

**STATE OF NEW HAMPSHIRE
BEFORE THE
PUBLIC UTILITIES COMMISSION**

Re: Pennichuck East Utility, Inc.

SRF Financing of Water Main Replacement in the Locke Lake Water System

DW 10-

DIRECT PRE-FILED TESTIMONY OF DONALD L. WARE

December 16, 2010

1 **Professional and Educational Background**

2 **Q. What is your name and what is your position with Pennichuck Water Works,**
3 **Inc.?**

4 A. My name is Donald L. Ware. I am the President of Pennichuck East Utility, Inc. (the
5 “Company”). I have worked for the Company since 1995. I am a licensed
6 professional engineer in New Hampshire, Massachusetts and Maine.

7 **Q. Please describe your educational background.**

8 A. I have a Bachelor in Science degree in Civil Engineering from Bucknell University in
9 Lewisburg, Pennsylvania and I completed all the required courses, with the exception
10 of my thesis, for a Masters degree in Civil Engineering from the same institution. I
11 have a Masters in Business Administration from the Whittimore Business School at
12 the University of New Hampshire.

13 **Q. Please describe your professional background.**

14 A. Prior to joining Pennichuck, I served as the General Manager of the Augusta Water
15 District in Augusta, Maine from 1986 to 1995. I served as the District’s engineer
16 between 1982 and 1986. Prior to my engagement with the District, I served as a
17 design engineer for the State of Maine Department of Transportation for six months
18 and before that as a design engineer for Buchart-Horn Consulting Engineers from
19 1979 to 1982.

1 **Q. What are your responsibilities as President of the Company?**

2 A. As President, I am responsible for the overall operations of the Company, including
3 water quality and supply, distribution, engineering and water system capital
4 improvements. With regard to capital improvements overseen by the Company's
5 Engineering Department, I work closely with the Department and the Company's
6 Chief Engineer regarding project selection, project design, project management and
7 construction management.

8 **Q. What is the purpose of your testimony?**

9 A. I will be describing the Company's project to replace approximately 3000 LF of small
10 diameter PVC water main in the Locke Lake Water System located in Barnstead,
11 New Hampshire for which the Company seeks approval to finance with loan funds
12 issued by the New Hampshire Department of Environmental Services (NHDES)
13 through the State Revolving Loan Fund (SRF). Please see schedule DW-1 for the
14 NHDES final 2010 DWSRF project priority ratings which indicates that this project
15 was ranked #8 on DES' list.

16 **Q. What are the terms of the SRF loan?**

17 A. The SRF loan will be for \$300,000 and will have a term of 20 years with a level total
18 payment and a maximum interest rate of 2.864%. Due to the current level of water
19 rates in relation to Median Household Income in this community, the loan will have
20 40% principal forgiveness meaning that \$120,000 of the principle due will be
21 forgiven over the life of the loan (\$6,000 per year).

1 **Q. Could you please describe why the Company believes it needs to replace water**
2 **main in the Locke Lake Water System since the piping in question is less than 40**
3 **years old?**

4 A. The existing water main in the Locke Lake Water System consists of over 42,000 LF
5 of 4" and 3" schedule 40 glued joint PVC electrical conduit and in excess of 55,000
6 LF of 2" 160 PSI IPS HDPE with nylon stab fittings or SDR21 PVC with glued joints.
7 Neither type of pipe meets the AWWA standard for water mains. The schedule 40
8 glued joint PVC (all sizes) is consistently failing at the joints while the 2" HDPE
9 consistently fails at the nylon stab fitting. Over the past two years the Company has
10 repaired 45 leaks in the Locke Lake Water System, 22 of which have been on water
11 mains (the remaining 23 leaks were on the main to stop portion of a service).
12 Unaccounted for water in the Locke Lake Water system constantly exceeds 20% due
13 to the fact that as soon as one leak is found and repaired another leak develops. The
14 Company believes that the only way to eliminate the constant leakage is to replace all
15 the water mains and water services (main to stop).

16 **Q. How much has the Company spent on repairs during the past several years?**

17 The Company has spent an average of about \$100,000 per year over the past several
18 years in water main and water service repairs.

19 **Q. If system leakage is a problem why doesn't the Company replace all of the water**
20 **main in the Locke Lake Water System as opposed to the proposed 3,000 LF?**

21 A. Replacing all the water main at once would cost over \$10 million dollars and would
22 have a dire impact on water rates that would not be offset by the annual savings in
23 operating expenses associated with repairing the leaking water mains and services. In

1 an effort to mitigate rate increases associated with the water main replacement, the
2 Company's plan is to balance the cost of investing in new water main against the cost
3 and risks of water main leaks. The Company is targeting its total investment per year,
4 after principle forgiveness, to approximately equal the depreciation expense for the
5 existing Locke Lake assets. The anticipated principle forgiveness on the proposed
6 SRF loan will be 40%, or \$120,000, leaving the Company's investment in rate base
7 for the proposed project at \$180,000.

8 **Q. With about 100,000 LF of water main to replace where will the Company begin**
9 **the replacement project?**

10 A. Since the system breakage is not concentrated in any one particular area the Company
11 will begin its replacement project at the Peachum Road treatment plant and work its
12 way around the Lake over a series of years with a target of about 3,000 LF of water
13 main replacement per year. The Company will also coordinate its replacement
14 program with the Town of Barnstead paving program. In the event the Town plans to
15 pave a section of road where the Company has water main to be replaced, the
16 Company will complete the replacement of water main under the section of road to be
17 replaced in order to minimize pavement costs associated with the water main
18 replacement. The amount of pipe to be replaced each year will depend upon the type
19 of financing which is available for this water system. The Company plans to pursue
20 SRF money for the Locke Lake water main replacement in future years since this
21 money has the lowest possible interest rate and is provided with principle forgiveness
22 due to the water rates for this water system.

1 **Q. Will the Company replace the main to stop portion of the services as it replaces**
2 **the water mains?**

3 A. Yes. The existing services consist of one ¾” IPS HDPE service (main to stop) for
4 every two homes. The small diameter of the service creates pressure problems for
5 homeowners when both homes which receive water from the common service are
6 occupied and using water simultaneously. The Company will replace each single ¾”
7 IPS HDPE service with two 1” copper services. It is essential that services be
8 replaced since about one half of the system leaks each year occur on the main to stop
9 portion of the service.

10 **Q. When does the Company need approval of this financing request?**

11 A, The NHDES would like to finalize the loan documents associated with this loan by
12 April 1, 2011. The NHDES can not finalize the loan documents without the NHPUC
13 approving the proposed financing for this project. The NHDES has indicated that
14 they would like the Company to have NHPUC approval of the proposed financing by
15 March 1, 2011.

16 **Q. What is the timeline for this project?**

17 A. The list below provides an estimated timeline for the project:

- 18 1. File financing petition with Commission– December 10, 2010
- 19 2. Company Board Resolution approving SRF loan – December 17,
20 2010
- 21 3. NHPUC approval of Financing – March 1, 2011
- 22 4. Complete Engineering Design for replacement water mains –
23 March 1, 2011.

- 1 5. NHDES approval of proposed design – April 1, 2011
- 2 6. Bid water main replacement project – April 1, 2011
- 3 7. Sign SRF Loan Documents – April 1, 2011
- 4 8. Open Bids for water main replacement project – May 1, 2011
- 5 9. Complete Company, NHDES bid review and award contract –
- 6 May 15, 2011.
- 7 11. Contractor begin construction – June 15, 2011
- 8 12. Project substantial completion – September 1, 2011.

9 **Q. Does this complete your testimony?**

10 A. Yes.

11

Pennichuck East Utilities
Net Book Value [Depreciation]
For the Period January 1, 2010 to September 30, 2010
Locke Lake Mains
GAAP

Asset ID	ASSET BALANCES				DEPRECIATION						Net Book Value	
	Beginning	Additions	Deletions	Ending	Beg. Balance	Depr Exp & AFYD	Sec 179/179A	Oth. Additions	Deletions	End. Balance		
<i>Asset Type: Distribution Mains</i>												
<i>Life Yr Mo: 68 yr 0 mo</i>												
<i>Acquisition Date: Jan-2010 to Dec-2010</i>												
70000-005098	Colony Drive Main Replacement - engineering time	0.00	1,758.06	0.00	1,758.06	0.00	6.47	0.00	0.00	0.00	6.47	1,751.59
70000-005099	Colony Drive Main Replacement - engineering time	0.00	436.20	0.00	436.20	0.00	1.61	0.00	0.00	0.00	1.61	434.59
70000-005101	Colony Drive Main Replacement - Excavation of ledge/boulder	0.00	1,029.60	0.00	1,029.60	0.00	3.78	0.00	0.00	0.00	3.78	1,025.82
70000-005102	Colony Drive Main Replacement - 4" sdr 11 water main (440')	0.00	28,656.00	0.00	28,656.00	0.00	105.36	0.00	0.00	0.00	105.36	28,550.64
70000-005105	Colony Drive Main Replacement - PWW Labor & Materials	0.00	296.16	0.00	296.16	0.00	1.08	0.00	0.00	0.00	1.08	295.08
<i>Subtotal: Jan-2010 to Dec-2010 (5)</i>												
		0.00	32,176.02	0.00	32,176.02	0.00	118.30	0.00	0.00	0.00	118.30	32,057.72
<i>Subtotal: 68 yr 0 mo (5)</i>												
		0.00	32,176.02	0.00	32,176.02	0.00	118.30	0.00	0.00	0.00	118.30	32,057.72
<i>Subtotal: Distribution Mains (5)</i>												
		0.00	32,176.02	0.00	32,176.02	0.00	118.30	0.00	0.00	0.00	118.30	32,057.72
<i>Asset Type: Mains: 4" & Under</i>												
<i>Life Yr Mo: 68 yr 0 mo</i>												
<i>Acquisition Date: Jan-2006 to Dec-2006</i>												
60000-000748	Amherst Drive: Barnstead - 960' of 2"	0.00	2,565.16	0.00	2,565.16	0.00	28.38	0.00	123.97	0.00	152.35	2,412.81
60000-000749	Andover Drive: Barnstead - 1,463' of 2"	0.00	3,909.20	0.00	3,909.20	0.00	43.26	0.00	188.93	0.00	232.19	3,677.01
60000-000750	Barnstead Drive: Barnstead - 361' of 2"	0.00	964.61	0.00	964.61	0.00	10.68	0.00	46.62	0.00	57.30	907.31
60000-000751	Windsor Drive & Suncook Valley Road: Barnstead - 1,936' of 2"	0.00	5,173.08	0.00	5,173.08	0.00	57.24	0.00	250.01	0.00	307.25	4,865.83
60000-000752	Blueberry Lane (Monroe Dr Northerly): Barnstead - 313' of 2"	0.00	836.35	0.00	836.35	0.00	9.26	0.00	40.42	0.00	49.68	786.67
60000-000753	Blueberry Lane (Monroe Drive Southerly): Barnstead - 588' of 2"	0.00	1,571.16	0.00	1,571.16	0.00	17.39	0.00	75.95	0.00	93.34	1,477.82
60000-000754	Brenton Street: Barnstead - 427' of 2"	0.00	1,140.96	0.00	1,140.96	0.00	12.62	0.00	55.16	0.00	67.78	1,073.18
60000-000755	Bristol Road: Barnstead - 440' of 2"	0.00	1,175.70	0.00	1,175.70	0.00	13.01	0.00	56.84	0.00	69.85	1,105.85
60000-000756	Brookfield Lane: Barnstead - 637' of 2"	0.00	1,702.09	0.00	1,702.09	0.00	18.83	0.00	82.25	0.00	101.08	1,601.01
60000-000757	Colonial Drive & Emerson Drive (Circle between): Barnstead - 726' of 2"	0.00	1,939.90	0.00	1,939.90	0.00	21.46	0.00	93.76	0.00	115.22	1,824.68

Pennichuck East Utilities
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GAAP

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	Beginning	Additions	Deletions	Ending	Beg. Balance	Depr Exp & AFYD	Sec 179/179A	Oth. Additions	Deletions	End. Balance		
<i>Asset Type: Mains: 4" & Under</i>												
<i>Life Yr Mo: 68 yr 0 mo</i>												
<i>Acquisition Date: Jan-2006 to Dec-2006</i>												
60000-000758	Colonial Drive: Barnstead - 1,224' of 2"	0.00	3,270.58	0.00	3,270.58	0.00	36.18	0.00	158.06	0.00	194.24	3,076.34
60000-000759	Crescent Drive: Barnstead - 1,229' of 2"	0.00	3,283.94	0.00	3,283.94	0.00	36.35	0.00	158.72	0.00	195.07	3,088.87
60000-000760	Dalton Drive (Stratford Drive Northerly): Barnstead - 815' of 2"	0.00	2,177.72	0.00	2,177.72	0.00	24.12	0.00	105.25	0.00	129.37	2,048.35
60000-000761	Dam Site Road: Barnstead - 753' of 2"	0.00	2,012.05	0.00	2,012.05	0.00	22.27	0.00	97.23	0.00	119.50	1,892.55
60000-000762	Deer Run: Barnstead - 476' of 2"	0.00	1,271.89	0.00	1,271.89	0.00	14.06	0.00	61.46	0.00	75.52	1,196.37
60000-000763	Deering Drive: Barnstead - 348' of 2"	0.00	929.87	0.00	929.87	0.00	10.28	0.00	44.94	0.00	55.22	874.65
60000-000764	Dunbarton Drive Westerly (Crosscountry): Barnstead - 778' of 2"	0.00	2,078.85	0.00	2,078.85	0.00	23.01	0.00	100.48	0.00	123.49	1,955.36
60000-000765	Blueberry Lane (Easement West of): Barnstead - 704' of 2"	0.00	1,881.12	0.00	1,881.12	0.00	20.81	0.00	90.93	0.00	111.74	1,769.38
60000-000766	Brookview Drive Northerly Easement (East of Rochester Road): Barnstead - 2,173' of 2"	0.00	5,806.35	0.00	5,806.35	0.00	64.26	0.00	280.63	0.00	344.89	5,461.46
60000-000767	Emerson Drive: Barnstead - 1,888' of 2"	0.00	5,044.82	0.00	5,044.82	0.00	55.82	0.00	243.81	0.00	299.63	4,745.19
60000-000768	Emerson Drive toward Colonial Drive: Barnstead - 173' of 2"	0.00	462.26	0.00	462.26	0.00	5.12	0.00	22.33	0.00	27.45	434.81
60000-000769	Enfield Lane: Barnstead - 519' of 2"	0.00	1,386.79	0.00	1,386.79	0.00	15.34	0.00	67.03	0.00	82.37	1,304.42
60000-000770	Fairfield Run: Barnstead - 344' of 2"	0.00	919.18	0.00	919.18	0.00	10.17	0.00	44.42	0.00	54.59	864.59
60000-000771	Georgetown Drive Northerly between lots 80 & 81: Barnstead - 922' of 2"	0.00	2,463.62	0.00	2,463.62	0.00	27.27	0.00	119.07	0.00	146.34	2,317.28
60000-000772	Glen Drive: Barnstead - 367' of 2"	0.00	980.64	0.00	980.64	0.00	10.85	0.00	47.39	0.00	58.24	922.40
60000-000773	Hampshire Court: Barnstead - 1,081' of 2"	0.00	2,888.48	0.00	2,888.48	0.00	31.96	0.00	139.61	0.00	171.57	2,716.91
60000-000774	Hibbard Drive: Barnstead - 434' of 2"	0.00	1,159.67	0.00	1,159.67	0.00	12.83	0.00	56.04	0.00	68.87	1,090.80
60000-000775	Holly Lane: Barnstead - 280' of 2"	0.00	748.17	0.00	748.17	0.00	8.28	0.00	36.16	0.00	44.44	703.73
60000-000776	Indian Ledge Drive: Barnstead - 188' of 2"	0.00	502.34	0.00	502.34	0.00	5.57	0.00	24.29	0.00	29.86	472.48
60000-000777	Ivy Lane: Barnstead - 271' of 2"	0.00	724.12	0.00	724.12	0.00	8.01	0.00	35.00	0.00	43.01	681.11

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<i>Life Yr Mo: 68 yr 0 mo</i>												
<i>Acquisition Date: Jan-2006 to Dec-2006</i>												
60000-000778	Jackson Lane: Barnstead - 337' of 2"	0.00	900.48	0.00	900.48	0.00	9.96	0.00	43.51	0.00	53.47	847.01
60000-000779	Kent Lane: Barnstead - 626' of 2"	0.00	1,672.70	0.00	1,672.70	0.00	18.52	0.00	80.85	0.00	99.37	1,573.33
60000-000780	Landon Drive: Barnstead - 1,549' of 2"	0.00	4,139.00	0.00	4,139.00	0.00	45.81	0.00	200.06	0.00	245.87	3,893.13
60000-000781	Lincoln Lane: Barnstead - 1,185' of 2"	0.00	3,166.37	0.00	3,166.37	0.00	35.03	0.00	153.02	0.00	188.05	2,978.32
60000-000782	Millsfield Lane: Barnstead - 1,818' of 2"	0.00	4,857.78	0.00	4,857.78	0.00	53.76	0.00	234.78	0.00	288.54	4,569.24
60000-000783	Mont Vernon Drive: Barnstead - 453' of 2"	0.00	1,210.44	0.00	1,210.44	0.00	13.40	0.00	58.49	0.00	71.89	1,138.55
60000-000784	New Castle Drive: Barnstead - 693' of 2"	0.00	1,851.73	0.00	1,851.73	0.00	20.50	0.00	89.50	0.00	110.00	1,741.73
60000-000785	Newport Drive: Barnstead - 1,474' of 2"	0.00	3,938.59	0.00	3,938.59	0.00	43.57	0.00	190.36	0.00	233.93	3,704.66
60000-000786	North Barnstead Road (Dalton Drive East): Barnstead - 774' of 2"	0.00	2,068.16	0.00	2,068.16	0.00	22.87	0.00	99.96	0.00	122.83	1,945.33
60000-000787	North Shore Drive: Barnstead - 1,974' of 2"	0.00	5,274.62	0.00	5,274.62	0.00	58.37	0.00	254.94	0.00	313.31	4,961.31
60000-000788	Nutter Circle & Dow Lane: Barnstead - 953' of 2"	0.00	2,546.46	0.00	2,546.46	0.00	28.17	0.00	123.06	0.00	151.23	2,395.23
60000-000789	Nutter Circle & Peacham Road: Barnstead - 1,545' of 2"	0.00	4,128.31	0.00	4,128.31	0.00	45.69	0.00	199.53	0.00	245.22	3,883.09
60000-000790	Peacham Road: Barnstead - 1,805' of 2"	0.00	4,823.04	0.00	4,823.04	0.00	53.37	0.00	233.10	0.00	286.47	4,536.57
60000-000791	Poplar Circle: Barnstead - 290' of 2"	0.00	774.89	0.00	774.89	0.00	8.58	0.00	37.45	0.00	46.03	728.86
60000-000792	Rangeway Road: Barnstead - 569' of 2"	0.00	1,520.39	0.00	1,520.39	0.00	16.83	0.00	73.50	0.00	90.33	1,430.06
60000-000793	Ripple Road: Barnstead - 584' of 2"	0.00	1,560.47	0.00	1,560.47	0.00	17.28	0.00	75.42	0.00	92.70	1,467.77
60000-000794	Rogers Road: Barnstead - 3,457' of 2"	0.00	9,237.29	0.00	9,237.29	0.00	102.23	0.00	446.46	0.00	548.69	8,688.60
60000-000795	Sampson Drive & Davis Drive - Barnstead - 214' of 2"	0.00	571.82	0.00	571.82	0.00	6.32	0.00	27.65	0.00	33.97	537.85
60000-000796	Sands Terrace - Barnstead - 255' of 2"	0.00	681.37	0.00	681.37	0.00	7.55	0.00	32.93	0.00	40.48	640.89
60000-000797	Section "S" North of North Barnstead Road - Barnstead - 826' of 2"	0.00	2,207.11	0.00	2,207.11	0.00	24.43	0.00	106.68	0.00	131.11	2,076.00

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<i>Asset Type: Mains: 4" & Under</i>												
<i>Life Yr Mo: 68 yr 0 mo</i>												
<i>Acquisition Date: Jan-2006 to Dec-2006</i>												
60000-000798												
	Section "S" Pumphouse to Hibbard Drive - Barnstead - 526' of 2"	0.00	1,405.50	0.00	1,405.50	0.00	15.56	0.00	67.93	0.00	83.49	1,322.01
60000-000799	Shelburn Lane - Barnstead - 778' of 2"	0.00	2,078.85	0.00	2,078.85	0.00	23.01	0.00	100.48	0.00	123.49	1,955.36
60000-000800	Stratford Drive - Barnstead - 498' of 2"	0.00	1,330.68	0.00	1,330.68	0.00	14.73	0.00	64.33	0.00	79.06	1,251.62
60000-000801	Suncook Valley Road - Barnstead - 627' of 2"	0.00	1,675.37	0.00	1,675.37	0.00	18.54	0.00	80.99	0.00	99.53	1,575.84
60000-000802	Washington Court - Barnstead - 456' of 2"	0.00	1,218.45	0.00	1,218.45	0.00	13.50	0.00	58.90	0.00	72.40	1,146.05
60000-000803	Waterville Lane - Barnstead - 517' of 2"	0.00	1,381.45	0.00	1,381.45	0.00	15.30	0.00	66.78	0.00	82.08	1,299.37
60000-000804	Webster Lane - Barnstead - 1,297' of 2"	0.00	3,465.64	0.00	3,465.64	0.00	38.34	0.00	167.51	0.00	205.85	3,259.79
60000-000805	Wentworth Lane - Barnstead - 544' of 2"	0.00	1,453.59	0.00	1,453.59	0.00	16.09	0.00	70.25	0.00	86.34	1,367.25
60000-000806	West Hill Place - Barnstead - 468' of 2"	0.00	1,250.52	0.00	1,250.52	0.00	13.85	0.00	60.44	0.00	74.29	1,176.23
60000-000807	Westchester Park - Barnstead - 532' of 2"	0.00	1,421.53	0.00	1,421.53	0.00	15.73	0.00	68.70	0.00	84.43	1,337.10
60000-000808	Winchester Drive - Barnstead - 1,497' of 2"	0.00	4,000.05	0.00	4,000.05	0.00	44.27	0.00	193.34	0.00	237.61	3,762.44
60000-000809	Windham Lane - Barnstead - 411' of 2"	0.00	1,098.21	0.00	1,098.21	0.00	12.15	0.00	53.09	0.00	65.24	1,032.97
60000-000810	Winsor Drive - Barnstead - 766' of 2"	0.00	2,046.79	0.00	2,046.79	0.00	22.66	0.00	98.91	0.00	121.57	1,925.22
60000-000811	Win-wood Drive - Barnstead - 602' of 2"	0.00	1,608.57	0.00	1,608.57	0.00	17.82	0.00	77.74	0.00	95.56	1,513.01
60000-000812	Win-wood Drive & Barnstead Road - Barnstead - 1,442' of 2"	0.00	3,853.09	0.00	3,853.09	0.00	42.65	0.00	186.23	0.00	228.88	3,624.21
60000-000813	Win-wood Drive & Nutter Circle - Barnstead - 975' of 2"	0.00	2,605.24	0.00	2,605.24	0.00	28.82	0.00	125.93	0.00	154.75	2,450.49
60000-000814	Bradford Circle - Barnstead - 852' of 3"	0.00	2,600.34	0.00	2,600.34	0.00	28.79	0.00	125.68	0.00	154.47	2,445.87
60000-000815	Bradford Lane - Barnstead - 2,638' of 2"	0.00	8,051.30	0.00	8,051.30	0.00	89.10	0.00	389.13	0.00	478.23	7,573.07
60000-000816	Dow Lane & Barnstead Road - Barnstead - 730' of 3"	0.00	2,227.99	0.00	2,227.99	0.00	24.66	0.00	107.69	0.00	132.35	2,095.64
60000-000817	Amherst Drive to Windsor Drive - Barnstead - 853' of 4"	0.00	2,779.32	0.00	2,779.32	0.00	30.77	0.00	134.33	0.00	165.10	2,614.22

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Asset ID	ASSET BALANCES				DEPRECIATION						Net Book Value	
	Beginning	Additions	Deletions	Ending	Beg. Balance	Depr Exp & AFYD	Sec 179/179A	Oth. Additions	Deletions	End. Balance		
<i>Asset Type: Mains: 4" & Under</i>												
<i>Life Yr Mo: 68 yr 0 mo</i>												
<i>Acquisition Date: Jan-2006 to Dec-2006</i>												
60000-000818	Ash Drive - Barnstead - 363' of 4"	0.00	1,182.76	0.00	1,182.76	0.00	13.09	0.00	57.16	0.00	70.25	1,112.51
60000-000819	Basin Lane - Barnstead - 1,287' of 4"	0.00	4,193.42	0.00	4,193.42	0.00	46.41	0.00	202.68	0.00	249.09	3,944.33
60000-000820	Bay Drive - Barnstead - 460' of 4"	0.00	1,498.81	0.00	1,498.81	0.00	16.57	0.00	72.45	0.00	89.02	1,409.79
60000-000821	Belmont Drive - Barnstead - 489' of 4"	0.00	1,593.30	0.00	1,593.30	0.00	17.64	0.00	77.00	0.00	94.64	1,498.66
60000-000822	Brookview Drive - Barnstead - 287' of 4"	0.00	935.13	0.00	935.13	0.00	10.35	0.00	45.19	0.00	55.54	879.59
60000-000823	Dalton Drive (North Barnstead Road to Stratford Drive) - Barnstead - 1,525' of 4"	0.00	4,968.89	0.00	4,968.89	0.00	54.99	0.00	240.17	0.00	295.16	4,673.73
60000-000824	Dam Site Road - Barnstead - 2,760' of 4"	0.00	8,992.87	0.00	8,992.87	0.00	99.53	0.00	434.63	0.00	534.16	8,458.71
60000-000825	Danbury Road - Barnstead - 1,469' of 4"	0.00	4,786.43	0.00	4,786.43	0.00	52.96	0.00	231.35	0.00	284.31	4,502.12
60000-000826	Davis Drive - Barnstead - 601' of 4"	0.00	1,958.23	0.00	1,958.23	0.00	21.68	0.00	94.64	0.00	116.32	1,841.91
60000-000827	Dunbarton Drive - Barnstead - 931' of 4"	0.00	3,033.47	0.00	3,033.47	0.00	33.57	0.00	146.61	0.00	180.18	2,853.29
60000-000828	Dustin Drive - Barnstead - 908' of 4"	0.00	2,958.53	0.00	2,958.53	0.00	32.75	0.00	142.98	0.00	175.73	2,782.80
60000-000829	Georgetown Drive to North Barnstead Road (Easement) - Barnstead - 675' of 4"	0.00	2,199.35	0.00	2,199.35	0.00	24.33	0.00	106.30	0.00	130.63	2,068.72
60000-000830	North Barnstead Road to Airstip Pump House - Barnstead - 666' of 4"	0.00	2,170.02	0.00	2,170.02	0.00	24.02	0.00	104.89	0.00	128.91	2,041.11
60000-000831	Georgetown Drive - Barnstead - 4,644' of 4"	0.00	15,131.50	0.00	15,131.50	0.00	167.44	0.00	731.33	0.00	898.77	14,232.73
60000-000832	Groton Road - Barnstead - 633' of 4"	0.00	2,062.50	0.00	2,062.50	0.00	22.83	0.00	99.68	0.00	122.51	1,939.99
60000-000833	Meredith Lane - Barnstead - 2,443' of 4"	0.00	7,960.00	0.00	7,960.00	0.00	88.09	0.00	384.72	0.00	472.81	7,487.19
60000-000834	Monroe Drive - Barnstead - 384' of 4"	0.00	1,251.18	0.00	1,251.18	0.00	13.86	0.00	60.48	0.00	74.34	1,176.84
60000-000835	North Barnstead Road (Dalton Drive West) - Barnstead - 412' of 4"	0.00	1,342.42	0.00	1,342.42	0.00	14.85	0.00	64.89	0.00	79.74	1,262.68
60000-000836	North Barnstead Road (Georgetowne to Varney) - Barnstead - 1,961' of 4"	0.00	6,389.51	0.00	6,389.51	0.00	70.71	0.00	308.81	0.00	379.52	6,009.99
60000-000837	Barnstead Road North of (Belmont to Georgetown) - Barnstead - 250' of 4"	0.00	814.57	0.00	814.57	0.00	9.00	0.00	39.37	0.00	48.37	766.20

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	Beginning	Additions	Deletions	Ending	Beg. Balance	Depr Exp & AFYD	Sec 179/179A	Oth. Additions	Deletions	End. Balance		
<i>Asset Type: Mains: 6" & Larger</i>												
<i>Life Yr Mo: 68 yr 0 mo</i>												
<i>Acquisition Date: Jan-2006 to Dec-2006</i>												
60000-000845	Colonial Drive - Barnstead - 272' of 6"	0.00	886.25	0.00	886.25	0.00	9.81	0.00	42.84	0.00	52.65	833.60
<i>Subtotal: Jan-2006 to Dec-2006 (1)</i>		0.00	886.25	0.00	886.25	0.00	9.81	0.00	42.84	0.00	52.65	833.60
<i>Acquisition Date: Jan-2009 to Dec-2009</i>												
60000-000718	Locke Lake Section S Interconnection: - 6" Pipe & Mobilization	0.00	55,225.02	0.00	55,225.02	0.00	609.38	0.00	381.30	0.00	990.68	54,234.34
60000-000719	Locke Lake Section S Interconnection: 890' of 6" Pipe, Excavation, Sand Bedding, Trench	0.00	16,178.25	0.00	16,178.25	0.00	178.53	0.00	111.70	0.00	290.23	15,888.02
60000-000720	Locke Lake Section S Interconnection: 6" Mech Joint DI Bends/Couplings/Reducers	0.00	1,450.00	0.00	1,450.00	0.00	16.01	0.00	10.01	0.00	26.02	1,423.98
60000-000726	LOCKE LAKE NW LOOP PIPELINE - 6" Pipe and silt fence	0.00	58,520.25	0.00	58,520.25	0.00	645.74	0.00	404.05	0.00	1,049.79	57,470.46
60000-000728	LOCKE LAKE NW LOOP PIPELINE 90' - 6" Pipe, Excavation, Sand Bedding and Trench Backfill	0.00	552.15	0.00	552.15	0.00	6.10	0.00	3.81	0.00	9.91	542.24
60000-000729	LOCKE LAKE NW LOOP PIPELINE 525' - 6" Pipe Station 14+75 to 20+00, Excavation, Pipe Bends	0.00	3,574.00	0.00	3,574.00	0.00	39.42	0.00	24.68	0.00	64.10	3,509.90
60000-000730	LOCKE LAKE NW LOOP PIPELINE 6" Mechanical Joint DI Bends/Couplings/Reducers	0.00	870.00	0.00	870.00	0.00	9.60	0.00	6.01	0.00	15.61	854.39
<i>Subtotal: Jan-2009 to Dec-2009 (7)</i>		0.00	136,369.67	0.00	136,369.67	0.00	1,504.78	0.00	941.56	0.00	2,446.34	133,923.33
<i>Subtotal: 68 yr 0 mo (8)</i>		0.00	137,255.92	0.00	137,255.92	0.00	1,514.59	0.00	984.40	0.00	2,498.99	134,756.93
<i>Subtotal: Mains: 6" & Larger (8)</i>		0.00	137,255.92	0.00	137,255.92	0.00	1,514.59	0.00	984.40	0.00	2,498.99	134,756.93
<i>Asset Type: Mains: Unknown Size</i>												
<i>Life Yr Mo: 68 yr 0 mo</i>												
<i>Acquisition Date: Jan-2006 to Dec-2006</i>												
60000-000309	Colony Drive: Barnstead - Water Main	0.00	346.16	0.00	346.16	0.00	3.83	0.00	16.73	0.00	20.56	325.60
60000-00238.23	Peacham Road: Barnstead - Well	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60000-00238.24	COLONY DRIVE MAIN	0.00	136,022.50	0.00	136,022.50	0.00	1,505.21	0.00	6,574.12	0.00	8,079.33	127,943.17
<i>Subtotal: Jan-2006 to Dec-2006 (3)</i>		0.00	136,368.66	0.00	136,368.66	0.00	1,509.04	0.00	6,590.85	0.00	8,099.89	128,268.77
<i>Acquisition Date: Jan-2008 to Dec-2008</i>												
60000-000610	DISTRIBUTION MAINS - LOCKE LAKE - MONROE BOOSTER STATION ENGINEERING 2007	0.00	14,539.96	0.00	14,539.96	0.00	160.57	0.00	301.17	0.00	461.74	14,078.22

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	Beginning	Additions	Deletions	Ending	Beg. Balance	Depr Exp & AFYD	Sec 179/179A	Oth. Additions	Deletions	End. Balance	
<i>Asset Type: Mains: Unknown Size</i>											
<i>Life Yr Mo: 68 yr 0 mo</i>											
<i>Subtotal: Jan-2008 to Dec-2008 (1)</i>											
<i>Acquisition Date: Jan-2009 to Dec-2009</i>											
60000-000623		LOCKE LAKE AIRSTRIP SECTION									
	0.00	917.75	0.00	917.75	0.00	10.08	0.00	11.89	0.00	21.97	895.78
60000-000632		DISTRIBUTION MAINS - LOCKE LAKE, MONROE BOOSTER STATION ENGINEERING 2007									
	0.00	3,255.17	0.00	3,255.17	0.00	35.91	0.00	22.48	0.00	58.39	3,196.78
60000-000641		VARNEY RD MAIN REPLACEMENT									
	0.00	8,458.48	0.00	8,458.48	0.00	93.33	0.00	58.40	0.00	151.73	8,306.75
60000-000687		Locke Lake NW Loop Pipeline: Engineering & IS Overhead									
	0.00	443.38	0.00	443.38	0.00	4.86	0.00	5.75	0.00	10.61	432.77
60000-000688		Locke Lake NW Loop Pipeline: Engineering & IS Overhead									
	0.00	380.04	0.00	380.04	0.00	4.16	0.00	4.92	0.00	9.08	370.96
60000-000689		Locke Lake NW Loop Pipeline: Engineering & IS Overhead									
	0.00	253.71	0.00	253.71	0.00	2.79	0.00	3.29	0.00	6.08	247.63
60000-000690		Locke Lake NW Loop Pipeline: 2 Person Survey Crew - Surveyor & CAD Technician									
	0.00	1,725.00	0.00	1,725.00	0.00	18.91	0.00	22.35	0.00	41.26	1,683.74
60000-000691		Locke Lake NW Loop Pipeline: CAD Technician and Survey Crew									
	0.00	4,204.00	0.00	4,204.00	0.00	46.09	0.00	54.48	0.00	100.57	4,103.43
60000-000692.1		Locke Lake NW Loop Pipeline: CAD Technician and Survey Crew									
	0.00	2,078.00	0.00	2,078.00	0.00	22.77	0.00	26.93	0.00	49.70	2,028.30
60000-000692.2		Locke Lake NW Loop Pipeline: CAD Technician and Survey Crew									
	0.00	4,322.00	0.00	4,322.00	0.00	47.43	0.00	56.01	0.00	103.44	4,218.56
60000-000693		Locke Lake NW Loop Pipeline: Traffic Detail for Barnstead Road									
	0.00	287.10	0.00	287.10	0.00	3.15	0.00	3.72	0.00	6.87	280.23
60000-000694		Locke Lake NW Loop Pipeline: CAD Technician and Survey Crew									
	0.00	1,586.25	0.00	1,586.25	0.00	17.40	0.00	20.56	0.00	37.96	1,548.29
60000-000695		Locke Lake NW Loop Pipeline: CAD Technician and Survey Crew									
	0.00	5,297.00	0.00	5,297.00	0.00	58.10	0.00	68.64	0.00	126.74	5,170.26
60000-000696		Locke Lake NW Loop Pipeline: Test Drilling with an ATV Rig									
	0.00	3,340.00	0.00	3,340.00	0.00	36.63	0.00	43.28	0.00	79.91	3,260.09
60000-000697		Locke Lake NW Loop Pipeline: Engineering & IS Overhead									
	0.00	1,942.08	0.00	1,942.08	0.00	21.30	0.00	25.17	0.00	46.47	1,895.61
60000-000698		Locke Lake NW Loop Pipeline: Engineering & IS Overhead									
	0.00	2,582.70	0.00	2,582.70	0.00	28.33	0.00	33.47	0.00	61.80	2,520.90
60000-000699		Locke Lake NW Loop Pipeline: CAD Technician and Surveyor									
	0.00	647.50	0.00	647.50	0.00	7.14	0.00	4.47	0.00	11.61	635.89
60000-000700		Locke Lake NW Loop Pipeline: CAD Technician									
	0.00	522.50	0.00	522.50	0.00	5.76	0.00	3.61	0.00	9.37	513.13
60000-000701		Locke Lake NW Loop Pipeline: Engineering & IS Overhead									
	0.00	3,383.12	0.00	3,383.12	0.00	37.33	0.00	23.36	0.00	60.69	3,322.43

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	Beginning	Additions	Deletions	Ending	Beg. Balance	Depr Exp & AFYD	Sec 179/179A	Oth. Additions	Deletions	End. Balance		
<i>Asset Type: Mains: Unknown Size</i>												
<i>Life Yr Mo: 68 yr 0 mo</i>												
<i>Acquisition Date: Jan-2009 to Dec-2009</i>												
60000-000702	Locke Lake NW Loop Pipeline: CAD Technician and Surveyor	0.00	230.00	0.00	230.00	0.00	2.52	0.00	1.59	0.00	4.11	225.89
60000-000703	Locke Lake NW Loop Pipeline: Mailing to NHDES	0.00	32.42	0.00	32.42	0.00	0.36	0.00	0.22	0.00	0.58	31.84
60000-000704	Locke Lake NW Loop Pipeline: Engineering & IS Overhead	0.00	2,110.46	0.00	2,110.46	0.00	23.29	0.00	14.57	0.00	37.86	2,072.60
60000-000705	Locke Lake NW Loop Pipeline: 15 Copies and CD of Specs	0.00	166.90	0.00	166.90	0.00	1.83	0.00	1.15	0.00	2.98	163.92
60000-000706	Locke Lake NW Loop Pipeline: Mailing to PUC and NHDES	0.00	61.34	0.00	61.34	0.00	0.68	0.00	0.42	0.00	1.10	60.24
60000-000707	Locke Lake NW Loop Pipeline: 10 Covers and Binders for Specs	0.00	119.50	0.00	119.50	0.00	1.32	0.00	0.83	0.00	2.15	117.35
60000-000708	Locke Lake NW Loop Pipeline: Engineering & IS Overhead	0.00	1,442.60	0.00	1,442.60	0.00	15.92	0.00	9.96	0.00	25.88	1,416.72
60000-000709	Locke Lake NW Loop Pipeline: Mailing of Specs to Bidders	0.00	213.96	0.00	213.96	0.00	2.35	0.00	1.48	0.00	3.83	210.13
60000-000710	Locke Lake NW Loop Pipeline: Notification of Bid Process	0.00	632.40	0.00	632.40	0.00	6.98	0.00	4.37	0.00	11.35	621.05
60000-000711	Locke Lake NW Loop Pipeline: Engineering & IS Overhead	0.00	1,064.23	0.00	1,064.23	0.00	11.74	0.00	7.35	0.00	19.09	1,045.14
60000-000712	LOCKE LAKE SECTION S INTERCONNECTION: Survey Crew & CAD Technician	0.00	7,311.37	0.00	7,311.37	0.00	80.67	0.00	50.48	0.00	131.15	7,180.22
60000-000713	LOCKE LAKE SECTION S INTERCONNECTION: Engineering & IS Overhead	0.00	447.07	0.00	447.07	0.00	4.93	0.00	3.09	0.00	8.02	439.05
60000-000714	LOCKE LAKE SECTION S INTERCONNECTION: Test Drilling with ATV Rig	0.00	1,172.40	0.00	1,172.40	0.00	12.95	0.00	8.09	0.00	21.04	1,151.36
60000-000717	Locke Lake Section S Interconnection: Mailing	0.00	31.21	0.00	31.21	0.00	0.36	0.00	0.22	0.00	0.58	30.63
60000-000721	Locke Lake Section S Interconnection: Police Detail	0.00	7,232.56	0.00	7,232.56	0.00	79.81	0.00	49.94	0.00	129.75	7,102.81
60000-000722	Locke Lake Section S Interconnection: Exploring and Locating Main	0.00	6,195.80	0.00	6,195.80	0.00	68.37	0.00	42.78	0.00	111.15	6,084.65
60000-000727	LOCKE LAKE NW LOOP PIPELINE -	0.00	15.00	0.00	15.00	0.00	0.18	0.00	0.10	0.00	0.28	14.72
60000-000731	LOCKE LAKE NW LOOP PIPELINE Detail "C" as shown and described on drawings	0.00	7,360.00	0.00	7,360.00	0.00	81.21	0.00	50.82	0.00	132.03	7,227.97
60000-000732	LOCKE LAKE NW LOOP PIPELINE Detail "D" as shown and described on drawings	0.00	5,850.00	0.00	5,850.00	0.00	64.55	0.00	40.39	0.00	104.94	5,745.06
60000-000733	LOCKE LAKE NW LOOP PIPELINE Traffic Control	0.00	184.88	0.00	184.88	0.00	2.04	0.00	1.28	0.00	3.32	181.56

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	Beginning	Additions	Deletions	Ending	Beg. Balance	Depr Exp & AFYD	Sec 179/179A	Oth. Additions	Deletions	End. Balance	
<i>Asset Type: Mains: Unknown Size</i>											
<i>Life Yr Mo: 68 yr 0 mo</i>											
<i>Acquisition Date: Jan-2009 to Dec-2009</i>											
60000-000734		LOCKE LAKE NW LOOP PIPELINE Cleanup & Haul Brush and Debris from Keens									
	0.00	777.59	0.00	777.59	0.00	8.59	0.00	5.37	0.00	13.96	763.63
60000-000743		Locke Lake Section S Interconnection: Engineering & IS Overhead									
	0.00	1,662.94	0.00	1,662.94	0.00	18.36	0.00	11.48	0.00	29.84	1,633.10
60000-000871		LOCKE LAKE NW LOOP PIPELINE - Engineering Labor									
	0.00	210.64	0.00	210.64	0.00	2.34	0.00	1.45	0.00	3.79	206.85
60000-000907		Locke Lake Airstrip Pressure Valve - Labor, LOH & Truck									
	0.00	22.00	0.00	22.00	0.00	0.24	0.00	0.29	0.00	0.53	21.47
60000-000908		LOCKE LAKE NW LOOP PIPELINE - Engineering Labor									
	0.00	270.85	0.00	270.85	0.00	2.98	0.00	1.87	0.00	4.85	266.00
60000-000909		LOCKE LAKE NW LOOP PIPELINE - Landscaping, Swale & Seed									
	0.00	12,068.91	0.00	12,068.91	0.00	133.18	0.00	83.33	0.00	216.51	11,852.40
60000-000933		Locke Lake: Barnstead - NW Loop Line - Eng Overhead									
	0.00	135.42	0.00	135.42	0.00	1.49	0.00	0.94	0.00	2.43	132.99
<i>Subtotal: Jan-2009 to Dec-2009 (46)</i>	0.00	102,648.23	0.00	102,648.23	0.00	1,130.71	0.00	886.64	0.00	2,017.35	100,630.88
<i>Subtotal: 68 yr 0 mo (50)</i>	0.00	253,556.85	0.00	253,556.85	0.00	2,800.32	0.00	7,778.66	0.00	10,578.98	242,977.87
<i>Subtotal: Mains: Unknown Size (50)</i>	0.00	253,556.85	0.00	253,556.85	0.00	2,800.32	0.00	7,778.66	0.00	10,578.98	242,977.87
Grand Total	0.00	727,507.96	0.00	727,507.96	0.00	7,803.02	0.00	23,480.92	0.00	31,283.94	696,224.02