

ALTERNATIVE ANALYSIS; 30 YEARS, 1.875%

Dollar Bay - Full Scope						\$/mo./Work Item
No.	DISTRIBUTION	Qty	Unit	U/Cost	Total	
1	Replace Watermain	4500	LF	450	\$2,025,000	\$6.99
2	Replace Lead Service Lines - Dollar Bay	110	LF	12000	\$1,320,000	\$4.56
4	Miscellaneous Hydrant Replacements	5	EA	12000	\$60,000	\$0.21
5	Misc. Watermain Valve Replacements	5	EA	10000	\$50,000	\$0.17
8	WM to Sandy Bottom - DB Channel	500	FT	500	\$250,000	\$0.86
9	WM to Sandy Bottom - Hydrant	1	EA	12000	\$12,000	\$0.04
10	Replace Water Meters	330	EA	500	\$165,000	\$0.57
Total Distribution					\$3,882,000	
No.	WATER SOURCE	Qty	Unit	U/Cost	Total	\$/mo./Work Item
11	Replace Well Pumps	1.333	EA	75000	\$99,975	
12	Well House Improvements	0.667	LS	50000	\$33,350	\$0.12
13	Storage Tank Improvements	0.667	LS	30000	\$20,010	\$0.07
Total Source/ Storage					\$153,335	
Construction Total					4,035,335	
Contingency, Bonding, Legal, Constr. Obs/Admin., Design					\$990,877	
Total					\$5,026,212	
Assume 75% EGLE SRF Grant						
Assume 25% EGLE SRF Bond					\$1,256,553	
Debt Service (1.875%, 30 years)					\$55,145	#####
Total Debt Service					\$55,145	
Customers					330	
Additional Base Rate/Month					\$13.93	
Current Base Rate/ Mo.					\$36.50	
New Total Base Rate/ mo.					\$50.43	
Water Usage:					Included	
Ave. Residential Rate/ Mo.*					\$50.43	
						<i>*for use of 4,000 gallons</i>

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Dollar Bay - Reduced Scope 1						\$/mo./Work Item
No.	DISTRIBUTION	Qty	Unit	U/Cost	Total	
1	Replace Watermain	1000	LF	450	\$450,000	\$1.55
2	Replace Lead Service Lines - Dollar Bay	110	LF	12000	\$1,320,000	\$4.56
4	Miscellaneous Hydrant Replacements		EA			\$0.00
5	Misc. Watermain Valve Replacements		EA			\$0.00
8	WM to Sandy Bottom - DB Channel	500	FT	500	\$250,000	\$0.86
9	WM to Sandy Bottom - Hydrant	1	EA	12000	\$12,000	\$0.04
10	Replace Water Meters		EA			\$0.00
Total Distribution					\$2,032,000	
No.	WATER SOURCE	Qty	Unit	U/Cost	Total	\$/mo./Work Item
11	Replace Well Pumps	1.333	EA	75000	\$99,975	
12	Well House Improvements	0.667	LS	50000	\$33,350	\$0.12
13	Storage Tank Improvements		LS			\$0.00
Total Source/ Storage					\$133,325	
Construction Total					2,165,325	
Contingency, Bonding, Legal, Constr. Obs/Admin., Design					\$531,696	
Total					\$2,697,021	
Assume 75% EGLE SRF Grant						
Assume 25% EGLE SRF Bond					\$674,255	
Debt Service (1.875%, 30 years)					\$29,590	#####
Total Debt Service					\$29,590	
Customers					330	
Additional Base Rate/Month					\$7.47	
Current Base Rate/ Mo.					\$36.50	
New Total Base Rate/ mo.					\$43.97	
Water Usage:					Included	
Ave. Residential Rate/ Mo.*					\$43.97	
						<i>*for use of 4,000 gallons</i>

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Dollar Bay - Reduced Scope 2						\$/mo./Work Item
No.	DISTRIBUTION	Qty	Unit	U/Cost	Total	
1	Replace Watermain	1000	LF	450	\$450,000	\$1.55
2	Replace Lead Service Lines - Dollar Bay	110	LF	12000	\$1,320,000	\$4.56
4	Miscellaneous Hydrant Replacements		EA			\$0.00
5	Misc. Watermain Valve Replacements		EA			\$0.00
8	WM to Sandy Bottom - DB Channel		FT			\$0.00
9	WM to Sandy Bottom - Hydrant		EA			\$0.00
10	Replace Water Meters		EA			\$0.00
Total Distribution					\$1,770,000	
No.	WATER SOURCE	Qty	Unit	U/Cost	Total	\$/mo./Work Item
11	Replace Well Pumps	2	EA	75000	\$150,000	
12	Well House Improvements	1	LS	50000	\$50,000	\$0.17
13	Storage Tank Improvements		LS			\$0.00
Total Source/ Storage					\$200,000	
Construction Total					1,970,000	
Contingency, Bonding, Legal, Constr. Obs/Admin., Design					\$483,734	
Total					\$2,453,734	
Assume 75% EGLE SRF Grant						
Assume 25% EGLE SRF Bond					\$613,433	
Debt Service (1.875%, 30 years)					\$26,921	#####
Total Debt Service					\$26,921	
Customers					330	
Additional Base Rate/Month					\$6.80	
Current Base Rate/ Mo.					\$36.50	
New Total Base Rate/ mo.					\$43.30	
Water Usage:					Included	
Ave. Residential Rate/ Mo.*					\$43.30	
						<i>*for use of 4,000 gallons</i>

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Dollar Bay - Lead Service Lines Only						\$/mo./Work Item
No.	DISTRIBUTION	Qty	Unit	U/Cost	Total	
1	Replace Watermain		LF			\$0.00
2	Replace Lead Service Lines - Dollar Bay	110	LF	12000	\$1,320,000	\$4.56
4	Miscellaneous Hydrant Replacements		EA			\$0.00
5	Misc. Watermain Valve Replacements		EA			\$0.00
8	WM to Sandy Bottom - DB Channel		FT			\$0.00
9	WM to Sandy Bottom - Hydrant		EA			\$0.00
10	Replace Water Meters		EA			\$0.00
Total Distribution					\$1,320,000	
No.	WATER SOURCE	Qty	Unit	U/Cost	Total	\$/mo./Work Item
11	Replace Well Pumps		EA			
12	Well House Improvements		LS			\$0.00
13	Storage Tank Improvements		LS			\$0.00
Total Source/ Storage					\$0	
Construction Total					1,320,000	
Contingency, Bonding, Legal, Constr. Obs/Admin., Design					\$324,126	
Total					\$1,644,126	
Assume 75% EGLE SRF Grant						
Assume 25% EGLE SRF Bond					\$411,032	
Debt Service (1.875%, 30 years)					\$18,039	#####
Total Debt Service					\$18,039	
Customers					330	
Additional Base Rate/Month					\$4.56	
Current Base Rate/ Mo.					\$36.50	
New Total Base Rate/ mo.					\$41.06	
Water Usage:					Included	
Ave. Residential Rate/ Mo.*					\$41.06	
						<i>*for use of 4,000 gallons</i>

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Tamarack City - Full Scope						\$/mo./Work Item
No.	DISTRIBUTION	Qty	Unit	U/Cost	Total	
3	Replace Lead Service Lines - TC (on private)	35	EA	8000	\$280,000	\$1.88
Total Distribution					\$280,000	
No.	WATER SOURCE	Qty	Unit	U/Cost	Total	\$/mo./Work Item
6	Extend Watermain Mason to Tamarack City	8000	LF	300	\$2,400,000	
7	Booster Pump Station, Mason to Tamarack City	1	LS	200000	\$200,000	\$1.34
11	Replace Well Pumps	0.667	EA	75000	\$50,025	\$0.34
12	Well House Improvements	0.333	LS	50000	\$16,650	\$0.11
13	Storage Tank Improvements	0.333	LS	30000	\$9,990	\$0.07
14	UMWC Contract Clause	1	LS	71500	\$71,500	\$0.48
Total Source/ Storage					\$2,748,165	
Construction Total					3,028,165	
Contingency, Bonding, Legal, Constr. Obs/Admin., Design					\$743,566	
Capitalized Interest					\$17,680	
Total					\$3,789,411	
Assume 75% EGLE SRF Grant						
Assume 25% EGLE SRF Bond					\$960,613	
Debt Service (1.875%, 30 years)					\$43,245	\$41.382
MDOT RR Fee					\$500	\$0.25
Total Debt Service					\$43,745	
Customers					170	
Additional Base Rate/Month					\$21.44	
Current Base Rate/ Mo.					\$37.00	
New Total Base Rate/ mo.					\$58.44	
Water Usage:					\$4.50	
Ave. Residential Rate/ Mo.*					\$62.94	
						<i>*for use of 3,000 gallons</i>

Total: \$8,815,622

ALTERNATIVE ANALYSIS; 30 YEARS, 1.875%

Tamarack City - Reduced Scope 2						\$/mo./Work Item
No.	DISTRIBUTION	Qty	Unit	U/Cost	Total	
3	Replace Lead Service Lines - TC (on private)	35	EA	8000	\$280,000	\$1.88
Total Distribution					\$280,000	
No.	WATER SOURCE	Qty	Unit	U/Cost	Total	\$/mo./Work Item
6	Extend Watermain Mason to Tamarack City	8000	LF	300	\$2,400,000	
7	Booster Pump Station, Mason to Tamarack City	1	LS	200000	\$200,000	\$1.34
11	Replace Well Pumps	0.667	EA	75000	\$50,025	\$0.34
12	Well House Improvements	0.333	LS	50000	\$16,650	\$0.11
13	Storage Tank Improvements		LS			\$0.00
14	UMWC Contract Clause	1	LS	71500	\$71,500	\$0.48
Total Source/ Storage					\$2,738,175	
Construction Total					3,018,175	
Contingency, Bonding, Legal, Constr. Obs/Admin., Design					\$741,113	
Capitalized Interest					\$17,622	
Total					\$3,776,910	
Assume 75% EGLE SRF Grant						
Assume 25% EGLE SRF Bond					\$957,444	
Debt Service (1.875%, 30 years)					\$43,102	\$0.25
MDOT RR Fee					\$500	\$0.25
Total Debt Service					\$43,602	
Customers					170	
Additional Base Rate/Month					\$21.37	
Current Base Rate/ Mo.					\$37.00	
New Total Base Rate/ mo.					\$58.37	
Water Usage:					\$4.50	
Ave. Residential Rate/ Mo.*					\$62.87	
						<i>*for use of 3,000 gallons</i>

Total: \$6,473,930

ALTERNATIVE ANALYSIS; 30 YEARS, 1.875%

Tamarack City - Reduced Scope 3						\$/mo./Work Item
No.	DISTRIBUTION	Qty	Unit	U/Cost	Total	
3	Replace Lead Service Lines - TC (on private)	35	EA	8000	\$280,000	\$1.88
Total Distribution					\$280,000	
No.	WATER SOURCE	Qty	Unit	U/Cost	Total	\$/mo./Work Item
6	Extend Watermain Mason to Tamarack City		LF			
7	Booster Pump Station, Mason to Tamarack City		LS			\$0.00
11	Replace Well Pumps		EA			\$0.00
12	Well House Improvements		LS			\$0.00
13	Storage Tank Improvements		LS			\$0.00
14	UMWC Contract Clause		LS			\$0.00
Total Source/ Storage					\$0	
Construction Total					280,000	
Contingency, Bonding, Legal, Constr. Obs/Admin., Design					\$68,754	
Capitalized Interest					\$1,635	
Total					\$350,389	
Assume 75% EGLE SRF Grant						
Assume 25% EGLE SRF Bond					\$88,823	
Debt Service (1.875%, 30 years)					\$3,999	
Total Debt Service					\$3,999	
Customers					170	
Additional Base Rate/Month					\$1.96	
Current Base Rate/ Mo.					\$37.00	
New Total Base Rate/ mo.					\$38.96	
Water Usage:					\$24.90	
Ave. Residential Rate/ Mo.*					\$63.86	
						<i>*for use of 3,000 gallons</i>

Total: \$2,804,122

ALTERNATIVE ANALYSIS; 30 YEARS, 1.875%

Tamarack City - Lead Service Lines Only (75 ea)						\$/mo./Work Item
No.	DISTRIBUTION	Qty	Unit	U/Cost	Total	
3	Replace Lead Service Lines - TC (on private)	35	EA	8000	\$280,000	\$1.88
Total Distribution					\$280,000	
No.	WATER SOURCE	Qty	Unit	U/Cost	Total	\$/mo./Work Item
6	Extend Watermain Mason to Tamarack City		LF			
7	Booster Pump Station, Mason to Tamarack City		LS			\$0.00
11	Replace Well Pumps		EA			\$0.00
12	Well House Improvements		LS			\$0.00
13	Storage Tank Improvements		LS			\$0.00
14	UMWC Contract Clause		LS			\$0.00
Total Source/ Storage					\$0	
Construction Total					280,000	
Contingency, Bonding, Legal, Constr. Obs/Admin., Design					\$68,754	
Capitalized Interest					\$1,635	
Total					\$350,389	
Assume 75% EGLE SRF Grant						
Assume 25% EGLE SRF Bond					\$88,823	
Debt Service (1.875%, 30 years)					\$3,999	
Total Debt Service					\$3,999	
Customers					170	
Additional Base Rate/Month					\$1.96	
Current Base Rate/ Mo.					\$37.00	
New Total Base Rate/ mo.					\$38.96	
Water Usage:					\$24.90	
Ave. Residential Rate/ Mo.*					\$63.86	
						<i>*for use of 3,000 gallons</i>

Total: \$1,994,515