

BOARD OF HEALTH
WAYLAND, MA 01778

W03-02 \$125
Application Fee \$50
Received 4-25-03
CK # 055024

APPLICATION FOR PERMIT TO CONSTRUCT A WELL

I hereby petition the Board of Health of Wayland Massachusetts for a permit to construct a well.

Address of Property: Street Number 121 Old Sudbury Rd Lot Number _____

Name of Owner: Wayland Country Club Telephone Number 508-358-4775 Ext

Address of Owner: _____

Name of Applicant: Robert Quirk Telephone Number _____

Address of Applicant: _____

A plot plan shall be submitted with this application as required by the Wayland Board of Health in the "Minimum Sanitation Standard for Private and Semi-Public Water Supply."

The undersigned acknowledges that he/she must, before commencing construction or use of the system which is the subject matter of this application, secure any and all other permits which may be required by the Laws of the Town of Wayland and the Commonwealth of Massachusetts, and agrees to abide by all rules and regulations of the Town of Wayland and the Commonwealth of Massachusetts. The undersigned also agrees that no occupancy of the facilities which the well is to serve shall take place until the well is installed, completed, and inspected and has been demonstrated to supply water of the quality and quantity specified herein.

Date 4/23/03 Signature of Applicant [Signature]

PERMIT NUMBER W03-02

BOARD OF HEALTH
WAYLAND, MA 01778
PERMIT TO CONSTRUCT A WELL

This is to certify that Wayland Country Club

is hereby granted permission to install a well on the premises at 121 Old Sudbury Road

_____ in accordance with the above application, and in strict conformance with the requirements of the rules and regulations of the Board of Health and the Commonwealth of Massachusetts relating thereto.

Approval Recommended By: Wayland Board of Health Date: 7/29/03

* Permit Granted: August 1, 2003

* Permit granted with attached conditions BOARD OF HEALTH [Signature]
Director of Public Health

WELL DATA

Water Analysis: Received _____
Approved _____

Flow Data: Received _____
Approved _____

**CONDITIONS FOR WAYLAND COUNTRY CLUB IRRIGATION WELL, 121
OLD SUDBURY ROAD, AS APPROVED BY BOARD OF HEALTH AT THE
REGULAR MEETING ON JULY 29, 2003**

- 1) The well shall include installation of a properly calibrated meter to measure daily withdrawal. Results shall be reported on a bi-monthly basis and mailed to the Wayland Board of Health and the Wayland Water Department during the operation of the well. The meter shall be calibrated annually. Bi-monthly records of water usage shall also be made available to the Department of Environmental Protection upon request
- 2) The well shall be limited to **less than** the threshold volume of 100,000 gallons per day during the peak season of June, July and August. "Threshold volume" is defined in 310 CMR 36.03 to mean "an average daily volume of 100,000 gallons for any period of three consecutive months, from a total withdrawal of not less than 9 million gallons; or an average daily volume of 100,000 gallons for periods which exceed three consecutive months, calculated by dividing the total withdrawal by the period of operation". The applicant shall send a written report of water usage annually on a calendar year basis for review to the Board of Health, and shall have an additional review in three years from the date of issuance of the permit at a meeting before the Board of Health.
- 3) A proper monitoring well shall be placed at an appropriate location to insure that the irrigation well has no impact on the drawdown of the Baldwin Pond wells. As noted in the June 20, 2003 letter from the Department of Environmental Protection, the applicant shall conduct an extended pumping test and determine drawdowns and potential impacts upon the Baldwin Pond wellfield. It is suggested that Baldwin Pond #1, currently used as an emergency backup supply, and a staff gauge in the pond both be utilized as monitoring points.
- 4) Best management practices shall be continued regarding the storage and use of fertilizers, herbicides and pesticides. The Department of Environmental Protection also suggests: a. daily monitoring of soil moisture; an irrigation schedule; use of wetting agents; integrated pest management practices; and the use of rain sensors.
- 5) The Board of Health and Water Department reserves the right to enter the property during reasonable hours to conduct appropriate inspections.

- 6) If it is determined that the irrigation well is causing any negative impact on the Town wells, the Board of Health reserves the right to revoke at will the use of the well.
- 7) The irrigation system shall be completely disconnected from the potable water supply. Any emergency reconnect shall be under the authority of the Wayland Water Commissioners.
- 8) The applicant shall conduct one initial round of SOC and VOC water quality analyses, once the well is stabilized and results shall be provided to the Board of Health.

WELL LOG

D.L. MAHER CO.

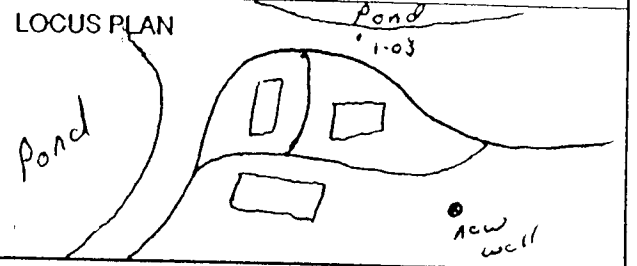
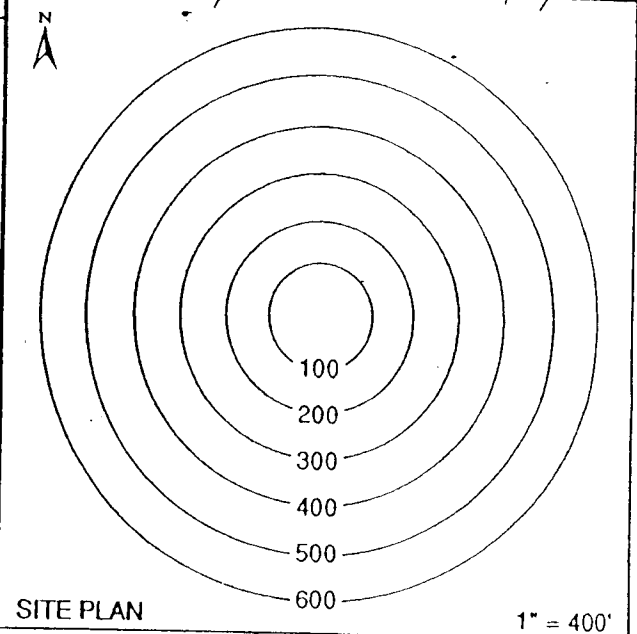
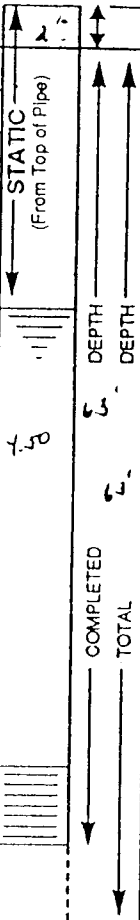


**GROUND WATER
CONSULTING - DRILLING SERVICES**

71 CONCORD STREET, NORTH READING, MASSACHUSETTS 01864
617/933-3210 FAX: 508/664-3299

Well No. 1-03 D.L.M. Job No. 3452-1297-1
 Driller A Callahan Helper J Malbo
 Job Name Wayland Country Club
 Location Wayland Water
 Owner's Representative Ted
 Date Started: 10/29/03 Date Finished: 10/30/03

DEPTH From	DEPTH To	Soil Classification	Loss of Wash Water
0	24'	Fine to coarse brown sand, gravel	Yes
24'	38'	Fine to coarse yellowish brown sand, gravel	Yes
38'	63'	Fine to med brown sand, some coarse brown sand, gravel	Yes
63'	65'	Fine gray sand, some med to coarse sand	
65'		Not Refusal	



Well No.	Diam.	Total Depth	Comp. Depth	Casing Left	SCREEN					Hours Dev.	Hours Pumped
					Length	Exposed	Material	Slot Size	Riser		
1-03	2.5	63'	63'	56'	6'	6'	SS	50	5'	12	4

Well #	Water Levels		
Date	Obs. No.	Obs. No.	Obs. No.
Time	G.P.M.	VAC	
	Static		
4:50	60	20'	

REMARKS:

RECEIVED

JAN 10 2007

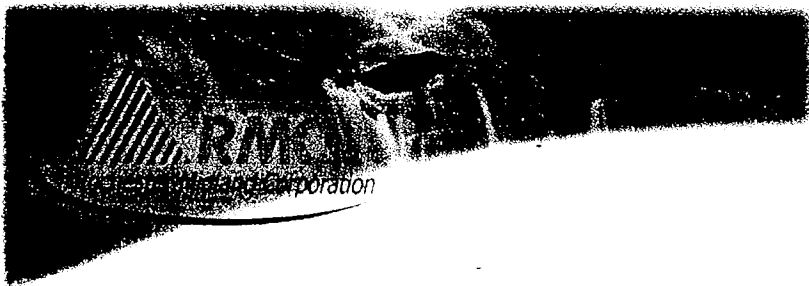
TOWN OF WAYLAND
BOARD OF HEALTH

42° 22' 5170
071° 22' 3816

Water Sample Collected

Date _____ Time _____

Sent To: _____



Water Energy Division

Water Analysis Report

Date Printed : May 26, 2006

Recco

Wayland, MA

Sample Date	05/06/2006
Sample Received	05/22/2006
Testing Finished	05/25/2006
Analyst	AP
Description	well water
Log Number	1089

Control Tests

conductivity, umhos/cm
total hardness, mg/L as CaCO3
calcium, mg/L Ca as CaCO3
magnesium, mg/L Mg as CaCO3
p alkalinity, mg/L as CaCO3
total alkalinity, mg/L as CaCO3
chloride, mg/L Cl-
pH
orthophosphate, mg/L PO4
total iron, mg/L Fe
total copper, mg/L Cu
silica, mg/L SiO2
color
sediment

Test Results	Minimum Limit	Maximum Limit
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292		
97		
70		
27		
0		
58		
23		
7.06		
0.09		
0.12		
0.02		
17.3		
clear		
none		

Recommendations:

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JAN 10 2007

TOWN OF WAYLAND
BOARD OF HEALTH

Comments:

Rochester Midland Sales Representative
Steve Aluisy
Cell: 508-221-6989
Serial #13135

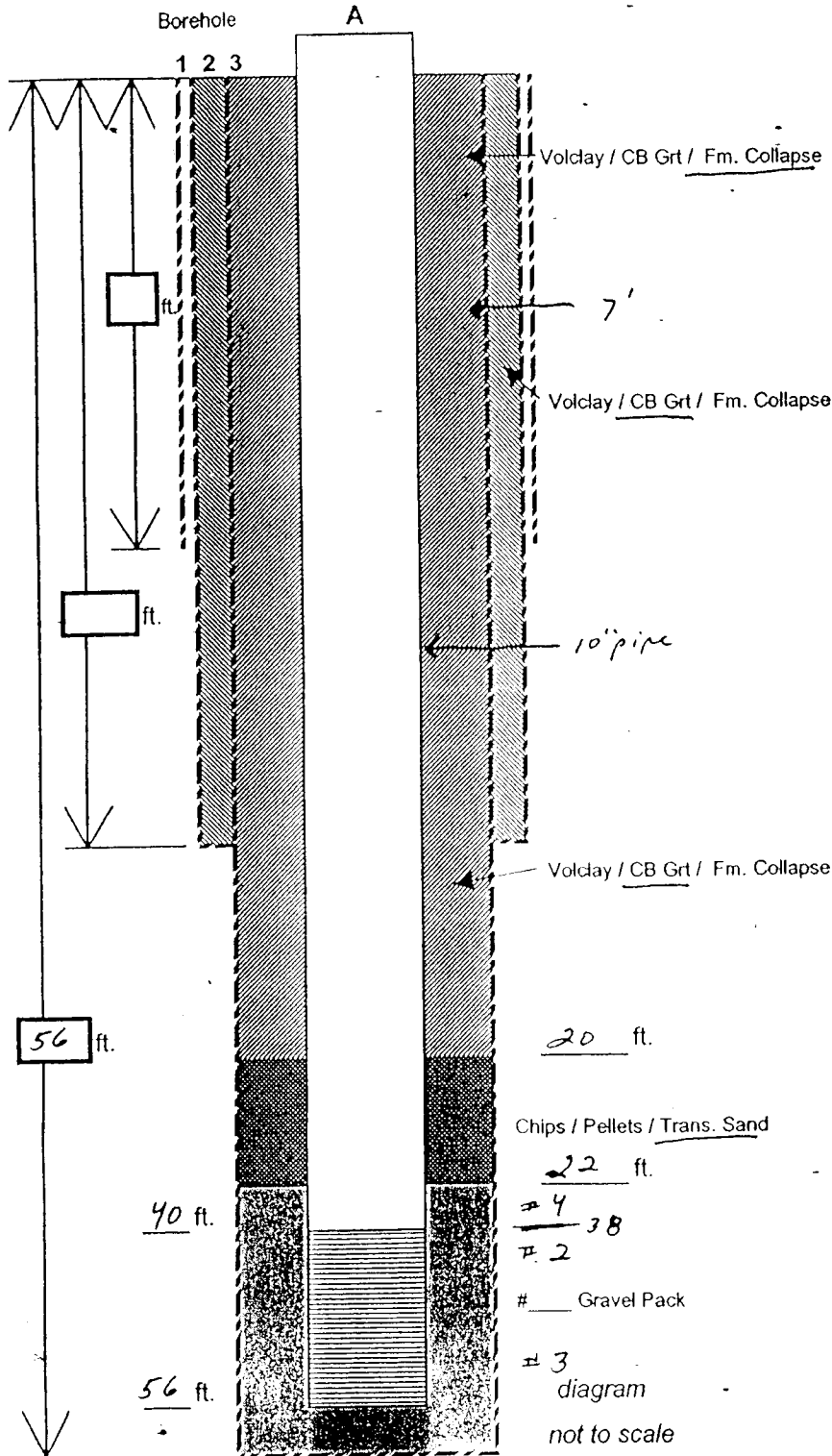
**Golf Course Enterprises, LLC.
Water Consumption in Gallons
2005 & 2006**

Month	2004	2005	2006
January			
February			
March			
April		58,900	270,000
May		311,000	245,000
June		2,100,000	360,000
July	1,260,000	1,980,000	1,620,000
August	1,130,000	790,000	1,430,000
September	360,000	570,000	810,000
October	175,000	81,000	315,000
November			
December			
Total	2,925,000	5,890,900	5,050,000

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TOWN OF WAYLAND
BOARD OF HEALTH



WELL CONSTRUCTION LOG

Well # 1 Job #: 345027294
 Project Wayland C.C.
 Location 4TH TEE
 LAT: _____ " LON: _____ "
 Driller: AB Proctor
 Installation Dates 4-12-04 / 6-1-04
 Static Water Level 16.60 ft.
 Drilling Method Cable Tool
 Borehole 1 Advanced using:

Borehole 2 Advanced using:

Borehole 3 Advanced using:

18" pipe

Quantities of Materials(Piece/Bag)	
Screen	
Diameter	10"
Length	16'
Type	S.S.
(slot Size)	Bottom 6' .075 Top 14' .050
Fig. K	welded
Riser	40' 10" pipe
Gravel #4	40
Gravel #2	24
Gravel #3	30
Pellets	
Chips	
Cement	15
Volclay	1.5
Concrete	

Length of Development 40 hrs.

Pumping Rate: 330 GPM

Pumping Level: 25.50 Ft.

Remarks:

All 18" pipe pellets

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Wayland Country Club, Account 2601605, Water Bills 1995..2006

Data from Water Dept, Sept 2006

	Usage	Billed \$	\$/100cuft		Annual Usage in gallons	Annual Bill
6/29/1995	133700	\$2,645.30	0.020			
11/13/1995	1592800	\$31,827.30	0.020			
12/19/1995	166200	\$3,295.30	0.020		1,892,700	37,768
6/20/1996	106300	\$2,097.30	0.020			
9/25/1996	928600	\$18,543.30	0.020			
12/17/1996	56200	\$1,095.30	0.019			
6/19/1996	23700	\$445.30	0.019		1,114,800	22,181
9/29/1997	1471200	\$29,395.30	0.020			
12/16/1997	173600	\$3,443.30	0.020		1,644,800	32,839
3/10/1998	10000	\$171.30	0.017			
6/5/1998	44300	\$857.30	0.019			
9/14/1998	10000	\$171.30	0.017			
12/3/1998	966450	\$16,555.30	0.017	Imputed	1,030,750	17,755
2/16/1999	22800	\$427.30	0.019			
3/16/1999	30000	\$571.30	0.019	Refunded... why?		
6/11/1999	221400	\$4,399.30	0.020			
9/10/1999	934800	\$18,667.30	0.020			
12/27/1999	108100	\$2,133.30	0.020		1,317,100	26,199
6/13/2000	26800	\$507.30	0.019			
9/21/2000	478600	\$9,543.30	0.020			
12/18/2000	190300	\$3,777.30	0.020		695,700	13,828
3/12/2001	30000	\$820.00	0.027	Refunded... why?		
6/7/2001	312600	\$9,298.00	0.030			
9/13/2001	768800	\$22,984.00	0.030			
12/12/2001	295900	\$8,797.00	0.030		1,407,300	41,899
6/4/2002	136500	\$4,015.00	0.029			
6/24/2002	959400	\$28,702.00	0.030			
12/16/2002	58400	\$1,672.00	0.029	Imputed	1,154,300	34,389
6/23/2003	184100	\$16,191.50	0.088			
9/16/2003	475100	\$42,381.50	0.089		659,200	58,573
1/9/2004	317000	\$28,152.50	0.089			
6/30/2004	213800	\$18,864.50	0.088			
7/29/2004	109100	\$9,441.50	0.087		639,900	56,459

No entries for 2005..2006 ??? (18 months!)

Annual Costs

□ Annual Costs

