

Master Plan CIP Fiscal Scenarios - Conventional Activated Sludge (CAS) Split Flow																			FINAL
Total Program Costs (Escalated)																			5/16/2016
CIP Phase	Project Title (Descriptive)	Scenario 1 - Total CIP (Includes all potential projects)									Scenario 2				Scenario 3				Comments
		% of Project Includ.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phases 1 - 3	Phases 4 - 5	Total (Ph. 1 - 5)	% of Project Includ.	Phases 1 - 3	Phases 4 - 5	Total (Ph. 1 - 5)	% of Project Includ.	Phases 1 - 3	Phases 4 - 5	Total (Ph. 1 - 5)	
	PRIMARY TREATMENT																		
1	Primary Treatment Facility	100%	\$ 133,100,000	\$ -	\$ -	\$ -	\$ -	\$ 133,100,000	\$ -	\$ 133,100,000	100%	\$ 133,100,000	\$ -	\$ 133,100,000	100%	\$ 133,100,000	\$ -	\$ 133,100,000	
1	Rehabilitation Primary Effluent Pipeline from Central Plant to Ponds	100%	\$ 2,800,000	\$ -	\$ -	\$ -	\$ -	\$ 2,800,000	\$ -	\$ 2,800,000	100%	\$ 2,800,000	\$ -	\$ 2,800,000	100%	\$ 2,800,000	\$ -	\$ 2,800,000	
1	Rehabilitation Influent Pipelines to WPCP	100%	\$ 1,500,000	\$ -	\$ -	\$ -	\$ -	\$ 1,500,000	\$ -	\$ 1,500,000	100%	\$ 1,500,000	\$ -	\$ 1,500,000	100%	\$ 1,500,000	\$ -	\$ 1,500,000	
	SECONDARY TREATMENT																		
1	Existing Plant Rehabilitation - Split Flow	100%	\$ 43,300,000	\$ -	\$ -	\$ -	\$ -	\$ 43,300,000	\$ -	\$ 43,300,000	100%	\$ 43,300,000	\$ -	\$ 43,300,000	100%	\$ 43,300,000	\$ -	\$ 43,300,000	
2	Secondary Treatment Improvements - Split Flow Stage 1	100%	\$ -	\$ 125,200,000	\$ -	\$ -	\$ -	\$ 125,200,000	\$ -	\$ 125,200,000	100%	\$ 125,200,000	\$ -	\$ 125,200,000	100%	\$ 125,200,000	\$ -	\$ 125,200,000	
4	Secondary Treatment Improvements - Split Flow Stage 2	100%	\$ -	\$ -	\$ -	\$ 86,600,000	\$ -	\$ -	\$ 86,600,000	\$ 86,600,000	100%	\$ -	\$ 86,600,000	\$ 86,600,000	70%	\$ -	\$ 60,600,000	\$ 60,600,000	Scenario 3 based on building 1 a. basin and 2 sec. clarifiers (instead of 2 a. basins and 3 sec. clarifiers) due to flows and loads.
4	Primary Effluent Diurnal Equalization and Emergency Storage	100%	\$ -	\$ -	\$ -	\$ 135,600,000	\$ -	\$ -	\$ 135,600,000	\$ 135,600,000	100%	\$ -	\$ 135,600,000	\$ 135,600,000	94%	\$ -	\$ 126,800,000	\$ 126,800,000	Scenario 3 based on building 1 day of emergency storage instead of 3.
4	Active Retirement of Ponds	100%	\$ -	\$ -	\$ -	\$ 10,600,000	\$ -	\$ -	\$ 10,600,000	\$ 10,600,000	100%	\$ -	\$ 10,600,000	\$ 10,600,000	0%	\$ -	\$ -	\$ -	
2	AFT Pump Station and Pipeline	100%	\$ -	\$ 7,200,000	\$ -	\$ -	\$ -	\$ 7,200,000	\$ -	\$ 7,200,000	100%	\$ 7,200,000	\$ -	\$ 7,200,000	100%	\$ 7,200,000	\$ -	\$ 7,200,000	Potential reduction in Phase 1 - 3 Program.
5	Chemical Dosing (P-Removal)	100%	\$ -	\$ -	\$ -	\$ -	\$ 2,200,000	\$ -	\$ 2,200,000	\$ 2,200,000	0%	\$ -	\$ -	\$ -	0%	\$ -	\$ -	\$ -	
	TERTIARY TREATMENT																		
3	Filter Control Building (Includes Demolition of Existing)	100%	\$ -	\$ -	\$ 5,900,000	\$ -	\$ -	\$ 5,900,000	\$ -	\$ 5,900,000	100%	\$ 5,900,000	\$ -	\$ 5,900,000	100%	\$ 5,900,000	\$ -	\$ 5,900,000	
4	Filter Backwash Storage	100%	\$ -	\$ -	\$ -	\$ 11,800,000	\$ -	\$ -	\$ 11,800,000	\$ 11,800,000	100%	\$ -	\$ 11,800,000	\$ 11,800,000	100%	\$ -	\$ 11,800,000	\$ 11,800,000	
5	Denitrification Filters	100%	\$ -	\$ -	\$ -	\$ -	\$ 63,600,000	\$ -	\$ 63,600,000	\$ 63,600,000	0%	\$ -	\$ -	\$ -	0%	\$ -	\$ -	\$ -	
3	Chloramine Disinfection	100%	\$ -	\$ -	\$ 3,500,000	\$ -	\$ -	\$ 3,500,000	\$ -	\$ 3,500,000	100%	\$ 3,500,000	\$ -	\$ 3,500,000	100%	\$ 3,500,000	\$ -	\$ 3,500,000	
5	UV Disinfection	100%	\$ -	\$ -	\$ -	\$ 20,800,000	\$ -	\$ 20,800,000	\$ 20,800,000	\$ 20,800,000	100%	\$ -	\$ 20,800,000	\$ 20,800,000	100%	\$ -	\$ 20,800,000	\$ 20,800,000	
5	Ozone Disinfection	100%	\$ -	\$ -	\$ -	\$ -	\$ 45,800,000	\$ -	\$ 45,800,000	\$ 45,800,000	0%	\$ -	\$ -	\$ -	0%	\$ -	\$ -	\$ -	
5	Membrane Filtration (MF) Improvements	100%	\$ -	\$ -	\$ -	\$ -	\$ 35,200,000	\$ -	\$ 35,200,000	\$ 35,200,000	0%	\$ -	\$ -	\$ -	0%	\$ -	\$ -	\$ -	
	SOLIDS FACILITIES																		
2	Digester Supernatant PS and Drainage Piping Upgrades	100%	\$ -	\$ 1,400,000	\$ -	\$ -	\$ -	\$ 1,400,000	\$ -	\$ 1,400,000	100%	\$ 1,400,000	\$ -	\$ 1,400,000	100%	\$ 1,400,000	\$ -	\$ 1,400,000	
2	Thickening and Dewatering Facility - Stage 1	100%	\$ -	\$ 52,100,000	\$ -	\$ -	\$ -	\$ 52,100,000	\$ -	\$ 52,100,000	100%	\$ 52,100,000	\$ -	\$ 52,100,000	100%	\$ 52,100,000	\$ -	\$ 52,100,000	
4	Thickening and Dewatering Facility - Stage 2	100%	\$ -	\$ -	\$ -	\$ 14,300,000	\$ -	\$ -	\$ 14,300,000	\$ 14,300,000	100%	\$ -	\$ 14,300,000	\$ 14,300,000	100%	\$ -	\$ 14,300,000	\$ 14,300,000	
3	Digester No. 5	100%	\$ -	\$ -	\$ 10,900,000	\$ -	\$ -	\$ 10,900,000	\$ -	\$ 10,900,000	100%	\$ 10,900,000	\$ -	\$ 10,900,000	100%	\$ 10,900,000	\$ -	\$ 10,900,000	
3	FOG/Food Waste Facility	100%	\$ -	\$ -	\$ 2,100,000	\$ -	\$ -	\$ 2,100,000	\$ -	\$ 2,100,000	100%	\$ 2,100,000	\$ -	\$ 2,100,000	100%	\$ 2,100,000	\$ -	\$ 2,100,000	Potential reduction in Phase 1 - 3 Program.
4	Phosphorus Recovery Facility	100%	\$ -	\$ -	\$ -	\$ 10,900,000	\$ -	\$ -	\$ 10,900,000	\$ 10,900,000	0%	\$ -	\$ -	\$ -	0%	\$ -	\$ -	\$ -	
4	Biosolids Post-Processing	100%	\$ -	\$ -	\$ -	\$ 32,200,000	\$ -	\$ -	\$ 32,200,000	\$ 32,200,000	100%	\$ -	\$ 32,200,000	\$ 32,200,000	0%	\$ -	\$ -	\$ -	
	COMBINED HEAT AND POWER																		
3	Cogeneration Upgrade	100%	\$ -	\$ -	\$ 21,200,000	\$ -	\$ -	\$ 21,200,000	\$ -	\$ 21,200,000	100%	\$ 21,200,000	\$ -	\$ 21,200,000	100%	\$ 21,200,000	\$ -	\$ 21,200,000	
	SUPPORT FACILITIES																		
1	New Access to Bay Trails	100%	\$ 600,000	\$ -	\$ -	\$ -	\$ -	\$ 600,000	\$ -	\$ 600,000	100%	\$ 600,000	\$ -	\$ 600,000	100%	\$ 600,000	\$ -	\$ 600,000	
1	Household Hazardous Waste Demolition/ Solid Waste Removal	100%	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000	\$ -	\$ 500,000	100%	\$ 500,000	\$ -	\$ 500,000	100%	\$ 500,000	\$ -	\$ 500,000	
2	Administration and Lab Building	100%	\$ -	\$ 26,300,000	\$ -	\$ -	\$ -	\$ 26,300,000	\$ -	\$ 26,300,000	100%	\$ 26,300,000	\$ -	\$ 26,300,000	100%	\$ 26,300,000	\$ -	\$ 26,300,000	
2	Maintenance Building	100%	\$ -	\$ 7,400,000	\$ -	\$ -	\$ -	\$ 7,400,000	\$ -	\$ 7,400,000	100%	\$ 7,400,000	\$ -	\$ 7,400,000	100%	\$ 7,400,000	\$ -	\$ 7,400,000	
	SUPPORT UTILITIES																		
2	Recycle Water Improvements (New Recycled Water PS)	100%	\$ -	\$ 4,200,000	\$ -	\$ -	\$ -	\$ 4,200,000	\$ -	\$ 4,200,000	100%	\$ 4,200,000	\$ -	\$ 4,200,000	100%	\$ 4,200,000	\$ -	\$ 4,200,000	
2	Community Improvements	100%	\$ -	\$ 700,000	\$ -	\$ -	\$ -	\$ 700,000	\$ -	\$ 700,000	100%	\$ 700,000	\$ -	\$ 700,000	100%	\$ 700,000	\$ -	\$ 700,000	
2	Landfill Gas Flare and Booster System Upgrades	100%	\$ -	\$ 400,000	\$ -	\$ -	\$ -	\$ 400,000	\$ -	\$ 400,000	100%	\$ 400,000	\$ -	\$ 400,000	100%	\$ 400,000	\$ -	\$ 400,000	
2	Miscellaneous Civil Site/Support Utility Improvements	100%	\$ -	\$ 700,000	\$ -	\$ -	\$ -	\$ 700,000	\$ -	\$ 700,000	100%	\$ 700,000	\$ -	\$ 700,000	100%	\$ 700,000	\$ -	\$ 700,000	
	DEMOLITION																		
4	Demolition Fixed Growth Reactor (FGR) Pump Station	100%	\$ -	\$ -	\$ -	\$ 2,600,000	\$ -	\$ -	\$ 2,600,000	\$ 2,600,000	100%	\$ -	\$ 2,600,000	\$ 2,600,000	100%	\$ -	\$ 2,600,000	\$ 2,600,000	
5	Demolition Fixed Growth Reactors (FGRs)	100%	\$ -	\$ -	\$ -	\$ -	\$ 6,800,000	\$ -	\$ 6,800,000	\$ 6,800,000	100%	\$ -	\$ 6,800,000	\$ 6,800,000	100%	\$ -	\$ 6,800,000	\$ 6,800,000	
	OPERATIONS AND MAINTENANCE																		
	Capital Replacement (1% of All New Construction)	100%	\$ 1,360,000	\$ 1,180,000	\$ 1,960,000	\$ 2,600,000	\$ 3,450,000	\$ 4,500,000	\$ 6,050,000	\$ 10,550,000	100%	\$ 4,500,000	\$ 6,050,000	\$ 10,550,000	100%	\$ 4,500,000	\$ 6,050,000	\$ 10,550,000	
	Total		\$ 183,160,000	\$ 226,780,000	\$ 45,560,000	\$ 307,200,000	\$ 177,850,000	\$ 455,500,000	\$ 485,050,000	\$ 940,550,000		\$ 455,500,000	\$ 327,350,000	\$ 782,850,000		\$ 455,500,000	\$ 249,750,000	\$ 705,250,000	