

City of Marine City 303 S. Water St. Marine City, MI 48039

Long Term Capital Equipment Replacement/Improvement Plan

COPPORATED IN															
ltem	Comments	2017 Replacement Cost In Service Year	Useful Life Yrs	Duty Load	CURRENT YR 2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	et Year(s) 2022-23	5 Years 2024-28	5 Years 2029-33	5 Years 2034-38	5 Years 2039-43
		Estimated Inflati	<mark>on Rate</mark>	(Per/Yr):	0.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
	Sand/Gravel/Media		5				\$10,000					\$10,000			
Filter #1	Replacement Every 5 Years		J				\$10,000					\$10,000			
	Sand/Gravel/Media		5					\$10,000					\$10,000		
Filter #2	Replacement Every 5 Years		ſ					\$10,000					\$10,000		
	Sand/Gravel/Media		5						\$10,000					\$10,000	
Filter #3	Replacement Every 5 Years		ſ						\$10,000					\$10,000	
Aluminum Chemical Feed		1995	10					\$4,000				\$4,000			
Pump# 1		1995	10					\$4,000				\$4,000			
Aluminum Chemical Feed		1995	10						\$4,000						
Pump #2		1555	10						\$4,000						
Bleach Pump # 1		2016	2					\$600		\$600					
Bleach Pump # 2		2016	2						\$600		\$600				
Basement Sump Pumps	QTY = 2	2016	3						\$700						
Low Lift Pumps & Motors	QTY = 3	2007	15									\$65 <i>,</i> 000			
V.F.D. Drives for 2 Low Lift	QTY = 2	2007	12					\$4,000	\$4,000						
Pumps		2007	12					Ş 4 ,000	Ş 4 ,000						
High Service Pumps & Motors	QTY = 3 motors have been replaced; pumps have not	2007	20										\$75,000		
Sludge Motors	QTY=2	1997	25							\$15,000					
Flocculaters Mixers and Motor #1		2007	20										\$23,000		
Flocculaters Mixers and Motor #2												\$23,000			
Chlorine in-line															
Meters/Sedimentary		2017	7			\$2,500		\$5 <i>,</i> 000				\$5,000			
Basin/Final Tap Water #1															
Chlorine in-line															
Meters/Sedimentary		2012	7						\$5,000						
Basin/Final Tap Water #2															
Filter Meter #1		2007	10					\$5,000							
Filter Meter #2		2007	10						\$5,000						
Filter Meter #3		2007	10							\$5,000					
P.H./Flouride/Meter		2017	5			\$1,900			\$1,900						
Lab Turbidity Meter		2017	5			\$1,600									
Final Tap & Distribution Flow		2017	<i>c</i>		ć4.000										
Meter		2017	6		\$4,000										
Aluminum Sulfate & Chlorine	\$500/each	¢1.000												62.000	
Storage Tanks		\$1,000												\$2,000	
Setteling Basin Lining	Never Replaced							\$70,000							
Incubator (Lab)		2014	10								\$3,000				
Water Bath (Lab)		2015	5						\$1,500						
Auto Clave (Lab Equipment)		2012	10								\$6,000				

Duty Load: 1-Used Rarely or Emergency Only 2-Light Use 3-Moderate Use 4-Daily Use 5-Extreme Use or 24/7 Use

Department: Water Plant



City of Marine City 303 S. Water St. Marine City, MI 48039

Long Term Capital Equipment Replacement/Improvement Plan

CHAORATED THE							Budget Year(s)										
Item	Comments	2017 Replacement Cost Estin	In Service Year nated Inflatio			CURRENT YR 2016-17 0.0%	2017-18	2018-19 2.0%	2019-20 2.0%	2020-21 2.0%	2021-22 2.0%	2022-23 2.0%	5 Years 2024-28 2.0%	5 Years 2029-33 2.0%	5 Years 2034-38 2.0%	5 Years 2039-43 2.0%	
Misc. Piping & Small Valve Replacement	Never Replaced	\$50,000				0.070	,	20,000	,	\$60,000					,		
Electric Repairs Cleanup									\$3,000								
Roof			2012	20											\$60,000		
Exterior Building Maintenance	Never Replaced																
Alarm System	Out-Dated		1994							\$6,000							
Departmental Server-City Offices	PD Server-Total Cost is \$27,000. Split with Police/Buildings & Grounds/ Water & Sewer								\$4,500								
Plant Computers	QTY = 3; \$1,000/each		2015	5						\$3,000							
Scada Program	Out-Dated		1997						\$15,000								
	Present Value:					4,000	6,000	\$30,000	121,100	101,700	20,600	9,600	\$107,000	108,000	72,000	-	
	Total Cost:				\$ 4,000	\$ 6,000	\$ 30,000	\$ 121,100	\$ 101,700	\$ 20,600	\$ 9,600	\$ 107,000	\$ 108,000	\$ 72,000	\$ -		

Department: Water Plant