-60.90	06/28/07	13.0	--	--
FSW 262-M01-15W	-77.51	06/21/07	16.9	--	--
FSW 262-0126	-78.34	06/28/07	14.4	0.63	--
FSW 262-0159	-110.90	06/28/07	14.3	0.58	--

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 267-0088	-32.08	09/12/07	USGS	P	142	5.63	298	M
FSW 267-0111	-55.18	09/12/07	USGS	P	218	5.87	237	M
FSW 267-0136	-79.87	09/12/07	USGS	P	187	6.12	216	M
FSW 267-0155	-99.65	09/12/07	USGS	P	128	6.97	12	C
FSW 271-M01-01PT	13.19	08/14/07	USGS	P	46.3	4.68	96	M
FSW 271-M01-02GNT	3.16	08/14/07	USGS	P	43.8	5.33	332	M
FSW 271-M01-03RT	-6.86	08/14/07	USGS	P	48.6	5.20	358	M
FSW 271-M01-04BUT	-11.92	08/14/07	USGS	P	60.6	5.28	328	M
FSW 271-M01-05BKT	-16.92	08/14/07	USGS	P	72.6	5.30	328	M
FSW 271-M01-06WT	-21.95	08/14/07	USGS	P	100	5.33	318	M
FSW 271-M01-07O	-26.95	08/14/07	USGS	P	121	5.36	315	M
FSW 271-M01-08GY	-31.96	08/14/07	USGS	P	144	5.43	321	M
FSW 271-M01-09Y	-36.96	08/14/07	USGS	P	120	5.50	322	M
FSW 271-M01-10P	-41.90	08/14/07	USGS	P	113	5.52	3.6	C
FSW 271-M01-11GN	-46.90	08/14/07	USGS	P	101	5.76	E 0.0	C
FSW 271-M01-12R	-51.92	08/14/07	USGS	P	112	5.97	4.9	C
FSW 271-M01-13BU	-56.92	08/14/07	USGS	P	107	5.99	E 0.0	C
FSW 271-M01-14BK	-61.95	08/14/07	USGS	P	110	6.02	E 0.0	C
FSW 271-M01-15W	-66.95	08/14/07	USGS	P	124	5.95	E 0.0	C
FSW 271-0114	-77.52	08/15/07	USGS	K	119	5.90	E 0.0	C
FSW 271-0141	-104.16	08/15/07	USGS	P	150	6.10	E 1.7	C
FSW 271-0165	-128.53	08/15/07	USGS	P	151	6.74	E 0.5	C

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 267-0088	-32.08	09/12/07	14.7	--	--
FSW 267-0111	-55.18	09/12/07	13.6	--	--
FSW 267-0136	-79.87	09/12/07	13.5	--	--
FSW 267-0155	-99.65	09/12/07	12.9	--	--
FSW 271-M01-01PT	13.19	08/14/07	12.0	--	--
FSW 271-M01-02GNT	3.16	08/14/07	11.1	0.04	--
FSW 271-M01-03RT	-6.86	08/14/07	11.4	--	--
FSW 271-M01-04BUT	-11.92	08/14/07	12.3	0.04	--
FSW 271-M01-05BKT	-16.92	08/14/07	11.3	--	--
FSW 271-M01-06WT	-21.95	08/14/07	12.0	0.07	--
FSW 271-M01-07O	-26.95	08/14/07	11.4	--	--
FSW 271-M01-08GY	-31.96	08/14/07	12.2	0.06	--
FSW 271-M01-09Y	-36.96	08/14/07	12.3	--	--
FSW 271-M01-10P	-41.90	08/14/07	11.4	0.04	--
FSW 271-M01-11GN	-46.90	08/14/07	12.6	--	--
FSW 271-M01-12R	-51.92	08/14/07	12.5	0.14	--
FSW 271-M01-13BU	-56.92	08/14/07	11.8	--	--
FSW 271-M01-14BK	-61.95	08/14/07	11.8	0.16	--
FSW 271-M01-15W	-66.95	08/14/07	12.3		--
FSW 271-0114	-77.52	08/15/07	13.5	--	--
FSW 271-0141	-104.16	08/15/07	15.6	0.53	--
FSW 271-0165	-128.53	08/15/07	13.0	0.76	--

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 279-0061	20.85	08/24/07	USGS	K	150	5.42	65	M
FSW 279-0086	-4.55	09/19/07	USGS	K	95.5	6.00	73	M
FSW 279-0100 (30MW0586)	-17.97	09/19/07	USGS	K	92.4	6.19	3.6	C
FSW 279-0145 (03MW2623B)	-61.72	09/24/07	AFCEE	G	97.0	5.98	26	M
FSW 279-0308 (03MW2623A)	-224.52	09/24/07	AFCEE	G	158	6.50	22	M
FSW 282-0049	-0.42	08/15/07	USGS	P	217	5.44	206	M
FSW 282-0070	-21.75	08/15/07	USGS	P	65.7	5.89	269	M
FSW 282-0083	-35.52	08/15/07	USGS	K	307	5.97	4.6	C
FSW 282-0094	-45.85	08/15/07	USGS	P	117	6.15	E 0.0	C
FSW 282-0123	-74.64	08/15/07	USGS	P	124	6.19	3.9	C
FSW 294-0064	-26.84	08/29/07	USGS	K	142	5.31	249	M
FSW 294-0077	-40.05	08/29/07	USGS	K	151	5.67	199	M
FSW 294-0089	-52.17	08/29/07	USGS	P	155	5.92	126	M
FSW 294-0109	-71.43	08/29/07	USGS	K	158	6.16	E 1.7	C
FSW 300-M03-01PT	40.39	05/31/07	USGS	P	71.1	4.80	E 0.3	C
FSW 300-0010	38.30	09/12/07	AFCEE	G	68.0	5.29	168	M
FSW 300-M03-02GNT	37.39	05/31/07	USGS	P	76.5	5.22	193	M
FSW 300-M03-03RT	34.39	05/31/07	USGS	P	60.8	5.70	251	M
FSW 300-M03-04BUT	31.37	05/31/07	USGS	P	88.6	5.91	198	M

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 279-0061	20.85	08/24/07	13.9	--	--
FSW 279-0086	-4.55	09/19/07	13.6	--	--
FSW 279-0100 (30MW0586)	-17.97	09/19/07	13.7	--	--
FSW 279-0145 (03MW2623B)	-61.72	09/24/07	15.7	--	--
FSW 279-0308 (03MW2623A)	-224.52	09/24/07	14.1	--	--
FSW 282-0049	-0.42	08/15/07	14.5	--	--
FSW 282-0070	-21.75	08/15/07	14.7	--	--
FSW 282-0083	-35.52	08/15/07	15.5	--	--
FSW 282-0094	-45.85	08/15/07	12.7	--	--
FSW 282-0123	-74.64	08/15/07	14.7	--	--
FSW 294-0064	-26.84	08/29/07	12.4	--	--
FSW 294-0077	-40.05	08/29/07	12.5	--	--
FSW 294-0089	-52.17	08/29/07	12.9	--	--
FSW 294-0109	-71.43	08/29/07	13.1	--	--
FSW 300-M03-01PT	40.39	05/31/07	11.9	--	E 1.6
FSW 300-0010	38.30	09/12/07	17.2	--	--
FSW 300-M03-02GNT	37.39	05/31/07	11.3	--	E 2.1
FSW 300-M03-03RT	34.39	05/31/07	11.1	--	E 1.6
FSW 300-M03-04BUT	31.37	05/31/07	11.3	--	E 1.1

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 300-M03-05BKT	28.37	05/31/07	USGS	P	137	5.98	16	C
FSW 300-M03-06WT	26.37	05/31/07	USGS	P	184	6.00	12	C
FSW 300-M03-07O	24.37	05/31/07	USGS	P	199	6.06	E 0.0	C
FSW 300-M03-08GY	22.36	05/31/07	USGS	P	191	6.10	E 0.0	C
FSW 300-M03-09Y	20.36	05/31/07	USGS	P	187	6.15	E 0.0	C
FSW 300-0030	18.49	09/12/07	AFCEE	G	201	5.74	45	M
FSW 300-M03-10P	18.36	05/31/07	USGS	P	194	6.18	E 0.0	C
FSW 300-M03-11GN	16.36	05/31/07	USGS	P	238	6.17	E 0.0	C
FSW 300-M03-12R	14.36	05/31/07	USGS	P	254	6.15	E 0.8	C
FSW 300-M03-14BK	10.36	05/31/07	USGS	P	239	6.17	E 0.0	C
FSW 300-M03-15W	8.36	05/31/07	USGS	P	210	6.20	E 1.9	C
FSW 300-M02-01PT	7.12	05/31/07	USGS	P	206	6.07	E 0.0	C
FSW 300-M02-02GNT	5.12	05/31/07	USGS	P	190	5.87	4.2	C
FSW 300-M02-03RT	2.12	05/31/07	USGS	P	185	5.77	E 0.5	C
FSW 300-M02-04BUT	-0.89	05/31/07	USGS	P	191	5.65	33	M
FSW 300-0050	-2.18	09/12/07	AFCEE	G	221	5.25	57	M
FSW 300-M02-05BKT	-3.89	05/31/07	USGS	P	154	5.56	47	M
FSW 300-M02-06WT	-6.89	05/31/07	USGS	P	127	5.65	47	M
FSW 300-M02-07O	-9.90	05/31/07	USGS	P	123	5.62	189	M
FSW 300-M02-08GY	-12.90	05/31/07	USGS	P	92.7	5.67	168	M
FSW 300-M02-09Y	-16.90	05/31/07	USGS	P	80.7	5.55	194	M
FSW 300-M02-10P	-20.91	05/31/07	USGS	P	80.4	5.55	183	M
FSW 300-M02-11GN	-24.91	05/31/07	USGS	P	82.9	5.56	213	M

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 300-M03-05BKT	28.37	05/31/07	11.4	--	10.0
FSW 300-M03-06WT	26.37	05/31/07	11.7	--	39.5
FSW 300-M03-07O	24.37	05/31/07	11.4	--	42.1
FSW 300-M03-08GY	22.36	05/31/07	11.7	--	37.4
FSW 300-M03-09Y	20.36	05/31/07	12.1	--	37.9
FSW 300-0030	18.49	09/12/07	17.1	--	--
FSW 300-M03-10P	18.36	05/31/07	12.4	--	41.1
FSW 300-M03-11GN	16.36	05/31/07	11.9	--	44.2
FSW 300-M03-12R	14.36	05/31/07	11.9	--	37.4
FSW 300-M03-14BK	10.36	05/31/07	11.6	--	25.8
FSW 300-M03-15W	8.36	05/31/07	11.7	--	25.3
FSW 300-M02-01PT	7.12	05/31/07	11.6	--	17.4
FSW 300-M02-02GNT	5.12	05/31/07	12.0	--	16.3
FSW 300-M02-03RT	2.12	05/31/07	11.8	--	14.2
FSW 300-M02-04BUT	-0.89	05/31/07	12.0	--	10.5
FSW 300-0050	-2.18	09/12/07	14.9	--	--
FSW 300-M02-05BKT	-3.89	05/31/07	11.8	--	6.8
FSW 300-M02-06WT	-6.89	05/31/07	11.9	--	10.5
FSW 300-M02-07O	-9.90	05/31/07	11.8	--	10.0
FSW 300-M02-08GY	-12.90	05/31/07	11.8	--	10.5
FSW 300-M02-09Y	-16.90	05/31/07	12.1	--	8.4
FSW 300-M02-10P	-20.91	05/31/07	11.9	--	5.8
FSW 300-M02-11GN	-24.91	05/31/07	11.8	--	4.7

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 300-M02-12R	-28.91	05/31/07	USGS	P	78.0	5.56	214	M
FSW 300-M02-14BK	-43.00	05/31/07	USGS	P	70.1	5.65	261	M
FSW 300-0099	-51.52	05/31/07	USGS	K	71.6	5.75	307	M
FSW 300-M02-15W	-52.91	05/31/07	USGS	P	72.0	5.58	269	M
FSW 300-0118	-70.21	05/31/07	USGS	K	82.6	6.19	355	M
FSW 300-0138	-89.40	05/31/07	USGS	K	81.9	6.23	370	M
FSW 343-M03-01PT (1-19)	45.29	06/18/07	USGS	P	46.0	5.15	275	M
FSW 343-M03-02GNT (1-19)	44.46	06/18/07	USGS	P	52.6	5.25	142	M
FSW 343-M03-03RT (1-19)	43.63	06/18/07	USGS	P	50.3	5.54	163	M
FSW 343-M03-04BUT (1-19)	42.73	06/18/07	USGS	P	56.2	5.61	248	M
FSW 343-M03-05BKT (1-19)	41.89	06/18/07	USGS	P	64.7	5.57	191	M
FSW 343-M03-06WT (1-19)	41.06	06/18/07	USGS	P	71.9	5.60	125	M
FSW 343-M03-07O (1-19)	40.23	06/18/07	USGS	P	86.7	5.70	51	M
FSW 343-M03-08GY (1-19)	39.39	06/18/07	USGS	P	92.9	5.78	E 3.1	C
FSW 343-M03-09Y (1-19)	38.56	06/18/07	USGS	P	99.4	5.91	E 0.1	C
FSW 343-M03-10P (1-19)	37.73	06/18/07	USGS	P	101	5.91	E 0.4	C
FSW 343-M03-11GN (1-19)	36.89	06/18/07	USGS	P	102	5.95	E 0.0	C
FSW 343-M02-01PT	36.56	06/18/07	USGS	P	107	5.94	E 0.4	C
FSW 343-M03-12R (1-19)	36.06	06/18/07	USGS	P	104	5.98	E 0.0	C
FSW 343-M03-13BU (1-19)	35.23	06/18/07	USGS	P	105	5.96	E 0.0	C
FSW 343-M03-14BK (1-19)	34.39	06/18/07	USGS	P	105	6.01	E 0.5	C
FSW 343-M02-02GNT	33.56	06/18/07	USGS	P	102	6.11	E 0.0	C

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 300-M02-12R	-28.91	05/31/07	11.9	--	4.7
FSW 300-M02-14BK	-43.00	05/31/07	12.0	--	E 2.1
FSW 300-0099	-51.52	05/31/07	11.7	--	E 1.6
FSW 300-M02-15W	-52.91	05/31/07	11.9	--	E 0.5
FSW 300-0118	-70.21	05/31/07	11.5	--	E 1.6
FSW 300-0138	-89.40	05/31/07	11.4	--	E 1.6
FSW 343-M03-01PT (1-19)	45.29	06/18/07	10.4	0.01	E 1.6
FSW 343-M03-02GNT (1-19)	44.46	06/18/07	12.2	0.02	E 1.1
FSW 343-M03-03RT (1-19)	43.63	06/18/07	12.0	--	E 2.1
FSW 343-M03-04BUT (1-19)	42.73	06/18/07	12.1	--	26.3
FSW 343-M03-05BKT (1-19)	41.89	06/18/07	12.4	--	42.1
FSW 343-M03-06WT (1-19)	41.06	06/18/07	12.1	--	49.5
FSW 343-M03-07O (1-19)	40.23	06/18/07	12.4	--	51.1
FSW 343-M03-08GY (1-19)	39.39	06/18/07	12.2	--	53.2
FSW 343-M03-09Y (1-19)	38.56	06/18/07	12.6	--	52.1
FSW 343-M03-10P (1-19)	37.73	06/18/07	12.2	--	51.6
FSW 343-M03-11GN (1-19)	36.89	06/18/07	12.6	0.21	50.5
FSW 343-M02-01PT	36.56	06/18/07	11.8	--	46.9
FSW 343-M03-12R (1-19)	36.06	06/18/07	12.4	--	46.3
FSW 343-M03-13BU (1-19)	35.23	06/18/07	12.0	--	42.6
FSW 343-M03-14BK (1-19)	34.39	06/18/07	12.2	--	44.8
FSW 343-M02-02GNT	33.56	06/18/07	12.3	--	42.1

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 343-M03-15W (1-19)	33.56	06/18/07	USGS	P	106	6.05	E 0.0	C
FSW 343-M02-03RT	30.56	06/18/07	USGS	P	101	6.09	E 0.4	C
FSW 343-M02-05BKT	24.56	06/18/07	USGS	P	144	6.04	E 1.0	C
FSW 343-M02-06WT	21.56	06/18/07	USGS	P	182	5.88	E 0.7	C
FSW 343-M02-07O	18.56	06/18/07	USGS	P	153	5.92	E 1.2	C
FSW 343-M02-08GY	15.56	06/18/07	USGS	P	137	5.96	E 0.9	C
FSW 343-M02-09Y	12.56	06/18/07	USGS	P	173	5.97	E 0.7	C
FSW 343-M02-10P	9.56	06/18/07	USGS	P	138	6.39	E 0.0	C
FSW 343-M02-11GN	6.56	06/18/07	USGS	P	132	6.48	E 0.0	C
FSW 343-M02-12R	3.56	06/18/07	USGS	P	137	6.24	E 0.0	C
FSW 343-M02-14BK	-2.44	06/18/07	USGS	P	137	6.45	E 0.0	C
FSW 343-M02-15W	-5.44	06/18/07	USGS	P	112	6.06	E 0.0	C
FSW 343-M01-01PT	-5.47	06/18/07	USGS	P	136	6.30	E 0.0	C
FSW 343-M01-02GNT	-10.47	06/18/07	USGS	P	132	6.08	E 0.0	C
FSW 343-M01-03RT	-15.47	06/18/07	USGS	P	150	5.85	172	M
FSW 343-M01-05BKT	-25.47	06/18/07	USGS	P	165	5.75	267	M
FSW 343-M01-06WT	-30.47	06/18/07	USGS	P	161	5.69	282	M
FSW 343-M01-07O	-35.47	06/18/07	USGS	P	171	5.59	273	M
FSW 343-M01-08GY	-40.47	06/18/07	USGS	P	174	5.50	273	M
FSW 343-M01-09Y	-43.47	06/18/07	USGS	P	158	5.52	262	M
FSW 343-M01-10P	-46.47	06/18/07	USGS	P	109	5.63	281	M
FSW 343-M01-11GN	-49.47	06/18/07	USGS	P	91.4	5.63	270	M
FSW 343-M01-12R	-52.47	06/18/07	USGS	P	65.8	5.70	294	M

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 343-M03-15W (1-19)	33.56	06/18/07	12.3	0.28	37.4
FSW 343-M02-03RT	30.56	06/18/07	12.5	0.30	39.5
FSW 343-M02-05BKT	24.56	06/18/07	12.3	0.31	40.0
FSW 343-M02-06WT	21.56	06/18/07	12.5	0.27	34.7
FSW 343-M02-07O	18.56	06/18/07	13.2	0.32	36.3
FSW 343-M02-08GY	15.56	06/18/07	12.4	0.34	40.5
FSW 343-M02-09Y	12.56	06/18/07	12.6	--	56.3
FSW 343-M02-10P	9.56	06/18/07	12.7	0.54	55.3
FSW 343-M02-11GN	6.56	06/18/07	12.4	--	88.4
FSW 343-M02-12R	3.56	06/18/07	12.4	0.33	60.0
FSW 343-M02-14BK	-2.44	06/18/07	12.4	--	36.9
FSW 343-M02-15W	-5.44	06/18/07	12.7	0.23	21.6
FSW 343-M01-01PT	-5.47	06/18/07	13.1	--	35.8
FSW 343-M01-02GNT	-10.47	06/18/07	13.3	0.19	3.2
FSW 343-M01-03RT	-15.47	06/18/07	12.7	0.10	E 1.6
FSW 343-M01-05BKT	-25.47	06/18/07	12.3	--	E 2.1
FSW 343-M01-06WT	-30.47	06/18/07	12.6	0.05	E 2.1
FSW 343-M01-07O	-35.47	06/18/07	12.5	--	3.2
FSW 343-M01-08GY	-40.47	06/18/07	12.8	--	3.2
FSW 343-M01-09Y	-43.47	06/18/07	12.4	--	E 2.6
FSW 343-M01-10P	-46.47	06/18/07	12.4	0.06	5.3
FSW 343-M01-11GN	-49.47	06/18/07	12.5	--	7.4
FSW 343-M01-12R	-52.47	06/18/07	12.7	--	8.4

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 343-M01-14BK	-58.47	06/18/07	USGS	P	61.9	5.75	298	M
FSW 343-M01-15W	-61.47	06/18/07	USGS	P	54.8	5.73	280	M
FSW 343-0145	-74.81	06/19/07	USGS	K	54.4	5.78	374	M
FSW 347-M01-01PT	41.58	05/15/07	USGS	P	35.4	5.05	343	M
FSW 347-M01-02GNT	39.68	05/15/07	USGS	P	57.6	5.28	312	M
FSW 347-M01-03RT	37.78	05/15/07	USGS	P	63.1	5.55	313	M
FSW 347-M01-04BUT	35.88	05/15/07	USGS	P	60.8	5.63	256	M
FSW 347-M01-05BKT	33.93	05/15/07	USGS	P	78.1	5.77	83	M
FSW 347-M01-06WT	32.03	05/15/07	USGS	P	83.0	5.77	54	M
FSW 347-M01-07O	30.13	05/15/07	USGS	P	105	5.82	E 0.8	C
FSW 347-M01-08GY	28.23	05/15/07	USGS	P	115	5.98	E 0.9	C
FSW 347-M01-09Y	26.33	05/15/07	USGS	P	121	6.02	E 0.0	C
FSW 347-M01-10P	24.45	05/15/07	USGS	P	133	6.10	E 0.0	C
FSW 347-M01-11GN	22.55	05/15/07	USGS	P	133	6.05	E 0.0	C
FSW 347-M01-12R	20.65	05/15/07	USGS	P	133	6.02	E 0.0	C
FSW 347-M06-01PT	19.93	05/15/07	USGS	P	125	6.06	E 0.8	C
FSW 347-M01-13BU	18.75	05/15/07	USGS	P	125	5.96	E 0.1	C
FSW 347-M01-14BK	16.85	05/15/07	USGS	P	120	5.95	E 0.0	C
FSW 347-M01-15W	14.95	05/15/07	USGS	P	119	5.96	E 0.0	C
FSW 347-M06-02GNT	14.93	05/15/07	USGS	P	120	6.03	E 0.2	C
FSW 347-M06-03RT	9.93	05/15/07	USGS	P	132	6.00	E 0.5	C
FSW 347-M06-05BKT	-0.06	05/15/07	USGS	P	164	6.44	E 0.0	C

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 343-M01-14BK	-58.47	06/18/07	12.5	--	8.4
FSW 343-M01-15W	-61.47	06/18/07	12.9	0.07	11.1
FSW 343-0145	-74.81	06/19/07	13.5	--	12.6
FSW 347-M01-01PT	41.58	05/15/07	10.2	--	E 0.0
FSW 347-M01-02GNT	39.68	05/15/07	10.6	--	E 0.0
FSW 347-M01-03RT	37.78	05/15/07	10.9	--	E 0.2
FSW 347-M01-04BUT	35.88	05/15/07	10.9	--	E 2.0
FSW 347-M01-05BKT	33.93	05/15/07	11.2	--	4.0
FSW 347-M01-06WT	32.03	05/15/07	11.4	--	4.7
FSW 347-M01-07O	30.13	05/15/07	11.4	--	5.3
FSW 347-M01-08GY	28.23	05/15/07	11.7	--	5.7
FSW 347-M01-09Y	26.33	05/15/07	11.8	--	5.0
FSW 347-M01-10P	24.45	05/15/07	11.6	--	5.8
FSW 347-M01-11GN	22.55	05/15/07	11.9	--	5.1
FSW 347-M01-12R	20.65	05/15/07	11.5	--	33.7
FSW 347-M06-01PT	19.93	05/15/07	11.2	--	28.4
FSW 347-M01-13BU	18.75	05/15/07	11.4	--	27.4
FSW 347-M01-14BK	16.85	05/15/07	11.2	--	20.5
FSW 347-M01-15W	14.95	05/15/07	11.2	--	14.7
FSW 347-M06-02GNT	14.93	05/15/07	11.4	--	11.1
FSW 347-M06-03RT	9.93	05/15/07	11.3	--	E 1.6
FSW 347-M06-05BKT	-0.06	05/15/07	11.2	--	52.6

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 347-M06-06WT	-5.08	05/15/07	USGS	P	164	6.59	E 0.0	C
FSW 347-M06-07O	-10.08	05/15/07	USGS	P	157	6.71	E 0.0	C
FSW 347-M06-08GY	-15.11	05/15/07	USGS	P	214	6.34	E 0.0	C
FSW 347-M06-09Y	-20.11	05/15/07	USGS	P	215	6.29	E 0.0	C
FSW 347-M06-10P	-25.15	05/15/07	USGS	P	245	5.27	65	M
FSW 347-M06-11GN	-30.15	05/15/07	USGS	P	224	5.36	148	M
FSW 347-M06-12R	-35.13	05/15/07	USGS	P	215	5.46	224	M
FSW 347-M06-14BK	-45.13	05/15/07	USGS	P	241	5.60	267	M
FSW 347-M06-15W	-50.13	05/15/07	USGS	P	304	5.38	283	M
FSW 350-M01-01PT	27.27	08/13/07	USGS	P	47.1	4.78	187	M
FSW 350-M01-02GNT	17.30	08/13/07	USGS	P	48.3	4.76	303	M
FSW 350-M01-03RT	7.31	08/13/07	USGS	P	46.8	5.13	296	M
FSW 350-M01-04BUT	-2.69	08/13/07	USGS	P	104	5.76	261	M
FSW 350-M01-05BKT	-12.70	08/13/07	USGS	P	133	5.62	296	M
FSW 350-M01-06WT	-22.70	08/13/07	USGS	P	84.0	5.70	E 1.2	C
FSW 350-M01-07O	-27.66	08/13/07	USGS	P	111	6.14	3.3	C
FSW 350-M01-08GY	-32.66	08/13/07	USGS	P	124	6.17	E 0.0	C
FSW 350-M01-09Y	-37.67	08/13/07	USGS	P	130	6.21	E 0.2	C
FSW 350-M01-10P	-42.67	08/13/07	USGS	P	126	6.20	4.6	C
FSW 350-M01-11GN	-47.69	08/13/07	USGS	P	118	6.35	7.8	C
FSW 350-M01-12R	-52.69	08/13/07	USGS	P	117	6.24	E 0.0	C
FSW 350-M01-13BU	-57.71	08/13/07	USGS	P	120	6.29	4.5	C

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 347-M06-06WT	-5.08	05/15/07	11.3	--	49.0
FSW 347-M06-07O	-10.08	05/15/07	11.3	--	52.6
FSW 347-M06-08GY	-15.11	05/15/07	11.3	--	20.0
FSW 347-M06-09Y	-20.11	05/15/07	11.4	--	17.4
FSW 347-M06-10P	-25.15	05/15/07	11.6	--	E 1.6
FSW 347-M06-11GN	-30.15	05/15/07	12.2	--	4.7
FSW 347-M06-12R	-35.13	05/15/07	12.8	--	3.2
FSW 347-M06-14BK	-45.13	05/15/07	12.7	--	4.2
FSW 347-M06-15W	-50.13	05/15/07	16.2	--	3.2
FSW 350-M01-01PT	27.27	08/13/07	17.2	--	--
FSW 350-M01-02GNT	17.30	08/13/07	15.1	--	--
FSW 350-M01-03RT	7.31	08/13/07	14.0	0.01	--
FSW 350-M01-04BUT	-2.69	08/13/07	16.2	--	--
FSW 350-M01-05BKT	-12.70	08/13/07	17.3	0.09	--
FSW 350-M01-06WT	-22.70	08/13/07	14.7	--	--
FSW 350-M01-07O	-27.66	08/13/07	14.3	0.18	--
FSW 350-M01-08GY	-32.66	08/13/07	13.8	--	--
FSW 350-M01-09Y	-37.67	08/13/07	13.1	0.28	--
FSW 350-M01-10P	-42.67	08/13/07	16.3	--	--
FSW 350-M01-11GN	-47.69	08/13/07	15.6	0.24	--
FSW 350-M01-12R	-52.69	08/13/07	13.5	--	--
FSW 350-M01-13BU	-57.71	08/13/07	13.7	0.28	--

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 350-M01-14BK	-62.71	08/13/07	USGS	P	128	6.32	E 2.4	C
FSW 350-0110	-71.46	08/14/07	USGS	K	134	6.16	E 0.0	C
FSW 350-M01-15W	-72.71	08/13/07	USGS	P	136	6.28	E 0.0	C
FSW 350-0125	-86.30	08/14/07	USGS	K	134	6.35	5.6	C
FSW 350-0140	-100.23	08/14/07	USGS	K	129	6.56	3.2	C
FSW 355-0079	-6.87	09/11/07	USGS	K	101	5.79	340	M
FSW 355-0104	-30.86	09/11/07	USGS	K	118	6.38	10	C
FSW 355-0149	-76.67	09/11/07	USGS	K	104	6.77	6.6	C
FSW 356-0079	-13.18	09/06/07	USGS	K	109	5.33	279	M
FSW 356-0108	-42.51	09/06/07	USGS	K	133	6.05	E 1.8	C
FSW 356-0134	-67.78	09/06/07	USGS	K	152	6.17	3.7	C
FSW 357-0079	-7.23	09/06/07	USGS	K	64.2	5.84	348	M
FSW 357-0099	-27.25	09/06/07	USGS	K	109	5.59	324	M
FSW 357-0119	-47.75	09/06/07	USGS	K	135	5.89	322	M
FSW 357-0139	-67.88	09/06/07	USGS	K	189	6.13	34	M
FSW 358-0089	-13.81	09/11/07	USGS	K	149	5.88	215	M
FSW 358-0104	-28.87	09/11/07	USGS	K	150	5.86	259	M
FSW 358-0119	-44.58	09/11/07	USGS	K	156	5.90	204	M
FSW 358-0132	-56.98	09/11/07	USGS	K	158	5.97	198	M

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 350-M01-14BK	-62.71	08/13/07	13.3	--	--
FSW 350-0110	-71.46	08/14/07	13.0	0.40	--
FSW 350-M01-15W	-72.71	08/13/07	13.4	--	--
FSW 350-0125	-86.30	08/14/07	13.4	--	--
FSW 350-0140	-100.23	08/14/07	14.2	0.60	--
FSW 355-0079	-6.87	09/11/07	14.1	--	--
FSW 355-0104	-30.86	09/11/07	13.5	--	--
FSW 355-0149	-76.67	09/11/07	13.8	--	--
FSW 356-0079	-13.18	09/06/07	11.8	--	--
FSW 356-0108	-42.51	09/06/07	11.9	--	--
FSW 356-0134	-67.78	09/06/07	11.9	--	--
FSW 357-0079	-7.23	09/06/07	12.0	--	--
FSW 357-0099	-27.25	09/06/07	11.9	--	--
FSW 357-0119	-47.75	09/06/07	11.7	--	--
FSW 357-0139	-67.88	09/06/07	11.7	--	--
FSW 358-0089	-13.81	09/11/07	14.0	--	--
FSW 358-0104	-28.87	09/11/07	13.9	--	--
FSW 358-0119	-44.58	09/11/07	14.2	--	--
FSW 358-0132	-56.98	09/11/07	14.9	--	--

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[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 359-0050	21.01	09/06/07	USGS	K	46.2	5.26	372	M
FSW 359-0088	-17.04	09/06/07	USGS	K	194	5.31	138	M
FSW 359-0107	-35.65	09/06/07	USGS	K	415	5.21	153	M
FSW 359-0119	-48.37	09/06/07	USGS	K	203	5.43	37	M
FSW 359-0141	-69.26	09/06/07	USGS	K	160	5.36	52	M
FSW 375-0015	15.65	07/10/07	USGS	K	98.9	5.09	E 0.3	C
FSW 375-0041	-10.70	07/10/07	USGS	K	84.0	4.86	3.2	C
FSW 375-0055	-24.81	07/10/07	USGS	K	78.4	5.14	7.1	C
FSW 375-0071	-40.74	07/10/07	USGS	K	155	6.21	6.5	C
FSW 375-0081	-50.45	07/10/07	USGS	K	144	5.98	28	C
FSW 375-0099	-68.26	07/10/07	USGS	K	125	5.78	3.2	C
FSW 375-0119	-88.56	07/10/07	USGS	K	103	6.78	3.9	C
FSW 379-M01-01PT	45.77	05/14/07	USGS	P	59.6	5.42	294	M
FSW 379-M01-02GNT	37.77	05/14/07	USGS	P	61.5	5.37	4.2	C
FSW 379-M01-03RT	29.77	05/14/07	USGS	P	189	5.71	E 0.5	C
FSW 379-M01-04BUT	21.77	05/14/07	USGS	P	179	5.49	205	M
FSW 379-M01-05BKT	13.77	05/14/07	USGS	P	207	5.76	E 0.0	C
FSW 379-M01-06WT	5.74	05/14/07	USGS	P	172	6.48	E 0.0	C
FSW 379-M01-07O	-2.28	05/14/07	USGS	P	246	6.52	E 0.0	C
FSW 379-M01-08GY	-10.28	05/14/07	USGS	P	257	6.57	E 0.0	C

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 359-0050	21.01	09/06/07	11.4	--	--
FSW 359-0088	-17.04	09/06/07	11.6	--	--
FSW 359-0107	-35.65	09/06/07	11.0	--	--
FSW 359-0119	-48.37	09/06/07	11.6	--	--
FSW 359-0141	-69.26	09/06/07	11.3	--	--
FSW 375-0015	15.65	07/10/07	18.6	0.04	--
FSW 375-0041	-10.70	07/10/07	13.7	0.01	--
FSW 375-0055	-24.81	07/10/07	13.0	0.08	--
FSW 375-0071	-40.74	07/10/07	14.7	0.59	--
FSW 375-0081	-50.45	07/10/07	14.4	0.60	--
FSW 375-0099	-68.26	07/10/07	14.7	0.46	--
FSW 375-0119	-88.56	07/10/07	12.8	0.49	--
FSW 379-M01-01PT	45.77	05/14/07	10.7	--	E 0.5
FSW 379-M01-02GNT	37.77	05/14/07	11.1	--	6.3
FSW 379-M01-03RT	29.77	05/14/07	11.4	--	39.0
FSW 379-M01-04BUT	21.77	05/14/07	11.7	--	5.3
FSW 379-M01-05BKT	13.77	05/14/07	11.4	--	22.6
FSW 379-M01-06WT	5.74	05/14/07	11.4	--	115.8
FSW 379-M01-07O	-2.28	05/14/07	11.4	--	100.0
FSW 379-M01-08GY	-10.28	05/14/07	11.5	--	61.1

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 379-M01-09Y	-18.28	05/14/07	USGS	P	179	6.50	E 0.0	C
FSW 379-M01-10P	-26.29	05/14/07	USGS	P	189	6.45	E 0.0	C
FSW 379-M01-11GN	-34.32	05/14/07	USGS	P	170	5.45	8.4	C
FSW 379-M01-12R	-42.34	05/14/07	USGS	P	236	5.46	221	M
FSW 379-M01-13BU	-50.33	05/14/07	USGS	P	217	5.73	E 0.0	C
FSW 379-M01-14BK	-58.33	05/14/07	USGS	P	165	5.52	162	M
FSW 379-M01-15W	-66.35	05/14/07	USGS	P	137	5.57	202	M
FSW 383-0023	42.56	07/27/07	USGS	K	49.2	5.63	336	M
FSW 383-0030	35.78	07/27/07	USGS	K	89.5	5.66	281	M
FSW 383-0032	32.55	07/27/07	USGS	K	95.4	5.69	228	M
FSW 383-0040	25.18	07/27/07	USGS	K	102	5.81	6.9	C
FSW 383-0061	4.79	07/27/07	USGS	K	124	5.79	62	M
FSW 383-0082	-17.08	07/27/07	USGS	K	134	5.51	192	M
FSW 383-0106	-40.73	07/27/07	USGS	K	183	5.41	293	M
FSW 383-0129	-63.06	07/27/07	USGS	K	100	5.44	299	M
FSW 388-M01-01PT	43.16	07/26/07	USGS	P	48.6	4.70	261	M
FSW 388-M01-02GNT	39.14	07/26/07	USGS	P	47.9	4.78	227	M
FSW 388-M01-03RT	35.14	07/26/07	USGS	P	72.2	5.59	269	M
FSW 388-0037	33.18	09/24/07	AFCEE	G	134	5.64	53	M
FSW 388-M01-04BUT	31.14	07/26/07	USGS	P	105	5.81	148	M
FSW 388-M01-05BKT	27.14	07/26/07	USGS	P	220	5.73	E 1.6	C

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 379-M01-09Y	-18.28	05/14/07	11.5	--	60.0
FSW 379-M01-10P	-26.29	05/14/07	11.7	--	41.1
FSW 379-M01-11GN	-34.32	05/14/07	11.6	--	4.2
FSW 379-M01-12R	-42.34	05/14/07	11.7	--	4.2
FSW 379-M01-13BU	-50.33	05/14/07	11.3	--	37.4
FSW 379-M01-14BK	-58.33	05/14/07	11.9	--	6.3
FSW 379-M01-15W	-66.35	05/14/07	12.2	--	6.3
FSW 383-0023	42.56	07/27/07	14.5	--	--
FSW 383-0030	35.78	07/27/07	14.3	--	--
FSW 383-0032	32.55	07/27/07	15.0	--	--
FSW 383-0040	25.18	07/27/07	14.8	--	--
FSW 383-0061	4.79	07/27/07	14.3	--	--
FSW 383-0082	-17.08	07/27/07	14.8	--	--
FSW 383-0106	-40.73	07/27/07	14.2	--	--
FSW 383-0129	-63.06	07/27/07	13.4	--	--
FSW 388-M01-01PT	43.16	07/26/07	11.7	--	E 1.1
FSW 388-M01-02GNT	39.14	07/26/07	12.0	--	E 0.0
FSW 388-M01-03RT	35.14	07/26/07	12.6	--	14.7
FSW 388-0037	33.18	09/24/07	14.2	--	--
FSW 388-M01-04BUT	31.14	07/26/07	12.6	--	43.7
FSW 388-M01-05BKT	27.14	07/26/07	12.5	--	44.8

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 388-M01-06WT	23.14	07/26/07	USGS	P	199	5.80	15	C
FSW 388-M01-07O	19.13	07/26/07	USGS	P	191	5.84	E 0.7	C
FSW 388-M01-08GY	15.13	07/26/07	USGS	P	158	5.98	E 1.2	C
FSW 388-M01-09Y	11.13	07/26/07	USGS	P	178	6.14	4.1	C
FSW 388-M01-10P	7.09	07/26/07	USGS	P	223	6.16	E 1.7	C
FSW 388-M01-11GN	4.09	07/26/07	USGS	P	219	6.05	5.3	C
FSW 388-M01-12R	1.09	07/26/07	USGS	P	203	6.09	E 0.5	C
FSW 388-0072	-2.39	09/24/07	AFCEE	G	268	5.94	142	M
FSW 388-M01-14BK	-4.93	07/26/07	USGS	P	160	6.13	E 1.5	C
FSW 388-M01-15W	-7.93	07/26/07	USGS	P	142	6.11	E 2.2	C
FSW 388-M02-01PT	-10.80	07/26/07	USGS	P	154	6.03	E 2.5	C
FSW 388-M02-02GNT	-13.80	07/26/07	USGS	P	143	6.02	4.7	C
FSW 388-M02-03RT	-16.80	07/26/07	USGS	P	137	5.91	61	M
FSW 388-M02-04BUT	-20.84	07/26/07	USGS	P	127	5.70	150	M
FSW 388-M02-05BKT	-24.84	07/26/07	USGS	P	144	5.65	221	M
FSW 388-M02-06WT	-28.84	07/26/07	USGS	P	116	5.67	213	M
FSW 388-M02-07O	-32.88	07/26/07	USGS	P	87.6	5.63	232	M
FSW 388-M02-08GY	-36.88	07/26/07	USGS	P	74.4	5.66	209	M
FSW 388-M02-09Y	-40.88	07/26/07	USGS	P	74.9	5.71	225	M
FSW 388-M02-10P	-44.91	07/26/07	USGS	P	74.3	5.70	234	M
FSW 388-M02-11GN	-48.91	07/26/07	USGS	P	71.8	5.64	243	M
FSW 388-M02-12R	-52.95	07/26/07	USGS	P	71.0	5.56	228	M
FSW 388-M02-13BU	-56.95	07/26/07	USGS	P	71.8	5.57	223	M

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 388-M01-06WT	23.14	07/26/07	12.7	--	52.6
FSW 388-M01-07O	19.13	07/26/07	12.5	--	43.2
FSW 388-M01-08GY	15.13	07/26/07	12.9	--	44.8
FSW 388-M01-09Y	11.13	07/26/07	13.1	--	27.4
FSW 388-M01-10P	7.09	07/26/07	13.5	--	49.0
FSW 388-M01-11GN	4.09	07/26/07	13.2	--	55.3
FSW 388-M01-12R	1.09	07/26/07	12.9	--	38.4
FSW 388-0072	-2.39	09/24/07	15.5	--	--
FSW 388-M01-14BK	-4.93	07/26/07	13.5	--	57.4
FSW 388-M01-15W	-7.93	07/26/07	13.9	--	41.6
FSW 388-M02-01PT	-10.80	07/26/07	12.7	--	40.5
FSW 388-M02-02GNT	-13.80	07/26/07	13.3	--	42.1
FSW 388-M02-03RT	-16.80	07/26/07	13.0	--	30.0
FSW 388-M02-04BUT	-20.84	07/26/07	13.2	--	15.8
FSW 388-M02-05BKT	-24.84	07/26/07	13.4	--	10.5
FSW 388-M02-06WT	-28.84	07/26/07	13.0	--	12.1
FSW 388-M02-07O	-32.88	07/26/07	13.3	--	11.6
FSW 388-M02-08GY	-36.88	07/26/07	13.5	--	11.1
FSW 388-M02-09Y	-40.88	07/26/07	13.1	--	9.0
FSW 388-M02-10P	-44.91	07/26/07	13.7	--	7.4
FSW 388-M02-11GN	-48.91	07/26/07	13.7	--	3.2
FSW 388-M02-12R	-52.95	07/26/07	13.5	--	E 1.6
FSW 388-M02-13BU	-56.95	07/26/07	14.2	--	3.2

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 388-M02-14BK	-60.96	07/26/07	USGS	P	74.2	5.57	212	M
FSW 388-M02-15W	-64.96	07/26/07	USGS	P	76.0	5.56	212	M
FSW 411-0036	17.96	08/21/07	USGS	K	133	4.86	177	M
FSW 411-0054	-0.86	08/21/07	USGS	K	71.6	5.40	159	M
FSW 411-0065	-12.05	08/21/07	USGS	K	173	6.17	5.6	C
FSW 411-0081	-28.02	08/21/07	USGS	K	143	6.12	E 1.6	C
FSW 411-0094	-41.19	08/21/07	USGS	K	162	6.12	E 1.2	C
FSW 411-0106	-51.91	08/21/07	USGS	K	129	6.29	4.0	C
FSW 411-0122	-68.59	08/21/07	USGS	K	121	7.06	14	C
FSW 412-0042	4.90	09/05/07	USGS	K	152	5.66	234	M
FSW 412-0064	-17.63	09/05/07	USGS	K	153	5.65	193	M
FSW 412-0078	-31.61	09/05/07	USGS	K	154	5.72	227	M
FSW 412-0091	-45.15	09/05/07	USGS	K	154	5.64	125	M
FSW 412-0108	-62.24	09/05/07	USGS	K	142	5.24	105	M
FSW 418-0049	25.69	09/11/07	USGS	K	44.2	5.63	366	M
FSW 418-0089	-13.96	09/11/07	USGS	K	74.5	5.65	145	M
FSW 418-0103	-28.69	09/11/07	USGS	K	160	6.02	38	M
FSW 418-0122	-47.06	09/11/07	USGS	K	143	6.28	98	M
FSW 418-0141	-65.74	09/11/07	USGS	K	127	6.43	120	M

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 388-M02-14BK	-60.96	07/26/07	14.1	--	3.2
FSW 388-M02-15W	-64.96	07/26/07	14.9	--	E 2.1
FSW 411-0036	17.96	08/21/07	12.1	0.05	--
FSW 411-0054	-0.86	08/21/07	12.3	0.05	--
FSW 411-0065	-12.05	08/21/07	12.4	0.34	--
FSW 411-0081	-28.02	08/21/07	12.4	0.17	--
FSW 411-0094	-41.19	08/21/07	12.7	0.24	--
FSW 411-0106	-51.91	08/21/07	12.4	0.43	--
FSW 411-0122	-68.59	08/21/07	13.2	0.55	--
FSW 412-0042	4.90	09/05/07	11.7	--	--
FSW 412-0064	-17.63	09/05/07	12.5	--	--
FSW 412-0078	-31.61	09/05/07	12.5	--	--
FSW 412-0091	-45.15	09/05/07	12.3	--	--
FSW 412-0108	-62.24	09/05/07	12.2	--	--
FSW 418-0049	25.69	09/11/07	12.8	--	--
FSW 418-0089	-13.96	09/11/07	12.7	--	--
FSW 418-0103	-28.69	09/11/07	12.7	--	--
FSW 418-0122	-47.06	09/11/07	13.8	--	--
FSW 418-0141	-65.74	09/11/07	12.8	--	--

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 422-0045	29.03	07/12/07	USGS	K	50.8	5.37	347	M
FSW 422-0065	9.30	07/12/07	USGS	K	116	5.98	E 2.5	C
FSW 422-0085	-10.69	07/12/07	USGS	K	136	5.82	E 2.4	C
FSW 422-0105	-30.94	07/12/07	USGS	K	229	5.30	188	M
FSW 424-M02-01PT (72-13)	44.09	07/05/07	USGS	P	48.1	5.44	14	C
FSW 424-M02-02GNT (72-13)	41.59	07/05/07	USGS	P	36.6	5.48	56	M
FSW 424-M02-03RT (72-13)	39.09	07/05/07	USGS	P	32.4	5.47	55	M
FSW 424-M02-05BKT (72-13)	34.07	07/05/07	USGS	P	38.0	5.71	210	M
FSW 424-M02-06WT (72-13)	31.57	07/05/07	USGS	P	58.3	5.82	194	M
FSW 424-M02-07O (72-13)	29.07	07/05/07	USGS	P	77.8	5.89	120	M
FSW 424-M02-08GY (72-13)	26.55	07/05/07	USGS	P	98.5	6.00	23	C
FSW 424-M02-09Y (72-13)	24.05	07/05/07	USGS	P	107	6.08	E 2.1	C
FSW 424-M02-10P (72-13)	21.55	07/05/07	USGS	P	112	6.23	E 0.0	C
FSW 424-M02-11GN (72-13)	19.05	07/05/07	USGS	P	113	6.24	E 0.2	C
FSW 424-M02-12R (72-13)	16.53	07/05/07	USGS	P	136	6.19	E 0.0	C
FSW 424-M02-14BK (72-13)	11.53	07/05/07	USGS	P	147	6.33	E 2.0	C
FSW 424-M02-15W (72-13)	9.03	07/05/07	USGS	P	152	6.38	E 0.6	C
FSW 424-M01-01PT	5.86	07/05/07	USGS	P	152	6.28	15	C
FSW 424-M01-02GNT	0.87	07/05/07	USGS	P	164	6.39	E 1.9	C
FSW 424-M01-03RT	-4.13	07/05/07	USGS	P	198	6.21	E 0.0	C
FSW 424-M01-04BUT	-9.12	07/05/07	USGS	P	188	6.09	E 0.5	C
FSW 424-M01-05BKT	-14.12	07/05/07	USGS	P	222	6.03	E 0.0	C

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 422-0045	29.03	07/12/07	12.4	--	E 2.1
FSW 422-0065	9.30	07/12/07	13.2	--	3.2
FSW 422-0085	-10.69	07/12/07	13.0	--	20.0
FSW 422-0105	-30.94	07/12/07	12.8	--	3.2
FSW 424-M02-01PT (72-13)	44.09	07/05/07	12.9	--	E 0.5
FSW 424-M02-02GNT (72-13)	41.59	07/05/07	12.9	--	E 0.0
FSW 424-M02-03RT (72-13)	39.09	07/05/07	12.4	0.07	E 0.5
FSW 424-M02-05BKT (72-13)	34.07	07/05/07	12.5	--	4.7
FSW 424-M02-06WT (72-13)	31.57	07/05/07	12.0	--	E 1.6
FSW 424-M02-07O (72-13)	29.07	07/05/07	11.9	--	3.7
FSW 424-M02-08GY (72-13)	26.55	07/05/07	12.2	0.24	15.8
FSW 424-M02-09Y (72-13)	24.05	07/05/07	12.3	--	24.2
FSW 424-M02-10P (72-13)	21.55	07/05/07	12.1	--	22.1
FSW 424-M02-11GN (72-13)	19.05	07/05/07	12.3	0.39	27.4
FSW 424-M02-12R (72-13)	16.53	07/05/07	12.3	0.42	20.5
FSW 424-M02-14BK (72-13)	11.53	07/05/07	12.7	0.61	17.4
FSW 424-M02-15W (72-13)	9.03	07/05/07	12.1	0.58	27.9
FSW 424-M01-01PT	5.86	07/05/07	12.9	0.60	26.9
FSW 424-M01-02GNT	0.87	07/05/07	12.6	0.49	45.8
FSW 424-M01-03RT	-4.13	07/05/07	12.8	0.32	33.2
FSW 424-M01-04BUT	-9.12	07/05/07	12.4	0.27	23.2
FSW 424-M01-05BKT	-14.12	07/05/07	12.4	0.22	17.4

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 424-M01-06WT	-19.11	07/05/07	USGS	P	180	5.90	16	C
FSW 424-M01-07O	-24.11	07/05/07	USGS	P	198	5.61	92	M
FSW 424-M01-08GY	-29.10	07/05/07	USGS	P	194	5.49	158	M
FSW 424-M01-09Y	-34.10	07/05/07	USGS	P	169	5.46	207	M
FSW 424-M01-10P	-39.09	07/05/07	USGS	P	152	5.26	217	M
FSW 424-M01-11GN	-44.09	07/05/07	USGS	P	133	5.23	232	M
FSW 424-M01-12R	-49.07	07/05/07	USGS	P	130	5.24	245	M
FSW 424-M01-13BU	-54.07	07/05/07	USGS	P	78.5	5.46	247	M
FSW 424-M01-14BK	-59.05	07/05/07	USGS	P	71.5	5.56	250	M
FSW 424-M01-15W	-64.05	07/05/07	USGS	P	74.5	5.79	196	M
FSW 424-0144 (30MW0581B)	-85.40	07/05/07	USGS	K	67.9	6.24	135	M
FSW 424-0183 (30MW0581A)	-124.12	07/05/07	USGS	K	59.1	6.53	242	M
FSW 428-0080	-46.75	09/07/07	AFCEE	G	140	5.61	13	M
FSW 429-0012	20.94	08/28/07	USGS	K	43.0	4.79	227	M
FSW 429-M01-01PT	19.13	08/28/07	USGS	P	45.8	5.13	283	M
FSW 429-M01-02GNT	4.14	08/28/07	USGS	P	166	5.06	14	C
FSW 429-M01-03RT	-10.87	08/28/07	USGS	P	134	5.34	268	M
FSW 429-M01-04BUT	-20.85	08/28/07	USGS	P	144	5.47	265	M
FSW 429-M01-05BKT	-30.85	08/28/07	USGS	P	143	5.60	281	M
FSW 429-0068	-34.87	08/28/07	USGS	K	121	5.65	259	M
FSW 429-M01-06WT	-35.85	08/28/07	USGS	P	123	5.76	226	M

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 424-M01-06WT	-19.11	07/05/07	12.3	0.13	11.6
FSW 424-M01-07O	-24.11	07/05/07	12.2	0.06	9.5
FSW 424-M01-08GY	-29.10	07/05/07	13.2	0.04	6.3
FSW 424-M01-09Y	-34.10	07/05/07	12.9	--	6.3
FSW 424-M01-10P	-39.09	07/05/07	12.5	--	5.8
FSW 424-M01-11GN	-44.09	07/05/07	12.5	0.01	7.9
FSW 424-M01-12R	-49.07	07/05/07	12.5	--	4.2
FSW 424-M01-13BU	-54.07	07/05/07	12.3	0.04	5.3
FSW 424-M01-14BK	-59.05	07/05/07	12.5	--	4.7
FSW 424-M01-15W	-64.05	07/05/07	12.7	0.09	3.7
FSW 424-0144 (30MW0581B)	-85.40	07/05/07	12.8	0.18	4.2
FSW 424-0183 (30MW0581A)	-124.12	07/05/07	12.1	0.21	E 0.5
FSW 428-0080	-46.75	09/07/07	11.5	--	--
FSW 429-0012	20.94	08/28/07	13.6	--	--
FSW 429-M01-01PT	19.13	08/28/07	14.3	--	--
FSW 429-M01-02GNT	4.14	08/28/07	13.1	0.01	
FSW 429-M01-03RT	-10.87	08/28/07	12.0	--	--
FSW 429-M01-04BUT	-20.85	08/28/07	12.8	0.16	--
FSW 429-M01-05BKT	-30.85	08/28/07	12.3	--	--
FSW 429-0068	-34.87	08/28/07	12.6	0.16	--
FSW 429-M01-06WT	-35.85	08/28/07	14.2	--	--

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 429-M01-07O	-40.85	08/28/07	USGS	P	156	6.10	E 1.7	C
FSW 429-0078	-44.64	08/28/07	USGS	K	140	5.92	E 0.0	C
FSW 429-M01-08GY	-45.85	08/28/07	USGS	P	138	5.92	E 1.4	C
FSW 429-M01-09Y	-50.86	08/28/07	USGS	P	185	6.06	5.0	C
FSW 429-M01-10P	-55.86	08/28/07	USGS	P	194	6.13	E 1.3	C
FSW 429-M01-11GN	-60.85	08/28/07	USGS	P	191	6.19	E 2.0	C
FSW 429-0094	-61.25	08/28/07	USGS	K	196	6.18	3.2	C
FSW 429-M01-12R	-65.85	08/28/07	USGS	P	172	6.11	3.4	C
FSW 429-M01-13BU	-75.86	08/28/07	USGS	P	164	6.13	E 2.4	C
FSW 429-M01-14BK	-85.85	08/28/07	USGS	P	155	6.25	3.7	C
FSW 430-0075	-44.69	09/07/07	AFCEE	G	152	5.77	10	M
FSW 432-M01-01PT	41.36	05/21/07	USGS	P	62.4	5.13	296	M
FSW 432-M01-03RT	31.35	05/21/07	USGS	P	110	5.66	191	M
FSW 432-M01-05BKT	21.36	05/21/07	USGS	P	143	5.65	179	M
FSW 432-M01-06WT	16.36	05/21/07	USGS	P	145	5.61	173	M
FSW 432-M01-07O	11.36	05/21/07	USGS	P	154	5.70	255	M
FSW 432-M01-08GY	6.37	05/21/07	USGS	P	161	5.81	294	M
FSW 432-M01-09Y	1.37	05/21/07	USGS	P	125	6.15	265	M
FSW 432-M01-10P	-8.61	05/21/07	USGS	P	65.5	5.78	323	M
FSW 432-M01-13BU	-38.57	05/21/07	USGS	P	127	6.20	280	M
FSW 432-M01-15W	-58.57	05/21/07	USGS	P	127	6.29	248	M

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 429-M01-07O	-40.85	08/28/07	18.4	--	--
FSW 429-0078	-44.64	08/28/07	12.5	0.30	--
FSW 429-M01-08GY	-45.85	08/28/07	14.5	--	--
FSW 429-M01-09Y	-50.86	08/28/07	13.1	0.77	--
FSW 429-M01-10P	-55.86	08/28/07	12.7	--	--
FSW 429-M01-11GN	-60.85	08/28/07	12.7	--	--
FSW 429-0094	-61.25	08/28/07	12.2	0.82	--
FSW 429-M01-12R	-65.85	08/28/07	12.2	--	--
FSW 429-M01-13BU	-75.86	08/28/07	13.0	--	--
FSW 429-M01-14BK	-85.85	08/28/07	12.2	0.49	--
FSW 430-0075	-44.69	09/07/07	11.7	--	--
FSW 432-M01-01PT	41.36	05/21/07	10.5	--	E 0.0
FSW 432-M01-03RT	31.35	05/21/07	10.7	--	E 1.1
FSW 432-M01-05BKT	21.36	05/21/07	11.6	--	E 0.5
FSW 432-M01-06WT	16.36	05/21/07	11.4	--	E 0.0
FSW 432-M01-07O	11.36	05/21/07	11.8	--	E 0.0
FSW 432-M01-08GY	6.37	05/21/07	12.5	--	E 0.0
FSW 432-M01-09Y	1.37	05/21/07	10.8	--	E 0.5
FSW 432-M01-10P	-8.61	05/21/07	11.3	--	E 1.1
FSW 432-M01-13BU	-38.57	05/21/07	12.6	--	E 2.6
FSW 432-M01-15W	-58.57	05/21/07	11.3	--	3.2

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 433-0064	-3.85	09/05/07	USGS	K	117	5.20	266	M
FSW 433-0090	-30.16	09/05/07	USGS	K	132	5.64	191	M
FSW 433-0104	-42.93	09/05/07	USGS	K	124	6.10	E 2.4	C
FSW 433-0118	-57.15	09/05/07	USGS	K	150	6.22	13	C
FSW 433-0140	-79.44	09/05/07	USGS	K	113	6.33	E 2.8	C
FSW 436-0036	-10.23	09/04/07	USGS	K	85.6	5.17	236	M
FSW 436-0060	-34.14	09/04/07	USGS	K	117	5.80	305	M
FSW 436-0076	-50.03	09/04/07	USGS	K	154	6.25	E 0.2	C
FSW 436-0091	-65.35	09/04/07	USGS	K	132	6.85	E 0.0	C
FSW 436-0115	-90.03	09/04/07	USGS	K	94.4	6.90	E 0.0	C
FSW 436-0141	-115.12	09/04/07	USGS	K	112	7.74	E 3.0	C
FSW 442-M01-01PT	21.86	07/24/07	USGS	P	55.5	4.94	E 2.2	C
FSW 442-M01-02GNT	11.86	07/24/07	USGS	P	50.4	5.28	257	M
FSW 442-M01-03RT	1.86	07/24/07	USGS	P	116	5.51	240	M
FSW 442-M01-04BUT	-3.24	07/24/07	USGS	P	100	5.72	283	M
FSW 442-M01-05BKT	-8.24	07/24/07	USGS	P	96.2	5.73	297	M
FSW 442-M01-06WT	-13.26	07/24/07	USGS	P	80.2	5.78	259	M
FSW 442-M01-07O	-18.26	07/24/07	USGS	P	99.6	5.91	302	M
FSW 442-M01-08GY	-23.28	07/24/07	USGS	P	143	6.15	E 0.4	C
FSW 442-M01-09Y	-28.28	07/24/07	USGS	P	181	6.38	E 0.0	C

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 433-0064	-3.85	09/05/07	12.0	--	--
FSW 433-0090	-30.16	09/05/07	10.8	--	--
FSW 433-0104	-42.93	09/05/07	10.9	--	--
FSW 433-0118	-57.15	09/05/07	10.8	--	--
FSW 433-0140	-79.44	09/05/07	11.4	--	--
FSW 436-0036	-10.23	09/04/07	13.7	--	--
FSW 436-0060	-34.14	09/04/07	12.9	--	--
FSW 436-0076	-50.03	09/04/07	13.9	--	--
FSW 436-0091	-65.35	09/04/07	13.8	--	--
FSW 436-0115	-90.03	09/04/07	14.2	--	--
FSW 436-0141	-115.12	09/04/07	12.7	--	--
FSW 442-M01-01PT	21.86	07/24/07	13.2	--	--
FSW 442-M01-02GNT	11.86	07/24/07	12.8	0.00	--
FSW 442-M01-03RT	1.86	07/24/07	13.2	--	--
FSW 442-M01-04BUT	-3.24	07/24/07	13.3	0.06	--
FSW 442-M01-05BKT	-8.24	07/24/07	12.1	--	--
FSW 442-M01-06WT	-13.26	07/24/07	12.0	0.06	--
FSW 442-M01-07O	-18.26	07/24/07	13.2	--	--
FSW 442-M01-08GY	-23.28	07/24/07	13.0	0.14	--
FSW 442-M01-09Y	-28.28	07/24/07	13.3	--	--

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 442-M01-10P	-33.29	07/24/07	USGS	P	138	6.44	E 2.1	C
FSW 442-M01-11GN	-38.29	07/24/07	USGS	P	126	6.36	3.3	C
FSW 442-M01-12R	-43.32	07/24/07	USGS	P	109	6.37	E 1.2	C
FSW 442-M01-14BK	-53.35	07/24/07	USGS	P	114	6.36	E 1.1	C
FSW 442-M01-15W	-58.35	07/24/07	USGS	P	113	6.44	E 0.0	C
FSW 443-0089	-29.74	06/11/07	USGS	K	108	5.50	340	M
FSW 443-0104	-44.93	06/11/07	USGS	K	141	5.74	247	M
FSW 443-0117	-57.55	06/11/07	USGS	K	140	6.03	178	M
FSW 443-0140	-80.51	06/11/07	USGS	K	158	5.98	39	M
FSW 459-0064	-1.08	08/27/07	USGS	K	92.4	5.09	258	M
FSW 459-0091	-28.86	08/27/07	USGS	K	70.6	5.42	286	M
FSW 459-0106	-44.07	08/27/07	USGS	K	75.0	5.55	119	M
FSW 459-0121	-58.70	08/27/07	USGS	K	75.8	5.76	164	M
FSW 459-0136	-73.45	08/27/07	USGS	K	95.2	5.79	204	M
FSW 460-0080	-8.50	09/06/07	USGS	K	126	5.45	313	M
FSW 460-0100	-28.36	09/06/07	USGS	K	126	5.52	64	M
FSW 460-0120	-48.48	09/06/07	USGS	K	252	5.33	284	M
FSW 460-0140	-69.00	09/06/07	USGS	K	137	6.30	E 2.8	C
FSW 470-0091	-31.70	08/23/07	USGS	K	90.0	5.65	81	M

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 442-M01-10P	-33.29	07/24/07	13.4	0.21	--
FSW 442-M01-11GN	-38.29	07/24/07	13.1	--	--
FSW 442-M01-12R	-43.32	07/24/07	14.2	0.21	--
FSW 442-M01-14BK	-53.35	07/24/07	12.7	--	--
FSW 442-M01-15W	-58.35	07/24/07	12.2	0.32	--
FSW 443-0089	-29.74	06/11/07	13.4	--	--
FSW 443-0104	-44.93	06/11/07	12.2	--	--
FSW 443-0117	-57.55	06/11/07	12.6	--	--
FSW 443-0140	-80.51	06/11/07	12.1	--	--
FSW 459-0064	-1.08	08/27/07	13.1	--	--
FSW 459-0091	-28.86	08/27/07	14.2	--	--
FSW 459-0106	-44.07	08/27/07	12.8	--	--
FSW 459-0121	-58.70	08/27/07	12.9	--	--
FSW 459-0136	-73.45	08/27/07	12.6	--	--
FSW 460-0080	-8.50	09/06/07	12.0	--	--
FSW 460-0100	-28.36	09/06/07	12.0	--	--
FSW 460-0120	-48.48	09/06/07	11.7	--	--
FSW 460-0140	-69.00	09/06/07	11.9	--	--
FSW 470-0091	-31.70	08/23/07	11.5	--	--

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 470-0106	-46.94	08/23/07	USGS	K	86.2	5.82	93	M
FSW 470-0119	-60.33	08/23/07	USGS	K	103	5.84	80	M
FSW 470-0142	-82.81	08/23/07	USGS	K	137	5.61	4.9	C
FSW 471-M01-01PT	14.60	06/20/07	USGS	P	53.2	5.04	22	C
FSW 471-M01-02GNT	4.60	06/20/07	USGS	P	89.2	5.43	276	M
FSW 471-M01-03RT	-5.40	06/20/07	USGS	P	142	5.54	303	M
FSW 471-M01-04BUT	-10.40	06/20/07	USGS	P	113	5.69	340	M
FSW 471-M01-05BKT	-15.40	06/20/07	USGS	P	69.4	5.76	299	M
FSW 471-M01-06WT	-20.40	06/20/07	USGS	P	81.5	5.61	8.7	C
FSW 471-M01-07O	-25.40	06/20/07	USGS	P	106	6.28	E 0.0	C
FSW 471-M01-08GY	-30.40	06/20/07	USGS	P	134	6.36	E 0.0	C
FSW 471-M01-09Y	-35.40	06/20/07	USGS	P	138	6.25	E 0.0	C
FSW 471-M01-10P	-40.40	06/20/07	USGS	P	125	6.30	E 0.0	C
FSW 471-M01-11GN	-45.40	06/20/07	USGS	P	121	6.37	E 0.0	C
FSW 471-M01-12R	-50.40	06/20/07	USGS	P	127	6.34	E 0.0	C
FSW 471-M01-13BU	-55.40	06/20/07	USGS	P	120	6.31	E 0.2	C
FSW 471-M01-14BK	-60.40	06/20/07	USGS	P	116	6.34	E 1.6	C
FSW 471-M01-15W	-65.40	06/20/07	USGS	P	114	6.37	E 0.0	C
FSW 472-M01-01PT	14.66	06/21/07	USGS	P	41.1	4.80	E 0.0	C
FSW 472-M01-02GNT	4.66	06/21/07	USGS	P	40.1	5.43	309	M
FSW 472-M01-03RT	-5.34	06/21/07	USGS	P	102	5.54	274	M

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 470-0106	-46.94	08/23/07	11.7	--	--
FSW 470-0119	-60.33	08/23/07	12.1	--	--
FSW 470-0142	-82.81	08/23/07	11.8	--	--
FSW 471-M01-01PT	14.60	06/20/07	11.3	--	--
FSW 471-M01-02GNT	4.60	06/20/07	11.4	--	--
FSW 471-M01-03RT	-5.40	06/20/07	11.4	--	--
FSW 471-M01-04BUT	-10.40	06/20/07	13.4	--	--
FSW 471-M01-05BKT	-15.40	06/20/07	11.5	--	--
FSW 471-M01-06WT	-20.40	06/20/07	12.2	--	--
FSW 471-M01-07O	-25.40	06/20/07	11.2	--	--
FSW 471-M01-08GY	-30.40	06/20/07	11.9	--	--
FSW 471-M01-09Y	-35.40	06/20/07	11.0	--	--
FSW 471-M01-10P	-40.40	06/20/07	11.6	--	--
FSW 471-M01-11GN	-45.40	06/20/07	11.7	--	--
FSW 471-M01-12R	-50.40	06/20/07	11.0	--	--
FSW 471-M01-13BU	-55.40	06/20/07	11.4	--	--
FSW 471-M01-14BK	-60.40	06/20/07	12.1	--	--
FSW 471-M01-15W	-65.40	06/20/07	11.4	--	--
FSW 472-M01-01PT	14.66	06/21/07	11.0	--	--
FSW 472-M01-02GNT	4.66	06/21/07	11.0	--	--
FSW 472-M01-03RT	-5.34	06/21/07	13.5	--	--

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 472-M01-04BUT	-10.34	06/21/07	USGS	P	120	5.50	289	M
FSW 472-M01-05BKT	-15.34	06/21/07	USGS	P	126	5.64	303	M
FSW 472-M01-06WT	-20.34	06/21/07	USGS	P	109	5.56	275	M
FSW 472-M01-07O	-25.34	06/21/07	USGS	P	125	5.80	E 0.0	C
FSW 472-M01-08GY	-30.34	06/21/07	USGS	P	127	6.29	E 0.0	C
FSW 472-M01-09Y	-35.34	06/21/07	USGS	P	94.7	6.10	20	C
FSW 472-M01-10P	-40.34	06/21/07	USGS	P	95.5	6.20	E 0.0	C
FSW 472-M01-11GN	-45.34	06/21/07	USGS	P	89.3	6.33	E 0.0	C
FSW 472-M01-12R	-50.34	06/21/07	USGS	P	86.8	6.33	E 0.0	C
FSW 472-M01-13BU	-55.34	06/21/07	USGS	P	86.2	6.32	E 0.0	C
FSW 472-M01-14BK	-60.34	06/21/07	USGS	P	128	6.32	E 1.1	C
FSW 472-M01-15W	-65.34	06/21/07	USGS	P	87.5	6.36	E 0.9	C
FSW 474-0080	-11.10	09/05/07	USGS	K	63.0	5.28	357	M
FSW 474-0100	-30.82	09/05/07	USGS	K	65.2	5.40	348	M
FSW 474-0115	-45.90	09/05/07	USGS	K	131	5.29	324	M
FSW 474-0129	-60.24	09/05/07	USGS	K	141	5.31	323	M
FSW 474-0147	-78.70	09/05/07	USGS	K	140	5.61	175	M
FSW 484-0007	6.29	09/04/07	USGS	K	77.2	5.56	3.2	C
FSW 484-0023	-10.15	09/04/07	USGS	K	79.8	5.23	E 1.0	C
FSW 484-0078	-65.53	09/04/07	USGS	K	113	5.74	70	M
FSW 484-0108	-94.95	09/04/07	USGS	K	88.9	6.02	E 0.0	C

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 472-M01-04BUT	-10.34	06/21/07	11.3	--	--
FSW 472-M01-05BKT	-15.34	06/21/07	13.1	--	--
FSW 472-M01-06WT	-20.34	06/21/07	11.4	--	--
FSW 472-M01-07O	-25.34	06/21/07	11.3	--	--
FSW 472-M01-08GY	-30.34	06/21/07	11.1	--	--
FSW 472-M01-09Y	-35.34	06/21/07	11.8	--	--
FSW 472-M01-10P	-40.34	06/21/07	11.4	--	--
FSW 472-M01-11GN	-45.34	06/21/07	11.2	--	--
FSW 472-M01-12R	-50.34	06/21/07	11.3	--	--
FSW 472-M01-13BU	-55.34	06/21/07	11.9	--	--
FSW 472-M01-14BK	-60.34	06/21/07	12.3	--	--
FSW 472-M01-15W	-65.34	06/21/07	11.7	--	--
FSW 474-0080	-11.10	09/05/07	12.1	--	--
FSW 474-0100	-30.82	09/05/07	12.7	--	--
FSW 474-0115	-45.90	09/05/07	11.8	--	--
FSW 474-0129	-60.24	09/05/07	11.8	--	--
FSW 474-0147	-78.70	09/05/07	11.9	--	--
FSW 484-0007	6.29	09/04/07	18.2	--	--
FSW 484-0023	-10.15	09/04/07	13.5	--	--
FSW 484-0078	-65.53	09/04/07	14.5	--	--
FSW 484-0108	-94.95	09/04/07	13.4	--	--

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 487-0012	8.96	08/16/07	AFCEE	G	75.0	5.22	58	M
FSW 487-0023	-2.26	08/16/07	AFCEE	G	236	4.94	262	M
FSW 487-0078	-57.16	08/16/07	AFCEE	G	68.0	5.31	223	M
FSW 487-0112	-91.27	08/16/07	AFCEE	G	116	6.61	260	M
FSW 492-0007	1.29	08/14/07	AFCEE	G	69.0	4.53	192	M
FSW 493-0024	-6.99	08/14/07	AFCEE	G	100	5.44	21	M
FSW 493-0074	-57.33	08/14/07	AFCEE	G	83.0	6.53	10	M
FSW 497-0035	0.02	08/20/07	USGS	K	215	4.58	283	M
FSW 497-0052	-17.08	08/20/07	USGS	K	358	4.54	235	M
FSW 497-0089	-53.22	08/20/07	USGS	K	73.5	5.59	328	M
FSW 497-0108	-72.78	08/20/07	USGS	K	98.2	5.69	191	M
FSW 501-0087	-34.62	07/11/07	USGS	K	119	5.29	304	M
FSW 501-0102	-49.47	07/11/07	USGS	K	179	5.70	6.0	C
FSW 501-0117	-65.30	07/11/07	USGS	K	227	6.34	10	C
FSW 501-0130 (95PZ0002B)	-75.00	07/11/07	USGS	K	225	6.68	E 1.3	C
FSW 501-0160 (95PZ0002A)	-104.58	07/11/07	USGS	K	174	5.82	3.7	C
FSW 502-0087	-26.37	08/30/07	USGS	K	54.5	5.29	68	M

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 487-0012	8.96	08/16/07	19.7	--	--
FSW 487-0023	-2.26	08/16/07	17.2	--	--
FSW 487-0078	-57.16	08/16/07	16.3	--	--
FSW 487-0112	-91.27	08/16/07	16.1	--	--
FSW 492-0007	1.29	08/14/07	15.5	--	--
FSW 493-0024	-6.99	08/14/07	19.3	--	--
FSW 493-0074	-57.33	08/14/07	14.3	--	--
FSW 497-0035	0.02	08/20/07	13.6	--	--
FSW 497-0052	-17.08	08/20/07	12.7	--	--
FSW 497-0089	-53.22	08/20/07	12.9	--	--
FSW 497-0108	-72.78	08/20/07	12.9	--	--
FSW 501-0087	-34.62	07/11/07	13.6	--	--
FSW 501-0102	-49.47	07/11/07	13.5	--	--
FSW 501-0117	-65.30	07/11/07	13.6	--	--
FSW 501-0130 (95PZ0002B)	-75.00	07/11/07	13.3	--	--
FSW 501-0160 (95PZ0002A)	-104.58	07/11/07	12.4	--	--
FSW 502-0087	-26.37	08/30/07	13.4	--	--

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 502-0102	-41.22	08/30/07	USGS	K	101	5.51	73	M
FSW 502-0117	-56.66	08/30/07	USGS	K	133	5.91	3.2	C
FSW 502-0128	-66.94	08/30/07	USGS	K	97.2	6.74	5.5	C
FSW 502-0139	-78.48	08/30/07	USGS	K	122	6.49	E 0.0	C
FSW 508-M01-01PT	21.72	07/26/07	USGS	P	123	4.98	287	M
FSW 508-M01-02GNT	11.72	07/26/07	USGS	P	172	5.12	303	M
FSW 508-M01-03RT	1.72	07/26/07	USGS	P	152	5.24	281	M
FSW 508-M01-04BUT	-3.28	07/26/07	USGS	P	117	5.36	306	M
FSW 508-M01-05BKT	-8.28	07/26/07	USGS	P	142	5.33	255	M
FSW 508-M01-06WT	-13.28	07/26/07	USGS	P	137	5.26	146	M
FSW 508-M01-07O	-18.28	07/26/07	USGS	P	117	5.89	E 0.1	C
FSW 508-M01-08GY	-23.28	07/26/07	USGS	P	143	6.29	E 0.8	C
FSW 508-M01-09Y	-28.28	07/26/07	USGS	P	142	6.34	3.2	C
FSW 508-M01-10P	-33.28	07/26/07	USGS	P	139	6.34	E 0.0	C
FSW 508-M01-11GN	-38.28	07/26/07	USGS	P	114	6.37	E 2.6	C
FSW 508-M01-12R	-43.28	07/26/07	USGS	P	115	6.32	E 0.3	C
FSW 508-M01-13BU	-48.28	07/26/07	USGS	P	111	6.28	E 0.4	C
FSW 508-M01-14BK	-53.28	07/26/07	USGS	P	124	6.24	E 0.0	C
FSW 508-M01-15W	-58.28	07/26/07	USGS	P	124	6.25	E 0.0	C
FSW 512-M01-01PT	45.00	05/23/07	USGS	P	60.8	5.60	279	M
FSW 512-M01-02GNT	42.91	05/23/07	USGS	P	51.6	5.55	295	M

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 502-0102	-41.22	08/30/07	12.7	--	--
FSW 502-0117	-56.66	08/30/07	12.6	--	--
FSW 502-0128	-66.94	08/30/07	13.9	--	--
FSW 502-0139	-78.48	08/30/07	12.5	--	--
FSW 508-M01-01PT	21.72	07/26/07	13.8	--	--
FSW 508-M01-02GNT	11.72	07/26/07	13.5	--	--
FSW 508-M01-03RT	1.72	07/26/07	14.5	--	--
FSW 508-M01-04BUT	-3.28	07/26/07	14.6	--	--
FSW 508-M01-05BKT	-8.28	07/26/07	13.5	--	--
FSW 508-M01-06WT	-13.28	07/26/07	14.2	--	--
FSW 508-M01-07O	-18.28	07/26/07	12.7	--	--
FSW 508-M01-08GY	-23.28	07/26/07	13.3	--	--
FSW 508-M01-09Y	-28.28	07/26/07	13.2	--	--
FSW 508-M01-10P	-33.28	07/26/07	12.8	--	--
FSW 508-M01-11GN	-38.28	07/26/07	14.5	--	--
FSW 508-M01-12R	-43.28	07/26/07	13.1	--	--
FSW 508-M01-13BU	-48.28	07/26/07	13.3	--	--
FSW 508-M01-14BK	-53.28	07/26/07	13.6	--	--
FSW 508-M01-15W	-58.28	07/26/07	13.6	--	--
FSW 512-M01-01PT	45.00	05/23/07	10.6	--	E 0.5
FSW 512-M01-02GNT	42.91	05/23/07	10.8	--	E 0.5

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 512-M01-03RT	40.82	05/23/07	USGS	P	46.9	5.53	303	M
FSW 512-M01-04BUT	38.73	05/23/07	USGS	P	45.9	5.54	273	M
FSW 512-M01-05BKT	36.65	05/23/07	USGS	P	49.3	5.68	268	M
FSW 512-M01-06WT	34.15	05/23/07	USGS	P	57.6	5.69	190	M
FSW 512-M01-07O	31.65	05/23/07	USGS	P	65.7	5.70	109	M
FSW 512-M01-08GY	29.15	05/23/07	USGS	P	76.0	5.82	175	M
FSW 512-M01-09Y	26.65	05/23/07	USGS	P	88.0	5.96	77	M
FSW 512-M01-10P	24.10	05/23/07	USGS	P	94.8	6.00	E 0.0	C
FSW 512-M01-11GN	21.60	05/23/07	USGS	P	92.0	6.08	E 0.0	C
FSW 512-M01-12R	19.10	05/23/07	USGS	P	89.5	6.06	E 0.2	C
FSW 512-M01-13BU	16.60	05/23/07	USGS	P	96.0	6.05	E 0.0	C
FSW 512-M01-14BK	14.07	05/23/07	USGS	P	109	6.00	E 0.0	C
FSW 512-M01-15W	11.57	05/23/07	USGS	P	118	5.97	E 0.0	C
FSW 512-M02-01PT	8.23	05/23/07	USGS	P	124	5.86	E 0.0	C
FSW 512-M02-02GNT	3.20	05/23/07	USGS	P	99.0	5.86	21	C
FSW 512-M02-03RT	-1.80	05/23/07	USGS	P	91.4	6.02	E 0.0	C
FSW 512-M02-04BUT	-6.84	05/23/07	USGS	P	136	6.45	E 0.0	C
FSW 512-M02-05BKT	-11.84	05/23/07	USGS	P	145	6.56	E 0.0	C
FSW 512-M02-06WT	-16.87	05/23/07	USGS	P	149	6.48	E 0.0	C
FSW 512-M02-07O	-21.87	05/23/07	USGS	P	171	6.11	E 0.0	C
FSW 512-M02-08GY	-26.89	05/23/07	USGS	P	170	5.18	229	M
FSW 512-M02-09Y	-31.89	05/23/07	USGS	P	169	5.41	273	M
FSW 512-M02-10P	-36.92	05/23/07	USGS	P	212	5.47	290	M

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 512-M01-03RT	40.82	05/23/07	11.0	--	E 2.1
FSW 512-M01-04BUT	38.73	05/23/07	11.2	--	E 2.6
FSW 512-M01-05BKT	36.65	05/23/07	11.2	--	3.7
FSW 512-M01-06WT	34.15	05/23/07	11.3	--	7.9
FSW 512-M01-07O	31.65	05/23/07	11.0	--	13.7
FSW 512-M01-08GY	29.15	05/23/07	11.3	--	23.2
FSW 512-M01-09Y	26.65	05/23/07	11.6	--	25.8
FSW 512-M01-10P	24.10	05/23/07	11.4	--	16.8
FSW 512-M01-11GN	21.60	05/23/07	11.4	--	7.9
FSW 512-M01-12R	19.10	05/23/07	11.7	--	5.8
FSW 512-M01-13BU	16.60	05/23/07	11.9	--	6.8
FSW 512-M01-14BK	14.07	05/23/07	11.6	--	4.7
FSW 512-M01-15W	11.57	05/23/07	11.9	--	4.7
FSW 512-M02-01PT	8.23	05/23/07	12.0	--	4.2
FSW 512-M02-02GNT	3.20	05/23/07	11.7	--	3.7
FSW 512-M02-03RT	-1.80	05/23/07	11.7	--	10.0
FSW 512-M02-04BUT	-6.84	05/23/07	11.9	--	42.6
FSW 512-M02-05BKT	-11.84	05/23/07	11.7	--	99.0
FSW 512-M02-06WT	-16.87	05/23/07	12.0	--	85.3
FSW 512-M02-07O	-21.87	05/23/07	11.5	--	44.8
FSW 512-M02-08GY	-26.89	05/23/07	11.7	--	3.2
FSW 512-M02-09Y	-31.89	05/23/07	12.0	--	7.9
FSW 512-M02-10P	-36.92	05/23/07	12.1	--	5.3

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 512-M02-11GN	-41.92	05/23/07	USGS	P	204	5.51	286	M
FSW 512-M02-12R	-46.95	05/23/07	USGS	P	147	5.52	282	M
FSW 512-M02-13BU	-51.95	05/23/07	USGS	P	108	5.48	281	M
FSW 512-M02-14BK	-56.95	05/23/07	USGS	P	126	5.60	269	M
FSW 512-M02-15W	-61.95	05/23/07	USGS	P	121	5.84	283	M
FSW 564-0016	43.70	09/12/07	AFCEE	G	74.0	4.87	36	M
FSW 564-M01-01PT	41.61	05/29/07	USGS	P	85.4	5.64	30	M
FSW 564-M01-02GNT	36.65	05/29/07	USGS	P	76.7	5.48	97	M
FSW 564-M01-03RT	31.65	05/29/07	USGS	P	170	5.69	E 1.4	C
FSW 564-M01-04BUT	26.66	05/29/07	USGS	P	153	5.74	15	C
FSW 564-M01-05BKT	21.66	05/29/07	USGS	P	165	5.87	121	M
FSW 564-M01-06WT	16.67	05/29/07	USGS	P	162	5.74	238	M
FSW 564-M01-07O	11.67	05/29/07	USGS	P	95.6	5.68	273	M
FSW 564-M01-08GY	6.64	05/29/07	USGS	P	80.3	5.61	267	M
FSW 564-M01-09Y	1.64	05/29/07	USGS	P	78.5	5.98	288	M
FSW 564-M01-10P	-8.36	05/29/07	USGS	P	122	6.25	271	M
FSW 564-M01-11GN	-18.36	05/29/07	USGS	P	127	6.23	257	M
FSW 564-M01-12R	-28.37	05/29/07	USGS	P	128	6.27	246	M
FSW 564-M01-13BU	-38.38	05/29/07	USGS	P	113	5.82	238	M
FSW 564-M01-14BK	-48.38	05/29/07	USGS	P	128	6.28	242	M
FSW 564-M01-15W	-58.36	05/29/07	USGS	P	129	6.32	233	M
FSW 564-0138	-82.31	05/31/07	USGS	K	129	6.35	285	M

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 512-M02-11GN	-41.92	05/23/07	11.6	--	6.8
FSW 512-M02-12R	-46.95	05/23/07	11.9	--	6.8
FSW 512-M02-13BU	-51.95	05/23/07	11.8	--	7.4
FSW 512-M02-14BK	-56.95	05/23/07	11.8	--	E 2.1
FSW 512-M02-15W	-61.95	05/23/07	11.6	--	E 2.6
FSW 564-0016	43.70	09/12/07	17.6	--	--
FSW 564-M01-01PT	41.61	05/29/07	10.2	--	E 1.6
FSW 564-M01-02GNT	36.65	05/29/07	9.9	--	E 2.6
FSW 564-M01-03RT	31.65	05/29/07	10.9	--	17.4
FSW 564-M01-04BUT	26.66	05/29/07	11.0	--	16.8
FSW 564-M01-05BKT	21.66	05/29/07	11.4	--	14.7
FSW 564-M01-06WT	16.67	05/29/07	11.6	--	7.4
FSW 564-M01-07O	11.67	05/29/07	12.8	--	6.3
FSW 564-M01-08GY	6.64	05/29/07	12.0	--	11.1
FSW 564-M01-09Y	1.64	05/29/07	11.1	--	17.4
FSW 564-M01-10P	-8.36	05/29/07	12.3	--	19.5
FSW 564-M01-11GN	-18.36	05/29/07	12.1	--	14.7
FSW 564-M01-12R	-28.37	05/29/07	12.3	--	6.8
FSW 564-M01-13BU	-38.38	05/29/07	12.3	--	3.7
FSW 564-M01-14BK	-48.38	05/29/07	12.3	--	E 2.6
FSW 564-M01-15W	-58.36	05/29/07	12.3	--	3.2
FSW 564-0138	-82.31	05/31/07	11.9	--	E 2.1

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 565-M01-01PT	35.68	05/30/07	USGS	P	60.3	5.76	186	M
FSW 565-M01-02GNT	28.65	05/30/07	USGS	P	114	5.95	115	M
FSW 565-M01-03RT	20.65	05/30/07	USGS	P	181	6.00	E 0.6	C
FSW 565-M01-04BUT	12.63	05/30/07	USGS	P	210	6.10	E 0.0	C
FSW 565-M01-05BKT	6.64	05/30/07	USGS	P	263	6.09	E 0.1	C
FSW 565-M01-06WT	0.64	05/30/07	USGS	P	262	6.01	E 0.3	C
FSW 565-M01-07O	-5.39	05/30/07	USGS	P	260	5.97	E 0.3	C
FSW 565-M01-08GY	-11.39	05/30/07	USGS	P	213	5.70	E 1.0	C
FSW 565-M01-09Y	-19.39	05/30/07	USGS	P	168	5.44	186	M
FSW 565-M01-10P	-27.39	05/30/07	USGS	P	164	5.49	214	M
FSW 565-M01-11GN	-35.42	05/30/07	USGS	P	125	5.47	225	M
FSW 565-M01-12R	-43.41	05/30/07	USGS	P	104	5.54	233	M
FSW 565-M01-13BU	-51.44	05/30/07	USGS	P	78.8	5.63	254	M
FSW 565-M01-14BK	-59.44	05/30/07	USGS	P	70.7	5.62	250	M
FSW 565-M01-15W	-67.44	05/30/07	USGS	P	73.9	5.64	256	M
FSW 566-M02-01PT (65-12)	41.05	07/18/07	USGS	P	23.7	5.25	114	M
FSW 566-M02-02GNT (65-12)	38.97	07/18/07	USGS	P	37.9	5.09	156	M
FSW 566-M02-03RT (65-12)	36.89	07/18/07	USGS	P	52.5	5.63	241	M
FSW 566-M02-04BUT (65-12)	34.81	07/18/07	USGS	P	62.1	5.65	220	M
FSW 566-M02-05BKT (65-12)	32.73	07/18/07	USGS	P	74.3	5.75	125	M
FSW 566-M02-06WT (65-12)	30.59	07/18/07	USGS	P	85.3	5.82	6.3	C

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 565-M01-01PT	35.68	05/30/07	10.8	--	E 0.5
FSW 565-M01-02GNT	28.65	05/30/07	11.2	--	36.9
FSW 565-M01-03RT	20.65	05/30/07	11.6	--	45.8
FSW 565-M01-04BUT	12.63	05/30/07	11.6	--	44.2
FSW 565-M01-05BKT	6.64	05/30/07	11.8	--	34.2
FSW 565-M01-06WT	0.64	05/30/07	11.5	--	25.8
FSW 565-M01-07O	-5.39	05/30/07	11.5	--	19.5
FSW 565-M01-08GY	-11.39	05/30/07	11.7	--	12.6
FSW 565-M01-09Y	-19.39	05/30/07	11.6	--	8.4
FSW 565-M01-10P	-27.39	05/30/07	11.5	--	8.4
FSW 565-M01-11GN	-35.42	05/30/07	11.5	--	6.8
FSW 565-M01-12R	-43.41	05/30/07	12.0	--	7.9
FSW 565-M01-13BU	-51.44	05/30/07	11.6	--	5.8
FSW 565-M01-14BK	-59.44	05/30/07	11.8	--	E 2.6
FSW 565-M01-15W	-67.44	05/30/07	11.6	--	E 1.6
FSW 566-M02-01PT (65-12)	41.05	07/18/07	11.9	0.02	E 1.1
FSW 566-M02-02GNT (65-12)	38.97	07/18/07	11.4	0.01	E 0.5
FSW 566-M02-03RT (65-12)	36.89	07/18/07	11.6	--	E 1.1
FSW 566-M02-04BUT (65-12)	34.81	07/18/07	11.6	--	4.7
FSW 566-M02-05BKT (65-12)	32.73	07/18/07	11.7	--	21.1
FSW 566-M02-06WT (65-12)	30.59	07/18/07	11.7	--	40.5

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 566-M02-07O (65-12)	28.51	07/18/07	USGS	P	96.1	5.97	E 1.5	C
FSW 566-M02-08GY (65-12)	26.43	07/18/07	USGS	P	104	6.03	E 1.2	C
FSW 566-M02-09Y (65-12)	24.35	07/18/07	USGS	P	112	6.07	E 0.4	C
FSW 566-M02-10P (65-12)	22.27	07/18/07	USGS	P	115	6.08	E 0.0	C
FSW 566-M02-11GN (65-12)	20.27	07/18/07	USGS	P	118	6.09	E 0.5	C
FSW 566-M02-12R (65-12)	18.19	07/18/07	USGS	P	120	6.12	E 0.0	C
FSW 566-M02-13BU (65-12)	16.11	07/18/07	USGS	P	134	6.10	3.2	C
FSW 566-M02-14BK (65-12)	14.03	07/18/07	USGS	P	165	6.09	E 0.0	C
FSW 566-M02-15W (65-12)	11.95	07/18/07	USGS	P	170	6.09	E 0.0	C
FSW 566-M01-01PT	7.01	07/18/07	USGS	P	167	6.11	E 1.0	C
FSW 566-M01-02GNT	2.00	07/18/07	USGS	P	174	6.21	E 1.0	C
FSW 566-M01-03RT	-3.00	07/18/07	USGS	P	197	6.15	E 2.9	C
FSW 566-M01-04BUT	-7.98	07/18/07	USGS	P	254	6.32	E 0.0	C
FSW 566-M01-05BKT	-12.98	07/18/07	USGS	P	275	6.20	E 0.0	C
FSW 566-M01-06WT	-17.96	07/18/07	USGS	P	244	5.20	E 0.0	C
FSW 566-M01-07O	-22.96	07/18/07	USGS	P	222	5.35	90	M
FSW 566-M01-08GY	-27.95	07/18/07	USGS	P	231	5.57	195	M
FSW 566-M01-09Y	-32.95	07/18/07	USGS	P	240	5.49	227	M
FSW 566-M01-10P	-37.96	07/18/07	USGS	P	230	5.49	264	M
FSW 566-M01-11GN	-42.96	07/18/07	USGS	P	180	5.41	262	M
FSW 566-M01-12R	-47.94	07/18/07	USGS	P	161	5.21	270	M
FSW 566-M01-13BU	-52.94	07/18/07	USGS	P	69.3	5.54	277	M
FSW 566-M01-14BK	-57.93	07/18/07	USGS	P	67.0	5.72	268	M

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 566-M02-07O (65-12)	28.51	07/18/07	12.5	0.23	47.9
FSW 566-M02-08GY (65-12)	26.43	07/18/07	11.9	--	45.8
FSW 566-M02-09Y (65-12)	24.35	07/18/07	12.5	0.29	35.8
FSW 566-M02-10P (65-12)	22.27	07/18/07	12.2	--	22.6
FSW 566-M02-11GN (65-12)	20.27	07/18/07	12.2	0.33	12.6
FSW 566-M02-12R (65-12)	18.19	07/18/07	12.7	--	23.2
FSW 566-M02-13BU (65-12)	16.11	07/18/07	12.6	0.30	20.0
FSW 566-M02-14BK (65-12)	14.03	07/18/07	12.9	--	14.7
FSW 566-M02-15W (65-12)	11.95	07/18/07	12.3	0.30	11.1
FSW 566-M01-01PT	7.01	07/18/07	12.5	--	10.0
FSW 566-M01-02GNT	2.00	07/18/07	12.7	0.39	15.3
FSW 566-M01-03RT	-3.00	07/18/07	14.8	0.29	31.1
FSW 566-M01-04BUT	-7.98	07/18/07	12.5	0.39	42.6
FSW 566-M01-05BKT	-12.98	07/18/07	12.8	0.27	31.6
FSW 566-M01-06WT	-17.96	07/18/07	13.4	0.02	6.3
FSW 566-M01-07O	-22.96	07/18/07	12.4	0.05	5.3
FSW 566-M01-08GY	-27.95	07/18/07	12.7	0.05	4.7
FSW 566-M01-09Y	-32.95	07/18/07	12.5	--	5.8
FSW 566-M01-10P	-37.96	07/18/07	12.6	--	12.1
FSW 566-M01-11GN	-42.96	07/18/07	12.6	0.03	3.7
FSW 566-M01-12R	-47.94	07/18/07	12.4	--	3.7
FSW 566-M01-13BU	-52.94	07/18/07	12.6	0.05	E 2.1
FSW 566-M01-14BK	-57.93	07/18/07	12.6	--	E 1.1

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 566-M01-15W	-62.93	07/18/07	USGS	P	70.3	5.69	256	M
FSW 567-M01-01PT	41.86	07/25/07	USGS	P	48.6	5.00	264	M
FSW 567-M01-02GNT	37.86	07/25/07	USGS	P	54.6	5.41	266	M
FSW 567-M01-03RT	33.86	07/25/07	USGS	P	65.4	5.52	284	M
FSW 567-M01-04BUT	29.88	07/25/07	USGS	P	94.4	5.62	212	M
FSW 567-M01-05BKT	25.88	07/25/07	USGS	P	133	5.60	119	M
FSW 567-M01-06WT	21.88	07/25/07	USGS	P	217	5.65	E 0.7	C
FSW 567-M01-07O	17.88	07/25/07	USGS	P	210	5.73	62	M
FSW 567-M01-08GY	14.88	07/25/07	USGS	P	197	5.77	E 1.0	C
FSW 567-M01-09Y	11.88	07/25/07	USGS	P	194	5.77	67	M
FSW 567-M01-10P	7.90	07/25/07	USGS	P	191	5.85	7.1	C
FSW 567-M01-12R	1.90	07/25/07	USGS	P	197	6.33	E 1.5	C
FSW 567-M01-13BU	-1.10	07/25/07	USGS	P	226	6.29	E 1.0	C
FSW 567-M01-14BK	-4.10	07/25/07	USGS	P	225	6.09	E 2.8	C
FSW 567-M01-15W	-7.10	07/25/07	USGS	P	223	6.03	3.4	C
FSW 567-M02-01PT	-8.79	07/25/07	USGS	P	238	6.06	80	M
FSW 567-M02-02GNT	-11.81	07/25/07	USGS	P	237	6.09	E 1.3	C
FSW 567-M02-04BUT	-17.81	07/25/07	USGS	P	202	6.12	68	M
FSW 567-M02-05BKT	-20.82	07/25/07	USGS	P	188	6.14	E 1.0	C
FSW 567-M02-06WT	-23.82	07/25/07	USGS	P	164	6.09	E 1.6	C
FSW 567-M02-07O	-26.82	07/25/07	USGS	P	217	5.83	E 2.8	C
FSW 567-M02-08GY	-30.82	07/25/07	USGS	P	205	5.41	170	M

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 566-M01-15W	-62.93	07/18/07	12.8	0.08	3.7
FSW 567-M01-01PT	41.86	07/25/07	12.4	--	E 0.0
FSW 567-M01-02GNT	37.86	07/25/07	12.8	--	E 2.1
FSW 567-M01-03RT	33.86	07/25/07	12.7	--	13.7
FSW 567-M01-04BUT	29.88	07/25/07	12.7	--	26.3
FSW 567-M01-05BKT	25.88	07/25/07	12.7	--	29.0
FSW 567-M01-06WT	21.88	07/25/07	12.5	--	29.5
FSW 567-M01-07O	17.88	07/25/07	12.6	--	35.3
FSW 567-M01-08GY	14.88	07/25/07	12.7	--	36.3
FSW 567-M01-09Y	11.88	07/25/07	13.1	--	27.9
FSW 567-M01-10P	7.90	07/25/07	13.2	--	12.6
FSW 567-M01-12R	1.90	07/25/07	12.9	--	105.3
FSW 567-M01-13BU	-1.10	07/25/07	13.6	--	104.2
FSW 567-M01-14BK	-4.10	07/25/07	13.3	--	57.9
FSW 567-M01-15W	-7.10	07/25/07	13.5	--	50.0
FSW 567-M02-01PT	-8.79	07/25/07	13.7	--	45.3
FSW 567-M02-02GNT	-11.81	07/25/07	14.2	--	33.2
FSW 567-M02-04BUT	-17.81	07/25/07	13.6	--	46.3
FSW 567-M02-05BKT	-20.82	07/25/07	13.9	--	44.2
FSW 567-M02-06WT	-23.82	07/25/07	13.5	--	21.6
FSW 567-M02-07O	-26.82	07/25/07	13.3	--	12.6
FSW 567-M02-08GY	-30.82	07/25/07	13.9	--	7.9

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 567-M02-09Y	-33.82	07/25/07	USGS	P	200	5.41	217	M
FSW 567-M02-10P	-36.82	07/25/07	USGS	P	181	5.48	276	M
FSW 567-M02-11GN	-40.82	07/25/07	USGS	P	199	5.39	218	M
FSW 567-M02-12R	-44.82	07/25/07	USGS	P	203	5.45	202	M
FSW 567-M02-13BU	-48.82	07/25/07	USGS	P	186	5.50	197	M
FSW 567-M02-14BK	-52.84	07/25/07	USGS	P	101	5.66	181	M
FSW 567-M02-15W	-57.84	07/25/07	USGS	P	84.8	5.77	196	M
FSW 570-0056	41.38	06/07/07	USGS	K	44.8	5.49	386	M
FSW 570-0073	24.03	06/07/07	USGS	K	137	6.26	E 2.4	C
FSW 570-0091	6.41	06/07/07	USGS	K	128	6.16	6.8	C
FSW 570-0111	-13.55	06/07/07	USGS	K	133	5.86	210	M
FSW 572-0055	41.19	06/08/07	USGS	K	109	5.77	159	M
FSW 572-0071	26.20	06/08/07	USGS	K	217	6.04	3.4	C
FSW 572-0086	11.39	06/08/07	USGS	K	192	5.74	4.1	C
FSW 572-0101	-3.76	06/08/07	USGS	K	118	5.79	4.5	C
FSW 572-0115	-17.84	06/08/07	USGS	K	245	5.66	327	M
FSW 572-0131	-34.05	06/08/07	USGS	K	139	5.72	331	M
FSW 572-0146	-48.78	06/08/07	USGS	K	80.9	5.76	336	M
FSW 573-M01-01PT	42.55	05/22/07	USGS	P	53.1	5.39	295	M
FSW 573-M01-02GNT	34.52	05/22/07	USGS	P	119	5.87	108	M

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 567-M02-09Y	-33.82	07/25/07	13.9	--	4.7
FSW 567-M02-10P	-36.82	07/25/07	13.7	--	5.3
FSW 567-M02-11GN	-40.82	07/25/07	13.5	--	3.7
FSW 567-M02-12R	-44.82	07/25/07	13.6	--	5.3
FSW 567-M02-13BU	-48.82	07/25/07	13.5	--	7.4
FSW 567-M02-14BK	-52.84	07/25/07	13.8	--	10.5
FSW 567-M02-15W	-57.84	07/25/07	13.6	--	12.1
FSW 570-0056	41.38	06/07/07	11.8	--	E 0.5
FSW 570-0073	24.03	06/07/07	11.5	--	9.5
FSW 570-0091	6.41	06/07/07	11.4	--	44.8
FSW 570-0111	-13.55	06/07/07	11.7	--	19.5
FSW 572-0055	41.19	06/08/07	12.9	--	43.2
FSW 572-0071	26.20	06/08/07	12.1	--	32.6
FSW 572-0086	11.39	06/08/07	12.4	--	3.2
FSW 572-0101	-3.76	06/08/07	12.3	--	9.0
FSW 572-0115	-17.84	06/08/07	11.6	--	11.6
FSW 572-0131	-34.05	06/08/07	11.7	--	6.8
FSW 572-0146	-48.78	06/08/07	11.8	--	7.9
FSW 573-M01-01PT	42.55	05/22/07	11.1	--	E 0.5
FSW 573-M01-02GNT	34.52	05/22/07	12.5	--	35.3

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 573-M01-03RT	26.49	05/22/07	USGS	P	159	5.85	E 0.3	C
FSW 573-M01-04BUT	19.46	05/22/07	USGS	P	171	5.97	E 0.0	C
FSW 573-M01-05BKT	12.46	05/22/07	USGS	P	202	6.18	E 0.1	C
FSW 573-M01-06WT	5.43	05/22/07	USGS	P	201	6.18	E 0.2	C
FSW 573-M01-07O	-1.58	05/22/07	USGS	P	180	5.63	E 0.3	C
FSW 573-M01-08GY	-8.58	05/22/07	USGS	P	146	5.72	E 0.2	C
FSW 573-M01-09Y	-16.60	05/22/07	USGS	P	127	5.74	E 1.1	C
FSW 573-M01-10P	-24.61	05/22/07	USGS	P	136	5.71	226	M
FSW 573-M01-11GN	-32.60	05/22/07	USGS	P	109	5.62	260	M
FSW 573-M01-12R	-40.62	05/22/07	USGS	P	72.5	5.71	205	M
FSW 573-M01-13BU	-48.62	05/22/07	USGS	P	69.0	5.73	251	M
FSW 573-M01-14BK	-56.64	05/22/07	USGS	P	70.9	5.79	232	M
FSW 573-M01-15W	-64.63	05/22/07	USGS	P	79.7	6.19	256	M
FSW 575-M02-01PT (44-19)	41.16	06/26/07	USGS	P	37.0	5.66	326	M
FSW 575-M02-02GNT (44-19)	39.08	06/26/07	USGS	P	50.3	5.70	313	M
FSW 575-M02-03RT (44-19)	36.99	06/26/07	USGS	P	57.9	5.81	275	M
FSW 575-M02-04BUT (44-19)	34.91	06/26/07	USGS	P	70.7	5.87	230	M
FSW 575-M02-05BKT (44-19)	32.83	06/26/07	USGS	P	77.5	5.94	170	M
FSW 575-M02-06WT (44-19)	30.72	06/26/07	USGS	P	88.0	6.00	3.3	C
FSW 575-M02-07O (44-19)	28.63	06/26/07	USGS	P	91.1	6.03	E 3.1	C
FSW 575-M02-08GY (44-19)	26.55	06/26/07	USGS	P	93.6	6.09	E 1.8	C
FSW 575-M02-09Y (44-19)	24.47	06/26/07	USGS	P	90.5	6.07	E 1.1	C

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 573-M01-03RT	26.49	05/22/07	11.7	--	25.8
FSW 573-M01-04BUT	19.46	05/22/07	11.6	--	22.1
FSW 573-M01-05BKT	12.46	05/22/07	11.3	--	23.2
FSW 573-M01-06WT	5.43	05/22/07	11.5	--	35.3
FSW 573-M01-07O	-1.58	05/22/07	11.4	--	10.0
FSW 573-M01-08GY	-8.58	05/22/07	11.4	--	9.5
FSW 573-M01-09Y	-16.60	05/22/07	11.5	--	10.5
FSW 573-M01-10P	-24.61	05/22/07	11.4	--	8.4
FSW 573-M01-11GN	-32.60	05/22/07	11.4	--	7.4
FSW 573-M01-12R	-40.62	05/22/07	11.3	--	9.5
FSW 573-M01-13BU	-48.62	05/22/07	11.3	--	4.2
FSW 573-M01-14BK	-56.64	05/22/07	11.4	--	E 2.1
FSW 573-M01-15W	-64.63	05/22/07	11.4	--	3.2
FSW 575-M02-01PT (44-19)	41.16	06/26/07	13.2	0.03	E 1.1
FSW 575-M02-02GNT (44-19)	39.08	06/26/07	13.1	0.05	E 1.1
FSW 575-M02-03RT (44-19)	36.99	06/26/07	13.1	--	18.4
FSW 575-M02-04BUT (44-19)	34.91	06/26/07	13.4	--	42.6
FSW 575-M02-05BKT (44-19)	32.83	06/26/07	13.4	0.16	54.8
FSW 575-M02-06WT (44-19)	30.72	06/26/07	14.4	--	60.0
FSW 575-M02-07O (44-19)	28.63	06/26/07	14.4	0.24	59.5
FSW 575-M02-08GY (44-19)	26.55	06/26/07	14.0	--	47.9
FSW 575-M02-09Y (44-19)	24.47	06/26/07	14.2	0.29	36.3

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 575-M02-10P (44-19)	22.38	06/26/07	USGS	P	92.6	6.13	4.1	C
FSW 575-M02-11GN (44-19)	20.38	06/26/07	USGS	P	89.5	6.20	E 1.3	C
FSW 575-M02-12R (44-19)	18.30	06/26/07	USGS	P	85.0	6.18	E 0.0	C
FSW 575-M02-13BU (44-19)	16.22	06/26/07	USGS	P	119	6.17	E 3.0	C
FSW 575-M02-14BK (44-19)	14.13	06/26/07	USGS	P	138	6.16	4.5	C
FSW 575-M02-15W (44-19)	12.05	06/26/07	USGS	P	166	6.13	E 2.5	C
FSW 575-M01-01PT	8.19	06/26/07	USGS	P	185	6.10	8.1	C
FSW 575-M01-02GNT	3.17	06/26/07	USGS	P	181	6.13	E 0.5	C
FSW 575-M01-03RT	-1.83	06/26/07	USGS	P	211	6.18	E 0.7	C
FSW 575-M01-04BUT	-6.87	06/26/07	USGS	P	180	6.44	E 0.0	C
FSW 575-M01-05BKT	-11.87	06/26/07	USGS	P	212	6.50	E 0.0	C
FSW 575-M01-06WT	-16.89	06/26/07	USGS	P	185	6.56	E 0.0	C
FSW 575-M01-07O	-21.89	06/26/07	USGS	P	200	6.36	E 0.0	C
FSW 575-M01-08GY	-26.92	06/26/07	USGS	P	173	5.99	46	M
FSW 575-M01-09Y	-31.92	06/26/07	USGS	P	202	5.80	190	M
FSW 575-M01-10P	-36.95	06/26/07	USGS	P	238	5.54	235	M
FSW 575-M01-11GN	-41.95	06/26/07	USGS	P	189	5.54	255	M
FSW 575-M01-12R	-46.95	06/26/07	USGS	P	178	5.57	252	M
FSW 575-M01-13BU	-51.95	06/26/07	USGS	P	152	5.47	275	M
FSW 575-M01-14BK	-56.96	06/26/07	USGS	P	90.6	5.33	267	M
FSW 575-M01-15W	-61.96	06/26/07	USGS	P	56.3	5.67	259	M
FSW 577-0051	44.43	07/19/07	USGS	K	73.1	5.50	180	M

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 575-M02-10P (44-19)	22.38	06/26/07	14.2	--	23.2
FSW 575-M02-11GN (44-19)	20.38	06/26/07	14.3	0.29	13.7
FSW 575-M02-12R (44-19)	18.30	06/26/07	13.2	--	29.5
FSW 575-M02-13BU (44-19)	16.22	06/26/07	14.4	0.30	17.9
FSW 575-M02-14BK (44-19)	14.13	06/26/07	13.6	--	6.8
FSW 575-M02-15W (44-19)	12.05	06/26/07	13.2	0.30	5.8
FSW 575-M01-01PT	8.19	06/26/07	13.7	--	5.3
FSW 575-M01-02GNT	3.17	06/26/07	13.9	0.29	4.7
FSW 575-M01-03RT	-1.83	06/26/07	12.8	--	5.3
FSW 575-M01-04BUT	-6.87	06/26/07	12.9	0.43	15.3
FSW 575-M01-05BKT	-11.87	06/26/07	14.0	0.45	17.9
FSW 575-M01-06WT	-16.89	06/26/07	13.0	0.43	20.5
FSW 575-M01-07O	-21.89	06/26/07	15.2	0.32	19.0
FSW 575-M01-08GY	-26.92	06/26/07	14.2	--	E 1.6
FSW 575-M01-09Y	-31.92	06/26/07	13.5	0.10	E 2.6
FSW 575-M01-10P	-36.95	06/26/07	14.6	--	3.7
FSW 575-M01-11GN	-41.95	06/26/07	13.9	0.04	4.2
FSW 575-M01-12R	-46.95	06/26/07	13.7	--	4.2
FSW 575-M01-13BU	-51.95	06/26/07	14.1	0.03	4.2
FSW 575-M01-14BK	-56.96	06/26/07	14.6	--	3.7
FSW 575-M01-15W	-61.96	06/26/07	14.6	0.06	5.3
FSW 577-0051	44.43	07/19/07	13.9	0.06	47.4

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 577-0061	34.74	07/19/07	USGS	K	88.1	5.67	E 2.8	C
FSW 577-0071	24.46	07/19/07	USGS	K	159	5.73	3.5	C
FSW 577-0081	14.43	07/19/07	USGS	K	240	5.74	E 0.0	C
FSW 577-0097	-0.83	07/19/07	USGS	K	198	5.77	E 0.0	C
FSW 577-0111	-15.97	07/19/07	USGS	K	105	5.56	206	M
FSW 577-0126	-30.87	07/19/07	USGS	K	163	5.67	306	M
FSW 577-0142	-45.64	07/19/07	USGS	K	126	5.73	280	M
FSW 582-0013 (30MW0582D)	35.94	10/11/07	USGS	G	183	6.24	E 2.4	C
FSW 582-0038 (30MW0582C)	10.81	10/11/07	USGS	G	157	6.28	E 0.0	C
FSW 582-0073 (30MW0582B)	-24.27	10/11/07	USGS	G	144	6.17	E 0.0	C
FSW 582-0168 (30MW0582A)	-119.65	10/11/07	USGS	G	80.5	6.60	199	M
FSW 584-0148 (30MW0584B)	-99.42	10/11/07	AFCEE	G	209	6.03	14	M
FSW 585-0048 (30MW0585D)	38.34	09/21/07	AFCEE	G	260	4.48	296	M
FSW 585-0084 (30MW0585C)	-0.03	09/21/07	AFCEE	G	233	5.95	12	M
FSW 585-0099 (30MW0585B)	-15.15	09/21/07	AFCEE	G	295	6.44	15	M
FSW 585-0124 (30MW0585A)	-40.03	09/21/07	AFCEE	G	217	5.96	13	M
FSW 586-0058	42.17	07/17/07	USGS	K	73.3	5.54	133	M
FSW 586-0068	32.26	07/17/07	USGS	K	123	5.89	4.8	C
FSW 586-0078	22.44	07/17/07	USGS	K	160	5.76	9.1	C

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 577-0061	34.74	07/19/07	13.4	0.14	34.2
FSW 577-0071	24.46	07/19/07	13.4	0.16	45.8
FSW 577-0081	14.43	07/19/07	13.7	0.14	49.5
FSW 577-0097	-0.83	07/19/07	13.7	0.19	37.9
FSW 577-0111	-15.97	07/19/07	12.7	0.12	15.3
FSW 577-0126	-30.87	07/19/07	12.6	0.07	7.9
FSW 577-0142	-45.64	07/19/07	13.2	0.12	6.3
FSW 582-0013 (30MW0582D)	35.94	10/11/07	15.7	--	--
FSW 582-0038 (30MW0582C)	10.81	10/11/07	13.2	--	--
FSW 582-0073 (30MW0582B)	-24.27	10/11/07	14.1	--	--
FSW 582-0168 (30MW0582A)	-119.65	10/11/07	13.4	--	--
FSW 584-0148 (30MW0584B)	-99.42	10/11/07	16.2	--	--
FSW 585-0048 (30MW0585D)	38.34	09/21/07	15.9	--	--
FSW 585-0084 (30MW0585C)	-0.03	09/21/07	16.5	--	--
FSW 585-0099 (30MW0585B)	-15.15	09/21/07	15.0	--	--
FSW 585-0124 (30MW0585A)	-40.03	09/21/07	15.6	--	--
FSW 586-0058	42.17	07/17/07	12.7	0.11	48.4
FSW 586-0068	32.26	07/17/07	13.0	0.26	32.1
FSW 586-0078	22.44	07/17/07	13.8	0.22	39.5

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 586-0088	12.62	07/17/07	USGS	K	225	5.74	5.5	C
FSW 586-0098	2.18	07/17/07	USGS	K	117	6.00	7.8	C
FSW 586-0113	-12.25	07/17/07	USGS	K	106	5.83	141	M
FSW 586-0128	-27.47	07/17/07	USGS	K	159	5.70	307	M
FSW 586-0143	-42.44	07/17/07	USGS	K	130	5.55	303	M
FSW 587-0045 (30MW0587D)	44.25	07/31/07	USGS	K	35.5	5.09	358	M
FSW 587-0098 (30MW0587C)	-11.05	07/31/07	USGS	K	124	6.08	207	M
FSW 587-0118 (30MW0587B)	-30.88	07/31/07	USGS	K	197	5.51	102	M
FSW 587-0167 (30MW0587A)	-80.65	07/31/07	USGS	K	270	5.74	253	M
FSW 588-0089 (30MW0588)	8.05	07/31/07	USGS	K	99.1	5.55	266	M
FSW 589-0078 (30MW0589)	19.57	07/31/07	USGS	K	122	5.49	313	M
FSW 591-M01-01PT	41.80	05/16/07	USGS	P	62.8	5.31	289	M
FSW 591-M01-02GNT	37.85	05/16/07	USGS	P	87.5	5.61	196	M
FSW 591-M01-03RT	33.85	05/16/07	USGS	P	123	5.94	62	M
FSW 591-M01-04BUT	29.84	05/16/07	USGS	P	183	5.96	E 0.0	C
FSW 591-M01-05BKT	25.84	05/16/07	USGS	P	197	5.87	E 0.0	C
FSW 591-M01-06WT	21.84	05/16/07	USGS	P	203	5.73	E 0.0	C
FSW 591-M01-07O	17.85	05/16/07	USGS	P	217	5.70	E 0.0	C
FSW 591-M01-08GY	14.85	05/16/07	USGS	P	234	5.67	E 0.0	C

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 586-0088	12.62	07/17/07	13.0	0.20	38.4
FSW 586-0098	2.18	07/17/07	13.1	0.27	49.0
FSW 586-0113	-12.25	07/17/07	13.4	0.15	13.2
FSW 586-0128	-27.47	07/17/07	12.8	0.07	4.2
FSW 586-0143	-42.44	07/17/07	12.7	0.09	5.3
FSW 587-0045 (30MW0587D)	44.25	07/31/07	15.4	--	E 1.1
FSW 587-0098 (30MW0587C)	-11.05	07/31/07	13.1	--	10.0
FSW 587-0118 (30MW0587B)	-30.88	07/31/07	14.7	--	E 0.0
FSW 587-0167 (30MW0587A)	-80.65	07/31/07	14.6	--	E 1.6
FSW 588-0089 (30MW0588)	8.05	07/31/07	14.5	--	10.5
FSW 589-0078 (30MW0589)	19.57	07/31/07	13.6	--	3.2
FSW 591-M01-01PT	41.80	05/16/07	10.7	--	E 0.5
FSW 591-M01-02GNT	37.85	05/16/07	11.2	--	23.7
FSW 591-M01-03RT	33.85	05/16/07	11.7	--	45.8
FSW 591-M01-04BUT	29.84	05/16/07	11.4	--	43.7
FSW 591-M01-05BKT	25.84	05/16/07	12.2	--	37.9
FSW 591-M01-06WT	21.84	05/16/07	12.0	--	29.0
FSW 591-M01-07O	17.85	05/16/07	12.0	--	24.2
FSW 591-M01-08GY	14.85	05/16/07	12.0	--	20.0

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 591-M01-09Y	11.85	05/16/07	USGS	P	237	5.71	81	M
FSW 591-M01-10P	8.83	05/16/07	USGS	P	237	5.81	E 0.0	C
FSW 591-M01-11GN	5.83	05/16/07	USGS	P	263	5.85	E 0.0	C
FSW 591-M01-12R	2.83	05/16/07	USGS	P	211	6.04	E 0.0	C
FSW 591-M01-13BU	-0.16	05/16/07	USGS	P	218	6.08	E 0.0	C
FSW 591-M01-14BK	-3.16	05/16/07	USGS	P	240	6.00	E 0.0	C
FSW 591-M01-15W	-6.16	05/16/07	USGS	P	274	5.88	E 0.0	C
FSW 591-M02-01PT	-8.76	05/16/07	USGS	P	277	5.79	E 0.0	C
FSW 591-M02-02GNT	-11.69	05/16/07	USGS	P	265	5.79	E 0.0	C
FSW 591-M02-03RT	-14.69	05/16/07	USGS	P	264	5.73	E 0.0	C
FSW 591-M02-04BUT	-17.69	05/16/07	USGS	P	262	5.82	86	M
FSW 591-M02-05BKT	-20.71	05/16/07	USGS	P	216	5.91	215	M
FSW 591-M02-06WT	-23.71	05/16/07	USGS	P	206	5.90	224	M
FSW 591-M02-07O	-26.71	05/16/07	USGS	P	212	5.85	233	M
FSW 591-M02-08GY	-30.72	05/16/07	USGS	P	211	5.43	249	M
FSW 591-M02-09Y	-34.72	05/16/07	USGS	P	213	5.48	235	M
FSW 591-M02-10P	-38.72	05/16/07	USGS	P	210	5.42	261	M
FSW 591-M02-11GN	-42.76	05/16/07	USGS	P	166	5.45	253	M
FSW 591-M02-12R	-46.76	05/16/07	USGS	P	136	5.54	247	M
FSW 591-M02-13BU	-50.78	05/16/07	USGS	P	125	5.57	234	M
FSW 591-M02-14BK	-54.78	05/16/07	USGS	P	70.0	5.77	244	M
FSW 591-M02-15W	-58.78	05/16/07	USGS	P	69.4	5.80	253	M

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 591-M01-09Y	11.85	05/16/07	11.9	--	22.1
FSW 591-M01-10P	8.83	05/16/07	12.2	--	24.2
FSW 591-M01-11GN	5.83	05/16/07	12.7	--	26.3
FSW 591-M01-12R	2.83	05/16/07	12.6	--	21.1
FSW 591-M01-13BU	-0.16	05/16/07	12.8	--	15.3
FSW 591-M01-14BK	-3.16	05/16/07	12.1	--	10.0
FSW 591-M01-15W	-6.16	05/16/07	12.2	--	7.4
FSW 591-M02-01PT	-8.76	05/16/07	12.0	--	6.3
FSW 591-M02-02GNT	-11.69	05/16/07	11.8	--	5.3
FSW 591-M02-03RT	-14.69	05/16/07	11.9	--	5.8
FSW 591-M02-04BUT	-17.69	05/16/07	11.7	--	5.3
FSW 591-M02-05BKT	-20.71	05/16/07	12.0	--	4.2
FSW 591-M02-06WT	-23.71	05/16/07	11.9	--	4.2
FSW 591-M02-07O	-26.71	05/16/07	12.5	--	4.2
FSW 591-M02-08GY	-30.72	05/16/07	12.5	--	E 2.1
FSW 591-M02-09Y	-34.72	05/16/07	12.3	--	4.7
FSW 591-M02-10P	-38.72	05/16/07	12.1	--	4.2
FSW 591-M02-11GN	-42.76	05/16/07	12.2	--	5.3
FSW 591-M02-12R	-46.76	05/16/07	12.2	--	5.8
FSW 591-M02-13BU	-50.78	05/16/07	12.1	--	5.8
FSW 591-M02-14BK	-54.78	05/16/07	12.3	--	8.4
FSW 591-M02-15W	-58.78	05/16/07	12.2	--	7.4

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 605-M01-12R	30.51	07/02/07	USGS	P	56	5.55	350	M
FSW 607-0140 (95MW0201)	-73.16	09/11/07	AFCEE	G	154	5.37	256	M
FSW 611-0185 (95MW0207A)	-133.90	08/27/07	AFCEE	G	144	6.67	8.7	M
FSW 612-0110 (95MW0208A)	-66.94	08/30/07	AFCEE	G	168	5.90	19	M
FSW 613-0085 (95MW0210B)	-5.60	08/23/07	USGS	K	98.5	5.60	5.6	C
FSW 613-0126 (95MW0210A)	-45.60	08/23/07	USGS	K	112	6.37	4.3	C
FSW 614-0235 (95MW0211A)	-153.73	08/27/07	AFCEE	G	194	6.13	15	M
FSW 615-0125 (95MW0212B)	-45.12	08/23/07	AFCEE	G	101	5.89	11	M
FSW 615-0189 (95MW0212A)	-109.12	08/23/07	AFCEE	G	163	6.00	11	M
FSW 618-M01-01PT	42.26	05/16/07	USGS	P	50.7	5.12	306	M
FSW 618-M01-02GNT	34.26	05/16/07	USGS	P	139	5.53	24	C
FSW 618-M01-03RT	26.22	05/16/07	USGS	P	145	5.58	E 0.9	C
FSW 618-M01-04BUT	19.04	05/16/07	USGS	P	153	5.57	7	C
FSW 618-M01-05BKT	12.04	05/16/07	USGS	P	128	5.77	267	M
FSW 618-M01-06WT	5.19	05/16/07	USGS	P	71.7	5.74	299	M
FSW 618-M01-07O	-1.87	05/16/07	USGS	P	72.1	5.73	291	M

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 605-M01-12R	30.51	07/02/07	12.0	--	--
FSW 607-0140 (95MW0201)	-73.16	09/11/07	13.8	--	--
FSW 611-0185 (95MW0207A)	-133.90	08/27/07	14.2	--	--
FSW 612-0110 (95MW0208A)	-66.94	08/30/07	15.0	--	--
FSW 613-0085 (95MW0210B)	-5.60	08/23/07	13.0	--	--
FSW 613-0126 (95MW0210A)	-45.60	08/23/07	12.7	--	--
FSW 614-0235 (95MW0211A)	-153.73	08/27/07	15.5	--	--
FSW 615-0125 (95MW0212B)	-45.12	08/23/07	15.6	--	--
FSW 615-0189 (95MW0212A)	-109.12	08/23/07	14.5	--	--
FSW 618-M01-01PT	42.26	05/16/07	6.1	--	E 0.0
FSW 618-M01-02GNT	34.26	05/16/07	3.7	--	13.7
FSW 618-M01-03RT	26.22	05/16/07	2.8	--	7.4
FSW 618-M01-04BUT	19.04	05/16/07	2.0	--	6.8
FSW 618-M01-05BKT	12.04	05/16/07	2.1	--	6.3
FSW 618-M01-06WT	5.19	05/16/07	2.4	--	6.3
FSW 618-M01-07O	-1.87	05/16/07	2.3	--	5.8

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 618-M01-08GY	-8.87	05/16/07	USGS	P	116	5.65	251	M
FSW 618-M01-09Y	-16.85	05/16/07	USGS	P	130	6.18	224	M
FSW 618-M01-10P	-24.87	05/16/07	USGS	P	130	6.22	227	M
FSW 618-M01-11GN	-32.90	05/16/07	USGS	P	129	6.21	245	M
FSW 618-M01-12R	-40.98	05/16/07	USGS	P	129	6.21	230	M
FSW 618-M01-13BU	-48.98	05/16/07	USGS	P	129	6.23	238	M
FSW 618-M01-14BK	-56.94	05/16/07	USGS	P	130	6.23	229	M
FSW 618-M01-15W	-64.95	05/16/07	USGS	P	128	6.29	249	M
FSW 619-M01-01PT	39.45	05/29/07	USGS	P	47.8	5.32	272	M
FSW 619-M01-03RT	23.45	05/29/07	USGS	P	218	5.77	E 1.0	C
FSW 619-M01-04BUT	15.45	05/29/07	USGS	P	190	5.98	E 0.0	C
FSW 619-M01-05BKT	9.45	05/29/07	USGS	P	190	6.03	E 0.0	C
FSW 619-M01-06WT	3.45	05/29/07	USGS	P	197	6.07	E 0.0	C
FSW 619-M01-07O	-2.55	05/29/07	USGS	P	195	6.12	E 0.0	C
FSW 619-M01-08GY	-8.55	05/29/07	USGS	P	193	6.25	E 0.0	C
FSW 619-M01-09Y	-16.55	05/29/07	USGS	P	162	6.46	E 0.0	C
FSW 619-M01-10P	-24.55	05/29/07	USGS	P	113	6.19	4.3	C
FSW 619-M01-11GN	-32.55	05/29/07	USGS	P	107	5.91	198	M
FSW 619-M01-12R	-40.55	05/29/07	USGS	P	96.5	5.67	191	M
FSW 619-M01-13BU	-48.55	05/29/07	USGS	P	77.8	5.65	165	M
FSW 619-M01-14BK	-56.55	05/29/07	USGS	P	85.9	5.66	19	C
FSW 619-M01-15W	-64.55	05/29/07	USGS	P	73.8	5.71	238	M

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 618-M01-08GY	-8.87	05/16/07	3.0	--	4.2
FSW 618-M01-09Y	-16.85	05/16/07	3.4	--	4.2
FSW 618-M01-10P	-24.87	05/16/07	3.6	--	3.2
FSW 618-M01-11GN	-32.90	05/16/07	3.4	--	E 2.1
FSW 618-M01-12R	-40.98	05/16/07	4.2	--	E 2.6
FSW 618-M01-13BU	-48.98	05/16/07	4.5	--	E 1.6
FSW 618-M01-14BK	-56.94	05/16/07	4.6	--	E 2.6
FSW 618-M01-15W	-64.95	05/16/07	4.3	--	E 1.6
FSW 619-M01-01PT	39.45	05/29/07	11.0	--	E 1.1
FSW 619-M01-03RT	23.45	05/29/07	11.6	--	44.2
FSW 619-M01-04BUT	15.45	05/29/07	11.9	--	43.2
FSW 619-M01-05BKT	9.45	05/29/07	11.5	--	36.9
FSW 619-M01-06WT	3.45	05/29/07	11.4	--	49.5
FSW 619-M01-07O	-2.55	05/29/07	12.0	--	51.1
FSW 619-M01-08GY	-8.55	05/29/07	11.6	--	36.3
FSW 619-M01-09Y	-16.55	05/29/07	11.6	--	46.9
FSW 619-M01-10P	-24.55	05/29/07	12.0	--	31.1
FSW 619-M01-11GN	-32.55	05/29/07	12.1	--	16.3
FSW 619-M01-12R	-40.55	05/29/07	11.6	--	13.2
FSW 619-M01-13BU	-48.55	05/29/07	11.6	--	9.0
FSW 619-M01-14BK	-56.55	05/29/07	11.6	--	5.8
FSW 619-M01-15W	-64.55	05/29/07	11.7	--	4.2

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 620-M01-01PT	39.76	06/01/07	USGS	P	136	5.75	258	M
FSW 620-M01-02GNT	31.76	06/01/07	USGS	P	83.5	5.63	231	M
FSW 620-M01-03RT	23.76	06/01/07	USGS	P	151	5.88	E 0.0	C
FSW 620-M01-04BUT	15.76	06/01/07	USGS	P	154	5.88	E 0.5	C
FSW 620-M01-05BKT	9.76	06/01/07	USGS	P	165	6.00	E 2.3	C
FSW 620-M01-06WT	3.76	06/01/07	USGS	P	152	5.98	E 0.3	C
FSW 620-M01-07O	-2.24	06/01/07	USGS	P	162	5.88	E 0.0	C
FSW 620-M01-08GY	-8.24	06/01/07	USGS	P	167	5.89	45	M
FSW 620-M01-09Y	-16.24	06/01/07	USGS	P	153	5.84	E 1.9	C
FSW 620-M01-10P	-24.24	06/01/07	USGS	P	110	5.76	258	M
FSW 620-M01-11GN	-32.24	06/01/07	USGS	P	95.6	5.70	271	M
FSW 620-M01-12R	-40.24	06/01/07	USGS	P	82.9	5.85	241	M
FSW 620-M01-13BU	-48.24	06/01/07	USGS	P	83.2	6.30	286	M
FSW 620-M01-14BK	-56.24	06/01/07	USGS	P	98.4	6.20	279	M
FSW 620-M01-15W	-64.26	06/01/07	USGS	P	84.4	6.13	251	M
FSW 621-M01-01PT	40.02	06/01/07	USGS	P	46.8	5.37	250	M
FSW 621-M01-02GNT	32.02	06/01/07	USGS	P	156	5.96	54	M
FSW 621-M01-03RT	24.02	06/01/07	USGS	P	168	6.18	55	M
FSW 621-M01-04BUT	16.02	06/01/07	USGS	P	187	6.28	4.4	C
FSW 621-M01-05BKT	10.02	06/01/07	USGS	P	192	6.44	3.6	C
FSW 621-M01-06WT	4.02	06/01/07	USGS	P	145	6.61	33	M

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 620-M01-01PT	39.76	06/01/07	6.8	--	3.2
FSW 620-M01-02GNT	31.76	06/01/07	7.0	--	9.5
FSW 620-M01-03RT	23.76	06/01/07	8.1	--	25.8
FSW 620-M01-04BUT	15.76	06/01/07	11.1	--	25.8
FSW 620-M01-05BKT	9.76	06/01/07	11.4	--	26.9
FSW 620-M01-06WT	3.76	06/01/07	8.7	--	22.1
FSW 620-M01-07O	-2.24	06/01/07	6.8	--	22.1
FSW 620-M01-08GY	-8.24	06/01/07	11.2	--	23.7
FSW 620-M01-09Y	-16.24	06/01/07	11.6	--	17.9
FSW 620-M01-10P	-24.24	06/01/07	11.5	--	15.3
FSW 620-M01-11GN	-32.24	06/01/07	11.6	--	12.6
FSW 620-M01-12R	-40.24	06/01/07	11.6	--	9.5
FSW 620-M01-13BU	-48.24	06/01/07	11.6	--	13.2
FSW 620-M01-14BK	-56.24	06/01/07	11.8	--	3.7
FSW 620-M01-15W	-64.26	06/01/07	11.7	--	3.2
FSW 621-M01-01PT	40.02	06/01/07	10.6	--	E 1.1
FSW 621-M01-02GNT	32.02	06/01/07	11.3	--	43.2
FSW 621-M01-03RT	24.02	06/01/07	11.6	--	45.8
FSW 621-M01-04BUT	16.02	06/01/07	12.1	--	39.0
FSW 621-M01-05BKT	10.02	06/01/07	11.8	--	55.8
FSW 621-M01-06WT	4.02	06/01/07	11.7	--	47.4

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 621-M01-07O	-1.98	06/01/07	USGS	P	150	6.68	7.8	C
FSW 621-M01-08GY	-7.98	06/01/07	USGS	P	80.9	6.02	167	M
FSW 621-M01-09Y	-15.98	06/01/07	USGS	P	82.8	5.86	188	M
FSW 621-M01-10P	-23.98	06/01/07	USGS	P	75.3	5.96	176	M
FSW 621-M01-11GN	-31.98	06/01/07	USGS	P	73.7	5.74	213	M
FSW 621-M01-12R	-39.98	06/01/07	USGS	P	74.9	5.71	203	M
FSW 621-M01-13BU	-47.98	06/01/07	USGS	P	78.2	5.77	237	M
FSW 621-M01-14BK	-55.98	06/01/07	USGS	P	74.1	5.91	263	M
FSW 621-M01-15W	-63.99	06/01/07	USGS	P	67.9	5.98	302	M
FSW 622-M01-01PT	38.42	05/30/07	USGS	P	105	5.49	102	M
FSW 622-M01-02GNT	30.42	05/30/07	USGS	P	88.5	5.92	265	M
FSW 622-M01-03RT	22.42	05/30/07	USGS	P	183	6.00	E 0.1	C
FSW 622-M01-04BUT	14.42	05/30/07	USGS	P	186	6.34	E 0.2	C
FSW 622-M01-05BKT	8.42	05/30/07	USGS	P	173	6.38	E 0.0	C
FSW 622-M01-06WT	2.42	05/30/07	USGS	P	161	6.25	E 0.5	C
FSW 622-M01-07O	-3.58	05/30/07	USGS	P	144	5.95	E 0.1	C
FSW 622-M01-08GY	-9.58	05/30/07	USGS	P	152	5.86	E 0.6	C
FSW 622-M01-09Y	-17.58	05/30/07	USGS	P	118	5.74	8.6	C
FSW 622-M01-10P	-25.58	05/30/07	USGS	P	82.9	5.84	229	M
FSW 622-M01-11GN	-33.58	05/30/07	USGS	P	83.2	5.74	232	M
FSW 622-M01-12R	-41.58	05/30/07	USGS	P	76.7	5.76	209	M
FSW 622-M01-13BU	-49.58	05/30/07	USGS	P	75.4	5.58	200	M

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 621-M01-07O	-1.98	06/01/07	11.8	--	45.8
FSW 621-M01-08GY	-7.98	06/01/07	11.7	--	23.7
FSW 621-M01-09Y	-15.98	06/01/07	11.7	--	12.1
FSW 621-M01-10P	-23.98	06/01/07	11.7	--	14.2
FSW 621-M01-11GN	-31.98	06/01/07	11.8	--	3.2
FSW 621-M01-12R	-39.98	06/01/07	11.6	--	3.7
FSW 621-M01-13BU	-47.98	06/01/07	11.6	--	E 2.6
FSW 621-M01-14BK	-55.98	06/01/07	11.8	--	3.7
FSW 621-M01-15W	-63.99	06/01/07	11.7	--	E 2.6
FSW 622-M01-01PT	38.42	05/30/07	9.6	--	E 0.0
FSW 622-M01-02GNT	30.42	05/30/07	10.5	--	33.7
FSW 622-M01-03RT	22.42	05/30/07	11.2	--	35.8
FSW 622-M01-04BUT	14.42	05/30/07	11.8	--	54.8
FSW 622-M01-05BKT	8.42	05/30/07	12.0	--	42.1
FSW 622-M01-06WT	2.42	05/30/07	11.6	--	41.1
FSW 622-M01-07O	-3.58	05/30/07	11.4	--	29.0
FSW 622-M01-08GY	-9.58	05/30/07	11.6	--	20.0
FSW 622-M01-09Y	-17.58	05/30/07	11.5	--	24.2
FSW 622-M01-10P	-25.58	05/30/07	11.6	--	17.9
FSW 622-M01-11GN	-33.58	05/30/07	11.7	--	13.2
FSW 622-M01-12R	-41.58	05/30/07	11.5	--	10.5
FSW 622-M01-13BU	-49.58	05/30/07	11.5	--	7.4

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 622-M01-14BK	-57.58	05/30/07	USGS	P	71.9	5.45	206	M
FSW 622-M01-15W	-65.55	05/30/07	USGS	P	95.1	5.99	E 0.0	C
FSW 624-M01-01PT	41.23	05/15/07	USGS	P	35.4	5.00	284	M
FSW 624-M01-02GNT	33.23	05/15/07	USGS	P	77.4	5.78	12	C
FSW 624-M01-03RT	25.23	05/15/07	USGS	P	133	6.13	E 0.0	C
FSW 624-M01-04BUT	17.23	05/15/07	USGS	P	134	6.07	E 0.0	C
FSW 624-M01-05BKT	11.23	05/15/07	USGS	P	139	6.13	E 0.0	C
FSW 624-M01-06WT	5.23	05/15/07	USGS	P	168	6.11	E 0.0	C
FSW 624-M01-07O	-0.77	05/15/07	USGS	P	194	6.04	E 0.0	C
FSW 624-M01-08GY	-6.77	05/15/07	USGS	P	216	5.85	E 0.0	C
FSW 624-M01-09Y	-14.77	05/15/07	USGS	P	198	5.74	E 0.1	C
FSW 624-M01-10P	-22.77	05/15/07	USGS	P	170	5.58	75	M
FSW 624-M01-11GN	-30.77	05/15/07	USGS	P	194	5.32	204	M
FSW 624-M01-12R	-38.77	05/15/07	USGS	P	174	5.39	246	M
FSW 624-M01-13BU	-46.77	05/15/07	USGS	P	160	5.31	226	M
FSW 624-M01-14BK	-54.77	05/15/07	USGS	P	154	5.25	239	M
FSW 627-0061 (95MW0802D)	29.16	08/02/07	USGS	K	153	5.59	3.9	C
FSW 627-0079 (95MW0802C)	10.51	08/02/07	USGS	K	175	5.50	72	M
FSW 627-0097 (95MW0802B)	-7.47	08/02/07	USGS	K	206	5.06	212	M
FSW 627-0115 (95MW0802A)	-24.87	08/02/07	USGS	K	129	5.64	268	M

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 622-M01-14BK	-57.58	05/30/07	11.5	--	5.8
FSW 622-M01-15W	-65.55	05/30/07	11.5	--	3.2
FSW 624-M01-01PT	41.23	05/15/07	11.2	--	E 0.5
FSW 624-M01-02GNT	33.23	05/15/07	11.7	--	32.1
FSW 624-M01-03RT	25.23	05/15/07	12.1	--	42.1
FSW 624-M01-04BUT	17.23	05/15/07	12.7	--	12.6
FSW 624-M01-05BKT	11.23	05/15/07	12.6	--	26.3
FSW 624-M01-06WT	5.23	05/15/07	12.2	--	40.5
FSW 624-M01-07O	-0.77	05/15/07	12.4	--	43.7
FSW 624-M01-08GY	-6.77	05/15/07	12.6	--	34.2
FSW 624-M01-09Y	-14.77	05/15/07	12.9	--	11.1
FSW 624-M01-10P	-22.77	05/15/07	12.8	--	10.0
FSW 624-M01-11GN	-30.77	05/15/07	12.3	--	4.2
FSW 624-M01-12R	-38.77	05/15/07	12.4	--	6.3
FSW 624-M01-13BU	-46.77	05/15/07	12.2	--	5.8
FSW 624-M01-14BK	-54.77	05/15/07	12.0	--	E 2.1
FSW 627-0061 (95MW0802D)	29.16	08/02/07	14.3	--	24.2
FSW 627-0079 (95MW0802C)	10.51	08/02/07	14.0	--	6.8
FSW 627-0097 (95MW0802B)	-7.47	08/02/07	14.7	--	8.4
FSW 627-0115 (95MW0802A)	-24.87	08/02/07	14.7	--	4.2

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 633-P01-0010	34.52	07/13/07	USGS	P	197	6.57	12	C
FSW 633-P01-0030	14.97	07/13/07	USGS	P	107	6.63	3.4	C
FSW 633-P01-0060	-15.02	07/13/07	USGS	P	117	7.48	21	C
FSW 633-P01-0100	-54.99	07/13/07	USGS	P	81.0	8.92	186	M
FSW 635-P01-0010	33.15	07/13/07	USGS	P	105	6.54	E 1.6	C
FSW 635-P01-0030	8.15	07/13/07	USGS	P	73.0	6.42	166	M
FSW 635-P01-0060	-17.00	07/13/07	USGS	P	88.0	6.65	160	M
FSW 635-P01-0100	-57.10	07/13/07	USGS	P	83.0	6.35	187	M
FSW 636-P01-0010	27.80	07/13/07	USGS	P	77.0	6.32	249	M
FSW 636-P01-0030	8.10	07/13/07	USGS	P	83.0	6.06	295	M
FSW 636-P01-0060	-21.80	07/13/07	USGS	P	169	6.14	200	M
FSW 636-P01-0100	-61.80	07/13/07	USGS	P	121	7.01	41	M
FSW 655-0055	-35.23	08/29/07	USGS	K	91.0	5.26	230	M
FSW 655-0075	-55.39	08/29/07	USGS	K	133	5.63	149	M
FSW 655-0090	-70.39	08/29/07	USGS	K	137	5.73	7.9	C
FSW 655-0110	-90.26	08/29/07	USGS	K	135	6.23	59	M
FSW 655-0142	-122.16	08/29/07	USGS	K	130	6.20	3.9	C
FSW 657-0063	-43.33	09/12/07	USGS	K	115	6.21	313	M
FSW 657-0078	-58.31	09/12/07	USGS	K	140	6.23	122	M

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 633-P01-0010	34.52	07/13/07	17.1	--	52.6
FSW 633-P01-0030	14.97	07/13/07	17.6	--	27.9
FSW 633-P01-0060	-15.02	07/13/07	24.0	--	6.3
FSW 633-P01-0100	-54.99	07/13/07	23.0	--	E 1.6
FSW 635-P01-0010	33.15	07/13/07	17.2	--	17.4
FSW 635-P01-0030	8.15	07/13/07	17.5	--	7.9
FSW 635-P01-0060	-17.00	07/13/07	17.5	--	E 1.1
FSW 635-P01-0100	-57.10	07/13/07	20.1	--	E 2.1
FSW 636-P01-0010	27.80	07/13/07	20.8	--	E 1.6
FSW 636-P01-0030	8.10	07/13/07	20.8	--	3.2
FSW 636-P01-0060	-21.80	07/13/07	20.1	--	E 2.1
FSW 636-P01-0100	-61.80	07/13/07	20.8	--	E 1.1
FSW 655-0055	-35.23	08/29/07	13.2	0.08	--
FSW 655-0075	-55.39	08/29/07	12.2	0.17	--
FSW 655-0090	-70.39	08/29/07	13.9	0.30	--
FSW 655-0110	-90.26	08/29/07	12.1	0.51	--
FSW 655-0142	-122.16	08/29/07	12.2	0.55	--
FSW 657-0063	-43.33	09/12/07	14.3	--	--
FSW 657-0078	-58.31	09/12/07	14.0	--	--

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 657-0093	-73.17	09/12/07	USGS	K	136	6.35	19	C
FSW 657-0112	-92.08	09/12/07	USGS	K	121	6.20	5.5	C
FSW 660-0037	11.39	09/10/07	USGS	K	307	5.95	57	M
FSW 660-0085	-37.98	09/10/07	USGS	K	78.6	5.61	164	M
FSW 660-0102	-54.66	09/10/07	USGS	K	111	6.11	9	C
FSW 660-0118	-70.62	09/10/07	USGS	K	108	6.96	E 2.5	C
FSW 660-0138	-90.70	09/10/07	USGS	K	112	7.21	E 0.0	C
FSW 661-0055 (95MW0109C)	4.52	09/05/07	AFCEE	G	128	5.52	9	M
FSW 661-0085 (95MW0109B)	-25.14	09/05/07	AFCEE	G	243	5.26	11	M
FSW 661-0125 (95MW0109A)	-65.54	09/05/07	AFCEE	G	77.0	5.30	279	M
FSW 663-0150 (95MW0213B)	-99.75	09/05/07	USGS	K	151	5.95	168	M
FSW 663-0185 (95MW0213A)	-134.75	09/05/07	USGS	K	446	6.38	E 0.0	C
FSW 670-0054	41.95	06/06/07	USGS	K	58.9	5.52	317	M
FSW 670-0064	31.86	06/06/07	USGS	K	98.6	5.86	67	M
FSW 670-0074	21.97	06/06/07	USGS	K	142	5.88	65	M
FSW 670-0084	11.91	06/06/07	USGS	K	145	5.67	137	M
FSW 670-0094	2.00	06/06/07	USGS	K	116	5.72	238	M
FSW 670-0109	-13.14	06/06/07	USGS	K	103	5.79	257	M
FSW 670-0124	-28.21	06/06/07	USGS	K	111	5.81	292	M

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 657-0093	-73.17	09/12/07	13.4	--	--
FSW 657-0112	-92.08	09/12/07	13.1	--	--
FSW 660-0037	11.39	09/10/07	15.2	--	--
FSW 660-0085	-37.98	09/10/07	16.7	--	--
FSW 660-0102	-54.66	09/10/07	16.4	--	--
FSW 660-0118	-70.62	09/10/07	15.7	--	--
FSW 660-0138	-90.70	09/10/07	14.2	--	--
FSW 661-0055 (95MW0109C)	4.52	09/05/07	13.3	--	--
FSW 661-0085 (95MW0109B)	-25.14	09/05/07	13.2	--	--
FSW 661-0125 (95MW0109A)	-65.54	09/05/07	13.8	--	--
FSW 663-0150 (95MW0213B)	-99.75	09/05/07	12.6	--	--
FSW 663-0185 (95MW0213A)	-134.75	09/05/07	12.8	--	--
FSW 670-0054	41.95	06/06/07	11.7	--	16.8
FSW 670-0064	31.86	06/06/07	11.7	--	30.5
FSW 670-0074	21.97	06/06/07	11.6	--	27.9
FSW 670-0084	11.91	06/06/07	11.7	--	19.0
FSW 670-0094	2.00	06/06/07	11.3	--	17.4
FSW 670-0109	-13.14	06/06/07	11.7	--	30.5
FSW 670-0124	-28.21	06/06/07	11.9	--	12.1

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 670-0170	-74.26	06/06/07	USGS	K	77.0	6.14	357	M
FSW 671-0135 (03MW1023C)	-72.16	09/07/07	USGS	K	58.8	6.04	287	M
FSW 671-0219 (03MW1023B)	-156.27	09/07/07	USGS	K	61.1	6.51	154	M
FSW 671-0250 (03MW1023A)	-187.27	09/07/07	USGS	K	127	7.08	16	C
FSW 674-0028	29.14	08/21/07	USGS	K	122	5.69	183	M
FSW 674-0048	9.62	08/21/07	USGS	K	135	5.21	339	M
FSW 674-0068	-10.17	08/21/07	USGS	K	179	6.08	4.6	C
FSW 674-0088	-30.35	08/21/07	USGS	K	133	5.96	E 1.8	C
FSW 674-0108	-50.32	08/21/07	USGS	K	134	6.28	13	C
FSW 674-0128	-70.47	08/21/07	USGS	K	91.0	6.55	13	C
FSW 675-0235 (03MW0066)	-182.50	08/22/07	USGS	K	117	7.07	5.1	C
FSW 676-0100 (95MW0105)	-62.50	08/30/07	USGS	K	76.4	5.76	132	M
FSW 677-0095 (95MW0209B)	-11.63	08/30/07	USGS	K	146	5.75	31	M
FSW 677-0125 (95MW0209A)	-41.63	08/30/07	USGS	K	188	5.97	217	M
FSW 678-0078 (95MW0102B)	-24.15	09/11/07	AFCEE	G	140	5.51	248	M
FSW 678-0103 (95MW0102A)	-49.14	09/11/07	AFCEE	G	160	5.44	124	M

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 670-0170	-74.26	06/06/07	11.8	--	E 1.6
FSW 671-0135 (03MW1023C)	-72.16	09/07/07	16.8	--	E 1.6
FSW 671-0219 (03MW1023B)	-156.27	09/07/07	12.7	--	E 1.1
FSW 671-0250 (03MW1023A)	-187.27	09/07/07	13.4	--	3.2
FSW 674-0028	29.14	08/21/07	12.2	0.34	--
FSW 674-0048	9.62	08/21/07	13.2	0.03	--
FSW 674-0068	-10.17	08/21/07	12.6	0.36	--
FSW 674-0088	-30.35	08/21/07	12.8	0.12	--
FSW 674-0108	-50.32	08/21/07	12.2	0.51	--
FSW 674-0128	-70.47	08/21/07	12.5	0.29	--
FSW 675-0235 (03MW0066)	-182.50	08/22/07	13.6	--	5.3
FSW 676-0100 (95MW0105)	-62.50	08/30/07	11.7	--	--
FSW 677-0095 (95MW0209B)	-11.63	08/30/07	12.5	--	--
FSW 677-0125 (95MW0209A)	-41.63	08/30/07	12.6	--	--
FSW 678-0078 (95MW0102B)	-24.15	09/11/07	15.4	--	--
FSW 678-0103 (95MW0102A)	-49.14	09/11/07	14.8	--	--

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 679-0108 (95MW0103)	-55.25	09/11/07	AFCEE	G	122	5.44	145	M
FSW 680-0107 (95MW0104)	-59.06	09/13/07	AFCEE	G	120	5.67	161	M
FSW 682-0165 (95MW0206B)	-88.19	09/11/07	AFCEE	G	93.0	5.73	31	M
FSW 683-0145 (95MW1233B)	-80.02	08/29/07	AFCEE	G	140	5.45	234	M
FSW 683-0185 (95MW1233A)	-119.99	08/29/07	AFCEE	G	136	5.51	111	M
FSW 685-0112 (95DP0202)	-61.22	10/10/07	AFCEE	W	107	6.23	5.2	M
FSW 686-0010 (95DP3000)	7.35	10/10/07	AFCEE	P	111	5.73	31	M
FSW 687-0152 (95MW1170B)	-63.76	08/23/07	AFCEE	G	129	6.21	16	M
FSW 687-0209 (95MW1170A)	-120.76	08/23/07	AFCEE	G	103	6.07	12	M
FSW 688-0122 (95MW1171B)	-38.53	08/27/07	AFCEE	G	237	5.51	14	M
FSW 688-0186 (95MW1171A)	-102.53	08/27/07	AFCEE	G	267	5.89	9.7	M
FSW 689-0119 (95MW1172B)	-37.87	08/23/07	AFCEE	G	187	5.11	225	M
FSW 689-0182 (95MW1172A)	-101.37	08/23/07	AFCEE	G	199	6.19	12	M
FSW 690-0112 (95MW1173B)	-40.88	08/29/07	AFCEE	G	63.0	5.39	253	M

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 679-0108 (95MW0103)	-55.25	09/11/07	14.7	--	--
FSW 680-0107 (95MW0104)	-59.06	09/13/07	14.1	--	--
FSW 682-0165 (95MW0206B)	-88.19	09/11/07	14.1	--	--
FSW 683-0145 (95MW1233B)	-80.02	08/29/07	14.5	--	--
FSW 683-0185 (95MW1233A)	-119.99	08/29/07	13.6	--	--
FSW 685-0112 (95DP0202)	-61.22	10/10/07	11.4	--	--
FSW 686-0010 (95DP3000)	7.35	10/10/07	20.9	--	--
FSW 687-0152 (95MW1170B)	-63.76	08/23/07	15.5	--	--
FSW 687-0209 (95MW1170A)	-120.76	08/23/07	14.8	--	--
FSW 688-0122 (95MW1171B)	-38.53	08/27/07	16.3	--	--
FSW 688-0186 (95MW1171A)	-102.53	08/27/07	15.1	--	--
FSW 689-0119 (95MW1172B)	-37.87	08/23/07	14.2	--	--
FSW 689-0182 (95MW1172A)	-101.37	08/23/07	13.8	--	--
FSW 690-0112 (95MW1173B)	-40.88	08/29/07	13.5	--	--

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
FSW 690-0191 (95MW1173A)	-119.98	08/29/07	AFCEE	G	173	6.05	22	M
FSW 691-0125 (95MW1174B)	-48.21	08/23/07	AFCEE	G	96.0	5.46	28	M
FSW 691-0153 (95MW1174A)	-75.71	08/23/07	AFCEE	G	136	6.27	21	M
FSW 692-0198 (95MW1232A)	-128.65	08/29/07	AFCEE	G	175	6.08	9	M
FSW 693-0160 (95PW0002)	-96.52	10/09/07	AFCEE	G	243	6.70	15	M
FSW 694-0035 (ECMWBKR01M)	-14.68	08/16/07	AFCEE	G	63.0	5.20	111	M
FSW 694-0075 (ECMWBKR01D)	-54.64	08/16/07	AFCEE	G	128	5.83	182	M
FSW 695-0106 (95MW0106)	-61.49	09/13/07	AFCEE	G	117	5.51	91	M
SDW 106-0149 (03DP0038A)	-77.67	07/23/07	USGS	P	113	6.17	222	M
SDW 107-0133 (03MW1016B)	-44.59	10/12/07	AFCEE	G	167	5.82	328	M
SDW 107-0206 (03MW1016A)	-117.47	10/12/07	AFCEE	G	78.0	6.65	132	M
SDW 112-0155 (03MW1013B)	-73.31	10/02/07	AFCEE	G	133	5.65	297	M
SDW 112-0235 (03MW1013A)	-153.31	10/02/07	AFCEE	G	73.0	6.06	158	M
SDW 313-0020	36.32	08/02/07	USGS	K	75.1	5.24	263	M

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
FSW 690-0191 (95MW1173A)	-119.98	08/29/07	13.5	--	--
FSW 691-0125 (95MW1174B)	-48.21	08/23/07	14.5	--	--
FSW 691-0153 (95MW1174A)	-75.71	08/23/07	14.2	--	--
FSW 692-0198 (95MW1232A)	-128.65	08/29/07	12.9	--	--
FSW 693-0160 (95PW0002)	-96.52	10/09/07	12.8	--	--
FSW 694-0035 (ECMWBKR01M)	-14.68	08/16/07	16.7	--	--
FSW 694-0075 (ECMWBKR01D)	-54.64	08/16/07	15.4	--	--
FSW 695-0106 (95MW0106)	-61.49	09/13/07	15.4	--	--
SDW 106-0149 (03DP0038A)	-77.67	07/23/07	13.6	--	9.0
SDW 107-0133 (03MW1016B)	-44.59	10/12/07	14.4	--	--
SDW 107-0206 (03MW1016A)	-117.47	10/12/07	13.0	--	--
SDW 112-0155 (03MW1013B)	-73.31	10/02/07	14.9	--	--
SDW 112-0235 (03MW1013A)	-153.31	10/02/07	13.6	--	--
SDW 313-0020	36.32	08/02/07	14.5	--	--

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
SDW 313-0038	18.42	08/02/07	USGS	K	89.7	5.30	324	M
SDW 313-0060	-3.16	08/02/07	USGS	K	160	5.37	319	M
SDW 313-0080	-23.28	08/02/07	USGS	K	79.1	5.65	348	M
SDW 314-0035	44.70	08/02/07	USGS	K	57.2	5.68	212	M
SDW 314-0051	27.79	08/02/07	USGS	K	96.3	5.63	158	M
SDW 314-0075	4.25	08/02/07	USGS	K	109	5.51	246	M
SDW 314-0098	-18.92	08/02/07	USGS	K	103	5.61	276	M
SDW 314-0108 (30MW0314)	-27.56	08/02/07	USGS	K	104	5.68	294	M
SDW 315-0082	27.17	08/06/07	USGS	K	205	5.45	352	M
SDW 315-0104	5.37	08/06/07	USGS	K	424	5.36	339	M
SDW 315-0126	-16.43	08/06/07	USGS	K	372	5.39	306	M
SDW 315-0149	-39.87	08/06/07	USGS	K	117	5.69	253	M
SDW 316-0066	30.67	08/29/07	AFCEE	G	148	5.48	14	M
SDW 316-0082	14.12	08/29/07	AFCEE	G	199	4.90	15	M
SDW 316-0163 (30MW0316A)	-65.31	10/02/07	AFCEE	G	100	5.47	268	M
SDW 317-0027	46.60	06/11/07	USGS	K	87.5	5.95	264	M
SDW 318-M01-01PT	46.86	05/17/07	USGS	P	48.6	5.91	298	M
SDW 318-M01-02GNT	44.86	05/17/07	USGS	P	57.0	5.91	285	M

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
SDW 313-0038	18.42	08/02/07	14.2	--	--
SDW 313-0060	-3.16	08/02/07	14.7	--	--
SDW 313-0080	-23.28	08/02/07	14.7	--	--
SDW 314-0035	44.70	08/02/07	13.1	--	--
SDW 314-0051	27.79	08/02/07	14.2	--	--
SDW 314-0075	4.25	08/02/07	13.9	--	--
SDW 314-0098	-18.92	08/02/07	14.3	--	--
SDW 314-0108 (30MW0314)	-27.56	08/02/07	13.8	--	--
SDW 315-0082	27.17	08/06/07	7.9	--	--
SDW 315-0104	5.37	08/06/07	7.4	--	--
SDW 315-0126	-16.43	08/06/07	5.6	--	--
SDW 315-0149	-39.87	08/06/07	5.7	--	--
SDW 316-0066	30.67	08/29/07	16.8	--	--
SDW 316-0082	14.12	08/29/07	17.0	--	--
SDW 316-0163 (30MW0316A)	-65.31	10/02/07	14.4	--	--
SDW 317-0027	46.60	06/11/07	12.6	--	--
SDW 318-M01-01PT	46.86	05/17/07	8.6	--	37.4
SDW 318-M01-02GNT	44.86	05/17/07	8.8	--	51.1

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
SDW 318-M01-03RT	42.86	05/17/07	USGS	P	80.0	5.89	242	M
SDW 318-M01-04BUT	40.86	05/17/07	USGS	P	97.1	5.65	193	M
SDW 318-M01-05BKT	38.86	05/17/07	USGS	P	108	5.53	166	M
SDW 318-M01-06WT	36.91	05/17/07	USGS	P	105	5.55	152	M
SDW 318-M01-07O	34.91	05/17/07	USGS	P	93.7	5.68	131	M
SDW 318-M01-08GY	32.91	05/17/07	USGS	P	102	5.83	146	M
SDW 318-M01-09Y	30.91	05/17/07	USGS	P	126	5.79	163	M
SDW 318-M01-10P	28.91	05/17/07	USGS	P	144	5.76	175	M
SDW 318-M01-11GN	26.96	05/17/07	USGS	P	165	5.66	183	M
SDW 318-M01-12R	24.96	05/17/07	USGS	P	181	5.60	186	M
SDW 318-M01-13BU	22.96	05/17/07	USGS	P	155	5.60	180	M
SDW 318-M01-14BK	20.96	05/17/07	USGS	P	123	5.65	182	M
SDW 318-M01-15W	18.96	05/17/07	USGS	P	103	5.70	185	M
SDW 318-M02-01PT	16.16	05/17/07	USGS	P	96.7	5.70	220	M
SDW 318-M02-02GNT	12.10	05/17/07	USGS	P	101	5.64	219	M
SDW 318-M02-03RT	8.10	05/17/07	USGS	P	105	5.67	217	M
SDW 318-M02-04BUT	4.10	05/17/07	USGS	P	108	5.72	229	M
SDW 318-M02-05BKT	0.05	05/17/07	USGS	P	106	5.68	238	M
SDW 318-M02-06WT	-3.95	05/17/07	USGS	P	105	5.85	251	M
SDW 318-M02-07O	-7.97	05/17/07	USGS	P	105	5.85	239	M
SDW 318-M02-08GY	-11.97	05/17/07	USGS	P	104	5.83	255	M
SDW 318-M02-09Y	-15.97	05/17/07	USGS	P	104	5.84	254	M
SDW 318-M02-10P	-19.99	05/17/07	USGS	P	103	5.84	257	M

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
SDW 318-M01-03RT	42.86	05/17/07	9.1	--	38.4
SDW 318-M01-04BUT	40.86	05/17/07	9.3	--	28.4
SDW 318-M01-05BKT	38.86	05/17/07	9.8	--	16.3
SDW 318-M01-06WT	36.91	05/17/07	9.8	--	14.2
SDW 318-M01-07O	34.91	05/17/07	10.2	--	18.4
SDW 318-M01-08GY	32.91	05/17/07	10.3	--	21.6
SDW 318-M01-09Y	30.91	05/17/07	10.4	--	19.0
SDW 318-M01-10P	28.91	05/17/07	10.3	--	14.2
SDW 318-M01-11GN	26.96	05/17/07	10.3	--	14.7
SDW 318-M01-12R	24.96	05/17/07	10.5	--	11.6
SDW 318-M01-13BU	22.96	05/17/07	10.4	--	13.7
SDW 318-M01-14BK	20.96	05/17/07	10.4	--	13.7
SDW 318-M01-15W	18.96	05/17/07	10.4	--	13.7
SDW 318-M02-01PT	16.16	05/17/07	10.9	--	10.0
SDW 318-M02-02GNT	12.10	05/17/07	10.9	--	11.6
SDW 318-M02-03RT	8.10	05/17/07	11.0	--	9.5
SDW 318-M02-04BUT	4.10	05/17/07	10.9	--	10.0
SDW 318-M02-05BKT	0.05	05/17/07	11.0	--	7.4
SDW 318-M02-06WT	-3.95	05/17/07	11.0	--	13.2
SDW 318-M02-07O	-7.97	05/17/07	11.0	--	10.5
SDW 318-M02-08GY	-11.97	05/17/07	10.9	--	6.8
SDW 318-M02-09Y	-15.97	05/17/07	10.9	--	6.8
SDW 318-M02-10P	-19.99	05/17/07	10.9	--	3.2

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
SDW 318-M02-11GN	-24.99	05/17/07	USGS	P	104	5.85	251	M
SDW 318-M02-12R	-30.02	05/17/07	USGS	P	105	5.92	266	M
SDW 318-M02-13BU	-35.02	05/17/07	USGS	P	104	5.95	258	M
SDW 318-M02-14BK	-40.05	05/17/07	USGS	P	104	5.91	266	M
SDW 318-M02-15W	-45.05	05/17/07	USGS	P	103	5.58	255	M
SDW 344-0038	42.37	06/05/07	USGS	K	45.7	5.84	362	M
SDW 344-0051	30.37	06/05/07	USGS	K	174	5.72	6.3	C
SDW 344-0061	20.14	06/05/07	USGS	K	176	5.81	3.7	C
SDW 344-0071	10.44	06/05/07	USGS	K	161	6.14	E 0.0	C
SDW 344-0080	0.33	06/05/07	USGS	K	226	6.57	E 0.0	C
SDW 344-0091	-9.72	06/05/07	USGS	K	247	6.50	E 0.0	C
SDW 344-0100	-19.06	06/05/07	USGS	K	204	6.47	E 0.0	C
SDW 344-0111	-29.83	06/05/07	USGS	K	199	5.31	290	M
SDW 421-0068 (30MW0425B)	37.57	09/18/07	AFCEE	G	47.0	4.84	321	M
SDW 421-0084 (30MW0425A)	21.02	09/18/07	AFCEE	G	82.0	5.05	346	M
SDW 421-0156 (30MW0425Z)	-51.34	10/15/07	AFCEE	G	123	6.00	294	M
SDW 421-0177 (03MW2406A)	-71.89	10/15/07	AFCEE	G	90.0	6.19	23	M
SDW 422-0064 (30MW0426B)	41.70	09/18/07	AFCEE	G	86.0	4.73	333	M
SDW 425-0063 (30MW0417C)	47.32	09/18/07	AFCEE	G	141	4.54	166	M

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
SDW 318-M02-11GN	-24.99	05/17/07	11.0	--	5.8
SDW 318-M02-12R	-30.02	05/17/07	10.9	--	4.2
SDW 318-M02-13BU	-35.02	05/17/07	11.1	--	E 2.6
SDW 318-M02-14BK	-40.05	05/17/07	10.9	--	3.2
SDW 318-M02-15W	-45.05	05/17/07	11.0	--	3.2
SDW 344-0038	42.37	06/05/07	13.6	--	11.6
SDW 344-0051	30.37	06/05/07	13.0	--	35.8
SDW 344-0061	20.14	06/05/07	12.7	--	21.6
SDW 344-0071	10.44	06/05/07	12.8	--	77.9
SDW 344-0080	0.33	06/05/07	14.1	--	96.9
SDW 344-0091	-9.72	06/05/07	12.4	--	57.9
SDW 344-0100	-19.06	06/05/07	13.5	--	53.2
SDW 344-0111	-29.83	06/05/07	13.8	--	E 2.1
SDW 421-0068 (30MW0425B)	37.57	09/18/07	17.1	--	--
SDW 421-0084 (30MW0425A)	21.02	09/18/07	16.6	--	--
SDW 421-0156 (30MW0425Z)	-51.34	10/15/07	14.0	--	--
SDW 421-0177 (03MW2406A)	-71.89	10/15/07	13.6	--	--
SDW 422-0064 (30MW0426B)	41.70	09/18/07	15.9	--	--
SDW 425-0063 (30MW0417C)	47.32	09/18/07	18.1	--	--

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
SDW 434-0014 (34MW0003)	45.53	08/06/07	USGS	K	56.8	5.12	233	M
SDW 434-0025 (34MW0003B)	32.01	08/06/07	USGS	K	87.7	5.56	330	M
SDW 434-0076 (34MW0003A)	-18.46	08/06/07	USGS	K	110	5.48	299	M
SDW 436-M01-01PT	46.39	06/25/07	USGS	P	71.9	5.56	260	M
SDW 436-M01-02GNT	44.84	06/25/07	USGS	P	72.2	5.57	44	M
SDW 436-M01-03RT	40.39	06/25/07	USGS	P	65.6	5.38	161	M
SDW 436-M01-04BUT	37.37	06/25/07	USGS	P	71.0	5.66	124	M
SDW 436-M01-05BKT	32.37	06/25/07	USGS	P	94.6	5.80	176	M
SDW 436-M01-06WT	27.35	06/25/07	USGS	P	151	5.53	177	M
SDW 436-M01-07O	20.35	06/25/07	USGS	P	140	5.52	179	M
SDW 436-M01-08GY	13.34	06/25/07	USGS	P	107	5.41	105	M
SDW 436-M01-09Y	6.32	06/25/07	USGS	P	85.8	5.30	150	M
SDW 436-M01-10P	-1.69	06/25/07	USGS	P	85.2	5.56	193	M
SDW 436-M01-11GN	-9.69	06/25/07	USGS	P	103	5.61	215	M
SDW 436-M01-12R	-18.70	06/25/07	USGS	P	116	5.56	238	M
SDW 436-M01-13BU	-27.72	06/25/07	USGS	P	132	5.52	245	M
SDW 436-M01-14BK	-36.73	06/25/07	USGS	P	175	5.83	255	M
SDW 436-M01-15W	-45.95	06/25/07	USGS	P	135	5.88	247	M
SDW 468-M01-01PT	46.25	05/22/07	USGS	P	73.5	5.15	223	M
SDW 468-M01-02GNT	43.25	05/22/07	USGS	P	121	5.94	150	M

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
SDW 434-0014 (34MW0003)	45.53	08/06/07	20.7	--	--
SDW 434-0025 (34MW0003B)	32.01	08/06/07	15.0	--	--
SDW 434-0076 (34MW0003A)	-18.46	08/06/07	14.0	--	--
SDW 436-M01-01PT	46.39	06/25/07	12.2	0.09	53.7
SDW 436-M01-02GNT	44.84	06/25/07	11.8	0.13	58.4
SDW 436-M01-03RT	40.39	06/25/07	12.1	0.06	17.4
SDW 436-M01-04BUT	37.37	06/25/07	12.6	0.10	17.9
SDW 436-M01-05BKT	32.37	06/25/07	12.6	0.13	15.8
SDW 436-M01-06WT	27.35	06/25/07	12.6	0.04	15.8
SDW 436-M01-07O	20.35	06/25/07	13.5	0.06	19.0
SDW 436-M01-08GY	13.34	06/25/07	12.9	0.05	20.0
SDW 436-M01-09Y	6.32	06/25/07	12.8	0.04	19.0
SDW 436-M01-10P	-1.69	06/25/07	13.0	0.07	13.2
SDW 436-M01-11GN	-9.69	06/25/07	12.8	0.09	10.0
SDW 436-M01-12R	-18.70	06/25/07	12.9	0.08	6.8
SDW 436-M01-13BU	-27.72	06/25/07	13.0	0.08	5.8
SDW 436-M01-14BK	-36.73	06/25/07	13.0	0.17	4.7
SDW 436-M01-15W	-45.95	06/25/07	13.3	0.16	4.7
SDW 468-M01-01PT	46.25	05/22/07	10.1	--	35.8
SDW 468-M01-02GNT	43.25	05/22/07	10.5	--	24.2

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
SDW 468-M01-03RT	40.25	05/22/07	USGS	P	171	6.15	E 1.8	C
SDW 468-M01-04BUT	37.21	05/22/07	USGS	P	166	6.14	E 0.0	C
SDW 468-M01-05BKT	32.21	05/22/07	USGS	P	200	6.06	E 0.0	C
SDW 468-M01-06WT	27.18	05/22/07	USGS	P	193	5.66	E 0.7	C
SDW 468-M01-07O	20.18	05/22/07	USGS	P	188	5.61	E 0.7	C
SDW 468-M01-08GY	13.15	05/22/07	USGS	P	199	5.41	E 0.2	C
SDW 468-M01-09Y	6.13	05/22/07	USGS	P	169	5.34	E 0.4	C
SDW 468-M01-10P	-1.91	05/22/07	USGS	P	105	5.53	E 0.3	C
SDW 468-M01-11GN	-9.91	05/22/07	USGS	P	96.7	5.66	E 0.7	C
SDW 468-M01-12R	-18.94	05/22/07	USGS	P	169	5.52	255	M
SDW 468-M01-13BU	-27.96	05/22/07	USGS	P	161	5.62	300	M
SDW 468-M01-14BK	-36.99	05/22/07	USGS	P	183	5.59	269	M
SDW 468-M01-15W	-46.03	05/22/07	USGS	P	124	5.60	283	M
SDW 469-M01-01PT	46.24	06/27/07	USGS	P	74.5	5.79	251	M
SDW 469-M01-02GNT	43.24	06/27/07	USGS	P	64.6	5.57	186	M
SDW 469-M01-03RT	40.24	06/27/07	USGS	P	88.5	5.53	31	M
SDW 469-M01-04BUT	37.23	06/27/07	USGS	P	67.2	5.58	16	C
SDW 469-0036	34.43	06/25/07	USGS	K	75.6	5.65	5.0	C
SDW 469-M01-05BKT	32.23	06/27/07	USGS	P	81.1	5.74	12	C
SDW 469-M01-06WT	27.21	06/27/07	USGS	P	119	5.37	5.2	C
SDW 469-M01-07O	20.21	06/27/07	USGS	P	190	5.48	3.3	C
SDW 469-0051	19.19	06/25/07	USGS	K	194	5.65	8.5	C

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
SDW 468-M01-03RT	40.25	05/22/07	10.6	--	24.7
SDW 468-M01-04BUT	37.21	05/22/07	10.8	--	26.9
SDW 468-M01-05BKT	32.21	05/22/07	10.9	--	17.4
SDW 468-M01-06WT	27.18	05/22/07	11.1	--	17.4
SDW 468-M01-07O	20.18	05/22/07	11.0	--	15.3
SDW 468-M01-08GY	13.15	05/22/07	11.2	--	11.1
SDW 468-M01-09Y	6.13	05/22/07	11.1	--	11.6
SDW 468-M01-10P	-1.91	05/22/07	11.1	--	16.8
SDW 468-M01-11GN	-9.91	05/22/07	11.3	--	21.1
SDW 468-M01-12R	-18.94	05/22/07	11.2	--	11.1
SDW 468-M01-13BU	-27.96	05/22/07	11.4	--	10.0
SDW 468-M01-14BK	-36.99	05/22/07	11.3	--	7.4
SDW 468-M01-15W	-46.03	05/22/07	11.5	--	4.7
SDW 469-M01-01PT	46.24	06/27/07	14.4	--	79.0
SDW 469-M01-02GNT	43.24	06/27/07	12.7	0.08	47.4
SDW 469-M01-03RT	40.24	06/27/07	13.5	0.12	49.5
SDW 469-M01-04BUT	37.23	06/27/07	13.4	0.11	30.0
SDW 469-0036	34.43	06/25/07	12.7	--	27.9
SDW 469-M01-05BKT	32.23	06/27/07	13.7	0.12	23.2
SDW 469-M01-06WT	27.21	06/27/07	13.7	0.05	18.4
SDW 469-M01-07O	20.21	06/27/07	13.3	0.05	23.2
SDW 469-0051	19.19	06/25/07	14.0	--	20.5

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
SDW 469-M01-08GY	13.18	06/27/07	USGS	P	150	5.72	4.8	C
SDW 469-M01-09Y	6.15	06/27/07	USGS	P	127	5.85	E 1.8	C
SDW 469-0066	4.52	06/25/07	USGS	K	115	5.93	3.7	C
SDW 469-M01-10P	-1.87	06/27/07	USGS	P	112	5.86	5.6	C
SDW 469-M01-11GN	-9.87	06/27/07	USGS	P	110	5.34	41	M
SDW 469-M01-12R	-18.90	06/27/07	USGS	P	110	5.55	232	M
SDW 469-M01-13BU	-27.92	06/27/07	USGS	P	119	5.52	278	M
SDW 469-M01-14BK	-36.94	06/27/07	USGS	P	177	5.46	291	M
SDW 469-M01-15W	-45.95	06/27/07	USGS	P	147	5.83	280	M
SDW 470-M01-01PT	46.37	05/22/07	USGS	P	59.5	5.61	92	M
SDW 470-M01-02GNT	43.37	05/22/07	USGS	P	51.5	5.47	116	M
SDW 470-M01-03RT	40.37	05/22/07	USGS	P	55.6	5.55	142	M
SDW 470-M01-04BUT	37.34	05/22/07	USGS	P	52.9	5.34	69	M
SDW 470-M01-05BKT	32.34	05/22/07	USGS	P	68.6	5.42	40	M
SDW 470-M01-06WT	27.30	05/22/07	USGS	P	130	5.51	116	M
SDW 470-M01-07O	20.30	05/22/07	USGS	P	128	5.51	175	M
SDW 470-M01-08GY	13.25	05/22/07	USGS	P	84.6	5.47	168	M
SDW 470-M01-09Y	6.22	05/22/07	USGS	P	83.9	5.59	178	M
SDW 470-M01-10P	-1.80	05/22/07	USGS	P	97.5	5.70	174	M
SDW 470-M01-11GN	-9.80	05/22/07	USGS	P	111	5.79	224	M
SDW 470-M01-12R	-18.84	05/22/07	USGS	P	119	5.80	236	M
SDW 470-M01-13BU	-27.88	05/22/07	USGS	P	136	5.76	268	M

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
SDW 469-M01-08GY	13.18	06/27/07	13.9	0.10	22.6
SDW 469-M01-09Y	6.15	06/27/07	14.2	0.17	41.6
SDW 469-0066	4.52	06/25/07	14.3	--	32.6
SDW 469-M01-10P	-1.87	06/27/07	13.8	0.12	20.5
SDW 469-M01-11GN	-9.87	06/27/07	14.7	0.04	5.8
SDW 469-M01-12R	-18.90	06/27/07	13.5	0.07	17.4
SDW 469-M01-13BU	-27.92	06/27/07	14.0	0.07	10.5
SDW 469-M01-14BK	-36.94	06/27/07	15.0	--	3.7
SDW 469-M01-15W	-45.95	06/27/07	13.7	0.17	5.3
SDW 470-M01-01PT	46.37	05/22/07	10.2	--	43.2
SDW 470-M01-02GNT	43.37	05/22/07	10.7	--	42.6
SDW 470-M01-03RT	40.37	05/22/07	11.2	--	36.9
SDW 470-M01-04BUT	37.34	05/22/07	11.3	--	17.9
SDW 470-M01-05BKT	32.34	05/22/07	11.4	--	14.7
SDW 470-M01-06WT	27.30	05/22/07	11.5	--	13.7
SDW 470-M01-07O	20.30	05/22/07	11.5	--	19.5
SDW 470-M01-08GY	13.25	05/22/07	11.7	--	17.4
SDW 470-M01-09Y	6.22	05/22/07	11.6	--	16.3
SDW 470-M01-10P	-1.80	05/22/07	11.4	--	15.8
SDW 470-M01-11GN	-9.80	05/22/07	11.5	--	13.2
SDW 470-M01-12R	-18.84	05/22/07	11.5	--	10.0
SDW 470-M01-13BU	-27.88	05/22/07	11.4	--	8.4

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
SDW 470-M01-14BK	-36.93	05/22/07	USGS	P	145	5.61	257	M
SDW 470-M01-15W	-45.95	05/22/07	USGS	P	131	5.70	262	M
SDW 471-M01-01PT	46.36	05/24/07	USGS	P	75.7	5.73	137	M
SDW 471-M01-02GNT	43.36	05/24/07	USGS	P	69.7	5.41	158	M
SDW 471-M01-03RT	40.36	05/24/07	USGS	P	100	4.97	145	M
SDW 471-M01-04BUT	37.33	05/24/07	USGS	P	57.4	4.88	144	M
SDW 471-M01-05BKT	32.33	05/24/07	USGS	P	76.8	4.97	40	M
SDW 471-M01-07O	20.29	05/24/07	USGS	P	159	5.10	207	M
SDW 471-M01-08GY	13.26	05/24/07	USGS	P	103	5.49	218	M
SDW 471-M01-09Y	6.23	05/24/07	USGS	P	88.3	5.62	227	M
SDW 471-M01-10P	-1.80	05/24/07	USGS	P	85.9	5.68	225	M
SDW 471-M01-11GN	-9.80	05/24/07	USGS	P	100	5.71	226	M
SDW 471-M01-12R	-18.84	05/24/07	USGS	P	111	5.76	240	M
SDW 471-M01-13BU	-27.86	05/24/07	USGS	P	111	5.71	241	M
SDW 471-M01-14BK	-36.93	05/24/07	USGS	P	112	5.51	253	M
SDW 471-M01-15W	-45.95	05/24/07	USGS	P	129	5.42	253	M
SDW 472-M01-01PT	46.30	05/25/07	USGS	P	98.1	5.63	209	M
SDW 472-M01-02GNT	43.30	05/25/07	USGS	P	85.1	5.43	118	M
SDW 472-M01-03RT	40.30	05/25/07	USGS	P	62.0	5.42	57	M
SDW 472-M01-04BUT	37.27	05/25/07	USGS	P	58.5	5.37	E 0.8	C
SDW 472-M01-05BKT	32.27	05/25/07	USGS	P	80.6	5.46	57	M

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
SDW 470-M01-14BK	-36.93	05/22/07	11.7	--	5.3
SDW 470-M01-15W	-45.95	05/22/07	11.7	--	3.7
SDW 471-M01-01PT	46.36	05/24/07	9.7	--	62.7
SDW 471-M01-02GNT	43.36	05/24/07	10.4	--	29.5
SDW 471-M01-03RT	40.36	05/24/07	10.6	--	9.5
SDW 471-M01-04BUT	37.33	05/24/07	10.8	--	6.3
SDW 471-M01-05BKT	32.33	05/24/07	11.2	--	5.3
SDW 471-M01-07O	20.29	05/24/07	11.4	--	5.3
SDW 471-M01-08GY	13.26	05/24/07	11.4	--	6.3
SDW 471-M01-09Y	6.23	05/24/07	12.0	--	7.4
SDW 471-M01-10P	-1.80	05/24/07	11.6	--	9.0
SDW 471-M01-11GN	-9.80	05/24/07	11.7	--	6.8
SDW 471-M01-12R	-18.84	05/24/07	11.6	--	6.3
SDW 471-M01-13BU	-27.86	05/24/07	11.5	--	8.4
SDW 471-M01-14BK	-36.93	05/24/07	11.9	--	5.3
SDW 471-M01-15W	-45.95	05/24/07	11.7	--	3.7
SDW 472-M01-01PT	46.30	05/25/07	11.2	--	33.7
SDW 472-M01-02GNT	43.30	05/25/07	11.2	--	26.3
SDW 472-M01-03RT	40.30	05/25/07	11.6	--	17.4
SDW 472-M01-04BUT	37.27	05/25/07	12.2	--	16.8
SDW 472-M01-05BKT	32.27	05/25/07	12.1	--	14.2

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
SDW 472-M01-06WT	27.24	05/25/07	USGS	P	164	5.34	194	M
SDW 472-M01-07O	20.24	05/25/07	USGS	P	152	5.49	232	M
SDW 472-M01-08GY	13.21	05/25/07	USGS	P	128	5.54	241	M
SDW 472-M01-09Y	6.19	05/25/07	USGS	P	92.7	5.70	262	M
SDW 472-M01-10P	-1.84	05/25/07	USGS	P	93.8	5.74	244	M
SDW 472-M01-11GN	-9.84	05/25/07	USGS	P	100	5.74	269	M
SDW 472-M01-12R	-18.85	05/25/07	USGS	P	101	5.81	257	M
SDW 472-M01-13BU	-27.88	05/25/07	USGS	P	106	5.78	269	M
SDW 472-M01-14BK	-36.92	05/25/07	USGS	P	105	5.62	261	M
SDW 472-M01-15W	-45.95	05/25/07	USGS	P	103	5.55	271	M
SDW 473-M01-01PT	46.58	06/28/07	USGS	P	89.1	4.76	203	M
SDW 473-M01-02GNT	43.58	06/28/07	USGS	P	114	5.05	217	M
SDW 473-M01-03RT	40.58	06/28/07	USGS	P	75.4	5.69	216	M
SDW 473-M01-04BUT	37.54	06/28/07	USGS	P	95.9	5.71	247	M
SDW 473-M01-05BKT	32.54	06/28/07	USGS	P	143	5.51	260	M
SDW 473-M01-06WT	27.52	06/28/07	USGS	P	171	5.28	272	M
SDW 473-M01-07O	20.52	06/28/07	USGS	P	118	5.31	251	M
SDW 473-M01-08GY	13.49	06/28/07	USGS	P	70.4	5.42	254	M
SDW 473-M01-09Y	6.45	06/28/07	USGS	P	74.6	5.67	260	M
SDW 473-M01-10P	-1.59	06/28/07	USGS	P	102	5.66	247	M
SDW 473-M01-11GN	-9.59	06/28/07	USGS	P	103	5.58	242	M
SDW 473-M01-12R	-18.62	06/28/07	USGS	P	120	5.70	239	M

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
SDW 472-M01-06WT	27.24	05/25/07	12.4	--	9.0
SDW 472-M01-07O	20.24	05/25/07	12.2	--	11.6
SDW 472-M01-08GY	13.21	05/25/07	12.3	--	9.0
SDW 472-M01-09Y	6.19	05/25/07	12.4	--	7.4
SDW 472-M01-10P	-1.84	05/25/07	12.5	--	5.3
SDW 472-M01-11GN	-9.84	05/25/07	12.4	--	6.3
SDW 472-M01-12R	-18.85	05/25/07	12.7	--	4.2
SDW 472-M01-13BU	-27.88	05/25/07	12.7	--	3.7
SDW 472-M01-14BK	-36.92	05/25/07	12.4	--	3.2
SDW 472-M01-15W	-45.95	05/25/07	12.8	--	3.7
SDW 473-M01-01PT	46.58	06/28/07	13.0		3.2
SDW 473-M01-02GNT	43.58	06/28/07	14.0	0.01	E 2.6
SDW 473-M01-03RT	40.58	06/28/07	14.8	0.12	5.3
SDW 473-M01-04BUT	37.54	06/28/07	14.1	0.10	5.3
SDW 473-M01-05BKT	32.54	06/28/07	14.5	0.06	4.2
SDW 473-M01-06WT	27.52	06/28/07	13.9	0.03	3.2
SDW 473-M01-07O	20.52	06/28/07	13.8	0.03	3.7
SDW 473-M01-08GY	13.49	06/28/07	14.0	0.04	4.2
SDW 473-M01-09Y	6.45	06/28/07	13.7	0.09	3.2
SDW 473-M01-10P	-1.59	06/28/07	13.6	0.10	E 2.6
SDW 473-M01-11GN	-9.59	06/28/07	13.6	0.09	E 1.6
SDW 473-M01-12R	-18.62	06/28/07	13.7	0.12	E 2.1

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
SDW 473-M01-13BU	-27.66	06/28/07	USGS	P	149	5.72	245	M
SDW 473-M01-14BK	-36.70	06/28/07	USGS	P	135	5.75	239	M
SDW 473-M01-15W	-45.74	06/28/07	USGS	P	124	5.85	244	M
SDW 474-M01-01PT	46.33	07/19/07	USGS	P	46.4	5.12	208	M
SDW 474-M01-02GNT	43.33	07/19/07	USGS	P	61.5	5.26	162	M
SDW 474-M01-03RT	40.33	07/19/07	USGS	P	79.5	5.18	195	M
SDW 474-M01-04BUT	37.30	07/19/07	USGS	P	96.4	5.21	206	M
SDW 474-M01-05BKT	32.30	07/19/07	USGS	P	152	5.41	269	M
SDW 474-M01-06WT	27.27	07/19/07	USGS	P	121	5.43	297	M
SDW 474-M01-07O	20.27	07/19/07	USGS	P	85.4	5.55	294	M
SDW 474-M01-08GY	13.25	07/19/07	USGS	P	71.4	5.75	288	M
SDW 474-M01-09Y	6.22	07/19/07	USGS	P	96.0	5.74	256	M
SDW 474-M01-10P	-1.82	07/19/07	USGS	P	103	5.82	281	M
SDW 474-M01-11GN	-9.82	07/19/07	USGS	P	105	5.88	283	M
SDW 474-M01-12R	-18.85	07/19/07	USGS	P	106	5.93	283	M
SDW 474-M01-13BU	-27.88	07/19/07	USGS	P	108	5.85	273	M
SDW 474-M01-14BK	-36.91	07/19/07	USGS	P	103	5.61	276	M
SDW 474-M01-15W	-45.95	07/19/07	USGS	P	111	5.79	269	M
SDW 491-0063 (30MW0430)	42.12	09/18/07	AFCEE	G	68.0	5.09	350	M
SDW 499-0059	21.05	06/22/07	USGS	K	81.6	5.23	310	M

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
SDW 473-M01-13BU	-27.66	06/28/07	13.9	0.16	E 1.1
SDW 473-M01-14BK	-36.70	06/28/07	14.1	--	E 1.6
SDW 473-M01-15W	-45.74	06/28/07	14.5	--	E 2.1
SDW 474-M01-01PT	46.33	07/19/07	13.7	0.02	E 1.1
SDW 474-M01-02GNT	43.33	07/19/07	12.6	0.04	E 0.5
SDW 474-M01-03RT	40.33	07/19/07	11.9	0.04	3.2
SDW 474-M01-04BUT	37.30	07/19/07	12.2	0.03	E 2.1
SDW 474-M01-05BKT	32.30	07/19/07	11.7	0.04	3.2
SDW 474-M01-06WT	27.27	07/19/07	12.2	0.06	6.3
SDW 474-M01-07O	20.27	07/19/07	12.0	0.09	12.1
SDW 474-M01-08GY	13.25	07/19/07	12.8	0.11	E 1.6
SDW 474-M01-09Y	6.22	07/19/07	13.1	0.13	E 0.5
SDW 474-M01-10P	-1.82	07/19/07	12.7	0.14	E 0.0
SDW 474-M01-11GN	-9.82	07/19/07	12.8	0.17	5.3
SDW 474-M01-12R	-18.85	07/19/07	12.5	0.16	3.2
SDW 474-M01-13BU	-27.88	07/19/07	12.3	0.15	E 1.6
SDW 474-M01-14BK	-36.91	07/19/07	13.0	0.10	E 0.5
SDW 474-M01-15W	-45.95	07/19/07	12.5	0.13	E 2.1
SDW 491-0063 (30MW0430)	42.12	09/18/07	13.8	--	--
SDW 499-0059	21.05	06/22/07	11.9	0.02	E 0.5

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
SDW 499-0068	11.87	06/22/07	USGS	K	77.6	5.69	323	M
SDW 499-0079	1.24	06/22/07	USGS	K	99.0	5.71	302	M
SDW 500-0060	20.58	06/22/07	USGS	K	128	5.32	316	M
SDW 500-0070	10.89	06/22/07	USGS	K	72.9	5.71	325	M
SDW 500-0080	0.68	06/22/07	USGS	K	98.1	5.75	310	M
SDW 517-0054	44.94	08/16/07	USGS	K	74.1	5.46	306	M
SDW 517-0064	34.80	08/16/07	USGS	K	269	6.00	E 2.6	C
SDW 517-0074	24.89	08/16/07	USGS	K	243	5.44	5.0	C
SDW 517-0084	15.35	08/16/07	USGS	K	159	5.79	5.4	C
SDW 517-0094	5.75	08/16/07	USGS	K	188	6.42	E 1.9	C
SDW 517-0109	-9.72	08/16/07	USGS	K	252	5.07	271	M
SDW 517-0124	-24.43	08/16/07	USGS	K	179	5.68	316	M
SDW 517-0139	-39.10	08/16/07	USGS	K	159	5.69	315	M
SDW 518-0053	40.76	08/06/07	USGS	K	209	5.88	E 2.3	C
SDW 518-0064	29.89	08/06/07	USGS	K	207	5.65	E 0.8	C
SDW 518-0074	20.40	08/06/07	USGS	K	152	5.38	E 0.8	C
SDW 518-0084	10.12	08/06/07	USGS	K	133	5.34	E 2.1	C
SDW 518-0094	0.36	08/06/07	USGS	K	154	5.31	182	M
SDW 518-0109	-14.22	08/06/07	USGS	K	198	5.42	294	M
SDW 518-0124	-29.74	08/06/07	USGS	K	173	5.38	313	M

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
SDW 499-0068	11.87	06/22/07	11.7	0.08	E 0.0
SDW 499-0079	1.24	06/22/07	11.8	0.14	E 1.6
SDW 500-0060	20.58	06/22/07	12.9	--	E 1.1
SDW 500-0070	10.89	06/22/07	12.6	--	E 1.6
SDW 500-0080	0.68	06/22/07	12.1	--	E 2.1
SDW 517-0054	44.94	08/16/07	14.0	--	34.2
SDW 517-0064	34.80	08/16/07	13.8	--	40.5
SDW 517-0074	24.89	08/16/07	13.8	--	18.4
SDW 517-0084	15.35	08/16/07	13.9	--	46.9
SDW 517-0094	5.75	08/16/07	14.0	--	70.5
SDW 517-0109	-9.72	08/16/07	13.4	--	E 2.1
SDW 517-0124	-24.43	08/16/07	13.3	--	E 2.1
SDW 517-0139	-39.10	08/16/07	12.9	--	E 2.1
SDW 518-0053	40.76	08/06/07	13.3	--	28.4
SDW 518-0064	29.89	08/06/07	13.6	--	23.7
SDW 518-0074	20.40	08/06/07	13.9	--	26.3
SDW 518-0084	10.12	08/06/07	13.6	--	20.5
SDW 518-0094	0.36	08/06/07	13.2	--	16.3
SDW 518-0109	-14.22	08/06/07	13.6	--	16.3
SDW 518-0124	-29.74	08/06/07	13.0	--	9.5

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
SDW 518-0139	-44.47	08/06/07	USGS	K	130	5.36	279	M
SDW 521-M01-01PT	46.58	06/27/07	USGS	P	80.8	5.35	176	M
SDW 521-M01-02GNT	43.58	06/27/07	USGS	P	108	4.76	264	M
SDW 521-M01-03RT	40.58	06/27/07	USGS	P	81.1	5.68	214	M
SDW 521-M01-04BUT	36.48	06/27/07	USGS	P	103	5.70	262	M
SDW 521-M01-05BKT	32.48	06/27/07	USGS	P	155	5.50	252	M
SDW 521-M01-06WT	27.42	06/27/07	USGS	P	125	5.42	249	M
SDW 521-M01-07O	20.42	06/27/07	USGS	P	111	5.36	210	M
SDW 521-M01-08GY	13.32	06/27/07	USGS	P	78.6	5.45	243	M
SDW 521-M01-09Y	6.27	06/27/07	USGS	P	73.6	5.51	246	M
SDW 521-M01-10P	-1.84	06/27/07	USGS	P	99.7	5.64	231	M
SDW 521-M01-12R	-18.86	06/27/07	USGS	P	118	5.65	228	M
SDW 521-M01-13BU	-27.89	06/27/07	USGS	P	154	5.74	248	M
SDW 521-M01-14BK	-36.89	06/27/07	USGS	P	121	5.81	233	M
SDW 521-M01-15W	-45.95	06/27/07	USGS	P	141	5.76	250	M
SDW 540-0070 (03MW0102C)	26.95	09/24/07	AFCEE	G	89.0	5.14	353	M
SDW 553-0220 (03MW0062)	-114.70	10/15/07	AFCEE	G	75.0	6.10	51	M
SDW 554-0238 (03MW0095A)	-133.80	10/15/07	AFCEE	G	158	7.02	317	M

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Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
SDW 518-0139	-44.47	08/06/07	12.2	--	5.3
SDW 521-M01-01PT	46.58	06/27/07	13.0	--	30.0
SDW 521-M01-02GNT	43.58	06/27/07	13.1	--	4.7
SDW 521-M01-03RT	40.58	06/27/07	13.4	--	6.8
SDW 521-M01-04BUT	36.48	06/27/07	13.0	--	6.8
SDW 521-M01-05BKT	32.48	06/27/07	13.4	--	4.2
SDW 521-M01-06WT	27.42	06/27/07	13.9	--	6.3
SDW 521-M01-07O	20.42	06/27/07	13.4	--	7.9
SDW 521-M01-08GY	13.32	06/27/07	13.1	--	7.4
SDW 521-M01-09Y	6.27	06/27/07	14.0	--	5.8
SDW 521-M01-10P	-1.84	06/27/07	13.6	--	4.2
SDW 521-M01-12R	-18.86	06/27/07	14.8	--	3.2
SDW 521-M01-13BU	-27.89	06/27/07	14.0	--	E 2.1
SDW 521-M01-14BK	-36.89	06/27/07	13.8	--	E 1.6
SDW 521-M01-15W	-45.95	06/27/07	14.8	--	E 2.1
SDW 540-0070 (03MW0102C)	26.95	09/24/07	16.3	--	--
SDW 553-0220 (03MW0062)	-114.70	10/15/07	13.4	--	--
SDW 554-0238 (03MW0095A)	-133.80	10/15/07	13.7	--	--

Table 4. Field water-quality analyses for groundwater samples collected from wells and multilevel samplers, Ashumet Valley treated-wastewater plume, Cape Cod, Massachusetts, 2007.

[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Reporting agency	Collect-ion method	Specific conduct-ance (µS/cm)	pH (standard units)	Dissolved oxygen (µM)	Dissolved oxygen method
SDW 556-0165 (03MW1017B)	-65.00	10/02/07	AFCEE	G	356	6.01	173	M
SDW 556-0235 (03MW1017A)	-135.06	10/02/07	AFCEE	G	118	6.58	10	M
SDW 557-0165 (03MW2407A)	-76.02	10/12/07	AFCEE	G	67.0	6.00	141	M
SDW 558-0185 (03MW2414B)	-79.96	10/15/07	AFCEE	G	80.0	6.43	357	M
SDW 559-0140 (03MW2630B)	-60.35	10/12/07	AFCEE	G	143	5.77	297	M
SDW 559-0229 (03MW2630A)	-149.43	10/12/07	AFCEE	G	111	6.25	292	M
SDW 560-0068 (95MW0107B)	29.56	09/05/07	AFCEE	G	187	4.91	190	M
SDW 590-0074 (30MW0590)	22.33	08/01/07	USGS	K	122	5.40	262	M
SDW 593-0075 (30MW0593)	26.43	08/01/07	USGS	K	107	5.29	312	M

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[Locations of wells and multilevel-sampler sites are shown in figures 1–3. Names shortened by removing prefix MA-. Altitudes are in feet above or below (-) the National Geodetic Vertical Datum of 1929 (NGVD29). Well names in parentheses are location identifiers assigned by the Air Force Center for Engineering and the Environment. **Reporting agency:** USGS, U.S. Geological Survey; AFCEE, Air Force Center for Engineering and the Environment. **Collection method:** P, GeoPump2 peristaltic pump; K, Keck SP–81 submersible pump; G, Grundfos Redi-Flo2 submersible pump; W, Watera inertial check-valve pump. **Dissolved oxygen method:** C, CHEMetrics photometer; M, YSI meter and probe or sonde. ft, feet; µS/cm, microsiemens per centimeter at 25 degrees Celsius; µM, micromole per liter; meq/L, milliequivalent per liter; E, estimated value less than the practical detection limit reported by CHEMetrics, Inc.; --, no data]

Well or multilevel-sampler port name	Altitude of midpoint of screen (ft)	Sampling date	Temper-ature (degrees Celsius)	Alkalinity (meq/L)	Phosphate, field photometer (µM)
SDW 556-0165 (03MW1017B)	-65.00	10/02/07	14.8	--	--
SDW 556-0235 (03MW1017A)	-135.06	10/02/07	13.4	--	--
SDW 557-0165 (03MW2407A)	-76.02	10/12/07	14.2	--	--
SDW 558-0185 (03MW2414B)	-79.96	10/15/07	12.6	--	--
SDW 559-0140 (03MW2630B)	-60.35	10/12/07	13.2	--	--
SDW 559-0229 (03MW2630A)	-149.43	10/12/07	12.6	--	--
SDW 560-0068 (95MW0107B)	29.56	09/05/07	18.3	--	--
SDW 590-0074 (30MW0590)	22.33	08/01/07	13.9	--	9.0
SDW 593-0075 (30MW0593)	26.43	08/01/07	13.3	--	4.2