

Table 4: Wastewater Capital Improvement Program (April 2006 dollars)

WASTEWATER CAPITAL IMPROVEMENT	2038	2039	2040	cross-check totals
Wastewater Planning (1)				
Hydraulic Modeling				\$350,000
Flow Monitoring	25,000	25,000	25,000	\$875,000
Infiltration/Inflow Evaluation				\$400,000
CDPS Permit Review & Negotiations				\$175,000
Update Master Plan	75,000			\$525,000
Total Wastewater Planning	\$100,000	\$25,000	\$25,000	\$2,325,000
Convey Highlands Flows to Vista WWTP (2)				
Engineering Design				\$225,000
New Highlands Lift Station				\$293,000
Force Main Highlands to Lift Station No. 11				\$990,000
Upgrade and Expand Lift Station No. 11				\$250,000
Replace Lift Station No. 11 Force Main				\$150,000
Upsize Gravity Sewer, Replace Manholes				\$350,000
Decommission Highlands Plant				\$25,000
Construction Management				\$125,000
Highlands and LS 11 Equipment Replacement				\$200,000
Total Convey Highlands to Vista WWTP	\$0	\$0	\$0	\$2,608,000
Vista WWTP				
New Centrifuge				\$200,000
Aerobic digester Improvements				\$250,000
Anaerobic digestion conversion (7)				\$4,050,000
Equipment Replacement Allowance(3)	75,000	75,000	75,000	\$2,550,000
Phase 1A Engineering Design				\$100,000
Phase 1A Step Screen				\$150,000
Phase 1A VTSH Influent Pump				\$188,000
Phase 1A Aerated Grit Chamber				\$194,000
Phase 1A UV Disinfection (3mgd)				\$167,000
Phase 1 Construction Management				\$65,000
Phase 2 Engineering Design				\$160,000
Phase 2 Oxidation Ditch				\$1,364,000
Phase 2 Blower				\$180,000
Phase 2 Construction Management				\$80,000
Total Vista WWTP	\$75,000	\$75,000	\$75,000	\$9,698,000
Biosolids Reuse/Disposal (4)				
Acquire Land for Biosolids Disposal (10)	20,000	20,000	20,000	\$1,150,000
Allowance for engineering and permitting				\$125,000
Total Biosolids Reuse/Disposal	\$20,000	\$20,000	\$20,000	\$1,275,000
Collection System Improvements (5)				
Sewer Line Replacement Vista & Highlands (See Note #12)	100,000		100,000	\$3,360,000
Vista I/I Inspection & Sealing (see Note #13)	50,000	50,000	50,000	\$1,500,000
Vista I/I Inspection & Slip Lining (see Note #14)	100,000	100,000	100,000	\$2,900,000
Vista I/I Manhole Repair				\$345,000
Highlands I/I Inspection & Sealing (see Note #15)		50,000		\$1,350,000
Highlands I/I Inspection & Slip Lining (see Note #16)				\$550,000
Highlands I/I Manhole Repair (see Note #17)		20,000		\$360,000
Lift Station Capacity Upgrades (see Note #18)				\$350,000
Force main Replacement (see Note #19)			125,000	\$1,000,000
Lift Station Equipment Replacement	25,000	25,000	25,000	\$575,000
Lift Station Generators			100,000	\$400,000
Total Collection System Improvements	\$275,000	\$245,000	\$500,000	\$12,690,000
Other Alternative Energy Needs (8)				\$35,000
Total Alternative Energy Needs				
Total Wastewater CIP (Subtotal)	\$470,000	\$365,000	\$620,000	\$28,631,000
Unlisted items at 20% of subtotal	173,521	173,521	173,521	5,726,200
Grand Total	643,521	538,521	793,521	33,287,200
Allocation to Growth (within current boundaries)	418,289	350,039	515,789	21,636,680
Allocation to Existing (6) (within current boundaries)	225,232	188,482	277,732	11,650,520
	643,521	538,521	793,521	33,287,200
NOTES: ASSUMPTION I/I PEAKING FACTORS VISTA 2.5 & HI				
(1) Master Plan updated every 5 years; ongoing flow monitoring				
(2) Per preliminary hydraulic modeling by Briliam; 70 percent of se				
(3) Allowance for pump, blower, oxidation ditch mixer, clarifier me				
(4) Allowance for land purchase for land farming of dewatered bio				
(5) Adapted from estimates presented in PAWSD 20 Year CIP an				
(6) In 2010 Highlands WWTP flow is conveyed to the Vista WWTF				
(7) This conversion would allow for production of methane gas an				
(8) This line item is intended to study other alternatives for energy				
(9) Only expenditures expected to yet be made in 2006 have bee				
(10) This line assumes a biosolids study in 2007, land purchase in				
If the District decided to haul to private property, land purchase n				
I believe any customer giveaways or marketing of this fertilizer prc				
(11) I/I focus on highlands during this period.				
(12) This number is inflated from the Briliam Engineering Report (i				
(13) Age and construction deficiency related costs associated with				
(14) Adjusted per construction costs to date - PAWSD discussion,				
(15) Repair and replacement adjusted per PAWSD discussion, ad				
(16) Adjusted per construction costs to date - PAWSD discussion,				
(17) Modified to incorporate age and construction deficiencies ass				
(18) Conversations with PAWSD decided to replace LS#5 due to				
(19) Conversation with PAWSD decided to replace every 5 years -				
NOTE: Smoke Testing to be included in all I/I Inspection Cate				