



**Madison Water Utility - 2013 Capital Budget
2013-2030 Capital Improvement Budget**

Updated: June 14, 2012

DRAFT

				Annual Totals						
				\$ 9,051,000	\$ 22,488,000	\$ 35,328,000	\$ 28,565,000	\$ 28,425,000	\$ 31,210,000	
Line	Project	Date/Description/Purpose	Primary Year	Tasks	2012 Carryover	2013	2014	2015	2016	2017
1	Arbor Hills Supplemental Fire Flow Supply - BPS 118		2011							
6	Booster Pump Station 118 was constructed and put into service in 2012. The last phase of the project, Phase 4 of the			Cannonball Pipeline			642,000			
8	Cannonball Pipeline will be constructed in 2014.			Project Total	-	-	642,000	-	-	-
10	Zone 4 Fire Flow Supply Augmentation - Well 31		2013							
11	Two test wells were constructed in 2012 and the production well is scheduled to be drilled in 2013. Unit Well 31 is scheduled to be designed and construction to start in late 2013 and be finished and in service in 2014. The Zone 4 Fire Flow Supply Augmentation project will correct a significant system deficiency identified by the Water Master Plan in the southeast corner of the system within Pressure Zone 4. Due to significant expansion over the years to the south and east, the hydraulics of the system will not adequately serve this area for fire flow supply or system reliability and redundancy. There is also significant development pressure in the southeast and the proposed new well will support further development of the area. Adding a second source of supply to the area will improve fire flow capacity and bring the water system level of service for the area up to Utility standards.			Public Engagement		25,000				
15				Production Well and Development	638,000					
16				Consultant Design contract for design of Unit Well, Reservoir, Pump Station and Pipelines. Construct Unit Well & Fe and Mn Filter	385,000					
17				Consultant Construction Administration. Hydraulic Improvement Pipelines		241,000				
19								1,142,000		
20				Project Total	1,023,000	266,000	4,958,000	1,142,000	-	-
22	Unit Well No. 15 - VOC Air Stripper		2012							
24	East Side Phase 1 - Unit Well No. 15 - VOC Mitigation will address the water quality issues that exist at Well 15 due to rising levels of VOC, specifically PCE. There is a concern that the VOC levels could exceed current regulatory standards. Unit Well 15 is a critical supply component for the NE corner of the City. Construction is scheduled to start in the fall of 2012 and be completed by June 2013.			Construction Admin Services	117,000					
25				Construction of Unit Well No. 15 VOC Stripper	1,944,000					
26				Project Total	2,061,000	-	-	-	-	-
28	Unit Well No. 8 - Fe and Mn Filtration		2014							
29	East Side Phase 2 - Unit Well No. 8 - Fe and Mn Mitigation will address current water quality issues at Well 8 resulting from iron and manganese levels that exceed the EPA secondary standard's. Due to the colored water as a result of the iron and manganese, well operation is currently limited to summer only and a total production of approximately 100 million gallons per year. The need for this project was verified by the East Side Water Supply project and a public engagement process has started. Initially this project was scheduled for construction in 2013. Due to concerns about the nearby KIP Corporation contamination and neighborhood concerns about the facility in the park, the project has been delayed a year. A monitoring well will be installed in 2012 and additional data will be obtained regarding the KIP contamination. Installation of a filter would allow the well to be operational all year long and produce significantly greater quantities of water. Space will be included in the project for the future addition of an air stripper. The project will benefit existing customers in the east Isthmus area and improve			Public Participation	20,000	25,000				
30				UW 8 - Filter Design Documents	421,000	75,000				
31				Property Acquisition			500,000			
32				Construction Admin Services			331,000			
33				Well 8 Fe and Mn Filter Construction			5,510,000			
34				Hydraulic Improvement Pipelines				825,000	981,000	
35				Project Total	441,000	100,000	6,341,000	825,000	981,000	-
37	Unit Well No. 7 - Fe and Mn Filtration		2013							
38	The East Side Water Supply project verified the need for a filter at Well 7. The public engagement process is proceeding and the project has been moved up to be constructed in 2013 and fully operational in 2014. Construction of a filter at Well 7 will address the water quality issues that exist due to iron and manganese levels that exceed or approach the EPA secondary standard. A filter would significantly reduce the iron and manganese levels in the water pumped from the facility into the system. Filtering the water and removing the iron and manganese will reduce the likelihood of customers experiencing colored water due to water pumped from Well 7 and will allow the Utility to increase the use of the well. The new facility will require additional property.			Public Participation	25,000					
39				UW 7 - Filter Design		426,000				
40				Property Purchase	250,000					
41				Construction Admin Services		319,000				
42				Construction of Unit Well No. 7 Fe and Mn Filter		5,320,000				
43				Hydraulic Improvement Pipelines			616,000	952,000		
44				Project Total	275,000	6,065,000	616,000	952,000	-	-
46	East Side Replacement Well		2017							
47	Utility Well #3 was abandoned in early 2008 due to elevated levels of Carbon Tetrachloride. This project is intended to replace that lost supply capacity in Pressure Zone 6E. The need for a replacement well was verified by the East Side Water Supply project. The East Isthmus Unit Well will restore lost supply redundancy and reliability to the east Isthmus area. It is expected that the well will need a filter for iron and manganese removal and this is included in the budget for the project. There is also a possibility that VOC contamination will be present due to long term industrial land use on the Isthmus. The treatment plant will be designed with the intention of adding treatment if necessary. If the test well indicates that iron and manganese filtration is not needed, the capital cost will be significantly reduced.			Public Participation	15,000		23,000		20,000	
48				Drill test well and WQ analysis			150,000			
49				Property Purchase	250,000			378,000		
50				Drill new E. Isthmus Well					655,000	
51				Consultant Design contract			88,000		480,000	
52				Construction of Filter, Res & Pump Station						6,004,000
53				Pipeline Improvements						1,010,000
54				Construction Administration						360,000
55				Project Total	265,000	-	261,000	378,000	1,155,000	7,374,000
57	Advanced Meter Infrastructure System		2012							
58	Advanced Meter Infrastructure Project - Project H20 The project was started in 2012 and will continue into 2013. The			Consultant Contract						



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59	automated meter reading system that will be installed will involve the Utility's 65,000 accounts. This will allow customers to closely monitor and control water use and thereby conserve water reduce system demands. The Utility will be able to implement conservation water rates, monitor the system for leaks, evaluate and optimize system operation and improve			Other Misc Direct Expenses	30,000	20,000					
60				Procurement and Installation	4,000,000	3,600,000					
61				Project Total	4,030,000	3,620,000	-	-	-	-	
62											
63											
64	Lakeview Reservoir Reconstruction		2014								
65	The schedule for the construction of the Lakeview Reservoir has been pushed to 2014 with the reservoir on line in 2015.			Public Engagement		50,000					
66	Reconstructing the Lakeview Reservoir will replace an aging storage tank and provide much needed additional gravity fed water storage in Zone 6E on the north side of the City. Improvements to the existing pump station feeding Pressure Zone 5 is also included in this project. This project is justified in the Water Master Plan and would improve fire fighting capacity and reliability within Pressure Zone 5.			Consultant Design contract		241,000					
67				Construction Services			161,000				
68				Construct Two Zone Lakeview Reservoir			2,680,000				
69				Reservoir Water Main Improvements				1,015,000			
70				Upgrade Booster Pumps @ Res. 113				560,000			
71				Water Main Improvements @ Res 113				381,000			
72				Project Total	-	291,000	2,841,000	1,956,000	-	-	
73											
74	Booster Pump Station #106 Reconstruction		2013								
75	Rebuilding the outdated Booster Pump Station 106 is scheduled to start construction in 2013 and be finished and in service in early 2014. Booster Pump Station 106 is a critical link between Pressure Zones 6 and 7 and allows water to be moved between zones. The facility is the oldest pump station in the system and has deteriorated to the point that it is difficult to maintain. It is also necessary to bring the pump station up to current safety standards and codes, to improve reliability of operation to the station, and to improve access and employee safety. With the pump station upgrade some pipeline replacement will be necessary to increase hydraulic capacity. Improvement to this facility provides significant operational			Public Engagement	40,000						
76				Consultant Design contract	75,000						
77				Construction of Pump Station		1,493,000					
78				Construction Contract Administration		45,000					
79				Pipeline Improvements			616,000	1,269,000			
80				Project Total	115,000	1,538,000	616,000	1,269,000	-	-	
81											
82	Paterson Street Building Remodel and Upgrade		2014								
83	Rebuilding the Utility's Operations Center at Paterson Street is scheduled to start construction in 2014 and be finished and in service in early 2015. The existing facility is outdated and cramped and in need of replacement. The vehicle maintenance area is too small for modern equipment and compromises employee safety. Building air quality and ventilation does not meet modern standards. The office space, locker rooms and other functional storage spaces do not meet current needs. The project also includes the construction of a materials handling building that will free up space in the vehicle storage building and improve efficiency during winter operations.			Public Participation		40,000					
84				Architectural Services/Review		468,000					
85				Materials Storage Building			1,230,000				
86				Furnishings and Equipment				400,000			
87				Construction Admin			292,000				
88				Fleet Maintenance and Office Building Construction			4,618,000				
89				Project Total	-	508,000	6,140,000	400,000	-	-	
90											
91	UW 29 Filter Capacity Expansion		2013								
92	The filter system at Unit Well 29 was constructed with a capacity of 1100 gpm due to a concern with contaminants under the Sycamore Landfill. A sentry well was installed between the landfill and the well to monitor water quality. At this time based on pumping and water quality data there is no indication of a problem with the Sycamore Landfill with regard to Well 29 and the capacity of the filtration system will be increased to 2200 gpm. This will provide the Utility with improved flexibility and supply			Consultant Design contract		30,000					
93				Increase Filter Capacity		400,000					
94				Construction Contract Administration		16,000					
95				Project Total	-	446,000	-	-	-	-	
96											
97	Unit Well 12 Conversion to a Two Zone Well		2015								
98	The 2006 Water Master Plan recommended that Well 12 be converted to a two zone well. This conversion will provide operational flexibility and reliability to the west side supply system. Pumps and a pressure reducing valve will be added to the Well 12 facility to move water from Pressure Zone 7 to Pressure Zone 8 or from Pressure Zone 8 to Pressure Zone 7.			Consultant Design contract			32,000				
99				Construction Services				20,000			
100				Construction				400,000			
101				Water Main Improvements				361,000			
102				Project Total	-	-	32,000	781,000	-	-	
103											
104	Booster Pump Station 109		2017								
105	Booster Pump Station 109 will provide the east side operational functionality and improve reliability to the water supply system. The pump station will move water from Pressure Zone 4 to Pressure Zone 6E and a pressure reducing valve station will allow water to move from Pressure Zone 6 E to Pressure Zone 4.			Public Engagement					50,000		
106				Site Selection and Property Purchase					177,000		
107				Consultant Design contract					105,000		
108				Construction Services						79,000	
109				Construct BPS 109						1,310,000	
110				Water Main Improvements						765,000	
111				Project Total	-	-	-	-	332,000	2,154,000	
112											



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113	Zone 7 & 8 Supplemental Supply - Whitney Way		2016								
114	The 2006 Water Master Plan recommends an additional well to serve Pressure Zones 7 and 8 to improve operational flexibility and system reliability. Adding a well to the area with the ability to pump water to either Zones 7 or 8 will provide additional water supply capacity the area and improve system reliability and redundancy. This facility will provide significant operational flexibility to the Utility within this portion of the system. It is expected that a significant public participation process will be used to site a well and identify water quality issues and system operational needs. Currently the project is scheduled for construction in 2016 and will be fully operational in 2017.			Public Engagement	50,000						
115				Site Selection and Property Purchase			264,000				
116				Drill test well			108,000				
117				Drill production Well				677,000			
118				Consultant Contract-Well Siting & Design	80,000			445,000			
119				Construction of Filter, Reservoir and Pump Station					5,560,000		
120				Consultant Contract Administration					334,000		
121				Pipeline Improvements						893,000	
122				Project Total		130,000	-	372,000	1,122,000	5,894,000	893,000
123											
124	Northeast Side Supplemental Water Supply		2021								
125	The 2006 Water Master Plan recommended an additional well on the east side that could provide water to Zones 6E and 3. The need for this well was verified during the system analysis completed for the East Side Water Supply project. The well would be tentatively located in the NE corner of the system and would provide water to Zones 3 and 6E. While no site has been identified at this point, the Utility owns property for this purpose on Hoepker Road. A public participation process is expected to be used to site the well and develop the details of this project. This project is scheduled to start construction in 2021 and be finished and in service by 2022. Continued development pressure on the east side and the need for reliability and redundancy in the NE corner of the water system is the focus of this project.			Public Engagement							
126				Property Purchase							
127				Drill test well							
128				Drill Production Well							
129				Consultant Design contract				-			
130				Construction of Unit Well, Filter, Reservoir and Pump Station							
131				Consultant Contract Administration							
132				Pipelines							
133			Project Total		-	-	-	-	-	-	
134											
135	Zone 11 - Blackhawk Elevated Reservoir		2015								
136	No storage capacity currently exists in Pressure Zone 11 on the far west side of the distribution system. The area is fed by a dedicated booster pump station (BPS 128). As the area develops and fills in, construction of the Blackhawk Elevated Reservoir will provide the needed emergency supply storage and fire fighting capacity recommended for the area. The reservoir is scheduled for construction in 2015 and will be in operation in 2017. The <i>Blackhawk Elevated Reservoir</i> project will upgrade the service to Pressure Zone 11 from pumped to gravity. The Utility currently owns property on the far west side for the purpose of siting a water reservoir.			Public Engagement			55,000				
137				Consultant Design contract			161,000				
138				Construction Services				115,000			
139				Construct 750,000 gallon reservoir				2,303,000			
140				Reservoir piping improvements				250,000			
141				Water Main Improvements					743,000	1,020,000	
142			Project Total		-	-	216,000	2,668,000	743,000	1,020,000	
143											
144	Booster Pump Station 114		2016								
145	Booster Pump Station 114 will provide the ability to move water from Pressure Zone 6W to Zone 8 and back again. This improves the operational flexibility of the west side supply system and provides the means of spreading out the current water supply capacity within the system. Construction is scheduled to start in 2016 and be finished and in service by 2017. Construction of BPS 114 will benefit west side customers through gained system reliability and redundancy.			Public Engagement			56,000				
146				Site Selection and Property Purchase			378,000				
147				Consultant Design contract			131,000				
148				Construction Services					88,000		
149				Construct BPS 114					1,460,000		
150				Water Main Improvements					1,307,000	1,020,000	
151			Project Total		-	-	-	565,000	2,855,000	1,020,000	
152											
153	Pressure Zone 9 Storage		2016								
154	Storage capacity within Pressure Zone 9 was identified in the Water Master Plan as being deficient. With the replacement of the elevated reservoir on Prairie Road in 2011 and 2012 with a 400,000 gallon tank, this situation was partially mitigated. A second reservoir with a capacity of 750,000 gallons will resolve the remainder of the Zone 9 storage deficiency. An elevated reservoir in the western portion of Zone 9 will provide hydraulic balance to the system. Construction of the proposed reservoir is scheduled to start in 2016 and be complete and in operation by 2017. Pressure Zone 9 has developed significantly with not only residential but commercial and institutional facilities. The fire flow requirements have increased due to this development to the point that current facilities do not meet minimum standards.			Public Engagement			55,000				
155				Reservoir Property Purchase			378,000				
156				Consultant Design Services			175,000				
157				Construct 750,000 gallon elevated reservoir					2,190,000		
158				Construction Contract Administration					131,000		
159				Reservoir Pipeline Construction					371,000		
160			Project Total		-	-	55,000	553,000	2,692,000	-	
161											
162	Pump Station 220 - Raymond Road PS		2018								
163	Construction of a booster pump station on the west side to move water between Zones 7, 9 and 10 and back again through a pressure reducing valve is scheduled to start in 2018 and be finished and in service by the end of the year. <i>Booster Pump Station 220 - Raymond Road Pump Station</i> will setup operational flexibility within Pressure Zones 7, 9 and 10. The station will transfer water from Zone 7 to Zones 9 and 10 and back again through a PRV. This operation will provide the ability to			Public Engagement					58,000		
164				Dual Zone Pump Station Design						126,000	
165				Dual Zone Pump Station Construction							



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166	Share water supply resources between zones and fully use existing facilities in providing operational flexibility. The project will also provide supply redundancy to the far west side.			PRV station							
167				Booster Station Piping Upgrade							
168				Project Total	-	-	-	-	58,000	126,000	
169											
170	Iron and Manganese Filter at Well 19		2015								
171	Construction of an <u>Iron and Manganese Filter at Well 19</u> will address the water quality in the Well 19 service area due to elevated levels of iron and manganese. Accumulation of iron and manganese solids in the system results in a need for additional flushing to minimize the risk of colored water reaching customers. Removing the iron and manganese from the water using a filter would improve finished water quality and reduce the risk of colored water in the Well 19 service area. The project will benefit existing customers in the west campus area. The budget anticipates construction of a filter in 2015 with the facility in full operation in 2016 following a significant public participation process and evaluation.			Public Participation			60,000				
172				UW 19 - Filter Design Documents		284,000					
173				Property Purchase							
174				Construction Admin Services Well 19 Fe and Mn Filter					190,000		
175				Construction						3,160,000	
176				Project Total	-	-	344,000	3,350,000	-	-	
177											
178	Iron and Manganese Filter at Well 30		2018								
179	Iron and manganese concentrations at Well 30 exceed Utility water quality standards and guidelines. Construction of an Iron and Manganese Filter at Well 30 will address the water quality issues and risk of colored water events and customer complaints in the Well 30 service area. Annual system flushing is required in the Well 30 service area to minimize the risk of colored water events due to the accumulation of iron and manganese solids in the system. A filter would improve finished water quality and reduce the need for annual flushing in the Well 30 service area. The budget anticipates construction of a filter in 2018 following a significant public participation process and evaluation.			Public Participation						60,000	
180				UW 30 - Filter Design Documents							320,000
181				Property Purchase							
182				Construction Admin Services Well 30 Fe and Mn Filter							
183				Construction							
184				Project Total	-	-	-	-	-	-	380,000
185											
186	Booster Pump Station 129 Reconstruction		2017								
187	Construction of a new and upgraded booster pump station 129 is scheduled for 2017. This project will replace the temporary pump station constructed on the Well 29 site in 1990. Pump Station 129 will continue to transfer water from Zone 6E to Zone 3 and back again through a PRV. This operation will provide supply and fire flow capability to the far east side of the system. It will benefit customers through gained reliability and flexibility of operations.			Public Engagement				56,000			
188				Design					121,000		
189				Construction Services						91,000	
190				Water Main Improvements						1,275,000	
191				Construct BPS 129						1,518,000	
192	Project Total	-	-	-	56,000	121,000	2,884,000				
193											
194	Zone 10 Far West Elevated Reservoir		2020								
195	Construction of the Zone 10 Far West Side 750,000 gallon elevated reservoir is scheduled for 2020 and will follow a public engagement process and evaluation. The <u>Zone 10 Far West Elevated Reservoir</u> project will provide additional gravity fed water storage capacity within Pressure Zone 10. As Pressure Zone 10 has developed with not only residential but commercial and institutional facilities, the existing 250,000 gallon elevated tank on High Point Road no longer provides sufficient emergency reserve capacity. Providing minimum fire flow requirements to this area of the distribution system is necessary to meet minimum Utility standards. This project is identified in the 2006 Water Master Plan.			Public Engagement							
196				Site Selection and Property Purchase							
197				Consultant Design contract							
198				Construction Services							
199				Construct 750,000 gallon reservoir							
200				Reservoir piping improvements							
201	Water Main Improvements										
202	Project Total	-	-	-	-	-	-	-			
203											
204	Near West Side Water Supply Project		2021								
205	Construction of an additional well is scheduled for 2021. The Water Master Plan has identified this well project to mitigate a supply deficiency in Pressure Zones 6 and 7. The <u>Near West Side Water Supply Project</u> project will provide additional water supply capacity to both Zones 6 & 7. The final location of the proposed well will be determined following a significant public participation process and evaluation period.			Public Engagement						60,000	
206				Site Selection and Property Purchase							
207				Drill Test Well							
208				Drill production Well							
209				Consultant Design contract for Unit Well, Reservoir and Pump Station							
210				Construction of Unit Well, Filter, Reservoir and Pump Station							
211				Construction Contract Administration							
212				Water Main Hydraulic Improvements							
213	Project Total	-	-	-	-	-	-	60,000			
214											



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215	Booster Pump Station 320		2024										
216	Booster Pump Station 320 will provide the Utility with operational flexibility on the west side. The station will transfer water from Zones 7 to Zones 9 and 10 and back again through a PRV. This operation will provide flexibility in source of supply to the west side of the system. It will benefit customers through gained system reliability.			Public Engagement									
217				Site Selection and Property									
218				Purchase									
219				Consultant Design contract									
220				Construction Services									
221				Construct BPS 320									
222				Water Main Improvements									
223				Project Total	-	-	-	-	-	-			
224													
225	Pipeline Replacement/Rehab/Improvements		Ongoing	Total Pipe Rehab Budget		7,500,000	8,210,000	8,883,000	9,535,000	10,244,000			
226	Madison Water Utility has a planned system replacement and upgrade program that provides for annual main replacement and rehabilitation. Assessment of an aging infrastructure indicates the Utility needs to replace or rehabilitate over 400 miles of pipe in the next 40 years to renew and maintain the system. A planned annual increase in spending to accomplish this goal by 2050 will be continued. The Utility's Water Master Plan also recommends hydraulic improvements to the system. It is proposed to significantly increase pipeline investment for hydraulic needs in 2015 and then increase this budget over the next 15 years to meet Master Plan recommendations.			Reconstruction Pipe Projects		3,500,000	3,710,000	3,933,000	4,090,000	4,254,000			
227				Resurfacing Pipe Projects		3,500,000	3,500,000	3,850,000	4,000,000	4,400,000			
228				Pipe Lining Projects		500,000	1,000,000	1,100,000	1,445,000	1,590,000			
229				New Pipeline Projects		840,000	966,000	1,082,000	1,163,000	1,250,000			
230				Master Plan Hydraulic Improvement Pipe Projects					713,000	799,000	895,000		
231							Project Total	-	8,340,000	9,176,000	10,678,000	11,497,000	12,389,000
232													
233	Misc. Pump Station/PRV/Facility Projects		Ongoing										
234	The Water Master Plan identified various minor improvement projects that are necessary to sustain the established level of service. For budgeting purposes, these projects are itemized under a single heading. Pressure Reducing stations will be constructed throughout the system as needed to reduce areas of excessive pressure.			PRV Station Vondron Rd	50,000								
235				PRV Station Gammon Rd				50,000					
236				Upgrade Booster Pumps @ UW 20	350,000								
237				Upgrade Booster Pumps @ Res. 115					175,000				
238				Water Main Improvements @ BPS 115					750,000				
239				PRV @ 126						52,000			
240				Generator @ UW 26	235,000	100,000							
241				PRV Projects 2 per year					100,000	104,000	108,000	112,000	
242				Misc. Projects					375,000	394,000	414,000	1,000,000	
243				Consultant Services	76,000	24,000			174,000	66,000	63,000	133,000	
244				Project Total	711,000	224,000	1,624,000	616,000	585,000	1,245,000			
245	System Wide Misc Projects		Ongoing										
246	Several system wide tasks are included in the Capital Budget that cover a variety of repair, rehabilitation, and upgrade projects. The Utility's Infrastructure Management Plan recommends a reinvestment of \$2.5 (2005 dollars) in system facilities to sustain their viability for the long term. This would include Unit Well, pump station, and reservoir improvements and renewal. This budget proposes that an allotment for this purpose be started in 2014 and then increased annually to raise it to the recommended level. For budgeting purposes, these projects are itemized under a single heading.			West Side Water Master Plan		300,000							
247				Update Infrastructure Plan		200,000							
248				SCADA Maintenance and 6 Year Upgrade			33,000		34,000	35,000	250,000	263,000	
249				Meter Program			-		30,000	31,000	32,000	33,000	
				Private Well Connection Program			50,000		50,000	50,000			
250				Safety Additions to the Plant			29,000		31,000	33,000	35,000	37,000	
251				Security Upgrades			100,000		104,000	108,000	112,000	116,000	
252				Olin Admin Office Maintenance			18,000		19,000	20,000	22,000	24,000	
253				Unit Well Rehab/Maintenance			200,000		215,000	231,000	248,000	267,000	
				Long Range Pumping and Storage Facility Renewal Projects					500,000	575,000	661,000	760,000	
254				General Consultant Services			67,000		74,000	81,000	89,000	98,000	
255				Paterson Vehicle Storage Bldg Maintenance			34,000		37,000	40,000	43,000	46,000	
256				Paterson Office and Shop Maintenance			59,000				20,000	21,000	
257				Project Total	-	1,090,000	1,094,000	1,254,000	1,512,000	1,665,000			
258													
259													
260				Total Estimated Annual Costs	9,051,000	22,488,000	35,328,000	28,565,000	28,425,000	31,210,000			