

| FINAL DWSRF 2010 Project Priority Ranking - Oct 27, 2010 | | | | | | | | | | | | | | |
|---|--|---|------------|--------------|---------------|-----------------------|------------------|-------|------------------------|-----|------|-----|------|-------|
| EPA ID: | PWS Name: | Project Title: | Population | \$ Request | Funded Amount | Estimated Forgiveness | Water Rate \$/Yr | % MHI | Proposed green funding | | | | | |
| | | | | | | | | | WQ | QTY | TRT- | CAP | AFFO | TOTAL |
| GREEN INFRASTRUCTURE PROJECT FUNDING (GREEN HIGHLIGHT) | | | | | | | | | | | | | | |
| Total eligible projects received | | | | | | | | | | | | | | |
| \$ 74,298,864 | | | | | | | | | | | | | | |
| 62 | | | | | | | | | | | | | | |
| Total funds received | | | | | | | | | | | | | | |
| \$ 2,249,315 \$ 824,795 | | | | | | | | | | | | | | |
| GENERAL INFRASTRUCTURE PROJECT FUNDING (BLUE HIGHLIGHT) TOTAL | | | | | | | | | | | | | | |
| \$ 5,682,975 \$ 2,420,840 | | | | | | | | | | | | | | |
| 1 1901010 | Pittsburg Water Dept | New gravel wells, PH, treatment and storage | 198 | \$ 2,562,623 | \$ | \$ | \$ 100.00 | 0.26% | 60 | 20 | 18 | 20 | 0 | 118 |
| 2 0993020 | Exeter Water Dept | Water Distribution Improvements | 480 | \$ 500,000 | \$ 225,000 | \$ | \$ 850.00 | 3.06% | 0 | 0 | 18 | 20 | 12 | 66 |
| 3 0803040 | Greenville Estates Village District | Well, pump house and distribution system | 70 | \$ 273,500 | \$ 82,050 | \$ | \$ 503.00 | 1.14% | 0 | 0 | 52 | 20 | 12 | 84 |
| 4 1221010 | Jaffrey Water Dept | Squamond Road Well supply trt and commiss | 3612 | \$ 1,171,000 | \$ 468,400 | \$ | \$ 680.00 | 1.96% | 0 | 20 | 0 | 0 | 60 | 80 |
| 5 0231010 | Berlin Water Works | Water Main Replacement | 9500 | \$ 3,000,000 | \$ 3,000,000 | \$ | \$ 503.00 | 2.06% | 0 | 0 | 18 | 0 | 60 | 78 |
| 6 2351010 | Tilton and Northfield Water District | Park Street Bridge Water Main Crossing | 2500 | \$ 223,075 | \$ 89,230 | \$ | \$ 798.36 | 2.69% | 0 | 0 | 18 | 0 | 60 | 78 |
| 7 2351010 | Tilton and Northfield Water District | Granite State River Water Main Crossing | 2500 | \$ 215,400 | \$ 86,160 | \$ | \$ 709.49 | 2.11% | 0 | 0 | 18 | 0 | 60 | 78 |
| 8 0142010 | Barnstead, PEU Locke Lake | Water Main Replacement | 2083 | \$ 300,000 | \$ 120,000 | \$ | \$ 115.00 | 2.42% | 0 | 0 | 18 | 0 | 60 | 78 |
| 9 1461010 | Madison Village Dist of Eidelweiss | Pump house upgrades, Renach tank, lower and upper Oak Ridge | 1050 | \$ 1,500,000 | \$ 1,500,000 | \$ | \$ 415.00 | 0.95% | 0 | 20 | 36 | 20 | 0 | 76 |
| 10 0801010 | Exeter Water Dept | Lary Lane, Stadium & Gilford well trt and water efficiency | 1100 | \$ 6,965,650 | \$ 6,965,650 | \$ | \$ 646.00 | 1.46% | 36 | 0 | 18 | 0 | 12 | 66 |
| 11 1141020 | Emerald Lake Village District | Water Distribution Improvements including service meters | 1300 | \$ 2,400,000 | \$ | \$ | \$ 530.00 | 1.66% | 0 | 0 | 18 | 20 | 28 | 66 |
| 12 0851010 | Franklin Water Dept | Willow Hill Storage Tank replace / expand to 1 MG | 7000 | \$ 3,030,000 | \$ 3,030,000 | \$ | \$ 680.00 | 1.96% | 0 | 20 | 0 | 44 | 64 | 64 |
| 13 0803030 | Exeter River Landing | Well House upgrade and new distribution system | 980 | \$ 300,000 | \$ 300,000 | \$ | \$ 503.00 | 1.14% | 14 | 0 | 36 | 0 | 12 | 62 |
| 14 1972010 | Raymond PEU Liberty Tree | Pumping Station Replacement, high effc motors | 183 | \$ 400,000 | \$ 400,000 | \$ | \$ 947.00 | 1.94% | 0 | 0 | 18 | 0 | 44 | 62 |
| 15 1241010 | Keene Water Dept | FY2012 Wash, Woodbury, Sullivan infrastructure improvements | 25000 | \$ 1,300,000 | \$ 1,300,000 | \$ | \$ 538.91 | 1.46% | 30 | 0 | 18 | 0 | 12 | 60 |
| 16 2001010 | Rochester Water Dept | Little Falls Bridge and Chestnut Hill water main ext | 20000 | \$ 1,812,000 | \$ 1,812,000 | \$ | \$ 575.00 | 1.42% | 0 | 0 | 18 | 30 | 12 | 60 |
| 17 1113010 | Hebron, Hillside Inn Condominiums | Infrastructure Upgrade and development | 62 | \$ 200,000 | \$ 200,000 | \$ | \$ 503.00 | 1.06% | 0 | 0 | 35 | 20 | 0 | 55 |
| 18 0912010 | Greenfield Crocheted Mtn Rehab Center | Center Well #14 Replacement + distrib improvements | 1050 | \$ 1,000,000 | \$ 1,000,000 | \$ | \$ 550.00 | 1.02% | 0 | 20 | 14 | 20 | 0 | 54 |
| 19 2462040 | Webster Pillsbury Lake District | Additional Water Supply to address shorage | 150 | \$ 1,339,200 | \$ 1,339,200 | \$ | \$ 538.91 | 1.46% | 26 | 0 | 14 | 0 | 12 | 54 |
| 20 1241010 | Keene Water Dept | WTF Waste Tank expansion | 2500 | \$ 230,000 | \$ 230,000 | \$ | \$ 500.00 | 1.39% | 0 | 22 | 0 | 30 | 0 | 52 |
| 21 0512240 | Keeney, Rockhouse Mountain | New well source + IC with Eidelweiss | 250 | \$ 500,000 | \$ 4,000,000 | \$ | \$ 522.00 | 1.19% | 0 | 18 | 0 | 18 | 0 | 48 |
| 22 0651010 | Dover Water Dept | North End Pressure Zone storage, pressure upgrades | 28000 | \$ 4,000,000 | \$ 2,450,000 | \$ | \$ 548.13 | 1.35% | 0 | 18 | 0 | 18 | 0 | 48 |
| 23 1731010 | Newmarket Water Dept | Rte 108 1550 ft water main and new storage tank | 5000 | \$ 2,450,000 | \$ 2,500,000 | \$ | \$ 561.00 | 1.56% | 0 | 0 | 18 | 0 | 12 | 48 |
| 24 1971010 | Raymond Water Department | Mottollo Water Line Extension | 2682 | \$ 2,500,000 | \$ 2,500,000 | \$ | \$ 544.00 | 1.11% | 36 | 0 | 0 | 0 | 12 | 48 |
| 25 0511010 | Conway Village Fire District | Pequawket Pond Loop Water Main Imp Phase I | 1937 | \$ 2,500,000 | \$ 2,500,000 | \$ | \$ 561.00 | 1.56% | 0 | 0 | 18 | 0 | 28 | 46 |
| 26 0511010 | Conway Village Fire District | Water main replacement Bald Hill Tanks Ph IA | 1937 | \$ 2,500,000 | \$ 2,500,000 | \$ | \$ 561.00 | 1.56% | 0 | 0 | 18 | 0 | 28 | 46 |
| 27 0511010 | Conway Village Fire District | Pequawket Pond Loop Water Main Imp Phase II | 1937 | \$ 1,100,000 | \$ 1,100,000 | \$ | \$ 561.00 | 1.56% | 0 | 0 | 18 | 0 | 28 | 46 |
| 28 0841020 | Franconia NH Mittersill | Mittersill new PH, well pumps, chem feed improvements | 475 | \$ 707,500 | \$ 707,500 | \$ | \$ 425.00 | 1.06% | 0 | 0 | 36 | 0 | 0 | 36 |
| 29 1731010 | Newmarket Water Dept | McIntosh Well and trt to address shortage, high eff motor | 5000 | \$ 2,508,000 | \$ 2,508,000 | \$ | \$ 548.13 | 1.35% | 0 | 22 | 0 | 0 | 12 | 34 |
| 30 1241010 | Keene Water Dept | Water Main Cleaning and lining 2011 | 25000 | \$ 250,000 | \$ 250,000 | \$ | \$ 538.91 | 1.46% | 0 | 0 | 18 | 0 | 12 | 30 |
| 31 1241010 | Keene Water Dept | Water Main Cleaning and lining 2012 | 25000 | \$ 250,000 | \$ 250,000 | \$ | \$ 538.91 | 1.46% | 0 | 0 | 18 | 0 | 12 | 30 |
| 32 1241010 | Keene Water Dept | Water Main Cleaning and lining 2013 | 25000 | \$ 250,000 | \$ 250,000 | \$ | \$ 538.91 | 1.46% | 0 | 0 | 18 | 0 | 12 | 30 |
| 33 1241010 | Keene Water Dept | Fire Hydrant Replacement 2011 | 25000 | \$ 98,116 | \$ 98,116 | \$ | \$ 538.91 | 1.46% | 0 | 0 | 18 | 0 | 12 | 30 |
| 34 1241010 | Keene Water Dept | Fire Hydrant Replacement 2012 | 25000 | \$ 206,043 | \$ 206,043 | \$ | \$ 538.91 | 1.46% | 0 | 0 | 18 | 0 | 12 | 30 |
| 35 1241010 | Keene Water Dept | Water Valve Replacement 2011 | 25000 | \$ 71,700 | \$ 71,700 | \$ | \$ 538.91 | 1.46% | 0 | 0 | 18 | 0 | 12 | 30 |
| 36 1241010 | Keene Water Dept | Water Valve Replacement 2012 | 25000 | \$ 73,755 | \$ 73,755 | \$ | \$ 538.91 | 1.46% | 0 | 0 | 18 | 0 | 12 | 30 |
| 37 1241010 | Keene Water Dept | Water Valve Replacement 2013 | 25000 | \$ 75,968 | \$ 75,968 | \$ | \$ 538.91 | 1.46% | 0 | 0 | 18 | 0 | 12 | 30 |
| 38 0691010 | Durham/JNH Water Supply | Water Main Replacement Colovos Rd | 16000 | \$ 902,000 | \$ 902,000 | \$ | \$ 426.73 | 1.42% | 0 | 0 | 18 | 0 | 12 | 30 |
| 39 0691010 | Durham/JNH Water Supply | Heating Plant Valve Cluster | 16000 | \$ 165,000 | \$ 165,000 | \$ | \$ 426.73 | 1.42% | 0 | 0 | 18 | 0 | 12 | 30 |
| 40 0801010 | Exeter Water Dept | Jady Hill Area water main loop | 11000 | \$ 1,300,000 | \$ 1,300,000 | \$ | \$ 646.00 | 1.46% | 0 | 0 | 18 | 0 | 12 | 30 |
| 41 0801010 | Exeter Water Dept | Portsmouth Ave Area water main replacement | 11000 | \$ 500,000 | \$ 500,000 | \$ | \$ 646.00 | 1.46% | 0 | 0 | 18 | 0 | 12 | 30 |
| 42 0801010 | Exeter Water Dept | Summer ST Water main Railroad Crossing | 11000 | \$ 280,000 | \$ 280,000 | \$ | \$ 646.00 | 1.46% | 0 | 0 | 18 | 0 | 12 | 30 |
| 43 1531010 | Merrimack Village District | Blending Wells 6, 7, 8 for Mn, Cl, VFDs, electrical | 25000 | \$ 835,000 | \$ 835,000 | \$ | \$ 322.00 | 0.47% | 28 | 0 | 0 | 0 | 0 | 28 |
| 44 2521010 | Wilton Water Works | Milford/Wilton Interconnection Pipeline and Pumping Station | 1665 | \$ 2,750,000 | \$ 2,750,000 | \$ | \$ 290.00 | 0.53% | 0 | 0 | 18 | 10 | 0 | 28 |
| 45 0651010 | Dover Water Dept | Willand Pond Well and Blending Improvements | 28000 | \$ 1,668,000 | \$ 1,668,000 | \$ | \$ 522.00 | 1.19% | 14 | 0 | 0 | 0 | 12 | 26 |
| 46 1241010 | Keene Water Dept | Well Building Roof Replacement | 25000 | \$ 50,830 | \$ 50,830 | \$ | \$ 538.91 | 1.46% | 0 | 0 | 14 | 0 | 12 | 26 |
| 47 0691010 | Durham/JNH Water Supply | Decommissioning of UNH Owned Tank | 16000 | \$ 220,000 | \$ 220,000 | \$ | \$ 426.73 | 1.42% | 0 | 0 | 14 | 0 | 12 | 26 |
| 48 1971010 | Raymond Water Department | New well development | 2682 | \$ 5,500,000 | \$ 5,500,000 | \$ | \$ 544.00 | 1.11% | 0 | 20 | 0 | 0 | 12 | 32 |
| 49 0112080 | Akinson HAWC Walnut Ridge Water | Settlers Ridge Pumping & Treatment Station | 2650 | \$ 455,000 | \$ 455,000 | \$ | \$ 610.00 | 0.87% | 0 | 20 | 0 | 0 | 0 | 20 |
| 50 2521010 | Wilton Water Works | Water Storage Tank | 1665 | \$ 1,678,000 | \$ 1,678,000 | \$ | \$ 290.00 | 0.53% | 0 | 20 | 0 | 0 | 0 | 20 |
| 51 1681010 | Newfields Village Water and Sewer District | New water storage tank and leak detection equipment | 500 | \$ 600,689 | \$ 600,689 | \$ | \$ 589.00 | 0.83% | 0 | 20 | 0 | 0 | 0 | 20 |
| 52 1531010 | Merrimack Village District | Turkey Hill Road Bridge Crossing | 25000 | \$ 670,000 | \$ 670,000 | \$ | \$ 322.00 | 0.47% | 0 | 0 | 18 | 0 | 0 | 18 |
| 53 1531010 | Merrimack Village District | Mitchell Woods Well | 25000 | \$ 2,099,000 | \$ 2,099,000 | \$ | \$ 322.00 | 0.47% | 0 | 18 | 0 | 0 | 0 | 18 |
| 54 2051010 | Salem Water Dept | Manor Pkwy Improvements phases 1&2 | 18000 | \$ 3,250,000 | \$ 3,250,000 | \$ | \$ 425.80 | 0.73% | 0 | 0 | 18 | 0 | 0 | 18 |
| 55 2521010 | Wilton Water Works | Replace 2,200 Feet of Water Main on Lower Main Street | 1665 | \$ 795,000 | \$ 795,000 | \$ | \$ 290.00 | 0.53% | 0 | 0 | 18 | 0 | 0 | 18 |
| 56 0112080 | Akinson HAWC Walnut Ridge Water | Sawyer Tank Electrical Upgrade & Generator Installation | 2650 | \$ 97,500 | \$ 97,500 | \$ | \$ 610.00 | 0.87% | 0 | 0 | 14 | 0 | 0 | 14 |
| 57 2521010 | Wilton Water Works | Production Well Protection Swale and Retention Pond | 1665 | \$ 420,000 | \$ 420,000 | \$ | \$ 290.00 | 0.53% | 0 | 0 | 14 | 0 | 0 | 14 |

| Pennichuck East Utility, Inc | |
|--|--------------|
| Liberty Tree Upgrade | |
| Life Cycle Cost Analysis | |
| 10-May-11 | |
| On Site Storage and Treatment - | |
| Well Electricity (5 HP)* - | \$ 1,494 |
| Annual Well maintenance - | \$ 702 |
| Annual Well Water Quality Sampling - | \$ 6,318 |
| Treatment System Labor (3 hours per week)- | \$ 7,897 |
| Booster Electricity (7.5 HP @ 10 Hrs/day) - | \$ 3,354 |
| Misc. Electricity - | \$ 2,000 |
| Treatment Chemicals - | \$ 4,503 |
| Deprecation on Storage (40,000 gallons) @ 2% - | \$ 2,095 |
| Depreciation on Zone Booster and treatment @ 2.5% - | \$ 11,718 |
| Depreciation on Water Mains @ 1.33% - | \$ 388 |
| Property Taxes - | \$ 6,867 |
| Pretax ROI on Total Project - | 25,625 |
| Estimated Annual Operating Cost - | \$ 72,962 |
| Estimated Annual Increase in PEU Bill - | 10.67 |
| Purchased Water from the Raymond Water Department - | |
| Purchased Water Cost - | \$ 36,051 |
| Depreciation on Water Mains @ 1.33% - | \$ 13,958 |
| Property Taxes - | \$ 17,005 |
| Pretax ROI on Total Project - | \$ 44,624 |
| Estimated Annual Operating Cost - | \$ 111,638 |
| Estimated Annual Increase in PEU Bill - | 16.33 |
| Model Data: | |
| Average cost per KwHr - | \$ 0.146 |
| PEU SRF Debt - | 2.86% |
| PEU InterCompany Debt - | 7.00% |
| PEU % Intercompany - | 34% |
| PEU pretax ROI - | 4.25% |
| Number of in PEU customers - | 6836 |
| *Based on (gpd/house) | 361 |
| Existing Liberty Tree Well production (gpm)- | 49 |
| Number of Homes @ Liberty Tree - | 72 |
| Town Mil Rate - | \$16.09 |
| State Mil Rate - | \$6.6 |
| Labor and Truck Rate per hour - | \$50.6 |
| Purchased Water Cost from Raymond (per 748 gallons)- | \$ 2.84 |
| On site Capex per Estimate- | \$ 602,648 |
| Interconnection Capex per Estimate (Includes Raymond Entrance Fee) - | \$ 1,049,460 |
| Raymond Entrance Fee (per gallon per day) - | \$ - |
| Raymond Entance Fee for Liberty Tree - | \$ - |

| Liberty Tree CWS | | | | | | |
|---|-----|--|----------------------|------------------------|---|-----|
| Interconnection Estimate with Milford Water Department | | | | | | |
| 5/2/2011 | | | | | | |
| Inventory | | | | | | |
| 4,600 | Ft | 12" DI Pipe | \$ 23.49 | \$ 108,054.00 | | |
| 5 | Ea. | 12" Mj DI Gate Valves | \$ 1,129.00 | \$ 5,645.00 | | |
| 1 | Ea. | 12" Mj 45 Degree Elbow | \$ 375.00 | \$ 375.00 | | |
| 4 | Ea. | 12" x 8" Mj DI Tee | \$ 400.00 | \$ 1,600.00 | | |
| 20 | Ea. | 12" Mega Lugs | \$ 61.70 | \$ 1,234.00 | | |
| 3 | Ea. | 8" Mj Plug | \$ 90.75 | \$ 272.25 | | |
| 260 | Ft | 8" CL52 DICL Pipe | \$ 15.35 | \$ 3,991.00 | | |
| 3 | Ea | 8" Tyton Plug | \$ 50.85 | \$ 23.99 | | |
| 12 | Ea | 8" MEGA LUGS | \$ 31.52 | \$ 378.24 | | |
| 4 | Ea | 8" Gate Valve | \$ 572.00 | \$ 2,288.00 | | |
| 9 | Ea | Thrust Block | \$ 25.00 | \$ 225.00 | | |
| 400 | Ft | 24" Steel Carrier Pipe | \$ 82.20 | \$ 32,880.00 | | |
| 40 | ea | 12" S.S spacers | \$ 600.00 | \$ 24,000.00 | | |
| 2 | Ea | US Met 94 Hydrants | \$ 1,509.00 | \$ 3,018.00 | | |
| 2 | Ea | 12"x 6" DI MJ Tees | \$ 444.00 | \$ 888.00 | | |
| 16 | Ft | 6" CL52 DICL Pipe | \$ 11.14 | \$ 178.24 | | |
| 6 | Ea | 6" Mega Lugs | \$ 22.40 | \$ 134.40 | | |
| 2 | Ea | 6" Gate Valve | \$ 359.13 | \$ 718.26 | | |
| 6 | Ea | Gate Boxes | \$ 40.00 | \$ 240.00 | | |
| 4 | Ea | 1" Air Release Valves | \$ 178.83 | \$ 715.32 | | |
| | | | Sub Total | \$ 186,858.70 | | |
| LABOR, EQUIPMENT & MATERIAL | | | | | | |
| 27 | Day | Large Crew - Pipework | \$ 3,900.00 | \$ 105,300.00 | | |
| 8 | Day | Jacking Crew | \$ 12,000.00 | \$ 96,000.00 | | |
| 496 | Ton | Road Restoration - Paving | \$ 80.00 | \$ 39,644.44 | | |
| 1865 | CY | Road Restoration - Gravel, includes Crew | \$ 47.50 | \$ 88,587.50 | | |
| 35 | Day | Traffic Control - 2 Flaggers | \$ 52.00 | \$ 1,820.00 | | |
| 2646 | CY | Bedding Sand | \$ 22.00 | \$ 58,207.89 | | |
| 22 | CY | Driveways Pavement - 12 | \$ 100.00 | \$ 2,222.22 | | |
| 204 | CY | Loam & Seed, includes Crew | \$ 36.00 | \$ 7,359.00 | | |
| 2800 | CY | Ledge | \$ 95.00 | \$ 266,000.00 | | |
| 4510 | Ft | Engineering Design & Inspection | \$ 5.00 | \$ 22,550.00 | | |
| 4510 | Ft | Survey | | \$ 10,000.00 | | |
| | | | Sub Total | \$ 687,691.06 | | |
| | | | Total | \$ 874,549.76 | | |
| | | | Contingencies | \$ 174,909.95 | @ | 20% |
| | | | Grand Total | \$ 1,049,459.71 | | |

