40-Year Sewer CIP - WORKING DOCUMENT

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

7/26/2006

WASTEWATER CAPITAL IMPROVEMENT	AMOUNT TO GROWTH	PERCENT TO GROWTH	TOTAL COST 2009-2055	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
				see note #9																																		
Wastewater Planning (1)																																				
Hydraulic Modeling	250,000	50	**$500,000**	50,000					50,000					50,000					50,000					50,000				50,000					50,000			
Flow Monitoring	775,000	50	**$1,550,000**	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000
Infiltration/Inflow Evaluation	225,000	50	**$450,000**		100,000					50,000					50,000					50,000					50,000					50,000					50,000	
CDPS Permit Review & Negotiations	157,500	70	**$225,000**		25,000					25,000					25,000					25,000					25,000					25,000					25,000	
Update Master Plan	337,500	50	**$675,000**			75,000					75,000					75,000					75,000					75,000					75,000					75,000
Total Wastewater Planning	**1,745,000**		**$3,400,000**	$75,000	$150,000	$100,000	**$25,000**	**$25,000**	**$75,000**	**$100,000**	**$100,000**	**$25,000**	**$25,000**	**$75,000**	**$100,000**	**$100,000**	**$25,000**	**$25,000**	**$75,000**	**$100,000**	**$100,000**	**$25,000**	**$25,000**	**$75,000**	**$100,000**	**$100,000**	**$100,000**	**$25,000**	**$25,000**	**$75,000**	**$100,000**	**$100,000**	**$25,000**	**$25,000**	**$75,000**	**$100,000**	**$100,000**
Convey Highlands Flows to Vista WWTP (2)																																				
Engineering Design	315,000	50	**$630,000**				175,000																					175,000								
New Highlands Lift Station	1,032,000	50	**$2,064,000**	GREY AREA LEFT IN FOR					400,000																				640,000								
Force Main Highlands to Lift Station No. 11 (+/- 15,540 ft)	777,000	50	**$1,554,000**	HISTORICAL REASONS BUT				1,554,000																												
Upgrade and Expand Lift Station No. 11	1,290,000	50	**$2,580,000**	NOT USED IN CALCULATIONS					500,000																				800,000								
Replace Lift Station No. 11 Force Main (+/- 7870 ft.)	393,500	50	**$787,000**	FOR 2055 PLAN WITH A START				787,000																												
Upsize Gravity Sewer, Replace Manholes	200,000	50	**$400,000**	DATE OF 2009				400,000																												
Decommission Highlands Plant	100,000	50	**$200,000**							200,000																										
Construction Management	225,000	50	**$450,000**					75,000	75,000																				150,000								
Highlands and LS 11 Equipment Replacement	100,000	50	**$200,000**																	100,000										100,000						
Total Convey Highlands to Vista WWTP	**4,432,500**		**$8,865,000**	$0	$0	$0	**$175,000**	**$2,816,000**	**$975,000**	**$200,000**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$100,000**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$175,000**	**$1,590,000**	**$100,000**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
Vista WWTP																																				
New Centrifuge	105,000	50	**$210,000**					210,000																												
Aerobic digester Improvements	630,000	70	**$900,000**								400,000										500,000															
Anaerobic digestion conversion (7	10,530,000	100	**$10,530,000**																								450,000	3,600,000								
Equipment Replacement Allowance(3)	2,100,000	50	**$4,200,000**		75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000
Phase 1A Engineering Design	92,000	92	**$100,000**															100,000																		
Phase 1A Step Screen	138,000	92	**$150,000**																	150,000																
Phase 1A VTSH Influent Pump	172,960	92	**$188,000**																	188,000																
Phase 1A Aerated Grit Chamber	178,480	92	**$194,000**																	194,000																
Phase 1A UV Disinfection (3mgd)	153,640	92	**$167,000**																	167,000																
Phase 1 Construction Management	59,800	92	**$65,000**	GREY AREA LEFT IN FOR																65,000																
Phase 2 Engineering Design	147,200	92	**$160,000**	HISTORICAL REASONS BUT																			160,000													
Phase 2 Oxidation Ditch	2,174,880	92	**$2,364,000**	NOT USED IN CALCULATIONS												1,000,000								1,364,000												
Phase 2 Blower	257,600	92	**$280,000**	FOR 2055 PLAN WITH A START												100,000								180,000												
Phase 2 Construction Management	73,600	92	**$80,000**	DATE OF 2009																				80,000												
2046 new WWTP	36,400,000	100	**$36,400,000**																																	
Total Vista WWTP	**53,213,160**		**$55,988,000**	$0	$75,000	$75,000	**$75,000**	**$285,000**	**$75,000**	**$75,000**	**$475,000**	**$75,000**	**$75,000**	**$75,000**	**$75,000**	**$1,175,000**	**$75,000**	**$175,000**	**$75,000**	**$839,000**	**$575,000**	**$75,000**	**$235,000**	**$1,699,000**	**$75,000**	**$75,000**	**$525,000**	**$3,675,000**	**$75,000**	**$75,000**	**$75,000**	**$75,000**	**$75,000**	**$75,000**	**$75,000**	**$75,000**	**$75,000**
Biosolids Reuse/Disposal (4																																				
Acquire Land for Biosolids Disposal (10)	857,500	70	**$1,225,000**		10,000	500,000	5,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
Allowance for engineering and permitting	240,625	70	**$343,750**								125,000																									**218,750**
Total Biosolids Reuse/Disposa	**1,098,125**		**$1,568,750**	$0	$10,000	$500,000	**$5,000**	**$20,000**	**$20,000**	**$20,000**	**$145,000**	**$20,000**	**$20,000**	**$20,000**	**$20,000**	**$20,000**	**$20,000**	**$20,000**	**$20,000**	**$20,000**	**$20,000**	**$20,000**	**$20,000**	**$20,000**	**$20,000**	**$20,000**	**$20,000**	**$20,000**	**$20,000**	**$20,000**	**$20,000**	**$20,000**	**$20,000**	**$20,000**	**$20,000**	**$238,750**
Collection System Improvements (5)																																				
Sewer Line Replacement Vista & Highlands (See Note #12)	1,922,500	50	**$3,845,000**		315,000	315,000	310,000	315,000	250,000	250,000	250,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000		100,000		100,000		100,000		100,000		100,000		100,000		100,000		100,000		100,000
Vista I/I Inspection & Sealing (see Note #13)	1,320,000	60	**$2,200,000**						50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Vista I/I Inspection & Slip Lining (see Note #14)	2,640,000	60	**$4,400,000**		See Note #11					100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
Vista I/I Manhole Repair	459,000	60	**$765,000**							15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	20,000	20,000	20,000
Highlands I/I Inspection & Sealing (see Note #15)	696,000	60	**$1,160,000**	150,000	100,000	100,000	100,000	100,000	100,000		50,000		50,000		50,000		50,000		50,000		50,000		50,000		50,000		50,000		50,000		50,000		50,000		
Highlands I/I Inspection & Slip Lining (see Note #16)	1,560,000	60	**$2,600,000**	50,000	100,000	100,000	0																				1,000,000								
Highlands I/I Manhole Repair (see Note #17)	228,000	60	**$380,000**	20,000	20,000	20,000	20,000	20,000			20,000		20,000		20,000		20,000		20,000		20,000		20,000		20,000		20,000		20,000		20,000		20,000		
Lift Station Capacity Upgrades (see Note #18)	8,795,255	100	**$8,795,255**							350,000										1,365,000										1,774,500						
Force main Replacement (see Note #19)	1,306,250	100	**$1,306,250**					125,000					125,000					125,000						125,000				125,000				125,000				
Lift Station Equipment Replacement	351,300	60	**$585,500**					25,000		25,000		25,000		25,000		25,000		25,000		25,000		25,000		25,000		25,000		25,000		25,000		25,000		25,000	
Lift Station Generators	718,700	100	**$718,700**						100,000										100,000									130,000								
Total Collection System Improvements	**19,997,005**		**$26,755,705**	$220,000	$535,000	$535,000	**$430,000**	**$585,000**	**$500,000**	**$790,000**	**$465,000**	**$300,000**	**$470,000**	**$300,000**	**$345,000**	**$300,000**	**$345,000**	**$425,000**	**$335,000**	**$1,655,000**	**$235,000**	**$290,000**	**$360,000**	**$290,000**	**$235,000**	**$290,000**	**$1,235,000**	**$415,000**	**$365,000**	**$2,064,500**	**$235,000**	**$290,000**	**$365,000**	**$295,000**	**$240,000**	**$295,000**
Other Alternative Energy Needs (8)	23,625	50	**$47,250**		$5,000					$5,000					$5,000					$5,000					$5,000					$5,000					$5,000	
Total Alternative Energy Needs	**23,625**																																			
Total Wastewater CIP (Subtotal)	**80,509,415**		**$96,624,705**	$295,000	$775,000	$1,210,000	**$710,000**	**$3,731,000**	**$1,645,000**	**$1,190,000**	**$1,185,000**	**$420,000**	**$590,000**	**$470,000**	**$545,000**	**$1,595,000**	**$465,000**	**$645,000**	**$505,000**	**$2,719,000**	**$930,000**	**$410,000**	**$640,000**	**$2,084,000**	**$435,000**	**$485,000**	**$1,805,000**	**$4,310,000**	**$2,125,000**	**$2,364,500**	**$430,000**	**$410,000**	**$485,000**	**$465,000**	**$440,000**	**$708,750**
Unlisted items at 20% of subtotal			$19,324,941			173,521	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169
Grand Total			$115,949,646			1,383,521	1,121,169	4,142,169	2,056,169	1,601,169	1,596,169	831,169	1,001,169	881,169	956,169	2,006,169	876,169	1,056,169	916,169	3,130,169	1,341,169	821,169	1,051,169	2,495,169	846,169	896,169	2,216,169	4,721,169	2,536,169	2,775,669	841,169	821,169	896,169	876,169	851,169	1,119,919
Allocation to Growth (within current boundaries			$90,171,886		GROWTH	899,289	863,300	3,189,470	1,583,250	1,232,900	1,229,050	640,000	770,900	678,500	736,250	1,544,750	674,650	813,250	705,450	2,410,230	1,032,700	632,300	809,400	1,921,280	651,550	690,050	1,706,450	3,635,300	1,952,850	2,137,265	647,700	632,300	690,050	674,650	655,400	862,338
Allocation to Existing (6) (within current boundaries			$25,777,761		EXISTING	484,232	257,869	952,699	472,919	368,269	367,119	191,169	230,269	202,669	219,919	461,419	201,519	242,919	210,719	719,939	308,469	188,869	241,769	573,889	194,619	206,119	509,719	1,085,869	583,319	638,404	193,469	188,869	206,119	201,519	195,769	257,581
Allocation to Growth divided by projected 2055 addtl eu's (21,207)			**$4,252**			1,383,521	1,121,169	4,142,169	2,056,169	1,601,169	1,596,169	831,169	1,001,169	881,169	956,169	2,006,169	876,169	1,056,169	916,169	3,130,169	1,341,169	821,169	1,051,169	2,495,169	846,169	896,169	2,216,169	4,721,169	2,536,169	2,775,669	841,169	821,169	896,169	876,169	851,169	1,119,919

NOTES: ASSUMPTION I/I PEAKING FACTORS VISTA 2.5 & HIGHLANDS 2.3 (Do these % need revision, and population changes need updating as well?

(1) Master Plan updated every 5 years; ongoing flow monitoring and I/I evaluation to support aggressive sewer rehabilitation to reduce I/I; allowance for CDPS permit negotiation assistance every 5 years.

(2) Per preliminary hydraulic modeling by Briliam; 70 percent of sewer cost for providing additional capacity for Highlands flows; new highlands Lift Station per CDM Evaluation of Highlands WWTP Technical Memorandum August 26, 2004

(3) Allowance for pump, blower, oxidation ditch mixer, clarifier mechanism, grit, screening and UV equipment replacement twice during planning period annualized from 2006 to 2055.

(4) Allowance for land purchase for land farming of dewatered biosolids and associated engineering and permitting

(5) Adapted from estimates presented in PAWSD 20 Year CIP and Master Plan Recommendations (Davis Engineering 10/1/2003) and discussions with Briliam Engineering and PAWSD (4/20/06)

(6) In 2011 Highlands WWTP flow is conveyed to the Vista WWTP consuming about 8% of Vista WWTP capacity by existing customers; therefore allocation of Vista WWTP Improvements to growth is estimated at 92%

(7) This conversion would allow for production of methane gas and possible heating of buildings and fuel for vehicles. Not economical until population (flow) reaches a certain point. This is one form of alternative energy.

(8) This line item is intended to study other alternatives for energy to power facilites including but not limited to solar, wind, hydro, or gas. 5K for each 5 year period. Feasibility studies might determine if incorporation into our specs is warranted.

(9) Only expenditures expected to yet be made in 2006 have been left in this column.

(10) This line assumes a biosolids study in 2007, land purchase in 2008 and 20k per year to contract haul to our site, testing and other regulatory issues require funding as well.
If the District decided to haul to private property, land purchase may not be necessary, but signifigant concerns on spreading/injection and distance of long hauls are a concern
I believe any customer giveways or marketing of this fertilizer product, due to the population and amount produced are beyond the scope of this 2040 study.

(11) I/I focus on highlands during this period.

(12) This number is inflated from the Briliam Engineering Report (8/2/06) from $792,000 to $3.36M to incorporate I/I driven replacement costs and additional costs through 2055 were incorporated per discussion with PAWSD.

(13) Age and construction deficiency related costs associated with maintenance of the existing infrastructure, adjust life cycle to 2055

(14) Adjusted per construction costs to date - PAWSD discussion, adjust life cycle to 2055

(15) Repair and replacement adjusted per PAWSD discussion, adjust life cycle to 2055

(16) Adjusted per construction costs to date - PAWSD discussion, adjust life cycle to 2055

(17) Modified to incorporate age and construction deficiencies associated with the maintenance of the existing infrastructure, adjust life cycle to 2055

(18) Conversations with PAWSD decided to replace LS#5 due to maintenance associated requirements.

(19) Conversation with PAWSD decided to replace every 5 years due to maintenance associated requirements.

NOTE: Smoke Testing to be included in all I/I Inspection Categories

11/21/08 Note: This tab assumes growth rates shown in the original Appraisal Report to Evaluate Future Raw Water Demands and Water Supply Alternative Plans, Harris Water Engineering, March 2003

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

WASTEWATER CAPITAL IMPROVEMENT	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	cross-check totals
Wastewater Planning (1)																		
Hydraulic Modeling			50,000					50,000					50,000				50,000	$500,000
Flow Monitoring	25,000	25,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	$1,550,000
Infiltration/Inflow Evaluation				50,000					50,000					50,000				$450,000
CDPS Permit Review & Negotiations				25,000					25,000					25,000				$225,000
Update Master Plan					75,000					75,000					75,000			$675,000
Total Wastewater Planning	**$25,000**	**$25,000**	**$100,000**	**$125,000**	**$125,000**	**$50,000**	**$50,000**	**$100,000**	**$125,000**	**$125,000**	**$50,000**	**$50,000**	**$100,000**	**$125,000**	**$125,000**	**$50,000**	**$100,000**	$3,400,000
Convey Highlands Flows to Vista WWTP (2)																		
Engineering Design												280,000						$630,000
New Highlands Lift Station													1,024,000					$2,064,000
Force Main Highlands to Lift Station No. 11 (+/- 15,540 ft)																		$1,554,000
Upgrade and Expand Lift Station No. 11													1,280,000					$2,580,000
Replace Lift Station No. 11 Force Main (+/- 7870 ft.)																		$787,000
Upsize Gravity Sewer, Replace Manholes																		$400,000
Decommission Highlands Plant																		$200,000
Construction Management													150,000					$450,000
Highlands and LS 11 Equipment Replacement																		$200,000
Total Convey Highlands to Vista WWTP	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$280,000**	**$2,454,000**	**$0**	**$0**	**$0**	**$0**	$8,865,000
Vista WWTP																		
New Centrifuge																		$210,000
Aerobic digester Improvements																		$900,000
Anaerobic digestion conversion (7												720,000	5,760,000					$10,530,000
Equipment Replacement Allowance(3)	75,000	75,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	$4,200,000
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																		$2,364,000
Phase 2 Blower																		$280,000
Phase 2 Construction Management																		$80,000
2046 new WWTP								36,400,000										$36,400,000
Total Vista WWTP	**$75,000**	**$75,000**	**$120,000**	**$120,000**	**$120,000**	**$120,000**	**$120,000**	**$36,520,000**	**$120,000**	**$120,000**	**$120,000**	**$840,000**	**$5,880,000**	**$120,000**	**$120,000**	**$120,000**	**$120,000**	$55,988,000
Biosolids Reuse/Disposal (4																		
Acquire Land for Biosolids Disposal (10)	20,000	20,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	$1,225,000
Allowance for engineering and permitting																		$343,750
Total Biosolids Reuse/Disposa	**$20,000**	**$20,000**	**$40,000**	**$40,000**	**$40,000**	**$40,000**	**$40,000**	**$40,000**	**$40,000**	**$40,000**	**$40,000**	**$40,000**	**$40,000**	**$40,000**	**$40,000**	**$40,000**	**$40,000**	$1,568,750
Collection System Improvements (5)																		
Sewer Line Replacement Vista & Highlands (See Note #12)		100,000		100,000		100,000		100,000		100,000		100,000		100,000		100,000		$3,845,000
Vista I/I Inspection & Sealing (see Note #13)	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000		$2,200,000
Vista I/I Inspection & Slip Lining (see Note #14)	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	$4,400,000
Vista I/I Manhole Repair	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	$765,000
Highlands I/I Inspection & Sealing (see Note #15)	50,000		20,000		20,000		20,000		20,000		20,000		20,000		20,000		20,000	$1,160,000
Highlands I/I Inspection & Slip Lining (see Note #16)											1,600,000							$2,600,000
Highlands I/I Manhole Repair (see Note #17)	20,000		10,000		10,000		10,000		10,000		10,000		10,000		10,000		10,000	$380,000
Lift Station Capacity Upgrades (see Note #18)				2,306,850										2,998,905				$8,795,255
Force main Replacement (see Note #19)		125,000					143,750					143,750					143,750	$1,306,250
Lift Station Equipment Replacement		25,000		26,500		26,500		26,500		26,500		26,500		26,500		26,500		$585,500
Lift Station Generators			169,000										219,700					$718,700
Total Collection System Improvements	**$240,000**	**$420,000**	**$369,000**	**$2,603,350**	**$200,000**	**$296,500**	**$343,750**	**$296,500**	**$200,000**	**$296,500**	**$1,800,000**	**$440,250**	**$419,700**	**$3,295,405**	**$200,000**	**$296,500**	**$293,750**	$26,755,705
Other Alternative Energy Needs (8)				**$5,750**					**$5,750**					**$5,750**				$47,250
Total Alternative Energy Needs																		
Total Wastewater CIP (Subtotal)	**$360,000**	**$540,000**	**$629,000**	**$2,894,100**	**$485,000**	**$506,500**	**$553,750**	**$36,956,500**	**$490,750**	**$581,500**	**$2,010,000**	**$1,650,250**	**$8,893,700**	**$3,586,155**	**$485,000**	**$506,500**	**$553,750**	$96,624,705
Unlisted items at 20% of subtotal	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	411,169	19,324,941
Grand Total	771,169	951,169	1,040,169	3,305,269	896,169	917,669	964,919	37,367,669	901,919	992,669	2,421,169	2,061,419	9,304,869	3,997,324	896,169	917,669	964,919	115,949,646
Allocation to Growth (within current boundaries	593,800	732,400	800,930	2,545,057	690,050	706,605	742,988	28,773,105	694,478	764,355	1,864,300	1,587,293	7,164,749	3,077,939	690,050	706,605	742,988	89,281,227
Allocation to Existing (6) (within current boundaries	177,369	218,769	239,239	760,212	206,119	211,064	221,931	8,594,564	207,441	228,314	556,869	474,126	2,140,120	919,385	206,119	211,064	221,931	26,668,419
Allocation to Growth divided by projected 2055 addtl eu's (21,207)	771,169	951,169	1,040,169	3,305,269	896,169	917,669	964,919	37,367,669	901,919	992,669	2,421,169	2,061,419	9,304,869	3,997,324	896,169	917,669	964,919	115,949,646
NOTES: ASSUMPTION I/I PEAKING FACTORS VISTA 2.5 & HI																		
(1) Master Plan updated every 5 years; ongoing flow monitori																		
(2) Per preliminary hydraulic modeling by Brilliam; 70 percent of se																		
(3) Allowance for pump, blower, oxidation ditch mixer, clarifier mec																		
(4) Allowance for land purchase for land farming of dewatered bios																		
(5) Adapted from estimates presented in PAWSD 20 Year CIP and																		
(6) In 2011 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 beer																		
(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 giveways or marketing of this fertilizer pro																		
(11) I/I focus on highlands during this period.																		
(12) This number is inflated from the Brilliam Engineering Report (8																		
(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, adj																		
(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 r																		
(19) Conversation with PAWSD decided to replace every 5 years (																		
NOTE: Smoke Testing to be included in all I/I Inspection Cate																		
11/21/08 Note: This tab assumes growth rates shown in the o																		