#### Table 1 Number of Sources in SDWIS by Water System Size (In Terms of Service Connection Group)

Source Type	SWS (<200 Svc. Conn.)	LWS (≥200 Svc. Conn.)
Groundwater	5,231	6,488
Surface Water	488	743
Subtotal	5,719	7,231

<u>Acronyms</u> LWS- Large Water System SDWIS- Safe Drinking Water Information System SWS- Small Water system

SAMPLE ANALYSIS COST	\$132/sample
EQUATIONS USED	
Initial Monitoring	
All system types	4 quarterly samples * \$132 * per source
Standby Sources	1 sample (triennial) * \$132 * per source
Routine Monitoring	
<=3,300 population	1 sample (triennial) * \$132 / 3 years (to annualize) * per source
>3,300 population	2 samples (triennial) * \$132 / 3 years (to annualize) * per source
Increased Monitoring	
<=3,300 population	4 quarterly samples/year * \$132 * per source
>3,300 population	(6 monthly samples + 2 quarterly samples)/year * \$132 * per source
	Year 2+ = 4 quarterly samples/year * 132 * per source
Treated Monitoring	
All system types	(12 monthly treated samples + 4 quarterly raw samples)/year * \$132 * per source

ALL MCL OPTIONS													
Initial Monitoring - sources wit	Initial Monitoring - sources without detections												
	Source Count <u>Total Cost (\$)</u>												
Water type\# Svc Conn	<200	>=200	<200	>=200									
Groundwater	5048	5827	\$2,665,344	\$3,076,656									
Surface Water	483	726	\$255,024	\$383,328									
Initial Monitoring - standby so	Initial Monitoring - standby sources												
	Source	e Count	<u>Total</u>	<u>Cost (\$)</u>									
Water type\# Svc Conn	<200	>=200	<200	>=200									
Groundwater	137	241	\$18,084	\$31,812									
Surface Water	4	13	\$528	\$1,716									
Routine Monitoring - sources v	without det	ections											
	<u>Source</u>	e Count	<u>Total (</u>	<u>Cost (\$)</u>									
Water type\# Svc Conn	<200	>=200	<200	>=200									
Groundwater <=3,300 pop	5016	1162	\$220,704	\$51,128									
Groundwater >3,300 pop	32	4665	\$2,816	\$410,520									
Surface Water <=3,300 pop	478	185	\$21,032	\$8,140									
Surface Water >3,300 pop	5	541	\$440	\$47,608									

#### Acronyms:

MCL - Maximum Contaminant Level NA - Not Applicable pop - population ppt - parts per trillion Svc Conn- Service Connection

MCL = 5 ppt	c not roa	uiring troot	mont			
Increased Monitoring - source		e Count		st (\$) Year 1	Total Cos	t (\$) Year 2
Water Type\# Svc Conn	<200	>=200	<200	>=200	<200	>=200
Groundwater <=3,300 pop	10	6	\$5,280	\$3,168	\$5,280	\$3,168
Groundwater >3,300 pop	0	158	\$0	\$83,424	\$0	\$83,424
Surface Water <=3,300 pop	1	0	\$528	\$0	\$528	\$0
Surface Water >3,300 pop	0	4	\$0	\$2,112	\$0	\$2,112
Increased Monitoring - source	es requirir	ng treatmei	<u>nt</u>			
	<u>Sourc</u>	e Count	Total Cos	st (\$) Year 1	Total Cos	t (\$) Year 2
Water type\# Svc Conn	<200	>=200	<200	>=200	<200	>=200
Groundwater <=3,300 pop	36	9	\$19,008	\$4,752	NA	NA
Groundwater >3,300 pop	0	220	\$0	\$232,320	NA	NA
Surface Water <=3,300 pop	0	0	\$0	\$0	NA	NA
Surface Water >3,300 pop	0	0	\$0	\$0	NA	NA
Treated Monitoring - sources	requiring	treatment				
	<u>Sourc</u>	e Count	Total Cos	st (\$) Year 1	Total Cos	t (\$) Year 2
Water type\# Svc Conn	<200	>=200	<200	>=200	<200	>=200
Groundwater <=3,300 pop	36	9	NA	NA	\$76 <i>,</i> 032	\$19 <i>,</i> 008
Groundwater >3,300 pop	0	220	NA	NA	\$0	\$464,640
Surface Water <=3,300 pop	0	0	NA	NA	\$0	\$0
Surface Water >3,300 pop	0	0	NA	NA	\$0	\$0
Increased Monitoring - currer						
		<u>e Count</u>	-	st (\$) Year 1		t (\$) Year 2
Water type\# Svc Conn	<200	>=200	<200	>=200	<200	>=200
Groundwater <=3,300 pop	0	0	NA	NA	NA	NA
Groundwater >3,300 pop	0	3	NA	\$1,584	NA	\$1,584
Surface Water <=3,300 pop	0	0	NA	NA	NA	NA
Surface Water >3,300 pop	0	0	NA	NA	NA	NA
Treated Monitoring - treated						
		<u>e Count</u>		st (\$) Year 1	-	t (\$) Year 2
Water type\# Svc Conn	<200	>=200	<200	>=200	<200	>=200
Groundwater <=3,300 pop	0	0	\$0	\$0	\$0	\$0
Groundwater >3,300 pop	0	24	\$0	\$50,688	\$0	\$50,688
Surface Water <=3,300 pop	0	0	\$0	\$0	\$0	\$0
Surface Water >3,300 pop	0	0	\$0	\$0	\$0	\$0

MCL = 7 ppt						
Increased Monitoring - source	-	-				
		<u>e Count</u>		st (\$) Year 1		st (\$) Year 2
<u>Water type\# Svc Conn</u>	<200	>=200	<200	>=200	<200	>=200
Groundwater <=3,300 pop	13	9	\$6,864	\$4,752	\$6,864	\$4,752
Groundwater >3,300 pop	0	195	\$0	\$102,960	\$0	\$102,960
Surface Water <=3,300 pop	1	0	\$528	\$0	\$528	\$0
Surface Water >3,300 pop	0	4	\$0	\$2,112	\$0	\$2,112
Increased Monitoring - source	s requiring	<u>treatment</u>				
	Source	e Count	Total Cos	st (\$) Year 1	Total Cos	st (\$) Year 2
Water type\# Svc Conn	<200	>=200	<200	>=200	<200	>=200
Groundwater <=3,300 pop	33	6	\$17,424	\$3,168	NA	NA
Groundwater >3,300 pop	0	183	\$0	\$193,248	NA	NA
Surface Water <=3,300 pop	0	0	\$0	\$0	NA	NA
Surface Water >3,300 pop	0	0	\$0	\$0	NA	NA
Treated Monitoring - sources r	equiring tr	reatment				
	Source	e Count	Total Cos	st (\$) Year 1	Total Cost (\$) Yea	
Water type\# Svc Conn	<200	>=200	<200	>=200	<200	>=200
Groundwater <=3,300 pop	33	6	NA	NA	\$69,696	\$12 <i>,</i> 672
Groundwater >3,300 pop	0	183	NA	NA	\$0	\$386,496
Surface Water <=3,300 pop	0	0	NA	NA	\$0	\$0
Surface Water >3,300 pop	0	0	NA	NA	\$0	\$0
Increased Monitoring - current	-					
		e Count		Cost (\$) Year 1 <u>Total Cost (</u>		
<u>Water type\# Svc Conn</u>	<200	>=200	<200	>=200	<200	>=200
Groundwater <=3,300 pop	0	0	NA	NA	NA	NA
Groundwater >3,300 pop	0	4	NA	\$2,112	NA	\$2,112
Surface Water <=3,300 pop	0	0	NA	NA	NA	NA
Surface Water >3,300 pop	0	0	NA	NA	NA	NA
Treated Monitoring - treated s		_				. (4)
_	-	<u>e Count</u>		st (\$) Year 1		<u>st (\$) Year 2</u>
Water type\# Svc Conn	<200	>=200	<200	>=200	<200	>=200
Groundwater <=3,300 pop	0	0	\$0	\$0	\$0	\$0
Groundwater >3,300 pop	0	23	\$0	\$48,576	\$0	\$48,576
Surface Water <=3,300 pop	0	0	\$0	\$0	\$0	\$0
Surface Water >3,300 pop	0	0	\$0	\$0	\$0	\$0

MCL = 15 ppt							
Increased Monitoring - sources	not requirir	ng treatmer	<u>nt</u>				
	Source	e Count	Total Cos	st (\$) Year 1	<u>Total Cost (\$) Year 2</u>		
Water type\# Svc Conn	<200	>=200	<200	>=200	<200	>=200	
Groundwater <=3,300 pop	25	14	\$13,200	\$7,392	\$13,200	\$7,392	
Groundwater >3,300 pop	0	249	\$0	\$131,472	\$0	\$131,472	
Surface Water <=3,300 pop	1	0	\$528	\$0	\$528	\$0	
Surface Water >3,300 pop	0	4	\$0	\$2,112	\$0	\$2,112	
Increased Monitoring - sources	requiring tr	<u>eatment</u>					
	Source	e Count	Total Cos	st (\$) Year 1	Total Cos	st (\$) Year 2	
Water type\# Svc Conn	<200	>=200	<200	>=200	<200	>=200	
Groundwater <=3,300 pop	21	1	\$11,088	\$528	NA	NA	
Groundwater >3,300 pop	0	129	\$0	\$136,224	NA	NA	
Surface Water <=3,300 pop	0	0	\$0	\$0	NA	NA	
Surface Water >3,300 pop	0	0	\$0	\$0	NA	NA	
Treated Monitoring - sources re							
	Source	e Count	Total Cos	st (\$) Year 1	Total Cost (\$) Year		
Water type\# Svc Conn	<200	>=200	<200	>=200	<200	>=200	
Groundwater <=3,300 pop	21	1	NA	NA	\$44,352	\$2,112	
Groundwater >3,300 pop	0	129	NA	NA	\$0	\$272 <i>,</i> 448	
Surface Water <=3,300 pop	0	0	NA	NA	\$0	\$0	
Surface Water >3,300 pop	0	0	NA	NA	\$0	\$0	
Increased Monitoring - currentl	<u>y treated so</u>	ources					
		e Count	<u>Total Cost (\$) Year 1</u>		-	st (\$) Year 2	
Water type\# Svc Conn	<200	>=200	<200	>=200	<200	>=200	
Groundwater <=3,300 pop	0	0	NA	NA	NA	NA	
Groundwater >3,300 pop	0	4	NA	\$2,112	NA	\$2,112	
Surface Water <=3,300 pop	0	0	NA	NA	NA	NA	
Surface Water >3,300 pop	0	0	NA	NA	NA	NA	
Treated Monitoring - treated sc							
		e Count		st (\$) Year 1		st (\$) Year 2	
Water type\# Svc Conn	<200	>=200	<200	>=200	<200	>=200	
Groundwater <=3,300 pop	0	0	\$0	\$0	\$0	\$0	
Groundwater >3,300 pop	0	23	\$0	\$48,576	\$0	\$48,576	
Surface Water <=3,300 pop	0	0	\$0	\$0	\$0	\$0	
Surface Water >3,300 pop	0	0	\$0	\$0	\$0	\$0	

Increased Monitoring - sources not requiring treatment Source Count Total Cost (\$) Year 1 Total Cost (\$) Yea									
Water type\# Svc Conn	<200	>=200	<200	>=200	<200 >=20				
Groundwater <=3,300 pop	30	15	\$15,840	\$7,920	\$15,840	\$7,920			
Groundwater >3,300 pop	0	307	\$0	\$162,096	\$0	\$162,096			
Surface Water <=3,300 pop	1	0	\$528	\$0	\$528	\$0			
Surface Water >3,300 pop	0	4	\$0	\$2,112	\$0	\$2,112			
Increased Monitoring - sources	s requiring	<u>treatment</u>							
	Source	e Count	Total Cos	t (\$) Year 1	Total Cos	st (\$) Year 2			
Water type\# Svc Conn	<200	>=200	<200	>=200	<200	>=200			
Groundwater <=3,300 pop	16	0	\$8,448	\$0	NA	NA			
Groundwater >3,300 pop	0	71	\$0	\$74,976	NA	NA			
Surface Water <=3,300 pop	0	0	\$0	\$0	NA	NA			
Surface Water >3,300 pop	0	0	\$0	\$0	NA	NA			
Treated Monitoring - sources r									
_	-	e Count		st (\$) Year 1	Total Cost (\$) Yea				
Water type\# Svc Conn	<200	>=200	<200	>=200	<200	>=200			
Groundwater <=3,300 pop	16	0	NA	NA	\$33,792	\$0			
Groundwater >3,300 pop	0	71	NA	NA	\$0	\$149,952			
Surface Water <=3,300 pop	0	0	NA	NA	\$0	\$0			
Surface Water >3,300 pop	0	0	NA	NA	\$0	\$0			
Increased Monitoring - current						. (4)			
		e Count		t (\$) Year 1		st (\$) Year 2			
Water type\# Svc Conn	<200	>=200	<200	>=200	<200	>=200			
Groundwater <=3,300 pop	0	0	NA	NA ćr 200	NA	NA			
Groundwater >3,300 pop	0	10	NA	\$5,280	NA	\$5,280			
Surface Water <=3,300 pop	0	0	NA	NA	NA	NA			
Surface Water >3,300 pop	0	0	NA	NA	NA	NA			
Treated Monitoring - treated s	ources								
	Source	e Count	Total Cos	t (\$) Year 1	<u>Total Cos</u>	st (\$) Year 2			
<u>Water type\# Svc Conn</u>	<200	>=200	<200	>=200	<200	>=200			
Groundwater <=3,300 pop	0	0	\$0	\$0	\$0	\$0			
Groundwater >3,300 pop	0	17	\$0	\$35,904	\$0	\$35,904			
Surface Water <=3,300 pop	0	0	\$0	\$0	\$0	\$0			
Surface Water >3,300 pop	0	0	\$0	\$0	\$0	\$0			

MCL = 70 ppt Increased Monitoring - source	<u>s not req</u> u	<u>iring trea</u> tm	<u>nent</u>				
	-	e Count		t (\$) Year 1	<u>Total Cost (\$) Year 2</u>		
Water type\# Svc Conn	<200	>=200	<200	>=200	<200	>=200	
Groundwater <=3,300 pop	34	15	\$ 17,952	\$7,920	\$ 17,952	\$7,920	
Groundwater >3,300 pop	0	339	\$0	\$ 178,992	\$0	\$ 178,992	
Surface Water <=3,300 pop	1	0	\$528	\$0	\$528	\$0	
Surface Water >3,300 pop	0	4	\$0	\$2,112	\$0	\$2,112	
Increased Monitoring - source	s requiring	g treatment					
	Source	e Count	Total Cos	t (\$) Year 1	Total Cos	t (\$) Year 2	
<u>Water type\# Svc Conn</u>	<200	>=200	<200	>=200	<200	>=200	
Groundwater <=3,300 pop	12	0	\$6,336	\$0	NA	NA	
Groundwater >3,300 pop	0	39	\$0	\$41,184	NA	NA	
Surface Water <=3,300 pop	0	0	\$0	\$0	NA	NA	
Surface Water >3,300 pop	0	0	\$0	\$0	NA	NA	
Treated Monitoring - sources							
		e Count		t (\$) Year 1	Total Cost (\$) Year		
Water type\# Svc Conn	<200	>=200	<200	>=200	<200	>=200	
Groundwater <=3,300 pop	12	0	NA	NA	\$25,344	\$0	
Groundwater >3,300 pop	0	39	NA	NA	\$0	\$82,368	
Surface Water <=3,300 pop	0	0	NA	NA	\$0	\$0	
Surface Water >3,300 pop	0	0	NA	NA	\$0	\$0	
Increased Monitoring - curren					_		
_		e Count		t (\$) Year 1		t (\$) Year 2	
Water type\# Svc Conn	<200	>=200	<200	>=200	<200	>=200	
Groundwater <=3,300 pop	0	0	NA	NA	NA	NA	
Groundwater >3,300 pop	0	18	NA	\$9,504	NA	\$9,504	
Surface Water <=3,300 pop	0	0	NA	NA	NA	NA	
Surface Water >3,300 pop	0	0	NA	NA	NA	NA	
Treated Monitoring - treated							
		<u>e Count</u>		t (\$) Year 1		t (\$) Year 2	
Water type\# Svc Conn	<200	>=200	<200	>=200	<200	>=200	
Groundwater <=3,300 pop	0	0	\$0	\$0	\$0	\$0	
Groundwater >3,300 pop	0	9	\$0	\$19,008	\$0	\$19,008	
Surface Water <=3,300 pop	0	0	\$0	\$0	\$0	\$0	
Surface Water >3,300 pop	0	0	\$0	\$0	\$0	\$0	

MCL = 150 ppt						
Increased Monitoring - source						
	Source	e Count	<u>Total Cost (\$) Year 1</u>		Total Cost (\$) Yea	
<u>Water type\# Svc Conn</u>	<200	>=200	<200	>=200	<200	>=200
Groundwater <=3,300 pop	43	15	\$ 22,704	\$7,920	\$22,704	\$7,920
Groundwater >3,300 pop	0	365	\$0	\$ 192,720	\$0	\$ 192,720
Surface Water <=3,300 pop	1	0	\$528	\$0	\$528	\$0
Surface Water >3,300 pop	0	4	\$0	\$2,112	\$0	\$2,112
Increased Monitoring - source	s requiring	<u>treatment</u>				
	<u>Source</u>	e Count	Total Cos	t (\$) Year 1	Total Cos	st (\$) Year 2
Water type\# Svc Conn	<200	>=200	<200	>=200	<200	>=200
Groundwater <=3,300 pop	3	0	\$1,584	\$0	NA	NA
Groundwater >3,300 pop	0	13	\$0	\$13,728	NA	NA
Surface Water <=3,300 pop	0	0	\$0	\$0	NA	NA
Surface Water >3,300 pop	0	0	\$0	\$0	NA	NA
Treated Monitoring - sources						
	Source	e Count	Total Cos	t (\$) Year 1	Total Cost (\$) Yea	
Water type\# Svc Conn	<200	>=200	<200	>=200	<200	>=200
Groundwater <=3,300 pop	3	0	NA	NA	\$6,336	\$0
Groundwater >3,300 pop	0	13	NA	NA	\$0	\$27 <i>,</i> 456
Surface Water <=3,300 pop	0	0	NA	NA	\$0	\$0
Surface Water >3,300 pop	0	0	NA	NA	\$0	\$0
Increased Monitoring - current						
		e Count		t (\$) Year 1		st (\$) Year 2
Water type\# Svc Conn	<200	>=200	<200	>=200	<200	>=200
Groundwater <=3,300 pop	0	0	NA	NA	NA	NA
Groundwater >3,300 pop	0	23	NA	\$12,144	NA	\$12,144
Surface Water <=3,300 pop	0	0	NA	NA	NA	NA
Surface Water >3,300 pop	0	0	NA	NA	NA	NA
Treated Monitoring - treated s						. (1)
		e Count		t (\$) Year 1		st (\$) Year 2
Water type\# Svc Conn	<200	>=200	<200	>=200	<200	>=200
Groundwater <=3,300 pop	0	0	\$0	\$0	\$0	\$0
Groundwater >3,300 pop	0	4	\$0	\$8,448	\$0	\$8,448
Surface Water <=3,300 pop	0	0	\$0	\$0	\$0	\$0
Surface Water >3,300 pop	0	0	\$0	\$0	\$0	\$0

#### TABLE 3ESTIMATED TREATMENT COSTS

MCL = 5 ppt					
Excluding 1,2,3-TCP Treated Sources					
# Service Connections	# of Sources	Total Capital Costs	Total Annualized Costs	Total O&M Costs	Total Annual Costs
<200	36	\$3,468,772	\$327,452	\$344,545	\$671,997
>=200	229	\$93,644,293	\$8,840,021	\$19,084,619	\$27,924,640
1,2,3-TCP Treated Sources					
# Service Connections	<u># of Sources</u>	Total O&M Costs			
<200	0	\$0			
>=200	24	\$4,702,830			
MCL = 7 ppt					
Excluding 1,2,3-TCP Treated Sources					
# Service Connections	# of Sources	Total Capital Costs	Total Annualized Costs	Total O&M Costs	Total Annual Costs
200	<u># 01 3001Ces</u> 33	\$3,121,926	\$294,710	\$305,297	\$600,007
>=200		\$67,842,119	\$6,404,296	\$14,997,803	\$00,007 \$21,402,099
>-200	169	<i>307,</i> 842,119	Ş0,404,290	\$14,997,805	ŞZ1,402,099
1,2,3-TCP Treated Sources					
# Service Connections	# of Sources	Total O&M Costs			
<200	0	\$0			
>=200	23	\$4,442,138			
MCL = 15 ppt					
Excluding 1,2,3-TCP Treated Sources					
# Service Connections	# of Sources	Total Capital Costs	Total Annualized Costs	Total O&M Costs	Total Annual Costs
200	<u># 01 3001Ces</u> 21	\$1,893,936	\$178,788	\$197,764	\$376,552
>=200	130	\$1,893,936 \$50,014,423	\$4,721,361	\$197,764	\$376,552 \$15,581,962
/-200	130	ŞSU,U14,423	Ş4,/∠1,301	\$10,800,001	\$T2'291'205
1,2,3-TCP Treated Sources					
# Service Connections	<u># of Sources</u>	Total O&M Costs			
<200	0	\$0			
>=200	23	\$4,442,138			
Acronyms:					

Acronyms:

1,2,3-TCP - 1,2,3-Trichloropropane ppt - parts per trillion

O&M - Operations and Maintenance

#### TABLE 3ESTIMATED TREATMENT COSTS

# of Sources	<b>Total Capital Costs</b>	<b>Total Annualized Costs</b>	Total O&M Costs	<b>Total Annual Costs</b>
16	\$1,455,912	\$137,438	\$146,194	\$283,632
71	\$23,123,731	\$2,182,880	\$5,543,678	\$7,726,558
# of Sources	Total O&M Costs			
0	\$0			
17	\$3,155,695			
# of Sources	Total Capital Costs	Total Annualized Costs	Total O&M Costs	<b>Total Annual Costs</b>
12	\$1,151,373	\$108,690	\$113,218	\$221,907
39	\$15,497,472	\$1,462,961	\$3,389,537	\$4,852,498
# of Sources	Total O&M Costs			
9	\$1,433,324			
# of Sources	Total Capital Costs	Total Annualized Costs	Total O&M Costs	<b>Total Annual Costs</b>
3				\$48,594
13	\$8,684,993	\$819,863	\$1,567,475	\$2,387,338
# of Courses	Total O&M Costs			
# OT SOURCES				
<u># of Sources</u> 0	\$0			
	16 71 # of Sources 0 17 # of Sources 12 39 # of Sources 0 9 # of Sources 3 13	16       \$1,455,912         71       \$23,123,731         # of Sources       Total O&M Costs         0       \$0         17       \$3,155,695         # of Sources       Fotal Capital Costs         12       \$1,151,373         39       \$15,497,472         # of Sources       Fotal O&M Costs         0       \$0         9       \$1,433,324	16       \$1,455,912       \$137,438         71       \$23,123,731       \$2,182,880         # of Sources       Total O&M Costs       \$2,182,880         0       \$0       \$0         17       \$3,155,695       Total Annualized Costs         12       \$1,151,373       \$108,690         39       \$15,497,472       \$108,690         \$1,462,961       \$108,690       \$1,462,961         # of Sources       Total O&M Costs       \$108,690         9       \$15,497,472       \$1,462,961         # of Sources       Total O&M Costs       \$1,462,961         # of Sources       S0       \$0         9       \$1,433,324       S20,400         # of Sources       S216,106       \$20,400         3       \$216,106       \$20,400         3       \$216,106       \$20,400         \$8,684,993       \$819,863	16       \$1,455,912       \$137,438       \$146,194         71       \$23,123,731       \$2,182,880       \$5,543,678         #of Sources       Total O&M Costs            0       \$0             17       \$3,155,695             #of Sources       Total Capital Costs       Total Annualized Costs       Total O&M Costs         12       \$1,151,373       \$108,690       \$113,218         \$12       \$1,5,497,472       \$1,462,961       \$3,389,537         #of Sources       Total O&M Costs       \$1,433,324       \$108,690         #of Sources       Total O&M Costs       \$1,433,324       \$108,690         \$0       \$0       \$0       \$0         9       \$1,433,324       \$1,462,961       \$1,430,490         #of Sources       \$0       \$0       \$0         9       \$1,433,324       \$104,090       \$28,193

MCL = 5 ppt	Total Monitoring	Monitoring Costs (Year 2+) Annua		Total Monitoring Costs (Year 2+) Annualized Capital Costs		<b>Capital Costs</b>	Annual C	&M Costs	Total Annual Costs	
	<b>Groundwater</b>	Surface Water	<u>Groundwater</u>	Surface Water	<u>Groundwater</u>	Surface Water	<u>Groundwater</u>	Surface Water		
<200 Svc Conn	\$76,032	\$0	\$327,452	\$0	\$344,545	\$0	\$748,029	\$0		
>=200 Svc Conn	\$534,336	\$0	\$8,840,021	\$0	\$23,787,449	\$0	\$33,161,806	\$0		
<u>Cost/Source</u>	<u># Sources</u>	Annual Cost/Source		Costs are for s	ustems requiring	treatment. Mo	nitoring costs fo	r pop-		
<200 Svc Conn	36	\$20,779					-			
>=200 Svc Conn	253	\$131,074		contaminated sources and contaminated sources without treatment are not included.						
<u>Cost/Svc Conn</u>	<u># Svc Conn</u>	Annual Cost/Svc Conn								
<200 Svc Conn	1,229	\$609								
>=200 Svc Conn	1,302,502	\$25								
<u>Cost/System</u>	# Systems	Annual Cost/System								
<200 Svc Conn	33	\$22,668								
>=200 Svc Conn	70	\$473,740								
Cost-Benefit	Est. Cancer Reduction	Est. Cost/Reduction	In	cludes estimated	d reduction in th	eoretical cancer				
<200 Svc Conn	0.01	\$97,054,860		se per year for ex						
>=200 Svc Conn	2.35	\$14,116,733				·				

#### TABLE 4 COST SUMMARIES AND ESTIMATED REDUCTION IN CANCER CASES

#### Acronyms:

1,2,3-TCP - 1,2,3-Trichloropropane Est. - Estimated MCL - Maximum Contaminant Level O&M - Operations and Maintenance

Svc Conn- Service Connection

ppt- parts per trillion

MCL = 7 ppt	CL = 7 ppt <u>Total Monitoring Costs (Year 2+)</u>		Annualized	Capital Costs <u>Annual O&amp;M Costs</u> <u>To</u>		Total An	<u> Total Annual Costs</u>	
	<u>Groundwater</u>	Surface Water	<u>Groundwater</u>	Surface Water	<u>Groundwater</u>	Surface Water	<u>Groundwater</u>	Surface Water
<200 Svc Conn	\$69,696	\$0	\$294,710	\$0	\$305,297	\$0	\$669,703	\$0
>=200 Svc Conn	\$447,744	\$0	\$6,404,296	\$0	\$19,439,941	\$0	\$26,291,981	\$0
Cost/Source	# Sources	Annual Cost/Source					·	
<200 Svc Conn	33	\$20,294				treatment. Mon aminated source	-	
>=200 Svc Conn	212	\$124,019		not included.	sources and cont	aminated source	es without treatr	nentare
<u>Cost/Svc Conn</u>	<u># Svc Conn</u>	Annual Cost/Svc Conn						
<200 Svc Conn	1,015	\$660						
>=200 Svc Conn	1,091,435	\$24						
Cost/System	<u># Systems</u>	Annual Cost/System						
<200 Svc Conn	30	\$22,323						
>=200 Svc Conn	59	\$445,627						
Cost-Benefit	Est. Cancer Reduction	Est. Cost/Reduction						]
<200 Svc Conn	0.01	\$89,191,626		Includes estimated reduction in theoretical cancer case				
>=200 Svc Conn	2.31	\$11,360,640		per year for existing 1,2,3-TCP treated systems		stems		

 TABLE 4

 COST SUMMARIES AND ESTIMATED REDUCTION IN CANCER CASES

MCL = 15 ppt	MCL = 15 ppt <u>Total Monitoring Costs (Year 2+)</u>		Annualized	d Capital Costs <u>Annual O&amp;M</u>		&M Costs	Costs Total Annual Costs	
	<u>Groundwater</u>	Surface Water	<u>Groundwater</u>	Surface Water	<u>Groundwater</u>	Surface Water	<u>Groundwater</u>	Surface Water
<200 Svc Conn	\$44,352	\$0	\$178,788	\$0	\$197,764	\$0	\$420,904	\$0
>=200 Svc Conn	\$323,136	\$0	\$4,721,361	\$0	\$15,302,739	\$0	\$20,347,236	\$0
Cost/Source	# Sources	Annual Cost/Source					·	
<200 Svc Conn	21	\$20,043				treatment. Mon	-	
>=200 Svc Conn	153	\$132,988		not included.	ources and com	aminated source	s without treat	nent are
<u>Cost/Svc Conn</u>	<u># Svc Conn</u>	Annual Cost/Svc Conn						
<200 Svc Conn	701	\$600						
>=200 Svc Conn	990,653	\$21						
<u>Cost/System</u>	<u># Systems</u>	Annual Cost/System						
<200 Svc Conn	19	\$22,153						
>=200 Svc Conn	47	\$432,920						
Cost-Benefit	Est. Cancer Reduction	Est. Cost/Reduction						1
<200 Svc Conn	0.01	\$60,958,056		Includes estimated reduction in theoretical cancer case per year for existing 1,2,3-TCP treated systems				
>=200 Svc Conn	2.21	\$9,221,521				stems		

 TABLE 4

 COST SUMMARIES AND ESTIMATED REDUCTION IN CANCER CASES

MCL = 35 ppt	Total Monitoring	g Costs (Year 2+)	Annualized	Capital Costs	Capital Costs Annual O&M Costs		Total Annual Costs	
	<u>Groundwater</u>	Surface Water	<u>Groundwater</u>	Surface Water	<u>Groundwater</u>	Surface Water	<u>Groundwater</u>	Surface Water
<200 Svc Conn	\$33,792	\$0	\$137,438	\$0	\$146,194	\$0	\$317,424	\$0
>=200 Svc Conn	\$185,856	\$0	\$2,182,880	\$0	\$8,699,373	\$0	\$11,068,110	\$0
Cost/Source	<u># Sources</u>	Annual Cost/Source		Costs are for sy	stems requiring	treatment. Mon	itoring costs for	non-
<200 Svc Conn >=200 Svc Conn	16 88	\$19,839 \$125,774		contaminated sources and contaminated sources without treatment are not included.			nent are	
Cost/Svc Conn	<u># Svc Conn</u>	Annual Cost/Svc Conn						
<200 Svc Conn	502	\$632						
>=200 Svc Conn	809,396	\$14						
<u>Cost/System</u>	<u># Systems</u>	Annual Cost/System						
<200 Svc Conn	14	\$22,673						
>=200 Svc Conn	31	\$357,036						
Cost-Benefit	Est. Cancer Reduction	Est. Cost/Reduction			<b>t</b> : <b>t</b>			]
<200 Svc Conn	0.01	\$54,210,530		Includes estimated reduction in theoretical cancer case				
>=200 Svc Conn	2.01	\$5,498,899		per year for existing 1,2,3-TCP treated systems				

TABLE 4 COST SUMMARIES AND ESTIMATED REDUCTION IN CANCER CASES

TABLE 4
COST SUMMARIES AND ESTIMATED REDUCTION IN CANCER CASES

MCL = 70 ppt	Total Monitoring	g Costs (Year 2+)	Annualized	Capital Costs	Annual C	&M Costs	Total An	nual Costs
	<u>Groundwater</u>	Surface Water	<u>Groundwater</u>	Surface Water	<u>Groundwater</u>	Surface Water	<u>Groundwater</u>	Surface Water
<200 Svc Conn	\$25,344	\$0	\$108,690	\$0	\$113,218	\$0	\$247,251	\$0
>=200 Svc Conn	\$101,376	\$0	\$1,462,961	\$0	\$4,822,861	\$0	\$6,387,198	\$0
<u>Cost/Source</u>	<u># Sources</u>	Annual Cost/Source		Contra ou forma				
<200 Svc Conn	12	\$20,604				treatment. Mon	-	
>=200 Svc Conn	48	\$133,067		contaminated sources and contaminated sources without treatment are not included.			lient are	
<u>Cost/Svc Conn</u>	<u># Svc Conn</u>	Annual Cost/Svc Conn						
<200 Svc Conn	494	\$501						
>=200 Svc Conn	470,454	\$14						
Cost/System	<u># Systems</u>	Annual Cost/System						
<200 Svc Conn	12	\$20,604						
>=200 Svc Conn	18	\$354,844						
<u>Cost-Benefit</u>	Est. Cancer Reduction	Est. Cost/Reduction		In all stars	a attine at a direct			]
<200 Svc Conn	0.00	\$56,229,876		Includes estimated reduction in theoretical cancer can per year for existing 1,2,3-TCP treated systems				
>=200 Svc Conn	1.84	\$3,466,775		per year	TOT EXISTING 1,2,3	s-ice treated sys		

TABLE 4
COST SUMMARIES AND ESTIMATED REDUCTION IN CANCER CASES

MCL = 150 ppt	Total Monitoring	Total Monitoring Costs (Year 2+) Annualize		Capital Costs	ital Costs Annual O&M Costs		Total Annual Costs	
	<b>Groundwater</b>	Surface Water	<u>Groundwater</u>	Surface Water	<u>Groundwater</u>	Surface Water	<u>Groundwater</u>	Surface Water
<200 Svc Conn	\$6,336	\$0	\$20,400	\$0	\$28,193	\$0	\$54,930	\$0
>=200 Svc Conn	\$35,904	\$0	\$819,863	\$0	\$2,302,238	\$0	\$3,158,005	\$0
Cost/Source	<u># Sources</u>	Annual Cost/Source		Conto ovo for ou		treatment Man	itovina posto for	
<200 Svc Conn	3	\$18,310				treatment. Mon	-	
>=200 Svc Conn	17	\$185,765		contaminated sources and contaminated sources without treatment a not included.				
<u>Cost/Svc Conn</u>	<u># Svc Conn</u>	Annual Cost/Svc Conn						
<200 Svc Conn	63	\$872						
>=200 Svc Conn	309,934	\$10						
Cost/System	<u># Systems</u>	Annual Cost/System						
<200 Svc Conn	3	\$18,310						
>=200 Svc Conn	9	\$350,889						
<u>Cost-Benefit</u>	Est. Cancer Reduction	Est. Cost/Reduction			a attine at a direct			]
<200 Svc Conn	0.00	\$21,484,980		Includes estimated reduction in theoretical cancer can per year for existing 1,2,3-TCP treated systems				
>=200 Svc Conn	1.62	\$1,945,241		per year	TOT EXISTING 1,2,5	s-ice treated sys	lems	

# Table 5Estimated Total Annualized Costs at the Proposed Maximum Contaminant Level<br/>(MCL)by Water System Ownership

Water System Ownership <sup>(a)</sup>	No. of Water Systems Impacted	Total Annualized Cost (\$M) (for Year 1+) <sup>(b)</sup>
Federal	74	\$0.01
State	101	\$0.10
Local	1,410	\$28.67
Private	2,711	\$5.99
Total	4,296	\$34.77

(a) Database indicates mixed ownership for system 2400167, which was assumed to be local, based on available information. For routine monitoring costs, all mixed and unlabeled systems were assumed to be local systems; these systems did not have any record of contamination.

(b) Annualized costs do not include initial monitoring