DW-SRF 2013 Project

Green Project Reserve Calculation
Green Project Reserve Methodology using format from EPA's • June 22, 2009 guidance for GPR business cases

	SRF PR	OJECT ID #	2013-16		
	Date:		25-Jul-13		
2	PWSID #	ŧ	ME0091200		
3	System		Old Town Water District Main Replacement Project Veazie Street in Old Town and Davenport Street in Milford		
4	Project N	lame			
	Location				
		ing Consultant	Sewall	ola rown and bavenport c	on cot in minora
		Main size, age, and type		on unlined installed 1920's	
		d New Water Main size and type	8" Ductile Iron cem		
		n Pipe Length	4,060		
10	Estimate	d Project Cost	\$ 753,176	5	
o Data	a from liti	lities Annual Report to Maine Public Utilities Co	ommission		2011 PUC data
		=	JIIIIII SSIOII	Unito	2011 FUC uata
age	<u>Line</u>	<u>Description</u>		<u>Units</u>	050 700
V-12	15	Total Production Water		gallons per year	352,786
V-12	17	Total Revenue Water		gallons per year	304,004
V-12	19	Total Non-Revenue Water		gallons per year	48,782
V-12	19	Percent Non-Revenue Water			
V-12	22	Utility Usage - treatment		gallons per year	14,000
V-12	23	Utility Usage - hydrant flushing		gallons per year	7,140
V-12	14	Utility Usage - bleeders		gallons per year	1,000
V-12	26	Utility Usage - all other (running customers & blow	r-offs)	gallons per year	3,000
			1-0113)		
V-12	30	Fire Protection		gallons per year	200
V-12	31	Main Breaks		gallons per year	1,000
N-12	35	Flushing Mains		gallons per year	2,800
N-12	36	Total Accounted for Non-Revenue Water		gallons per year	29,140
V-12	37	Total Unaccounted Non-Revenue Water		gallons per year	19,642
		Estimated Water Loss From ALL Breaks, Leak	s, & Bleeders	gallons per year	27,442
		(PUC Accounts total of lines 14, 26,31,35 and % of Water Loss of Total Production Water	·		
		(PUC Lines 14,26,31,35,37 divided by Line 15)			
W-9	9	Total Transmission Mains		feet	8.
W-9	23	Total Distribution Mains		feet	229
		Total Mains in Service		feet	238
				miles	
		Estimated Distribution System Losses:			
		Loss Water per mile of pipe		gallons per mile per year	608
					000,
		Loss Water per foot of pipe per year		gallons per foot per year	
		Loss water per foot of pipe per day		gallons per foot per day	1
		Water loss will vary with age of water main - assu 0 to 25 year old pipe	me Straight line proje 0 % of Total Loss		
		, , ,			60
		26 to 50 year old pipe	10% of Total Loss	0 ' ' '	60,
		51 to 75 year old pipe	30% of Total Loss		182
		over 75 year old pipe	60% of Total Loss	gallons per mile per year	364
				All Loses:	608
		Age of Main to be replaced		years	
		Length of Main to be Replaced		mile	
		CALCULATED WATER LOSS - FOR PROPOSE	D PROJECT	gallons per year	280
N-2	29c	Total PRODUCTION COST of Water		\$/year	\$ 907
V-12	15	Total Production Water		1,000 gallons per year	352
		Production Cost of Water		per 1,000 gallons	\$
		PROJECTED ANNUAL VALUE of WATER LOS	S	per year	\$
		Ι		Annual Savings	\$
		PV Factor (ui	niform series present	worth factor (1%, 75 years):	\$ 52
				Economic life of pipeline:	
				Project Cost	\$ 753
				PV Percent of Project Cost:	
				ESTIMATED % Green	