King County Initial Infiltration and Inflow Reduction Project Alternatives Analysis Report

# APPENDIX C. SELECTED ALTERNATIVE SPREADSHEETS

April 2009

## **Alternative BLS-E**

Scenario Description:

Basin: Date: Scenario: BLS 003 7/20/2008 BLS003E Rehabilitation of properties downstream of Meter BLS003A; in northeast section of mini-basin

#### Summary of I/I Removal - Cost Estimates

Description	Quantity	Unit	U	nit Cost		Total Cost
Mains - Pipe Burst (easy)	0	LF	\$	134	\$	-
Mains - Pipe Burst (difficult)	0	LF	\$	314	\$	-
Mains - Pipe Lining (easy)	0	LF	\$	-	\$	-
Mains - Pipe Lining (difficult)	0	LF	\$	-	\$	-
Mains - Open Cut Replacement (easy)	0	LF	\$	-	\$	-
Mains - Open Cut Replacement (difficult)	0	LF	\$	-	\$	-
Manhole Replacement (easy)	0	EA	\$	-	\$	-
Manhole Replacement (difficult)	0	EA	\$	-	\$	-
Lateral Pipe Bursting (easy)	0	EA	\$	-	\$	-
Lateral Pipe Bursting (medium)	0	EA	\$	-	\$	-
Lateral Pipe Bursting (difficult)	0	EA	\$	-	\$	-
Lateral Lining (easy)	0	EA	\$	-	\$	-
Lateral Lining (medium)	0	EA	\$	-	\$	-
Lateral Lining (difficult)	0	EA	\$	-	\$	-
Open Cut Lateral Replacement (easy)	0	EA	\$	-	\$	-
Open Cut Lateral Replacement (medium)	0	EA	\$	-	\$	-
Open Cut Lateral Replacement (difficult)	0	EA	\$	-	\$	-
Side Sewer Pipe Bursting (easy)	0	EA	\$	3,310	\$	-
Side Sewer Pipe Bursting (medium)	0	EA	\$	5,380	\$	-
Side Sewer Pipe Bursting (difficult)	0	EA	\$	6,600	\$	-
Side Sewer Lining (easy)	0	EA	\$	-	\$	-
Side Sewer Lining (medium)	0	EA	\$	-	\$	-
Side Sewer Lining (difficult)	0	EA	\$	-	\$	-
Open Cut Side Sewer Replacement (easy)	0	EA	\$	-	\$	-
Open Cut Side Sewer Replacement (medium)	0	EA	\$	-	\$	-
Open Cut Side Sewer Replacement (difficult)	0	EA	\$	-	\$	-
Lateral/Side Sewer Pipe Bursting (easy)	50	EA	\$	7,295	\$	364,750
Lateral/Side Sewer Pipe Bursting (medium)	13	EA	\$	8,515	\$	110,695
Lateral/Side Sewer Pipe Bursting (difficult)	2	EA	\$	11,220	\$	22,440
Lateral/Side Sewer Lining (easy)	0	EA	\$	-	\$	-
Lateral/Side Sewer Lining (medium)	0	EA	\$	-	\$	-
Lateral/Side Sewer Lining (difficult)	0	EA	\$	-	\$	-
Open Cut Lateral/Side Sewer Replacement (easy)	0	EA	\$	-	\$	-
Open Cut Lateral/Side Sewer Replacement (medium)	0	EA	\$	-	\$	-
Open Cut Lateral/Side Sewer Replacement (difficult)	0	EA	\$	-	\$	-
Direct Disconnects	8	EA	\$	3,000	\$	24,000
				Subtotal	\$	521,885
		Sales Tax		9.0%	\$	46,970
		Constru	ictio	n Subtotal	\$	568,855
		Allied Cost		53.0%	\$	301,493
			Pr	oject Cost	\$	870,348
	(	Contingency		30.0%	\$	261,104
	Total Estimated Project Cost (2007 Dollars) \$					1,131,000

Total Estimated Construction Cost (2007 Dollars) \$	\$ 739,500
Contingency 30.0% \$	\$ 170,656
Construction Subtotal Incl. Sales Tax \$	\$ 568,855

Description	Source	Quantity	Units
General			
Projected 20-year I/I	King County	1.68	MGD
Assumed inflow estimate	Estimated	0.061	MGD
Remaining Basin I/I, (I/I minus inflow)		1.62	MGD
Acres	King County	63.36	ac
I/I per acre		25,556	gpad
Number of properties		232	
Total Quantities in Basin	·		•
Total length of mainlines	CCTV Inspection	13,212	LF
Total number of laterals	Assume one lateral per property.	232	
Total number of side sewers	Assume one side sewer per lateral.	232	
Total number of lateral/side sewers	Assume one side sewer per lateral.	232	
Total number of manholes	GIS		
Total number of direct disconnects	Smoke test results	8	
Total Quantities in Basin - Rehabilitated			
Total length of mainlines - rehabilitated		0	LF
Total number of laterals - rehabilitated		0	
Total number of side sewers - rehabilitated		0	
Total number of lateral/side sewers - rehabilitated		65	
Total number of manholes - rehabilitated		0	
Total number of performed disconnections		8	
Percent Rehabilitated in Basin			
Mainlines rehabilitated		0%	
Laterals rehabilitated		0%	
Side sewers rehabilitated		0%	
Lateral/side sewers rehabilitated		28%	
Manholes rehabilitated		0%	
Performed disconnections		100%	
I/I Allocation in Basin (Private Properties)			
Percentage of private properties in basin over which I/I	Accurrent	000/	
(I/I minus inflow) is to be apportioned	Assumed.	90%	
I/I allocation per property (no degradation)		5	gpm
Number of properties to be rehabilitated		65	
Private property estimated I/I reduction assuming 60%		0.20	MCD
reduction (no degradation)		0.30	MGD
Private property estimated I/I reduction assuming 75%		0.38	MGD
reduction (no degradation)		0.50	MOD
I/I Removal in Basin			
I/I removal due to performed disconnections (100%		0.06	MGD
reduction assumed)		0.00	MOD
I/I removal due to private property rehabilitations (60% I/I		0.30	MGD
reduction assumed per fixed property)		0.00	MOD
I/I removal due to private property rehabilitations (75%		0.38	MGD
reduction assumed per fixed property)		0.00	MOD
Summary: I/I Removal (60% I/I Reduction Assumed for	Private Properties; No Degradation)		
	Total I/I Removal	0.36	MGD
	Minimum Remaining I/I	1.3	MGD
	Minimum Remaining I/I	20,783	gpad
Summary: I/I Removal (75% I/I Reduction Assumed for	Private Properties; No Degradation)		
	Total I/I Removal	0.44	MGD
	Winimum Remaining I/I	1.2	MGD
	Minimum Remaining I/I	19,589	gpad

## **Alternative BLS-E**

Basin: Date: Scenario: BLS 002 7/20/2008 BLS002E

Scenario Description:

Rehabilitation of easy properties in BLS002 that together with Scenario BLS003E provides a minimum of 1.81 mgd removal at 60% removal efficiency

#### Summary of I/I Removal - Cost Estimates

Description	Quantity	Unit	U	nit Cost		Total Cost
Mains - Pipe Burst (easy)	0	LF	\$	134	\$	-
Mains - Pipe Burst (difficult)	0	LF	\$	314	\$	-
Mains - Pipe Lining (easy)	0	LF	\$	-	\$	-
Mains - Pipe Lining (difficult)	0	LF	\$	-	\$	-
Mains - Open Cut Replacement (easy)	0	LF	\$	-	\$	-
Mains - Open Cut Replacement (difficult)	0	LF	\$	-	\$	-
Manhole Replacement (easy)	0	EA	\$	-	\$	-
Manhole Replacement (difficult)	0	EA	\$	-	\$	-
Lateral Pipe Bursting (easy)	0	EA	\$	-	\$	-
Lateral Pipe Bursting (medium)	0	EA	\$	-	\$	-
Lateral Pipe Bursting (difficult)	0	EA	\$	-	\$	-
Lateral Lining (easy)	0	EA	\$	-	\$	-
Lateral Lining (medium)	0	EA	\$	-	\$	-
Lateral Lining (difficult)	0	EA	\$	-	\$	-
Open Cut Lateral Replacement (easy)	0	EA	\$	-	\$	-
Open Cut Lateral Replacement (medium)	0	EA	\$	-	\$	-
Open Cut Lateral Replacement (difficult)	0	EA	\$	-	\$	-
Side Sewer Pipe Bursting (easy)	0	EA	\$	3,310	\$	-
Side Sewer Pipe Bursting (medium)	0	EA	\$	5,380	\$	-
Side Sewer Pipe Bursting (difficult)	0	EA	\$	6,600	\$	-
Side Sewer Lining (easy)	0	EA	\$	-	\$	-
Side Sewer Lining (medium)	0	EA	\$	-	\$	-
Side Sewer Lining (difficult)	0	EA	\$	-	\$	-
Open Cut Side Sewer Replacement (easy)	0	EA	\$	-	\$	-
Open Cut Side Sewer Replacement (medium)	0	EA	\$	-	\$	-
Open Cut Side Sewer Replacement (difficult)	0	EA	\$	-	\$	-
Lateral/Side Sewer Pipe Bursting (easy)	270	EA	\$	7.295	\$	1.969.650
Lateral/Side Sewer Pipe Bursting (medium)	0	EA	\$	8.515	\$	
Lateral/Side Sewer Pipe Bursting (difficult)	0	EA	\$	11.220	\$	-
Lateral/Side Sewer Lining (easy)	0	EA	\$	-	\$	-
Lateral/Side Sewer Lining (medium)	0	EA	\$	-	\$	-
Lateral/Side Sewer Lining (difficult)	0	EA	\$	-	\$	-
Open Cut Lateral/Side Sewer Replacement (easy)	0	EA	\$	-	\$	-
Open Cut Lateral/Side Sewer Replacement (medium)	0	EA	\$	-	\$	-
Open Cut Lateral/Side Sewer Replacement (difficult)	0	EA	\$	-	\$	-
Direct Disconnects	10	EA	\$	3.000	\$	30.000
			Ţ	Subtotal	\$	1.999.650
		Sales Tax		9.0%	\$	179,969
		Constru	uctio	n Subtotal	\$	2 179 619
		Allied Cost		53.0%	\$	1,155,198
			Pr	oject Cost	\$	3 334 816
	(	Contingency		30.0%	Ψ ¢	1 000 445
	Total Ectimated D		(200	30.0%	ф Ф	1,000,440
	i otai Estimated P	IUJECT COST	(200	i Dollars)	Ð	4,333,000

Construction Subtotal In	ncl. Sales Tax	\$ 2,179,619
Contingency	30.0%	\$ 653,886
Total Estimated Construction Cost (2	2007 Dollars)	\$ 2,833,500

Description	Source	Quantity	Units
General			
Projected 20-year I/I	King County	3	MGD
Assumed inflow estimate	Estimated	0.112	MGD
Remaining Basin I/I, (I/I minus inflow)		2.89	MGD
Acres	King County	109	ac
I/I per acre		26,494	gpad
Number of properties		386	
Total Quantities in Basin			
Total length of mainlines	CCTV Inspection	0	LF
Total number of laterals	Assume one lateral per property.	386	
Total number of side sewers	Assume one side sewer per lateral.	386	
Total number of lateral/side sewers	Assume one side sewer per lateral.	386	
Total number of manholes	GIS		
Total number of direct disconnects	Smoke test results	10	
Total Quantities in Basin - Rehabilitated			
Total length of mainlines - rehabilitated		0	LF
Total number of laterals - rehabilitated		0	
Total number of side sewers - rehabilitated		0	
Total number of lateral/side sewers - rehabilitated		270	
Total number of manholes - rehabilitated		0	
Total number of performed disconnections		10	
Percent Rehabilitated in Basin			
Mainlines rehabilitated		0%	
Laterals rehabilitated		0%	
Side sewers rehabilitated		0%	
Lateral/side sewers rehabilitated		70%	
Manholes rehabilitated		0%	
Performed disconnections		100%	
I/I Allocation in Basin (Private Properties)			
Percentage of private properties in basin over which I/I	Assumed	90%	
(I/I minus inflow) is to be apportioned	Assumed.	5070	
I/I allocation per property (no degradation)		5.8	gpm
Number of properties to be rehabilitated		270	
Private property estimated I/I reduction assuming 60%		1.35	MGD
reduction (no degradation)			
Private property estimated in reduction assuming 75%		1.68	MGD
I/I Removal in Basin			
I/I removal due to performed disconnections (100%		0.11	MGD
reduction assumed)			-
I/I removal due to private property rehabilitations (60% I/I		1.35	MGD
reduction assumed per fixed property)			_
I/I removal due to private property rehabilitations (75%		1.68	MGD
reduction assumed per fixed property)	Driver (a Draw antiana Na Drawa datiana)		
Summary: I/I Removal (00% I/I Reduction Assumed for	Trivate Properties; No Degradation)	4.40	MOD
	I Otal I/I Removal	1.46	MGD
	Winimum Remaining I/I Minimum Domoining I/I	1.5	IVIGD
Summervy 1/1 Personal /759/ 1/1 Peduction Accurate	Priveto Proportion: No Degradation	14,139	lgbag
Summary: 1/1 Kemoval (75% 1/1 Reduction Assumed for		4.00	MOD
	I OTAI I/I REMOVAI Minimum Domoining 1/	1.80	
	Minimum Remaining 1/1	14.054	mod
		11,051	gpaa

## **Alternative BLS-F**

Scenario Description:

Basin: Date: Scenario: BLS 002 7/24/2008 BLS002F 3.0 mgd Peak I/I in Basin BLS002. Rehabilitation in BLS002 only that gives 1.81 mgd removal at 60% removal efficiency

## Summary of I/I Removal - Cost Estimates

Description	Quantity	Unit	ι	Jnit Cost		Total Cost
Mains - Pipe Burst (easy)	0	LF	\$	134	\$	-
Mains - Pipe Burst (difficult)	0	LF	\$	314	\$	-
Mains - Pipe Lining (easy)	0	LF	\$	-	\$	-
Mains - Pipe Lining (difficult)	0	LF	\$	-	\$	-
Mains - Open Cut Replacement (easy)	0	LF	\$	-	\$	-
Mains - Open Cut Replacement (difficult)	0	LF	\$	-	\$	-
Manhole Replacement (easy)	0	EA	\$	-	\$	-
Manhole Replacement (difficult)	0	EA	\$	-	\$	-
Lateral Pipe Bursting (easy)	0	EA	\$	-	\$	-
Lateral Pipe Bursting (medium)	0	EA	\$	-	\$	-
Lateral Pipe Bursting (difficult)	0	EA	\$	-	\$	-
Lateral Lining (easy)	0	EA	\$	-	\$	-
Lateral Lining (medium)	0	EA	\$	-	\$	-
Lateral Lining (difficult)	0	EA	\$	-	\$	-
Open Cut Lateral Replacement (easy)	0	EA	\$	-	\$	-
Open Cut Lateral Replacement (medium)	0	EA	\$	-	\$	-
Open Cut Lateral Replacement (difficult)	0	EA	\$	-	\$	-
Side Sewer Pipe Bursting (easy)	0	EA	\$	3,310	\$	-
Side Sewer Pipe Bursting (medium)	0	EA	\$	5,380	\$	-
Side Sewer Pipe Bursting (difficult)	0	EA	\$	6,600	\$	-
Side Sewer Lining (easy)	0	EA	\$	-	\$	-
Side Sewer Lining (medium)	0	EA	\$	-	\$	-
Side Sewer Lining (difficult)	0	EA	\$	-	\$	-
Open Cut Side Sewer Replacement (easy)	0	EA	\$	-	\$	-
Open Cut Side Sewer Replacement (medium)	0	EA	\$	-	\$	-
Open Cut Side Sewer Replacement (difficult)	0	EA	\$	-	\$	-
Lateral/Side Sewer Pipe Bursting (easy)	292	EA	\$	7,295	\$	2,130,140
Lateral/Side Sewer Pipe Bursting (medium)	51	EA	\$	8,515	\$	434,265
Lateral/Side Sewer Pipe Bursting (difficult)	0	EA	\$	11,220	\$	-
Lateral/Side Sewer Lining (easy)	0	EA	\$	-	\$	-
Lateral/Side Sewer Lining (medium)	0	EA	\$	-	\$	-
Lateral/Side Sewer Lining (difficult)	0	EA	\$	-	\$	-
Open Cut Lateral/Side Sewer Replacement (easy)	0	EA	\$	-	\$	-
Open Cut Lateral/Side Sewer Replacement (medium)	0	EA	\$	-	\$	-
Open Cut Lateral/Side Sewer Replacement (difficult)	0	EA	\$	-	\$	-
Direct Disconnects	10	EA	\$	3,000	\$	30,000
				Subtotal	\$	2,594,405
		Sales Tax		9.0%	\$	233,496
		Constru	ictio	on Subtotal	\$	2,827,901
		Allied Cost		53.0%	\$	1,498,788
			P	roject Cost	\$	4,326,689
	(	Contingencv		30.0%	\$	1,298,007
	Total Estimated P	roiect Cost	(20	07 Dollars)	\$	5.625.000
	. eta. Estimatea i	,	1-5		Ŧ	0,020,900

Construction Subtotal	Incl. Sales Tax	\$ 2,827,901
Contingency	30.0%	\$ 848,370
Total Estimated Construction Cost	(2007 Dollars)	\$ 3,676,300

Description	Source	Quantity	Units		
General					
Projected 20-year I/I	King County	3	MGD		
Assumed inflow estimate	Estimated	0.112	MGD		
Remaining Basin I/I, (I/I minus inflow)		2.89	MGD		
Acres	King County	109	ac		
I/I per acre		26,494	gpad		
Number of properties		386			
Total Quantities in Basin	·		•		
Total length of mainlines	CCTV Inspection	0	LF		
Total number of laterals	Assume one lateral per property.	386			
Total number of side sewers	Assume one side sewer per lateral.	386			
Total number of lateral/side sewers	Assume one side sewer per lateral.	386			
Total number of manholes	GIS				
Total number of direct disconnects	Smoke test results	10			
Total Quantities in Basin - Rehabilitated	·		•		
Total length of mainlines - rehabilitated		0	LF		
Total number of laterals - rehabilitated		0			
Total number of side sewers - rehabilitated		0			
Total number of lateral/side sewers - rehabilitated		343			
Total number of manholes - rehabilitated		0			
Total number of performed disconnections		10			
Percent Rehabilitated in Basin			•		
Mainlines rehabilitated		0%			
Laterals rehabilitated		0%			
Side sewers rehabilitated		0%			
Lateral/side sewers rehabilitated		89%			
Manholes rehabilitated		0%			
Performed disconnections		100%			
I/I Allocation in Basin (Private Properties)			•		
Percentage of private properties in basin over which I/I		0.00/			
(I/I minus inflow) is to be apportioned	Assumea.	90%			
I/I allocation per property (no degradation)		5.8	gpm		
Number of properties to be rehabilitated		343			
Private property estimated I/I reduction assuming 60%		1 71			
reduction (no degradation)		1.71	MGD		
Private property estimated I/I reduction assuming 75%		2 1 /	MGD		
reduction (no degradation)		2.14	MGD		
I/I Removal in Basin					
I/I removal due to performed disconnections (100%		0.11	MCD		
reduction assumed)		0.11	MGD		
I/I removal due to private property rehabilitations (60% I/I		1 71	MCD		
reduction assumed per fixed property)		1.71	MGD		
I/I removal due to private property rehabilitations (75%		2 1 /	MGD		
reduction assumed per fixed property)		2.14	MGD		
Summary: I/I Removal (60% I/I Reduction Assumed for Private Properties; No Degradation)					
	Total I/I Removal	1.82	MGD		
	Minimum Remaining I/I	1.2	MGD		
	Minimum Remaining I/I	10,799	gpad		
Summary: I/I Removal (75% I/I Reduction Assumed for	Private Properties; No Degradation)				
	Total I/I Removal	2.25	MGD		
	Minimum Remaining I/I	0.7	MGD		
	Minimum Remaining I/I	6,875	gpad		

# Alternative BEL/ISS-B

Basin: Date: Scenario: Scenario Description: BEL 031 6/22/2008 BEL 031-E 95% of Easy & Medium Lateral & Side Sewer, excl PVC pipe

## Summary of I/I Removal - Cost Estimates

Description	Quantity	Unit	U	Init Cost	Total Cost
Mains - Pipe Burst (easy)	0	LF	\$	-	\$ -
Mains - Pipe Burst (difficult)	0	LF	\$	-	\$ -
Mains - Pipe Lining (easy)	0	LF	\$	-	\$ -
Mains - Pipe Lining (difficult)	0	LF	\$	-	\$ -
Mains - Open Cut Replacement (easy)	0	LF	\$	-	\$ -
Mains - Open Cut Replacement (difficult)	0	LF	\$	-	\$ -
Manhole Replacement (easy)	0	EA	\$	-	\$ -
Manhole Replacement (difficult)	0	EA	\$	-	\$ -
Lateral Pipe Bursting (easy)	0	EA	\$	-	\$ -
Lateral Pipe Bursting (medium)	0	EA	\$	-	\$ -
Lateral Pipe Bursting (difficult)	0	EA	\$	-	\$ -
Lateral Lining (easy)	0	EA	\$	-	\$ -
Lateral Lining (medium)	0	EA	\$	-	\$ -
Lateral Lining (difficult)	0	EA	\$	-	\$ -
Open Cut Lateral Replacement (easy)	0	EA	\$	-	\$ -
Open Cut Lateral Replacement (medium)	0	EA	\$	-	\$ -
Open Cut Lateral Replacement (difficult)	0	EA	\$	-	\$ -
Side Sewer Pipe Bursting (easy)	0	EA	\$	8,052	\$ -
Side Sewer Pipe Bursting (medium)	0	EA	\$	9,047	\$ -
Side Sewer Pipe Bursting (difficult)	0	EA	\$	16,445	\$ -
Side Sewer Lining (easy)	0	EA	\$	-	\$ -
Side Sewer Lining (medium)	0	EA	\$	-	\$ -
Side Sewer Lining (difficult)	0	EA	\$	-	\$ -
Open Cut Side Sewer Replacement (easy)	0	EA	\$	-	\$ -
Open Cut Side Sewer Replacement (medium)	0	EA	\$	-	\$ -
Open Cut Side Sewer Replacement (difficult)	0	EA	\$	-	\$ -
Lateral/Side Sewer Pipe Bursting (easy)	82	EA	\$	9,995	\$ 819,590
Lateral/Side Sewer Pipe Bursting (medium)	25	EA	\$	11,995	\$ 299,875
Lateral/Side Sewer Pipe Bursting (difficult)	0	EA	\$	16,995	\$ -
Lateral/Side Sewer Lining (easy)	0	EA	\$	-	\$ -
Lateral/Side Sewer Lining (medium)	0	EA	\$	-	\$ -
Lateral/Side Sewer Lining (difficult)	0	EA	\$	-	\$ -
Open Cut Lateral/Side Sewer Replacement (easy)	0	EA	\$	-	\$ -
Open Cut Lateral/Side Sewer Replacement (medium)	0	EA	\$	-	\$ -
Open Cut Lateral/Side Sewer Replacement (difficult)	0	EA	\$	-	\$ -
Direct Disconnects	2	EA	\$	3,000	\$ 6,000
				Subtotal	\$ 1,125,465
Sales Tax 9.0%					\$ 101,292
Construction Subtotal					\$ 1,226,757
		Allied Cost		53.0%	\$ 650,181
			Pr	oject Cost	\$ 1,876,938
	C	contingency		30.0%	\$ 563,081
Total Estimated Project Cost (2007 Dollars)					\$ 2,440,000

Construction Subtotal Incl. Sales Ta	x \$	1,226,757
Contingency 30.09	6\$	368,027
Total Estimated Construction Cost (2007 Dollars	)\$	1,594,800

General       King County       1.31       MGD         Projected 20-year I/I       King County       1.31       MGD         Remaining Basin VI, (Ur minus inflow)       Estimated       0.063       MGD         Acres       King County       81.7       ac         I/I per acre       1.25       MGD         Number of properties       213       Total Quantities in Basin         Total august of indexistic severs       Assume one side sever per lateral.       213         Total number of lateraliskide severs       Assume one side sever per lateral.       213         Total number of lateraliskide severs       Assume one side sever per lateral.       213         Total number of lateraliskide severs       Assume one side sever per lateral.       213         Total number of lateraliskide severs - rehabilitated       0       0         Total number of lateraliskide severs - rehabilitated       0       0         Total number of lateraliskide severs - rehabilitated       0       0         Total number of lateraliskide severs - rehabilitated       0       0         Total number of lateraliskide severs - rehabilitated       0       0         Total number of lateraliskide severs - rehabilitated       0%       0         Total number of lateraliskide severs - rehabilitated	Description	Source	Quantity	Units
Projected 20-year //i       King County       1.31       MGD         Assumed inflow estimate       Estimated       0.063       MGD         Acres       King County       81.7       ac         Acres       1.25       MGD         Number of properties       213       Total Quantities in Basin       213         Total Quantities in Basin       CCTV Inspection       14.475 [LF         Total number of laterals       Assume one lateral per property.       213         Total number of laterals       Assume one side sewer per lateral.       213         Total number of laterals/disc sewers       Assume one side sewer per lateral.       213         Total number of lateral/side sewers       Assume one side sewer per lateral.       213         Total number of lateral/side sewers       Assume one side sewer per lateral.       213         Total number of lateral/side sewers       Assume one side sewers rehabilitated       94         Total number of lateral/side sewers       Assume one side sewers rehabilitated       0         Total number of lateral/side sewers       Assume one side sewers rehabilitated       0         Total number of lateral/side sewers       Percent Rehabilitated       0         Total number of lateral/side sewers       Perbabilitated       0         Tota	General			
Assumed inflow estimate       Estimated       0.063       MGD         Remaining Basin VI, (Un minus inflow)       1.25       MGD         Acres       King County       81.7       acres         Vamber of properties       213       213       acres         Total Quantities in Basin       213       Total Quantities in Basin       213       acres         Total anumber of laterals       Assume one side sewer per lateral.       213       acres       acres         Total number of laterals/side sewers       Assume one side sewer per lateral.       213       acres	Projected 20-vear I/I	King County	1.31	MGD
Remaining Basin VI, (VI minus inflow)         Ning         Ning         Ning           Acres         King County         B1.7         ac           Vamber of properties         15.263         gpad           Variable of properties         213         Variable of properties         14.475           Total quantities in Basin         CCTV Inspection         14.475         LF           Total number of laterals         Assume one lateral per property.         213         104           Total number of laterals/de sewers         Assume one side sewer per lateral.         213         104           Total number of laterals/de sewers         Assume one side sewer per lateral.         213         104           Total number of laterals/de sewers         Assume one side sewer per lateral.         213         104           Total number of laterals/de sewers         Assume one side sewers per lateral.         213         104           Total number of laterals/seconnects         Smoke test results         2         104         104         104         107         104         107         104         107         104         107         104         107         104         107         104         107         104         104         104         104         104         104	Assumed inflow estimate	Estimated	0.063	MGD
Acres       King County       81.7       ac.         Ip per acre       15.269       gpad         Number of properties       213         Total Quantities in Basin       213         Total Quantities in Basin       213         Total Ingiti of mainlines       CCTV Inspection       14.475 [LF         Total number of isde severes       Assume one lateral per property.       213         Total number of addresses       GIS       94         Total number of direct disconnects       Smoke test results       21         Total number of alterals - rehabilitated       0       0         Total number of alterals - rehabilitated       0       0         Total number of performed disconnections       0       0         Total number of alterals - rehabilitated       0       0         Total number of patersis - rehabilitated       00       0         Total number of performed disconnections       0       0         Itaria ris rehabilitated	Remaining Basin I/L (I/L minus inflow)		1.25	MGD
In part acre       15.269       gp.ad         Total Quantities in Basin       213         Total Inquit of mainlines       CCTV Inspection       14,475 [LF         Total inquit of alterals       Assume one lateral per property.       213         Total inquit of diatraliside severs       Assume one lateral wide sever per lateral.       213         Total number of diatral/side severs       Assume one side sever per lateral.       213         Total number of diatral/side severs       Assume one side sever per lateral.       213         Total number of diatral/side severs       Assume one side sever per lateral.       213         Total number of diatral/side severs       Assume one side sever per lateral.       213         Total number of diatral/side severs       Assume one side sever per lateral.       213         Total number of diatral/side severs       rehabilitated       0         Total number of side severs       rehabilitated       0         Total number of partomed disconnections       2       2         <	Acres	King County	81.7	ac
Number of properties         213         Description           Total length of mainlines         CCTV Inspection         14,475 [LF           Total number of laterals         Assume one lateral per property.         213           Total number of side severs         Assume one side sever per lateral.         213           Total number of side severs         Assume one side sever per lateral.         213           Total number of anaholes         GIS         94           Total number of direct disconnects         Smoke test results         2           Total number of lateral.         Percent Rehabilitated         0           Total number of lateral.         CILF         101           Total number of lateral.         Percent Rehabilitated         0           Total number of lateral.         0         10           Total number of partomed disconnections         2         2           Percent Rehabilitated         00         0         100           Total number of partomed disconnections         2         2           Percent Rehabilitated         0%         0%         0           Lateral side severs rehabilitated         0%         0%         0           Lateral side severs rehabilitated         0%         0%         0	I/I per acre		15.269	dpad
Total length of mainlines       CCTV Inspection       14,475 LF         Total number of laterals       Assume one lateral per property.       213         Total number of lateral/side sewers       Assume one side sewer per lateral.       213         Total number of lateral/side sewers       Assume one side sewer per lateral.       213         Total number of diateral/side sewers       Assume one side sewer per lateral.       213         Total number of diateral/side sewers       Assume one side sewer per lateral.       213         Total number of diateral/side sewers       Assume one side sewers       94         Total number of diateral/side sewers       Assume one side sewers       94         Total number of diateral/side sewers       Assume one side sewers       94         Total number of diateral/side sewers       Instrument of mainlines - rehabilitated       0         Total number of side sewers       rehabilitated       0         Total number of harder properties       Fenbilitated       0         Side sewers rehabilitated       0%       0%         Lateralsice nebabilitated       0%	Number of properties		213	JF
Total number of mainlines       CCTV Inspection       14.476 [JF         Total number of laterals       Assume one lateral perproperty.       213         Total number of laterals       Assume one side sever per lateral.       213         Total number of laterals       GIS       94         Total number of manholes       GIS       94         Total number of direct disconnects       Smoke test results       2         Total number of manholes       GIS       94         Total number of laterals.       Perbolititated       0         Total number of laterals.       Perbolititated       0         Total number of laterals.       0       0         Total number of perborned disconnections       0%       0	Total Quantities in Basin	·		•
Total number of laterals       Assume one lateral per propenty.       213         Total number of side sewers       Assume one side sewer per lateral.       213         Total number of direct disconnects       Smoke test results       2         Total number of mainlines - rehabilitated       0       F         Total number of side sewers - rehabilitated       0       0         Total number of side sewers - rehabilitated       0       0         Total number of side sewers - rehabilitated       0       0         Total number of side sewers - rehabilitated       0       0         Total number of side sewers - rehabilitated       0       0         Total number of performed disconnections       2       2         Percent Rehabilitated       0%       0         Laterals/side sewers rehabilitated       0%       0%         Inters rehabilitated       0%       0%         Interotion in Basin (Private Properties)	Total length of mainlines	CCTV Inspection	14,475	LF
Total number of side sewers       Assume one side sewer per lateral.       213         Total number of manholes       GIS       94         Total number of direct disconnects       Smoke test results       2         Total number of manholes       GIS       94         Total number of direct disconnects       Smoke test results       2         Total number of manholes       OLLF       0         Total number of laterals: rehabilitated       0       0         Total number of laterals: rehabilitated       0       0         Total number of laterals: rehabilitated       0       0         Total number of performed disconnections       2       2         Percent Rehabilitated       0%       2         Laterals rehabilitated       0%       3         Laterals: rehabilitated       0%       3         Laterals: rehabilitated       0%       3         Laterals: rehabilitated       0%       3         Id allocation per property (not degradation)       5       3         Percentage of private properties in basin over which I/I (I/I       Assumed.       90%         If Allocation ne property (not degradation)       5       3         Number of properties to be rehabilitated       0.0       0      <	Total number of laterals	Assume one lateral per property.	213	
Total number of lateral/side severs       Assume one side sever per lateral.       213         Total number of manhlees       GIS       94         Total number of direct disconnects       Smoke test results       2         Total number of manhlees       0       LF         Total number of direct disconnects       0       0         Total number of laterals - rehabilitated       0       0         Total number of side severs - rehabilitated       0       0         Total number of manhlees - rehabilitated       0       0         Total number of performed disconnections       2       2         Percent Rehabilitated       0%       0%       0         Lateral/side severs rehabilitated       0%       0%       0%         Lateral/side severs rehabilitated       0%       0%       0%         Lateral/side severs rehabilitated       0%       0%       0%         V1 Allocation in Basin (Private Properties)       Assumed.       0%       0%         Percentage of private properting in basin over which I/I (VI V1 Allocation for disco	Total number of side sewers	Assume one side sewer per lateral.	213	
Total number of manholes       GIS       94         Total number of direct disconnects       Smoke test results       2         Total Quantities in Basin - Rehabilitated       0       0         Total number of mainlines - rehabilitated       0       0         Total number of laterals - rehabilitated       0       0         Total number of laterals - rehabilitated       0       0         Total number of manholes - rehabilitated       0       0         Total number of manholes - rehabilitated       0       0         Total number of performed disconnections       2       Percent Rehabilitated       0         Laterals rehabilitated       0%       0       0       0         Side sewers rehabilitated       0%       0%       0%       0%         Laterals rehabilitated       0%       0%       0%       0%       0%         Lateral/side sewers rehabilitated       0%       0%       0%       0%       0%       0%       0%       0%       0%       0%       0%       0%       0%       0%       0%       0%       0%       0%       0%       0%       0%       0%       0%       0%       0%       0%       0%       0%       0%       0%       0%<	Total number of lateral/side sewers	Assume one side sewer per lateral.	213	
Total quantifies in Basin Rehabilitated       0         Total quantifies in Basin rehabilitated       0         Total number of lateral/side sewers - rehabilitated       0         Total number of side sewers - rehabilitated       0         Total number of side sewers - rehabilitated       0         Total number of marholes - rehabilitated       0         Total number of performed disconnections       2         Percent Rehabilitated       0         Mainlines rehabilitated       0%         Lateral/side sewers rehabilitated       0%         Side sewers rehabilitated       0%         Lateral/side severs rehabilitated       0%         Mainlines rehabilitated       0%         Mainlines rehabilitated       0%         Lateral/side severs rehabilitated       0%         Mainlines rehabilitated       0%         Marholes rehabilitated       0%         Performed disconnections       100%         Itateral/side severs rehabilitated       0%         Performed disconnections       100%         Itateral/side severs rehabilitated       0%         Performed disconnections       100%         Itateral/side severs rehabilitated       0%         Itateral/side severs rehabilitated       0%	Total number of manholes	GIS	94	
Total length of mainlines : rehabilitated       0 LF         Total length of mainlines : rehabilitated       0         Total number of laterals : rehabilitated       0         Total number of mainlines : rehabilitated       0         Total number of performed disconnections       2         Percent Rehabilitated       0%         Laterals rehabilitated       0%         Side sewers rehabilitated       0%         Mainlines rehabilitated       0%         Manholes rehabilitated       0%         Manholes rehabilitated       0%         Manholes rehabilitated       0%         Percorntag of private properties in basin over which I/I (I/I       Assumed.         Milalocation per property (no degradation)       0         Number of properties to be rehabilitated       107         Private property estimated I/I reduction assuming 60%       0.42         MGD       0.42         Mire moval due to protections (100%       0.42         VI removal due to property rehabilitations (60% I/I       0.42         MGD       0.52         MGD	Total number of direct disconnects	Smoke test results	2	
Total number of laterals - rehabilitated       0         Total number of laterals - rehabilitated       0         Total number of relaxisd: exewers - rehabilitated       0         Total number of manholes - rehabilitated       0         Total number of performed disconnections       2         Percent Rehabilitated       0%         Laterals rehabilitated       0%         Side sewers rehabilitated       0%         Laterals rehabilitated       0%         Laterals rehabilitated       0%         Laterals/ide sewers rehabilitated       0%         Laterals/ide sewers rehabilitated       0%         Mainlines rehabilitated       0%         Laterals/ide sewers rehabilitated       0%         Mainloes rehabilitated       0%         Markoles rehabilitated       0%         Viral location in Basin (Private Properties)       100%         Viral location in Basin (Private Properties)       100%         Viral location on per property (no degradation)       5 gpm         Number of properties to be rehabilitated       107         Private property estimated Vir leduction assuming 60%       0.42         reduction in Basin       0.52         Vir removal due to private property rehabilitations (60% V/       0.42	Total Quantities in Basin - Rehabilitated			
Total number of laterals - rehabilitated       0         Total number of side sewers - rehabilitated       107         Total number of manholes - rehabilitated       0         Total number of performed disconnections       2         Percent Rehabilitated in Basin       0%         Mainlines rehabilitated       0%         Laterals rehabilitated       0%         Laterals rehabilitated       0%         Laterals rehabilitated       0%         Mainlines rehabilitated       0%         Laterals rehabilitated       0%         Percent Rehabilitated       0%         Manholes rehabilitated       0%         Percentage of private properties in basin over which I/I (I/I       Assumed.         Minus inflow) is to be apportioned       1007         If Allocation in Basin (Private Properties)       Fercentage of private property (no degradation)         Number of property estimated I/I reduction assuming 60%       0.42         If allocation per property stimated I/I reduction assuming 75%       0.52         reduction assumed per fixed property       0.66         I/I removal due to private property rehabilitations (60% I/I       0.42         I/I removal due to private property rehabilitations (75%       0.52         reduction assumed per fixed property)       0.52	Total length of mainlines - rehabilitated		0	LF
Total number of side sewers - rehabilitated       0         Total number of lateral/side sewers - rehabilitated       107         Total number of manholes - rehabilitated       0         Total number of manholes - rehabilitated       0         Mainlines rehabilitated       2         Percent Rehabilitated       0%         Laterals rehabilitated       0%         Side sewers rehabilitated       0%         Lateral/side sewers rehabilitated       0%         Performed disconnections       100%         Manholes rehabilitated       0%         Performed disconnections       100%         If Allocation in Basin (Private Properties)       90%         Performed disconnections       100%         If Allocation in Basin (Private Properties)       90%         Percentage of private properties in basin over which I/I (I/I allocation per property (no degradation)       5 gpm         Number of properties sto be rehabilitated       107         Private property estimated I/I reduction assuming 60%       0.42         reduction (no degradation)       0.52         Private property estimated I/I reduction assuming 75%       0.52         reduction assumed) per former disconnections (100%       0.42         I/I removal due to private property rehabilitations (75%       0.52	Total number of laterals - rehabilitated		0	
Iotal number of lateral/side sewers - rehabilitated       107         Total number of manholes - rehabilitated       0         Total number of performed disconnections       2         Percent Rehabilitated in Basin       0%         Mainlines rehabilitated       0%         Laterals rehabilitated       0%         Side sewers rehabilitated       0%         Manholes rehabilitated       0%         Manholes rehabilitated       0%         Manholes rehabilitated       0%         Percentage of private properties in basin over which I/I (I/I minus inflow) is to be apportioned       Assumed.         Mumber of properties to be rehabilitated       107         Private property estimated I/I reduction assuming 60%       0.42         reduction (no degradation)       0.42         MGD       0.52         VI Removal use to private property rehabilitated       0.52         VI removal due to priomed disconnections (100%       0.42         VI removal due to private property rehabilitations (60% I/I       0.52         VI removal due to private property rehabilitations (75%       0.52         reduction assumed per fixed property)       0.43         VI removal due to private property rehabilitations (75%       0.52         reduction assumed per fixed property)       0.58	Total number of side sewers - rehabilitated		0	
Iotal number of manholes - rehabilitated       0         Total number of performed disconnections       2         Percent Rehabilitated in Basin       0%         Laterals rehabilitated       0%         Laterals rehabilitated       0%         Side sewers rehabilitated       0%         Lateral/side sewers rehabilitated       0%         Mainlines rehabilitated       0%         Performed disconnections       100%         I/I Allocation in Basin (Private Properties)       0%         Performed disconnections       100%         I/I Allocation in Basin (Private Properties)       90%         Performed disconnections       100%         I/I allocation per property (no degradation)       5 gpm         Number of properties to be rehabilitated       107         Private property estimated I/I reduction assuming 60%       0.42         reduction (no degradation)       0.42         Private property estimated I/I reduction assuming 75%       0.52         reduction assumed per fixed property       0.42         I/I removal due to private property rehabilitations (60% I/I       0.42         MGD       0.42         MGD       0.42         MGD       0.42         I/I removal due to private property rehabilitations (75	Total number of lateral/side sewers - rehabilitated		107	
10tal number of performed disconnections       2         Mainlines rehabilitated       0%         Lateral's rehabilitated       0%         Side sewers rehabilitated       0%         Lateral'side sewers rehabilitated       50%         Manholes rehabilitated       0%         Lateral'side sewers rehabilitated       0%         Manholes rehabilitated       0%         Manholes rehabilitated       0%         Performed disconnections       0%         Vir Allocation in Basin (Private Properties)       100%         PercentRage of private properties in basin over which I/I (I/I Assumed.       90%         Vir allocation per property (no degradation)       5 gpm         Number of properties to be rehabilitated       107         Private property estimated I/I reduction assuming 60%       0.42         Private property estimated I/I reduction assuming 75%       0.52         reduction (no degradation)       0.66         VI removal due to performed disconnections (100%       0.42         reduction assumed per fixed property       0.42         VI removal due to private property rehabilitations (60% V/I       0.42         VI removal due to private property rehabilitations (75%       0.52         reduction assumed per fixed property)       0.42	I otal number of manholes - rehabilitated		0	
Mainlines rehabilitated       0%         Laterals rehabilitated       0%         Side sewers rehabilitated       0%         Mainlines rehabilitated       0%         Side sewers rehabilitated       0%         Manholes rehabilitated       0%         Manholes rehabilitated       0%         Performed disconnections       100%         I/I Allocation in Basin (Private Properties)       100%         Percentage of private properties in basin over which I/I (// allocation per property condegradation)       5 gpm         Number of properties to be rehabilitated       00%         Private property estimated I/I reduction assuming 60%       0.42         reduction (no degradation)       0.52         Private property estimated I/I reduction assuming 75%       0.52         reduction assumed per fixed property       0.42         MGD       0.06         MGD       0.06         I/I Removal due to performed disconnections (100%       0.06         reduction assumed per fixed property       0.42         MGD       0.42         MGD       0.52         MGD       0.06         MGD       0.06         MGD       0.06         MGD       0.48         MGD <td>Total number of performed disconnections</td> <td></td> <td>2</td> <td></td>	Total number of performed disconnections		2	
Mainlines rehabilitated 0% Laterals rehabilitated 0% Side sewers rehabilitated 0% Lateral/side sewers rehabilitated 0% Lateral/side sewers rehabilitated 0% Lateral/side sewers rehabilitated 0% Manholes rehabilitated 0% Performed disconnections 100% If Allocation in Basin (Private Properties) Percentage of private properties in basin over which I/I (I/I Assumed. 90% If allocation per property (no degradation) 10 K Number of properties to be rehabilitated 007 Private property estimated I/I reduction assuming 60% reduction (no degradation) 0. Private property estimated I/I reduction assuming 75% reduction (no degradation) 0. If Removal in Basin If removal due to performed disconnections (100% reduction assumed per fixed property) If removal due to private property rehabilitations (60% I/I reduction assumed per fixed property) If removal due to private property rehabilitations (75% reduction assumed per fixed property) If removal (60% I/I Reduction Assumed for Private Properties; No Degradation) Summary: I/I Removal (60% I/I Reduction Assumed for Private Properties; No Degradation) Minimum Remaining I/I 0.35 MGD Minimum Remaining I/I 0.58 MGD Minimum Remaining I/I 0.7 MGD Minimum Remaining I/I 0.7 MGD	Percent Renabilitated in Basin		0.01	1
Lateral's rehabilitated 0% Side sewers rehabilitated 0% Lateral's de sewers rehabilitated 0% Manholes rehabilitated 0% Manholes rehabilitated 0% Performed disconnections 00% If Allocation in Basin (Private Properties) Percentage of private properties in basin over which I/I (I/I minus inflow) is to be apportioned 0% If allocation per property (no degradation) Number of properties to be rehabilitated 107 Private property estimated I/I reduction assuming 60% reduction (no degradation) Private property estimated I/I reduction assuming 75% reduction (no degradation) If Removal due to performed disconnections (100% reduction assumed) If removal due to private property rehabilitations (60% I/I reduction assumed per fixed property) If removal due to private property rehabilitations (75% reduction assumed per fixed property) Summary: If Removal (60% I/I Reduction Assumed for Private Properties; No Degradation) Minimum Remaining I/I 0.8 MGD Minimum Remaining I/I 0.58 MGD Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation) Minimum Remaining I/I 0.7 MGD Minimum Remaining I/I 0.7 MGD Minimum Remaining I/I 0.7 MGD Minimum Remaining I/I 0.7 MGD	Mainlines rehabilitated		0%	
Side sewers rehabilitated       0%         Lateral/side sewers rehabilitated       50%         Manholes rehabilitated       0%         Performed disconnections       100%         // Allocation in Basin (Private Properties)       100%         Performed disconnections       90%         // allocation per properties in basin over which /// (// minus inflow) is to be apportioned       90%         // allocation per property (no degradation)       5 gpm         Number of properties to be rehabilitated       107         Private property estimated //I reduction assuming 60%       0.42         reduction (no degradation)       0.42         Private property estimated //I reduction assuming 75%       0.52         reduction (no degradation)       0.42         // Removal in Basin       0.06         //I removal due to performed disconnections (100%       0.42         reduction assumed)       0.42         //I removal due to private property rehabilitations (60% I/I       0.42         //I removal due to private property rehabilitations (75%       0.52         //I removal due to private property rehabilitations (75%       0.52         //I removal (60% I/I Reduction Assumed for Private Properties; No Degradation)       0.48         /// reduction assumed per fixed property)       0.58 <t< td=""><td>Laterals rehabilitated</td><td></td><td>0%</td><td></td></t<>	Laterals rehabilitated		0%	
Lateral/side sewers rehabilitated       50%         Manholes rehabilitated       0%         Performed disconnections       100%         // Allocation in Basin (Private Properties)       100%         Percentage of private properties in basin over which I/I (I/I minus inflow) is to be apportioned       Assumed.       90%         I/I allocation per property (no degradation)       5 gpm         Number of properties to be rehabilitated       107         Private property estimated I/I reduction assuming 60% reduction (no degradation)       0.42       MGD         Private property estimated I/I reduction assuming 75% reduction (no degradation)       0.52       MGD         I/I removal in Basin       0.52       MGD         I/I removal due to performed disconnections (100% reduction assumed)       0.42       MGD         I/I removal due to private property rehabilitations (60% I/I reduction assumed per fixed property)       0.42       MGD         I/I removal due to private property rehabilitations (75% reduction assumed per fixed property)       0.52       MGD         Summary: I/I Removal (60% I/I Reduction Assumed for Private Properties; No Degradation)       0.8       MGD         Minimum Remaining I/I       0.155       gpad         Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation)       0.58       MGD         Minimu	Side sewers rehabilitated		0%	
Manholes rehabilitated       0%         Performed disconnections       100%         // Allocation in Basin (Private Properties)       Percentage of private properties in basin over which I/I (I/I minus inflow) is to be apportioned       90%         Percentage of private properties in basin over which I/I (I/I minus inflow) is to be apportioned       Assumed.       90%         VII allocation per property (no degradation)       5 gpm         Number of properties to be rehabilitated       107         Private property estimated I/I reduction assuming 60%       0.42         reduction (no degradation)       0.52         Private property estimated I/I reduction assuming 75%       0.52         reduction assumed)       0.06         I/I removal due to performed disconnections (100%       0.06         reduction assumed)       0.42         I/I removal due to private property enhabilitations (60% I/I       0.42         reduction assumed per fixed property       0.42         MGD	Lateral/side sewers rehabilitated		50%	
Performed disconnections       100%         // Allocation in Basin (Private Properties)         Percentage of private properties in basin over which I/I (I/I Assumed.       90%         Minus inflow) is to be apportioned       90%         // allocation per property (no degradation)       5 gpm         Number of properties to be rehabilitated       107         Private property estimated // reduction assuming 60%       0.42         reduction (no degradation)       0.52         Private property estimated // reduction assuming 75%       0.52         reduction (no degradation)       0.06         // Removal in Basin       0.06         // Removal due to performed disconnections (100%       0.06         reduction assumed)       0.42         // removal due to private property rehabilitations (60% I/I       0.42         reduction assumed per fixed property)       0.42         // removal due to private property rehabilitations (75%       0.52         reduction assumed per fixed property)       0.42         /// removal due to private property rehabilitations (75%       0.52         reduction assumed per fixed property)       0.48         Summary: I/I Removal (60% I/I Reduction Assumed for Private Properties; No Degradation)       0.48         Minimum Remaining I/I       0.18 <t< td=""><td>Manholes rehabilitated</td><td></td><td>0%</td><td></td></t<>	Manholes rehabilitated		0%	
I/I Allocation in Basin (Private Properties)         Percentage of private properties in basin over which I/I (I/I allocation per property (no degradation)       Assumed.       90%         I/I allocation per property (no degradation)       5 gpm         Number of properties to be rehabilitated       107         Private property estimated I/I reduction assuming 60% reduction (no degradation)       0.42 MGD         Private property estimated I/I reduction assuming 75% reduction (no degradation)       0.52 MGD         VI Removal in Basin       0.52 MGD         I/I removal due to performed disconnections (100% reduction assumed)       0.06 MGD         I/I removal due to performed disconnections (100% reduction assumed)       0.42 MGD         I/I removal due to private property rehabilitations (60% I/I reduction assumed)       0.42 MGD         I/I removal due to private property rehabilitations (60% I/I reduction assumed per fixed property)       0.42 MGD         I/I removal due to private property rehabilitations (75% reduction assumed per fixed property)       0.52 MGD         Summary: I/I Removal (60% I/I Reduction Assumed for Private Properties; No Degradation)       0.8 MGD         Minimum Remaining I/I       0.8 MGD         Minimum Remaining I/I       0.7 MGD         Minimum Remaining I/I       0.7 MGD	Performed disconnections		100%	
Percentage of private properties in basin over which I/I (I/I minus inflow) is to be apportioned       Assumed.       90%         I/I allocation per property (no degradation)       5 gpm         Number of properties to be rehabilitated       107         Private property estimated I/I reduction assuming 60% reduction (no degradation)       0.42       MGD         Private property estimated I/I reduction assuming 75% reduction (no degradation)       0.52       MGD         VI Removal in Basin       0.52       MGD         VI removal due to performed disconnections (100% reduction assumed)       0.06       MGD         VI removal due to private property rehabilitations (60% I/I reduction assumed)       0.42       MGD         VI removal due to private property rehabilitations (75% reduction assumed per fixed property)       0.42       MGD         VI removal due to private property rehabilitations (75% reduction assumed per fixed property)       0.52       MGD         Summary: I/I Removal (60% I/I Reduction Assumed for Private Properties; No Degradation)       0.8       MGD         Minimum Remaining V/I       0.8       MGD       Minimum Remaining V/I       0.58       MGD         Summary: I/I Removal (75% V/I Reduction Assumed for Private Properties; No Degradation)       Total V/I Removal       0.58       MGD         Minimum Remaining V/I       0.7       MGD       Minimum Remaining V/	I/I Allocation in Basin (Private Properties)			
minus inflow) is to be apportioned       Assumed.       90%         I/I allocation per property (no degradation)       5 gpm         Number of properties to be rehabilitated       107         Private property estimated I/I reduction assuming 60%       0.42         reduction (no degradation)       0.42         Private property estimated I/I reduction assuming 75%       0.52         reduction (no degradation)       0.52         I/I Removal in Basin       0.06         I/I removal due to performed disconnections (100%       0.06         reduction assumed)       0.42         I/I removal due to private property rehabilitations (60% I/I       0.42         reduction assumed per fixed property       0.42         I/I removal due to private property rehabilitations (75%       0.52         reduction assumed per fixed property       0.52         I/I removal (60% I/I Reduction Assumed for Private Properties; No Degradation)       0.52         Summary: I/I Removal (60% I/I Reduction Assumed for Private Properties; No Degradation)       0.48         Minimum Remaining I/I       0.48         Minimum Remaining I/I       0.7         Minimum Remaining I/I       0.7         Minimum Remaining I/I       0.7         Minimum Remaining I/I       0.7         Minimum Remaining I/	Percentage of private properties in basin over which I/I (I/I	Accurred	000/	
I/I allocation per property (no degradation)       5 gpm         Number of properties to be rehabilitated       107         Private property estimated I/I reduction assuming 60%       0.42 MGD         reduction (no degradation)       0.52 MGD         Private property estimated I/I reduction assuming 75%       0.52 MGD         reduction (no degradation)       0.66 MGD         I/I Removal in Basin       0.06 MGD         I/I removal due to performed disconnections (100% reduction assumed)       0.06 MGD         I/I removal due to performed disconnections (100% reduction assumed per fixed property)       0.42 MGD         I/I removal due to private property rehabilitations (60% I/I reduction assumed per fixed property)       0.42 MGD         I/I removal due to private property rehabilitations (75% reduction assumed per fixed property)       0.52 MGD         Summary: I/I Removal (60% I/I Reduction Assumed for Private Properties; No Degradation)       0.48 MGD         Minimum Remaining I/I       0.48 MGD         Minimum Remaining I/I       0.155 gpad         Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation)       Total I/I Removal       0.58 MGD         Minimum Remaining I/I       0.7 MGD       Minimum Remaining I/I       0.7 MGD	minus inflow) is to be apportioned	Assumed.	90%	
Number of properties to be rehabilitated       107         Private property estimated I/I reduction assuming 60%       0.42         reduction (no degradation)       0.52         Private property estimated I/I reduction assuming 75%       0.52         reduction (no degradation)       0.60         I/I Removal in Basin       0.06         I/I removal due to performed disconnections (100%       0.06         reduction assumed)       0.06         I/I removal due to private property rehabilitations (60% I/I       0.42         reduction assumed per fixed property)       0.42         I/I removal due to private property rehabilitations (75%       0.52         reduction assumed per fixed property)       0.42         I/I removal due to private property rehabilitations (75%       0.52         reduction assumed per fixed property)       0.48         I/I removal (60% I/I Reduction Assumed for Private Properties; No Degradation)       0.48         MGD       Minimum Remaining I/I       0.48         MGD       Minimum Remaining I/I       0.58         Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation)       0.58         MGD       Minimum Remaining I/I       0.58         MGD       Minimum Remaining I/I       0.58         MGD       Mini	I/I allocation per property (no degradation)		5	gpm
Private property estimated I/I reduction assuming 60% reduction (no degradation)       0.42       MGD         Private property estimated I/I reduction assuming 75% reduction (no degradation)       0.52       MGD         // Removal in Basin       0.52       MGD         // removal due to performed disconnections (100% reduction assumed)       0.06       MGD         // removal due to performed disconnections (100% reduction assumed)       0.06       MGD         // removal due to private property rehabilitations (60% I/I reduction assumed per fixed property)       0.42       MGD         // removal due to private property rehabilitations (75% reduction assumed per fixed property)       0.52       MGD         // removal due to private property rehabilitations (75% reduction assumed per fixed property)       0.52       MGD         // removal (60% I/I Reduction Assumed for Private Properties; No Degradation)       0.48       MGD         Summary: I/I Removal (60% I/I Reduction Assumed for Private Properties; No Degradation)       0.48       MGD         Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation)       0.58       MGD         Minimum Remaining I/I       0.58       MGD       MGD         Minimum Remaining I/I       0.7       MGD       MGD         Minimum Remaining I/I       0.7       MGD       MGD      <	Number of properties to be rehabilitated		107	
reduction (no degradation)       0.42       MGD         Private property estimated I/I reduction assuming 75% reduction (no degradation)       0.52       MGD         I/I Removal in Basin       0.06       MGD         I/I removal due to performed disconnections (100% reduction assumed)       0.06       MGD         I/I removal due to private property rehabilitations (60% I/I reduction assumed per fixed property)       0.42       MGD         I/I removal due to private property rehabilitations (75% reduction assumed per fixed property)       0.52       MGD         I/I removal due to private property rehabilitations (75% reduction assumed per fixed property)       0.52       MGD         Summary: I/I Removal (60% I/I Reduction Assumed for Private Properties; No Degradation)       0.48       MGD         Minimum Remaining I/I       0.8       MGD         Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation)       10,155       gpad         Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation)       0.58       MGD         Minimum Remaining I/I       0.58       MGD         Minimum Remaining I/I       0.58       MGD         Minimum Remaining I/I       0.7       MGD         Minimum Remaining I/I       0.7       MGD	Private property estimated I/I reduction assuming 60%		0.42	MGD
Private property estimated I/I reduction assuming 75% reduction (no degradation)       0.52       MGD         I/I Removal in Basin       0.06       MGD         I/I removal due to performed disconnections (100% reduction assumed)       0.06       MGD         I/I removal due to private property rehabilitations (60% I/I reduction assumed per fixed property)       0.42       MGD         I/I removal due to private property rehabilitations (75% reduction assumed per fixed property)       0.52       MGD         I/I removal due to private property rehabilitations (75% reduction assumed per fixed property)       0.52       MGD         Summary: I/I Removal (60% I/I Reduction Assumed for Private Properties; No Degradation)       0.48       MGD         Minimum Remaining I/I       0.155       gpad         Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation)       10,155       gpad         Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation)       0.58       MGD         Minimum Remaining I/I       0.58       MGD       0.58       MGD         Minimum Remaining I/I       0.7       MGD       0.58       MGD       MGD	reduction (no degradation)		0.42	MOD
reduction (no degradation)       0.32 MGD         I/I Removal in Basin       0.06 MGD         I/I removal due to performed disconnections (100% reduction assumed)       0.06 MGD         I/I removal due to private property rehabilitations (60% I/I reduction assumed per fixed property)       0.42 MGD         I/I removal due to private property rehabilitations (75% reduction assumed per fixed property)       0.52 MGD         I/I removal due to private property rehabilitations (75% reduction assumed per fixed property)       0.52 MGD         Summary: I/I Removal (60% I/I Reduction Assumed for Private Properties; No Degradation)       0.48 MGD         Minimum Remaining I/I       0.15 gpad         Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation)       10,155 gpad         Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation)       0.58 MGD         Minimum Remaining I/I       0.58 MGD         Minimum Remaining I/I       0.7 MGD         Minimum Remaining I/I       0.7 MGD         Minimum Remaining I/I       0.7 MGD	Private property estimated I/I reduction assuming 75%		0.52	MGD
I/I Removal in Basin         I/I removal due to performed disconnections (100% reduction assumed)       0.06       MGD         I/I removal due to private property rehabilitations (60% I/I reduction assumed per fixed property)       0.42       MGD         I/I removal due to private property rehabilitations (75% reduction assumed per fixed property)       0.52       MGD         I/I removal due to private property rehabilitations (75% reduction assumed per fixed property)       0.52       MGD         Summary: I/I Removal (60% I/I Reduction Assumed for Private Properties; No Degradation)       0.48       MGD         Minimum Remaining I/I       0.155       gpad         Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation)       10,155       gpad         Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation)       0.58       MGD         Minimum Remaining I/I       10,155       gpad         Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation)       0.58       MGD         Minimum Remaining I/I       0.7       MGD       0.7       MGD	reduction (no degradation)		0.52	MGD
I/I removal due to performed disconnections (100%       0.06       MGD         reduction assumed)       0.42       MGD         I/I removal due to private property rehabilitations (60% I/I       0.42       MGD         reduction assumed per fixed property)       0.52       MGD         I/I removal due to private property rehabilitations (75%       0.52       MGD         reduction assumed per fixed property)       0.52       MGD         Summary: I/I Removal (60% I/I Reduction Assumed for Private Properties; No Degradation)       0.48       MGD         Minimum Remaining I/I       0.155       gpad         Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation)       10,155       gpad         Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation)       0.58       MGD         Minimum Remaining I/I       0.58       MGD       MGD         Minimum Remaining I/I       0.58       MGD       MGD         Minimum Remaining I/I       0.58       MGD       MGD	I/I Removal in Basin			
reduction assumed)       0.06 MGD         I/I removal due to private property rehabilitations (60% I/I)       0.42 MGD         reduction assumed per fixed property)       0.52 MGD         I/I removal due to private property rehabilitations (75% reduction assumed per fixed property)       0.52 MGD         Summary: I/I Removal (60% I/I Reduction Assumed for Private Properties; No Degradation)       0.48 MGD         Minimum Remaining I/I       0.8 MGD         Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation)       10.155 gpad         Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation)       0.58 MGD         Minimum Remaining I/I       0.58 MGD         Minimum Remaining I/I       0.7 MGD         Minimum Remaining I/I       0.7 MGD         Minimum Remaining I/I       0.7 MGD	I/I removal due to performed disconnections (100%		0.00	MOD
I/I removal due to private property rehabilitations (60% I/I reduction assumed per fixed property)       0.42       MGD         I/I removal due to private property rehabilitations (75% reduction assumed per fixed property)       0.52       MGD         Summary: I/I Removal (60% I/I Reduction Assumed for Private Properties; No Degradation)       0.48       MGD         Total I/I Removal       0.48       MGD         Minimum Remaining I/I       0.155       gpad         Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation)       10,155       gpad         Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation)       0.58       MGD         Minimum Remaining I/I       0.70       MGD       0.58       MGD         Minimum Remaining I/I       0.7       MGD       0.7       MGD	reduction assumed)		0.06	MGD
reduction assumed per fixed property)       0.42 MGD         I/I removal due to private property rehabilitations (75% reduction assumed per fixed property)       0.52 MGD         Summary: I/I Removal (60% I/I Reduction Assumed for Private Properties; No Degradation)       0.48 MGD         Minimum Remaining I/I       0.8 MGD         Minimum Remaining I/I       10,155 gpad         Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation)       10,155 gpad         Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation)       0.58 MGD         Minimum Remaining I/I       0.58 MGD         Minimum Remaining I/I       0.7 MGD         Minimum Remaining I/I       0.7 MGD         Minimum Remaining I/I       0.7 MGD	I/I removal due to private property rehabilitations (60% I/I		0.40	MOD
I/I removal due to private property rehabilitations (75% reduction assumed per fixed property)       0.52       MGD         Summary: I/I Removal (60% I/I Reduction Assumed for Private Properties; No Degradation)       Total I/I Removal       0.48       MGD         Minimum Remaining I/I       0.8       MGD       MGD         Minimum Remaining I/I       10,155       gpad         Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation)       10,155       gpad         Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation)       0.58       MGD         Minimum Remaining I/I       0.58       MGD         Minimum Remaining I/I       0.7       MGD         Minimum Remaining I/I       0.7       MGD         Minimum Remaining I/I       0.7       MGD	reduction assumed per fixed property)		0.42	MGD
reduction assumed per fixed property)       0.52 MGD         Summary: I/I Removal (60% I/I Reduction Assumed for Private Properties; No Degradation)       Total I/I Removal       0.48 MGD         Minimum Remaining I/I       0.8 MGD       Minimum Remaining I/I       10,155 gpad         Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation)       Total I/I Removal       0.58 MGD         Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation)       Total I/I Removal       0.58 MGD         Minimum Remaining I/I       0.7 MGD       Minimum Remaining I/I       0.7 MGD	I/I removal due to private property rehabilitations (75%		0.50	MOD
Summary: I/I Removal (60% I/I Reduction Assumed for Private Properties; No Degradation) Total I/I Removal 0.48 MGD Minimum Remaining I/I 0.8 MGD Minimum Remaining I/I 10,155 gpad Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation) Total I/I Removal 0.58 MGD Minimum Remaining I/I 0.7 MGD Minimum Remaining I/I 8.877 gpad	reduction assumed per fixed property)		0.52	MGD
Total I/I Removal       0.48 MGD         Minimum Remaining I/I       0.8 MGD         Minimum Remaining I/I       10,155 gpad         Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation)       Total I/I Removal       0.58 MGD         Minimum Remaining I/I       0.7 MGD       Minimum Remaining I/I       0.7 MGD         Minimum Remaining I/I       8.877 gpad	Summary: I/I Removal (60% I/I Reduction Assumed for	Private Properties; No Degradation)		
Minimum Remaining I/I       0.8       MGD         Minimum Remaining I/I       10,155       gpad         Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation)       0.58       MGD         Total I/I Removal       0.58       MGD         Minimum Remaining I/I       0.7       MGD         Minimum Remaining I/I       0.7       MGD         Minimum Remaining I/I       0.7       MGD		Total I/I Removal	0.48	MGD
Minimum Remaining I/l         10,155         gpad           Summary: I/l Removal (75% I/l Reduction Assumed for Private Properties; No Degradation)         Total I/l Removal         0.58         MGD           Minimum Remaining I/l         0.7         MGD         MGD         Minimum Remaining I/l         0.7         MGD           Minimum Remaining I/l         0.7         MGD         Mapad         Mapad         0.7         MGD		Minimum Remaining I/I	0.8	MGD
Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation) Total I/I Removal 0.58 MGD Minimum Remaining I/I 0.7 MGD Ninimum Remaining I/I 8.877 gpad		Minimum Remaining I/I	10,155	gpad
Total I/I Removal     0.58 MGD       Minimum Remaining I/I     0.7 MGD       Minimum Remaining I/I     8.877 gpad	Summary: I/I Removal (75% I/I Reduction Assumed for	Private Properties; No Degradation)	-,	
Minimum Remaining I/I         0.7         MGD           Minimum Remaining I/I         8.877         apad		Total I/I Removal	0.58	MGD
Minimum Remaining I/I 8.877 lapad		Minimum Remaining I/I	0.7	MGD
		Minimum Remaining I/I	8,877	qpad

# Alternative BEL/ISS-B

Basin: Date: Scenario: Scenario Description: ISS 003 6/20/2008 ISS 003D (2) Rehabilitation of Easy and Medium properties

#### Summary of I/I Removal - Cost Estimates

Description	Quantity	Unit	U	nit Cost		Total Cost
Mains - Pipe Burst (easy)	0	LF	\$	-	\$	-
Mains - Pipe Burst (difficult)	0	LF	\$	-	\$	-
Mains - Pipe Lining (easy)	0	LF	\$	-	\$	-
Mains - Pipe Lining (difficult)	0	LF	\$	-	\$	-
Mains - Open Cut Replacement (easy)	0	LF	\$	-	\$	-
Mains - Open Cut Replacement (difficult)	0	LF	\$	-	\$	-
Manhole Replacement (easy)	0	EA	\$	-	\$	-
Manhole Replacement (difficult)	0	EA	\$	-	\$	-
Lateral Pipe Bursting (easy)	0	EA	\$	-	\$	-
Lateral Pipe Bursting (medium)	0	EA	\$	-	\$	-
Lateral Pipe Bursting (difficult)	0	EA	\$	-	\$	-
Lateral Lining (easy)	0	EA	\$	-	\$	-
Lateral Lining (medium)	0	EA	\$	-	\$	-
Lateral Lining (difficult)	0	EA	\$	-	\$	-
Open Cut Lateral Replacement (easy)	0	EA	\$	-	\$	-
Open Cut Lateral Replacement (medium)	0	EA	\$	-	\$	-
Open Cut Lateral Replacement (difficult)	0	EA	\$	-	\$	-
Side Sewer Pipe Bursting (easy)	0	EA	\$	8,052	\$	-
Side Sewer Pipe Bursting (medium)	0	EA	\$	9,047	\$	-
Side Sewer Pipe Bursting (difficult)	0	EA	\$	16,445	\$	-
Side Sewer Lining (easy)	0	EA	\$	-	\$	-
Side Sewer Lining (medium)	0	EA	\$	-	\$	-
Side Sewer Lining (difficult)	0	EA	\$	-	\$	-
Open Cut Side Sewer Replacement (easy)	0	EA	\$	-	\$	-
Open Cut Side Sewer Replacement (medium)	0	EA	\$	-	\$	-
Open Cut Side Sewer Replacement (difficult)	0	EA	\$	-	\$	-
Lateral/Side Sewer Pipe Bursting (easy)	37	EA	\$	9,995	\$	369,815
Lateral/Side Sewer Pipe Bursting (medium)	76	EA	\$	11,995	\$	911,620
Lateral/Side Sewer Pipe Bursting (difficult)	0	EA	\$	16,995	\$	-
Lateral/Side Sewer Lining (easy)	0	EA	\$	-	\$	-
Lateral/Side Sewer Lining (medium)	0	EA	\$	-	\$	-
Lateral/Side Sewer Lining (difficult)	0	EA	\$	-	\$	-
Open Cut Lateral/Side Sewer Replacement (easy)	0	EA	\$	-	\$	-
Open Cut Lateral/Side Sewer Replacement (medium)	0	EA	\$	-	\$	-
Open Cut Lateral/Side Sewer Replacement (difficult)	0	EA	\$	-	\$	-
Direct Disconnects	1	EA	\$	3,000	\$	3,000
				Subtotal	\$	1,284,435
		Sales Tax		9.0%	\$	115,599
Construction Subtotal						1,400,034
		Allied Cost		53.0%	\$	742,018
			Pr	oject Cost	\$	2,142,052
	(	Contingency		30.0%	\$	642,616
	Total Estimated P	roject Cost	(200	7 Dollars)	\$	2,785,000

Construction Subtotal Incl. Sales Tax	\$ 1,400,034
Contingency 30.0%	\$ 420,010
Total Estimated Construction Cost (2007 Dollars)	\$ 1,820,000

Description	Source	Quantity	Units					
General								
Projected 20-year I/I	King County	0.65	MGD					
Assumed inflow estimate	Estimated	0.013	MGD					
Remaining Basin I/I, (I/I minus inflow)		0.64	MGD					
Acres	King County	81.4	ac					
I/I per acre	<b>3</b> • • • <b>7</b>	7,826	gpad					
Number of properties		133						
Total Quantities in Basin	•		•					
Total length of mainlines	CCTV Inspection	16,056	LF					
Total number of laterals	Assume one lateral per property.	133						
Total number of side sewers	Assume one side sewer per lateral.	133						
Total number of lateral/side sewers	Assume one side sewer per lateral.	133						
Total number of manholes	GIS							
Total number of direct disconnects	Smoke test results	1						
Total Quantities in Basin - Rehabilitated	•							
Total length of mainlines - rehabilitated		0	LF					
Total number of laterals - rehabilitated		0						
Total number of side sewers - rehabilitated		0						
Total number of lateral/side sewers - rehabilitated		113						
Total number of manholes - rehabilitated		0						
Total number of performed disconnections		1						
Percent Rehabilitated in Basin	•							
Mainlines rehabilitated		0%						
Laterals rehabilitated		0%						
Side sewers rehabilitated		0%						
Lateral/side sewers rehabilitated		85%						
Manholes rehabilitated		0%						
Performed disconnections		100%						
I/I Allocation in Basin (Private Properties)			•					
Percentage of private properties in basin over which I/I	Assumed	0.00/						
(I/I minus inflow) is to be apportioned	Assumed.	90%						
I/I allocation per property (no degradation)		3.7	gpm					
Number of properties to be rehabilitated		113						
Private property estimated I/I reduction assuming 60%		0.20						
reduction (no degradation)		0.36	MGD					
Private property estimated I/I reduction assuming 75%		0.45	MCD					
reduction (no degradation)		0.45	MGD					
I/I Removal in Basin								
I/I removal due to performed disconnections (100%		0.01	МСР					
reduction assumed)		0.01	MGD					
I/I removal due to private property rehabilitations (60% I/I		0.36	мар					
reduction assumed per fixed property)		0.50	MGD					
I/I removal due to private property rehabilitations (75%		0.45	MGD					
reduction assumed per fixed property)		0.45	MGD					
Summary: I/I Removal (60% I/I Reduction Assumed for Private Properties; No Degradation)								
	Total I/I Removal	0.37	MGD					
	Minimum Remaining I/I	0.3	MGD					
	Minimum Remaining I/I	3,393	gpad					
Summary: I/I Removal (75% I/I Reduction Assumed for Private Properties; No Degradation)								
	Total I/I Removal	0.46	MGD					
	Minimum Remaining I/I	0.2	MGD					
	Minimum Remaining I/I	2,285	gpad					