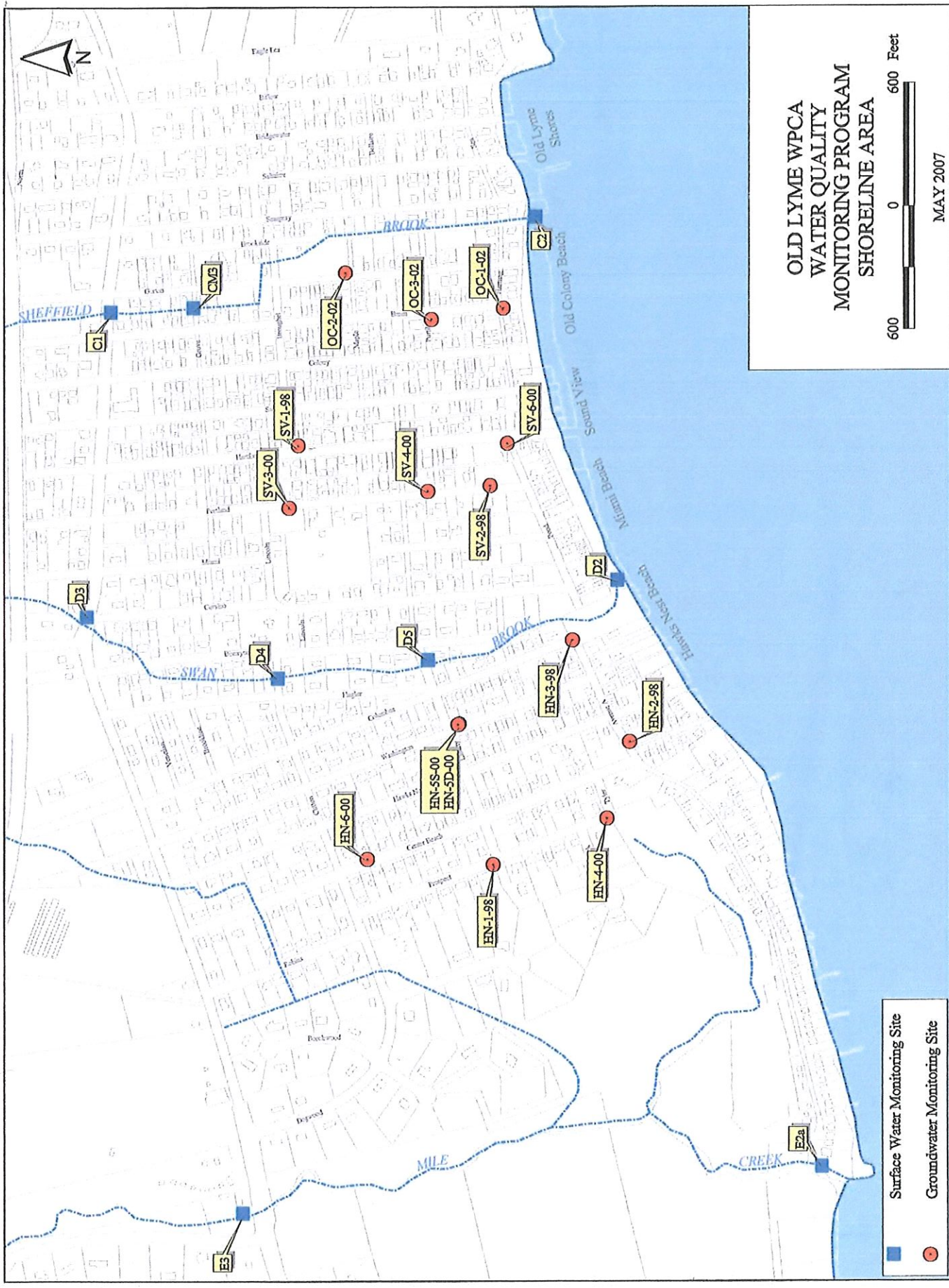


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OLD LYME WPCA
WATER QUALITY
MONITORING PROGRAM
SHORELINE AREA



MAY 2007

NATHAN L. JACOBSON & ASSOCIATES, INC.

- Surface Water Monitoring Site
- Groundwater Monitoring Site

TOWN OF OLD LYME
WATER POLLUTION CONTROL AUTHORITY

GROUNDWATER QUALITY DATA

SV-1	Top Ground To Water Feet	Spec Cond. umhos/cm	Chloride mg/l	Nitrate mg/l	Nitrite mg/l	TKN mg/l	Ammonia mg/l	Total Nitrogen mg/l	TI Coli. Bact #/100 ml	Fecal Coli #/100 ml	Fecal Strepto. #/100 ml	Escheri. Coli #/100 ml
6/25/1998	4.00	125	26	2.90	0.015	0.42	0.14	3.3	10	20	0	nt
9/23/1998	7.25	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
10/1/1998	7.44	1770	43	3.20	0.005	0.23	0.05	3.4	2	2	2	nt
4/6/1999	4.52	198	33	4.00	0.005	0.01	0.05	4.0	0	2	2	nt
5/11/1999	5.96	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
10/19/1999	5.20	212	32	4.60	0.005	0.01	0.05	4.6	0	2	0	nt
6/21/2000	3.98	202	30	2.30	0.005	2.00	0.05	4.3	0	2	0	nt
9/8/2000	6.64	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
9/13/2000	6.79	274	52	2.70	0.005	2.00	0.05	4.7	nt	2	2	nt
5/4/2001	4.69	180	27	0.95	0.005	1.30	0.05	2.3	nt	4	4	nt
9/26/2001	6.65	280	51	4.00	0.010	0.39	0.11	4.4	nt	100	100	nt
5/31/2002	5.09	200	31	5.50	0.010	0.88	0.06	6.4	nt	10	10	nt
8/22/2002	8.04	260	44	4.70	0.010	0.85	0.14	5.6	10	10	40	nt
5/7/2003	3.91	210	33	5.00	0.010	1.90	0.18	6.9	10	10	10	nt
9/10/2003	6.24	260	43	3.20	0.010	0.43	0.05	3.6	80	20	40	nt
6/10/2004	5.09	230	39	3.70	0.010	0.74	0.12	4.5	10	10	10	10
8/17/2004	7.02	270	45	3.40	0.010	0.43	0.03	3.8	10	10	10	nt
5/11/2005	4.34	210	31	3.30	0.010	1.20	0.14	4.5	10	10	10	nt
9/13/2005	8.19	280	48	3.80	0.010	1.90	0.74	5.7	20	20	100	20
8/10/2006	6.54	240	37	2.80	0.010	0.67	0.06	3.5	20	20	20	20
5/9/2007	4.58	160	22	2.10	0.010	1.20	0.08	3.3	20	20	20	20
8/29/2007	nt	220	36	2.00	0.010	0.49	0.04	2.5	10	10	10	10
4/17/2008	4.54	210	41	2.10	0.010	0.92	0.04	3.0	10	10	10	10
9/3/2008	7.15	251	41	4.90	0.010	0.94	0.05	5.9	10	10	10	10
5/21/2009	4.89	nt	29	3.10	0.010	1.10	0.08	4.2	10	10	10	10
8/18/2009	5.56	229	42	3.30	0.020	0.74	0.05	4.1	10	10	10	10
5/24/2010	nt	214	36	3.60	nt	0.56	0.02	4.1	10	10	10	10
9/16/2010	7.87	238	46	2.80	0.010	0.31	0.04	3.1	10	10	10	10
11/9/2011	6.12	345	55	2.50	0.010	0.54	0.04	3.1	10	10	10	10
6/19/2012	5.42	210	35	2.88	0.010	0.62	0.02	3.5	10	10	10	10
10/3/2013	7.44	221	53	2.88	0.130	1.12	0.13	4.1	20	10	10	10
Minimum	3.91	125	22	0.95	0.005	0.01	0.02	2.3	0	2	0	10
Maximum	8.19	1770	55	5.50	0.130	2.00	0.74	6.9	80	100	100	20
Average	5.90	285	39	3.29	0.014	0.85	0.10	4.2	na	na	na	na

Bold/Italic

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TOWN OF OLD LYME
WATER POLLUTION CONTROL AUTHORITY

GROUNDWATER QUALITY DATA

SV-2	Top Ground To Water Feet	Spec Cond. umhos/cm	Chloride mg/l	Nitrate mg/l	Nitrite mg/l	TKN mg/l	Ammonia mg/l	Total Nitrogen mg/l	TI Coli. Bact #/100 ml	Fecal Coli #/100 ml	Fecal Strepto. #/100 ml	Escheri. Coli #/100 ml
6/25/1998	1.58	596	117	0.06	0.041	5.90	4.50	6.0	2	2	2	nt
9/23/1998	2.02	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
10/1/1998	2.15	254	450	0.01	0.005	3.70	4.20	3.7	18	20	2	nt
4/6/1999	1.87	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
5/12/1999	2.17	994	160	0.01	0.017	4.50	4.00	4.5	0	2	2	nt
10/19/1999	1.31	3140	900	0.04	0.017	9.60	5.80	9.7	0	2	0	nt
6/21/2000	1.57	875	120	0.01	0.011	4.30	2.50	4.3	9	2	0	nt
9/8/2000	2.11	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
9/13/2000	1.67	1970	460	0.01	0.019	10.00	5.50	10.0	nt	250	12	nt
5/4/2001	2.24	1300	220	0.01	0.045	7.50	4.40	7.6	nt	4	4	nt
9/26/2001	1.37	1200	190	0.18	0.010	7.80	4.20	8.0	nt	100	100	nt
5/31/2002	1.95	970	88	0.01	0.010	5.80	3.90	5.8	nt	10	160	nt
8/22/2002	2.74	1300	210	0.08	0.010	13.00	6.80	13.1	10	10	50	nt
5/7/2003	1.72	880	110	0.13	0.010	5.10	3.40	5.2	10	10	10	nt
9/9/2003	1.82	1000	180	0.05	0.010	7.80	4.90	7.9	20	20	20	nt
6/10/2004	2.01	1000	160	0.05	0.010	4.00	3.10	4.1	10	10	10	10
8/18/2004	1.68	1300	200	0.05	0.010	6.30	5.10	6.4	10	10	10	nt
5/11/2005	1.81	750	110	0.06	0.010	5.90	3.30	6.0	10	10	10	nt
9/13/2005	2.47	1100	130	0.05	0.010	9.40	7.20	9.5	20	20	20	20
8/10/2006	1.87	1700	330	0.05	0.010	7.60	5.10	7.7	20	20	20	20
5/8/2007	2.00	1100	220	0.01	0.090	4.10	2.90	4.2	20	20	20	20
8/29/2007	nt	1200	200	0.03	0.012	8.90	6.90	8.9	10	10	10	10
4/16/2008	1.83	886	180	0.10	0.010	4.80	2.30	4.9	10	10	10	10
9/4/2008	2.42	1640	320	0.01	0.010	9.20	6.40	9.2	10	10	10	10
5/21/2009	nt	nt	120	0.01	0.060	4.90	3.70	5.0	10	10	10	10
8/18/2009	2.12	1320	230	0.01	0.010	7.60	6.20	7.6	10	10	10	10
5/24/2010	nt	783	110	0.01	nt	4.40	3.60	4.4	10	10	40	10
9/16/2010	1.95	1900	380	0.01	0.010	8.50	7.20	8.5	10	10	10	10
11/9/2011	1.67	1470	420	0.01	0.080	8.90	4.40	9.0	10	10	10	10
6/19/2012	1.82	1350	322	0.01	0.080	4.59	3.62	4.7	10	10	10	10
10/3/2013	1.92	2120	964	0.01	0.050	10.90	9.64	11.0	10	10	10	10
Minimum	1.31	254	88	0.01	0.005	3.70	2.30	3.7	0	2	0	10
Maximum	2.74	3140	964	0.18	0.090	13.00	9.64	13.1	20	250	160	20
Average	1.92	1263	271	0.04	0.025	6.96	4.81	7.0	na	na	na	na

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TOWN OF OLD LYME
WATER POLLUTION CONTROL AUTHORITY

GROUNDWATER QUALITY DATA

SV-3	Top Ground To Water Feet	Spec Cond. umhos/cm	Chloride mg/l	Nitrate mg/l	Nitrite mg/l	TKN mg/l	Ammonia mg/l	Total Nitrogen mg/l	TI Coli. Bact #/100 ml	Fecal Coli #/100 ml	Fecal Strepto. #/100 ml	Escheri. Coli #/100 ml
9/8/2000	6.31	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
9/13/2000	6.40	164	17	2.40	0.005	1.30	0.05	3.7	nt	2	2	nt
5/4/2001	4.44	150	17	0.43	0.050	1.60	0.05	2.1	nt	4	4	nt
9/26/2001	6.24	200	22	4.60	0.010	1.40	0.23	6.0	nt	100	100	nt
5/31/2002	4.59	160	20	6.50	0.010	1.00	0.06	7.5	nt	10	30	nt
8/22/2002	7.27	260	22	2.70	0.010	12.00	1.60	14.7	100	50	100	nt
5/7/2003	3.96	150	18	4.40	0.010	0.67	0.11	5.1	10	10	10	nt
9/10/2003	5.71	150	14	2.80	0.010	0.39	0.06	3.2	120	20	20	nt
6/10/2004	5.00	170	16	5.80	0.010	0.62	0.15	6.4	10	10	10	10
Duplicate	-	170	15	5.60	0.010	0.68	0.14	6.3	10	10	10	10
8/17/2004	6.88	170	16	4.90	0.010	0.44	0.08	5.4	10	10	10	nt
5/12/2005	4.74	170	18	4.60	0.010	0.48	0.05	5.1	10	10	10	nt
9/13/2005	7.96	240	22	2.50	0.020	2.20	0.76	4.7	20	20	40	20
8/9/2006	6.00	140	13	2.80	0.010	0.84	0.06	3.7	20	20	20	20
5/8/2007	4.23	130	12	2.80	0.010	0.10	0.03	2.9	20	20	20	20
8/29/2007	nt	190	50	2.10	0.890	1.50	0.11	4.5	10	10	10	10
4/16/2008	4.00	144	13	4.20	0.020	1.30	0.10	5.5	10	10	10	10
9/3/2008	6.49	213	22	7.80	0.140	1.10	0.04	9.0	10	10	10	10
5/21/2009	4.57	nt	17	5.00	0.010	0.80	0.06	5.8	10	10	10	10
8/18/2009	5.43	156	14	4.50	0.030	0.63	0.07	5.2	10	10	10	10
5/24/2010	nt	151	16	3.70	nt	0.41	0.02	4.1	10	10	10	10
9/16/2010	7.39	189	54	2.10	0.580	0.62	0.06	3.3	10	10	10	10
11/9/2011	4.92	159	15	5.50	0.010	0.82	0.04	6.3	10	10	10	10
6/19/2012	5.02	162	17	3.97	0.010	0.76	0.02	4.7	10	10	10	10
10/3/2013	6.87	215	24	4.83	0.290	1.27	0.20	6.4	10	10	10	10
Minimum	3.96	130	12	0.43	0.005	0.10	0.02	2.1	10	2	2	10
Maximum	7.96	260	54	7.80	0.890	12.00	1.60	14.7	120	100	100	20
Average	5.66	174	20	4.02	0.094	1.37	0.17	5.5	na	na	na	na

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TOWN OF OLD LYME
WATER POLLUTION CONTROL AUTHORITY

GROUNDWATER QUALITY DATA

SV-4	Top Ground To Water Feet	Spec Cond. umhos/cm	Chloride mg/l	Nitrate mg/l	Nitrite mg/l	TKN mg/l	Ammonia mg/l	Total Nitrogen mg/l	TI Coli. Bact #/100 ml	Fecal Coli #/100 ml	Fecal Strepto. #/100 ml	Escheri. Coli #/100 ml
9/8/2000	1.89	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
9/13/2000	1.63	478	52	<i>0.01</i>	<i>0.005</i>	12.00	9.80	12.0	nt	2	2	nt
5/4/2001	1.62	360	24	0.01	0.017	8.90	7.70	8.9	nt	4	4	nt
9/26/2001	1.40	320	46	0.18	<i>0.010</i>	11.00	10.00	11.2	nt	<i>100</i>	<i>100</i>	nt
5/31/2002	1.48	460	36	<i>0.01</i>	<i>0.010</i>	12.00	11.00	12.0	nt	<i>10</i>	450	nt
8/22/2002	2.35	460	38	0.08	<i>0.010</i>	1.70	1.20	1.8	<i>10</i>	<i>10</i>	>600	nt
5/7/2003	1.26	410	27	0.28	<i>0.010</i>	11.00	9.40	11.3	<i>10</i>	<i>10</i>	<i>10</i>	nt
9/10/2003	1.70	500	34	<i>0.05</i>	<i>0.010</i>	11.00	10.00	11.1	100	20	20	nt
6/10/2004	1.60	460	24	<i>0.05</i>	<i>0.010</i>	8.30	7.60	8.4	<i>10</i>	<i>10</i>	<i>10</i>	<i>10</i>
8/17/2004	1.87	500	28	<i>0.05</i>	<i>0.010</i>	8.30	7.80	8.4	<i>10</i>	<i>10</i>	<i>10</i>	<i>10</i>
5/11/2005	1.27	330	10	<i>0.05</i>	<i>0.010</i>	6.60	5.90	6.7	<i>10</i>	<i>10</i>	<i>10</i>	nt
9/13/2005	2.30	420	29	0.06	<i>0.010</i>	11.00	10.00	11.1	20	20	20	20
8/9/2006	1.75	370	19	0.06	<i>0.010</i>	8.20	7.30	8.3	20	20	20	20
5/8/2007	1.33	340	17	<i>0.01</i>	0.040	7.00	6.00	7.1	20	20	20	20
8/29/2007	nt	380	28	<i>0.01</i>	0.050	7.40	6.70	7.5	<i>10</i>	<i>10</i>	<i>10</i>	<i>10</i>
4/16/2008	1.22	231	15	<i>0.03</i>	<i>0.010</i>	6.50	5.60	6.5	<i>10</i>	<i>10</i>	<i>10</i>	<i>10</i>
9/4/2008	2.01	323	19	<i>0.01</i>	0.060	5.60	5.60	5.7	<i>10</i>	<i>10</i>	<i>10</i>	<i>10</i>
5/21/2009	nt	nt	13	<i>0.01</i>	0.040	6.20	5.70	6.3	<i>10</i>	<i>10</i>	<i>10</i>	<i>10</i>
8/18/2009	1.61	265	17	<i>0.01</i>	0.080	6.00	5.00	6.1	<i>10</i>	<i>10</i>	<i>10</i>	<i>10</i>
5/24/2010	nt	264	10	<i>0.01</i>	nt	5.00	4.70	5.0	<i>10</i>	<i>10</i>	<i>10</i>	<i>10</i>
9/16/2010	2.03	319	43	<i>0.20</i>	<i>0.200</i>	6.20	5.80	6.6	<i>10</i>	<i>10</i>	<i>10</i>	<i>10</i>
11/9/2011	0.99	287	17	<i>0.01</i>	0.060	5.50	5.10	5.6	<i>10</i>	<i>10</i>	<i>10</i>	<i>10</i>
6/19/2012	1.34	476	100	<i>0.01</i>	0.060	5.97	5.55	6.0	<i>10</i>	<i>10</i>	<i>10</i>	<i>10</i>
10/3/2013	1.75	1010	373	<i>0.01</i>	0.040	7.97	7.30	8.0	<i>10</i>	<i>10</i>	<i>10</i>	<i>10</i>
Minimum	0.99	231	10	<i>0.01</i>	<i>0.005</i>	1.70	1.20	1.8	<i>10</i>	<i>10</i>	<i>10</i>	<i>10</i>
Maximum	2.35	1010	373	0.28	0.200	12.00	11.00	12.0	100	<i>100</i>	>600	20
Average	1.64	382	26	0.05	0.022	8.09	7.21	8.2	na	na	na	na

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TOWN OF OLD LYME
WATER POLLUTION CONTROL AUTHORITY

GROUNDWATER QUALITY DATA

SV-6	Top Ground To Water Feet	Spec Cond. umhos/cm	Chloride mg/l	Nitrate mg/l	Nitrite mg/l	TKN mg/l	Ammonia mg/l	Total Nitrogen mg/l	TI Coli. Bact #/100 ml	Fecal Coli #/100 ml	Fecal Strepto. #/100 ml	Escheri. Coli #/100 ml
9/8/2000	1.62	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
9/13/2000	1.40	688	160	0.01	0.005	2.80	0.70	2.8	nt	2	16	nt
5/4/2001	1.41	580	110	0.01	0.005	2.00	0.77	2.0	nt	4	4	nt
9/26/2001	0.98	510	110	0.22	0.010	1.20	0.67	1.4	nt	100	100	nt
5/31/2002	1.49	540	100	0.01	0.010	2.00	1.30	2.0	nt	10	70	nt
8/22/2002	1.62	510	94	0.08	0.010	6.00	1.60	6.1	10	10	>600	nt
5/7/2003	1.40	460	82	0.23	0.010	1.40	0.72	1.6	10	10	10	nt
9/9/2003	1.17	420	80	0.05	0.010	1.70	0.46	1.8	180	160	200	nt
6/10/2004	1.50	600	120	0.05	0.010	3.40	0.87	3.5	10	10	10	10
8/17/2004	1.12	460	80	0.05	0.010	1.40	0.54	1.5	200	1000	50	nt
5/11/2005	1.34	430	73	0.05	0.010	1.30	0.73	1.4	10	10	10	nt
9/13/2005	1.81	460	76	0.05	0.010	5.40	2.50	5.5	20	20	300	20
8/10/2006	1.16	490	86	0.05	0.010	3.90	0.71	4.0	20	20	20	20
5/9/2007	1.63	360	56	0.01	0.010	0.73	0.23	0.8	20	20	20	20
8/29/2007	nt	370	63	0.01	0.010	1.00	0.34	1.0	60	50	10	60
4/17/2008	1.18	311	46	0.01	0.010	2.00	1.00	2.0	10	10	10	10
9/4/2008	1.54	361	57	0.01	0.010	2.20	0.40	2.2	40	10	10	10
5/21/2009	1.73	nt	55	0.01	0.010	1.70	0.92	1.7	300	40	20	300
8/18/2009	1.25	398	65	0.01	0.010	2.00	0.91	2.0	10	10	10	10
5/24/2010	nt	356	59	0.01	nt	0.50	0.10	0.5	120	10	10	10
9/16/2010	1.51	382	66	0.01	0.020	2.20	1.10	2.2	150	10	10	10
11/9/2011	1.03	350	63	0.01	0.010	0.61	0.19	0.6	50	10	10	10
6/19/2012	1.08	405	54	0.05	0.05	0.90	0.31	1.0	10	10	10	10
10/3/2013	1.33	354	94	0.01	0.01	1.19	0.66	1.2	20	10	10	10
Minimum	0.98	311	46	0.01	0.005	0.50	0.10	0.5	10	10	10	10
Maximum	1.81	688	160	0.23	0.020	6.00	2.50	6.1	300	1000	>600	20
Average	1.38	445	80	0.05	0.012	2.07	0.77	2.2	na	na	na	na

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