APPENDIX B -WELLFLEET MUNICIPAL WATER SYSTEM MASTER PLAN, (Dec 2003)

STAGE Description &COST	What does this stage give us & why would we implement this ?
STAGE 1: Municipal Buildings **$1.4 million** Completed May 2004 (DEP permitted withdrawal = 20,000 gpd maximum)	• 57 hookups (35 Cole's Nk + 9 Municipal + 13 Cole's Nk reserved). • Abutters equal 301 (57 + 244). • Potential unmet demand of 244 connections because abutters to new water main have right to connect, if capacity exists. • Complies with DEP Administrative Consent Order to provide potable water to 4 Municipal Buildings and Marina (5 buildings).
STAGE 2: Relocate Well at Cole's Neck Site such that DEP requirement for 400' Zone of Contribution is met. **$40,000 - $50,000** (DEP permitted withdrawal = 100,000 gpd average)	• 79 hookups (22 more than Stage 1). • Abutters equal 301. • Potential unmet demand of 222 connections (301 – 79). • Actual withdrawal limited to 15,000 gpd average and 20,000 gpd maximum due to limitations of the 4" water main from well to Pole Dike Road and the lack of a water storage tank. • Supplies some, but not all, of the 50 private property owners who have petitioned to connect.
STAGE 3: Water Tower **$1 million** *Cumulative* *Stage 2 –3 Cost: $1.05 mil*	• 111 hookups (32 more than Stage 2). • Abutters equal 301. • Potential unmet demand of 190 connections (301 – 111). • Provides Fire protection to village and surrounding area. • Satisfies DEP requirement for above ground water storage. (DEP Guidelines & Policies for Public Water Systems Section 8.2). • Meets continuing demand from property owners with water sources that are undrinkable and a risk to public health.
STAGE 4: New Well at former Boy's Scout camp near Dyer Pond **$1.63 million** *Stage 2 – 4 Cost: $2.68 mil*	• 240 hookups (129 more than Stage 3). • Abutters are increased by a 100 to 401. • Potential unmet demand of 161 connections (401 – 240). • Satisfies DEP regs for a redundant water supply (310CMR 22.21(3)).
STAGE 5: New Cole's Neck Water Main **$895,000** *Stage 2 – 5 Cost: $3.575 mil*	• 627 possible hookups (387 more than Stage 4) • Abutters are increased by 74 to 475. • **Capacity exceeds** potential demand by 152 connections (627 – 475) • Pumping capacity and pressure is no longer hampered by the limitation of the 4" water main between the well site and the beginning of the water sys extension (Corner of Pole Dike Rd & Cole's Nk Rd).
STAGE 6: Holbrook Ave Area Install add'l water mains **$535,000** *Stage 2 –6 Cost : $4.11 million*	• 627 possible hookups (same as Stage 5). • Abutters are increased by 78 to 553. • **Capacity exceeds** potential demand by 74 connections (627 – 553).
STAGE 7: New Well at site of Wellfleet by the Sea **$2.084 million** (200,000 gpd average capacity) *Stage 2 – 7 Cost: $6.194 mil*	• 1272 possible hookups (645 more than Stage 6). • Abutters are increased by 73 to 626. • **Capacity exceeds** potential demand by 646 connections. • Implement if demand exceeds 553 connections (Stage 6)
STAGE 8: Cent Dist Expansion **$2.515 million** Water mains are constructed in 3 adjacent areas of the Central Dist. *Stage 2-8 Cost: $8.604 million*	• 1272 possible hookups (same as Stage 6) • Abutters are increased by 253 to total of 879. • **Capacity exceeds** potential demand by 393 connections. • Implement if demand exceeds 553 connections (Stage 6).