## **DW-SRF 2011 Project**

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

	on=	O IFOT ID "			
	-	ROJECT ID #	2011-08		
	Date:		10/23/2012		
	PWSID :	<del>‡</del>	ME0090970		
	S System		MEXICO WATER DISTRICT		
4 Proje			Main Replacement Project		
	Location		South Main, Alder, Osgood A.E. Hodsdon 6 inch cast iron unlined		
	-	ring Consultant			
		Main size, age, and type			
	Proposed New Water Main size and type     New Main Pipe Length     Estimated Project Cost		8 inch Ductile Iron Cem	000	
			4,8		
10			\$ 465,12	20	
e: Data	a from Ut	ilities Annual Report to Maine Publi	ic Utilities Commission		2011 data
age	Line	Description		Units	
/-12	15	Total Production Water		gallons per year	69,518,0
/-12	17	Total Revenue Water		gallons per year	53,539,0
/-12	19	Total Non-Revenue Water		gallons per year	15,979,0
V-12	19	Percent Non-Revenue Water		gallons per year	10,070,0
V-12	22	Utility Usage - treatment		gallons per year	2,400,0
V-12 V-12	23	, ,			2,400,0
/-12 /-12		Utility Usage - hydrant flushing		gallons per year	•
	14	Utility Usage - bleeders	tomoro 9 blove -ff-\	gallons per year	4 700 0
/-12	26	Utility Usage - all other (running cus	tomers a blow-ons)	gallons per year	1,780,0
V-12	30	Fire Protection		gallons per year	44,0
V-12	31	Main Breaks		gallons per year	
V-12	35	Flushing Mains		gallons per year	
V-12	36	Total Accounted for Non-Revenue V		gallons per year	4,224,0
V-12	37	Total Unaccounted Non-Revenue W	/ater	gallons per year	11,755,0
		Estimated Water Loss From ALL (PUC Accounts total of lines 14,		gallons per year	13,535,0
		% of Water Loss of Total Product (PUC Lines 14,26,31,35,37 divide	ion Water		1
W-9	9	Total Transmission Mains	a by Line 10)	feet	4,5
N-9	23	Total Distribution Mains		feet	95,3
W-9	23			=	
		Total Mains in Service		feet	99,8
		Followed at Distribution Control Land		miles	
		Estimated Distribution System Loss	<u>es:</u>		745
		Loss Water per mile of pipe		gallons per mile per year	715,6
		Loss Water per foot of pipe per year	r	gallons per foot per year	1
		Loss water per foot of pipe per day		gallons per foot per day	0
		Water loss will vary with age of water	er main - assume Straight lin	ne projection as follows:	
		0 to 25 year old pipe	0 % of Total Loss	gallons per mile per year	
		26 to 50 year old pipe	10% of Total Loss	gallons per mile per year	71,5
		51 to 75 year old pipe	30% of Total Loss	gallons per mile per year	214,6
		over 75 year old pipe	60% of Total Loss	gallons per mile per year	429,3
		ονοι το year σια μιμ <del>ο</del>	0070 OF TOTAL LUSS		
				All Loses:	715,6
		Age of Main to be replaced		years	
		Length of Main to be Replaced		mile	(
		CALCULATED WATER LOSS - FO	B BBUBUSED BBU IEUT	gallons per year	390,3
		CALCULATED WATER 1035 - FU	N I NOFOGLD FROJECI	ganons per year	390,
V-2	29c	Total PRODUCTION COST of Water	er	\$/year	\$ 349,7
/-12	15	Total Production Water	<del></del>	1,000 gallons per year	69,5
VV 12	10	Production Cost of Water			\$ 5
		1 roughlon door of trater		per 1,000 ganerio	•
		PROJECTED ANNUAL VALUE of V	WATER LOSS	per year	\$ 1,9
					_
				Annual Savings	
				ent worth factor (1%, 75 years):	
		P	resent Value of Savings ov	ver Economic life of pipeline:	\$ 103,
				Project Cost	\$ 465, <sup>-</sup>
				PV Percent of Project Cost:	
				i v reident of Floject Cost:	2
				ESTIMATED % Green	
				\$ Amount Green	