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**

Acronyms
LWS- Large Water System
SDWIS- Safe Drinking Water Information System
SWS- Small Water system

TABLE 2
ESTIMATED MONITORING COSTS

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 without detections

	Source Count		**Total Cost ($)**	
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 sources

	Source Count		**Total Cost ($)**	
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 without detections

	Source Count		**Total Cost ($)**	
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

TABLE 2
ESTIMATED MONITORING COSTS

MCL = 5 ppt

Increased Monitoring - sources not requiring treatment

	Source Count		Total Cost ($) Year 1		Total Cost ($) 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 - sources requiring treatment

	Source Count		Total Cost ($) Year 1		Total Cost ($) 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

	Source Count		Total Cost ($) Year 1		Total Cost ($) Year 2	
Water type\# Svc Conn	<200	>=200	<200	>=200	<200	>=200
Groundwater <=3,300 pop	36	9	NA	NA	$76,032	$19,008
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 - currently treated sources

	Source Count		Total Cost ($) Year 1		Total Cost ($) 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 sources

	Source Count		Total Cost ($) Year 1		Total Cost ($) 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

TABLE 2
ESTIMATED MONITORING COSTS

MCL = 7 ppt

Increased Monitoring - sources not requiring treatment

	Source Count		Total Cost ($) Year 1		Total Cost ($) Year 2	
Water type\# Svc Conn	<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 - sources requiring treatment

	Source Count		Total Cost ($) Year 1		Total Cost ($) 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 requiring treatment

	Source Count		Total Cost ($) Year 1		Total Cost ($) Year 2	
Water type\# Svc Conn	<200	>=200	<200	>=200	<200	>=200
Groundwater <=3,300 pop	33	6	NA	NA	$69,696	$12,672
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 - currently treated sources

	Source Count		Total Cost ($) Year 1		Total Cost ($) 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 sources

	Source Count		Total Cost ($) Year 1		Total Cost ($) 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

TABLE 2
ESTIMATED MONITORING COSTS

MCL = 15 ppt

Increased Monitoring - sources not requiring treatment

	Source Count		Total Cost ($) Year 1		Total Cost ($) Year 2	
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 treatment

	Source Count		Total Cost ($) Year 1		Total Cost ($) 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 requiring treatment

	Source Count		Total Cost ($) Year 1		Total Cost ($) Year 2	
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	$272,448
Surface Water <=3,300 pop	0	0	NA	NA	$0	$0
Surface Water >3,300 pop	0	0	NA	NA	$0	$0

Increased Monitoring - currently treated sources

	Source Count		Total Cost ($) Year 1		Total Cost ($) 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 sources

	Source Count		Total Cost ($) Year 1		Total Cost ($) 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

TABLE 2
ESTIMATED MONITORING COSTS

MCL = 35 ppt

Increased Monitoring - sources not requiring treatment

	Source Count		Total Cost ($) Year 1		Total Cost ($) Year 2	
Water type\# Svc Conn	<200	>=200	<200	>=200	<200	>=200
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 requiring treatment

	Source Count		Total Cost ($) Year 1		Total Cost ($) 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 requiring treatment

	Source Count		Total Cost ($) Year 1		Total Cost ($) Year 2	
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 - currently treated sources

	Source Count		Total Cost ($) Year 1		Total Cost ($) 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	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 sources

	Source Count		Total Cost ($) Year 1		Total Cost ($) 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	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

TABLE 2
ESTIMATED MONITORING COSTS

MCL = 70 ppt

Increased Monitoring - sources not requiring treatment

	Source Count		Total Cost ($) Year 1		Total Cost ($) Year 2	
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 - sources requiring treatment

	Source Count		Total Cost ($) Year 1		Total Cost ($) Year 2	
Water type\# Svc Conn	<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 requiring treatment

	Source Count		Total Cost ($) Year 1		Total Cost ($) Year 2	
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 - currently treated sources

	Source Count		Total Cost ($) Year 1		Total Cost ($) 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 sources

	Source Count		Total Cost ($) Year 1		Total Cost ($) 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

TABLE 2
ESTIMATED MONITORING COSTS

MCL = 150 ppt

Increased Monitoring - sources not requiring treatment

	Source Count		Total Cost ($) Year 1		Total Cost ($) Year 2	
Water type\# Svc Conn	<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 - sources requiring treatment

	Source Count		Total Cost ($) Year 1		Total Cost ($) 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 requiring treatment

	Source Count		Total Cost ($) Year 1		Total Cost ($) Year 2	
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	$27,456
Surface Water <=3,300 pop	0	0	NA	NA	$0	$0
Surface Water >3,300 pop	0	0	NA	NA	$0	$0

Increased Monitoring - currently treated sources

	Source Count		Total Cost ($) Year 1		Total Cost ($) 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 sources

	Source Count		Total Cost ($) Year 1		Total Cost ($) 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 3
ESTIMATED 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	# of Sources	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	33	$3,121,926	$294,710	$305,297	$600,007
>=200	189	$67,842,119	$6,404,296	$14,997,803	$21,402,099

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	21	$1,893,936	$178,788	$197,764	$376,552
>=200	130	$50,014,423	$4,721,361	$10,860,601	$15,581,962

1,2,3-TCP Treated Sources

# Service Connections	# of Sources	Total O&M Costs
<200	0	$0
>=200	23	$4,442,138

Acronyms:

1,2,3-TCP - 1,2,3-Trichloropropane
O&M - Operations and Maintenance
ppt - parts per trillion

TABLE 3
ESTIMATED TREATMENT COSTS

MCL = 35 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	16	$1,455,912	$137,438	$146,194	$283,632
>=200	71	$23,123,731	$2,182,880	$5,543,678	$7,726,558

1,2,3-TCP Treated Sources

# Service Connections	# of Sources	Total O&M Costs
<200	0	$0
>=200	17	$3,155,695

MCL = 70 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	12	$1,151,373	$108,690	$113,218	$221,907
>=200	39	$15,497,472	$1,462,961	$3,389,537	$4,852,498

1,2,3-TCP Treated Sources

# Service Connections	# of Sources	Total O&M Costs
<200	0	$0
>=200	9	$1,433,324

MCL = 150 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	3	$216,106	$20,400	$28,193	$48,594
>=200	13	$8,684,993	$819,863	$1,567,475	$2,387,338

1,2,3-TCP Treated Sources

# Service Connections	# of Sources	Total O&M Costs
<200	0	$0
>=200	4	$734,763

TABLE 4

COST SUMMARIES AND ESTIMATED REDUCTION IN CANCER CASES

MCL = 5 ppt	Total Monitoring Costs (Year 2+)		Annualized Capital Costs		Annual O&M Costs		Total Annual Costs	
	Groundwater	Surface Water	Groundwater	Surface Water	Groundwater	Surface Water	Groundwater	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

Cost/Source	# Sources	Annual Cost/Source
<200 Svc Conn	36	$20,779
>=200 Svc Conn	253	$131,074

Cost/Svc Conn	# Svc Conn	Annual Cost/Svc Conn
<200 Svc Conn	1,229	$609
>=200 Svc Conn	1,302,502	$25

Cost/System	# Systems	Annual Cost/System
<200 Svc Conn	33	$22,668
>=200 Svc Conn	70	$473,740

Cost-Benefit	Est. Cancer Reduction	Est. Cost/Reduction
<200 Svc Conn	0.01	$97,054,860
>=200 Svc Conn	2.35	$14,116,733

Costs are for systems requiring treatment. Monitoring costs for non-contaminated sources and contaminated sources without treatment are not included.

Includes estimated reduction in theoretical cancer case per year for existing 1,2,3-TCP treated systems

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

TABLE 4

COST SUMMARIES AND ESTIMATED REDUCTION IN CANCER CASES

MCL = 7 ppt	Total Monitoring Costs (Year 2+)		Annualized Capital Costs		Annual O&M Costs		Total Annual Costs	
	Groundwater	Surface Water	Groundwater	Surface Water	Groundwater	Surface Water	Groundwater	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
>=200 Svc Conn	212	$124,019

Costs are for systems requiring treatment. Monitoring costs for non-contaminated sources and contaminated sources without treatment are not included.

Cost/Svc Conn	# Svc Conn	Annual Cost/Svc Conn
<200 Svc Conn	1,015	$660
>=200 Svc Conn	1,091,435	$24

Cost/System	# Systems	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
>=200 Svc Conn	2.31	$11,360,640

Includes estimated reduction in theoretical cancer case per year for existing 1,2,3-TCP treated systems

TABLE 4

COST SUMMARIES AND ESTIMATED REDUCTION IN CANCER CASES

MCL = 15 ppt	Total Monitoring Costs (Year 2+)		Annualized Capital Costs		Annual O&M Costs		Total Annual Costs	
	Groundwater	Surface Water	Groundwater	Surface Water	Groundwater	Surface Water	Groundwater	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
>=200 Svc Conn	153	$132,988

Costs are for systems requiring treatment. Monitoring costs for non-contaminated sources and contaminated sources without treatment are not included.

Cost/Svc Conn	# Svc Conn	Annual Cost/Svc Conn
<200 Svc Conn	701	$600
>=200 Svc Conn	990,653	$21

Cost/System	# Systems	Annual Cost/System
<200 Svc Conn	19	$22,153
>=200 Svc Conn	47	$432,920

Cost-Benefit	Est. Cancer Reduction	Est. Cost/Reduction
<200 Svc Conn	0.01	$60,958,056
>=200 Svc Conn	2.21	$9,221,521

Includes estimated reduction in theoretical cancer case per year for existing 1,2,3-TCP treated systems

TABLE 4

COST SUMMARIES AND ESTIMATED REDUCTION IN CANCER CASES

MCL = 35 ppt	Total Monitoring Costs (Year 2+)		Annualized Capital Costs		Annual O&M Costs		Total Annual Costs	
	Groundwater	Surface Water	Groundwater	Surface Water	Groundwater	Surface Water	Groundwater	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	# Sources	Annual Cost/Source
<200 Svc Conn	16	$19,839
>=200 Svc Conn	88	$125,774

Costs are for systems requiring treatment. Monitoring costs for non-contaminated sources and contaminated sources without treatment are not included.

Cost/Svc Conn	# Svc Conn	Annual Cost/Svc Conn
<200 Svc Conn	502	$632
>=200 Svc Conn	809,396	$14

Cost/System	# Systems	Annual Cost/System
<200 Svc Conn	14	$22,673
>=200 Svc Conn	31	$357,036

Cost-Benefit	Est. Cancer Reduction	Est. Cost/Reduction
<200 Svc Conn	0.01	$54,210,530
>=200 Svc Conn	2.01	$5,498,899

Includes estimated reduction in theoretical cancer case per year for existing 1,2,3-TCP treated systems

TABLE 4

COST SUMMARIES AND ESTIMATED REDUCTION IN CANCER CASES

MCL = 70 ppt	Total Monitoring Costs (Year 2+)		Annualized Capital Costs		Annual O&M Costs		Total Annual Costs	
	Groundwater	Surface Water	Groundwater	Surface Water	Groundwater	Surface Water	Groundwater	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

Cost/Source	# Sources	Annual Cost/Source
<200 Svc Conn	12	$20,604
>=200 Svc Conn	48	$133,067

Costs are for systems requiring treatment. Monitoring costs for non-contaminated sources and contaminated sources without treatment are not included.

Cost/Svc Conn	# Svc Conn	Annual Cost/Svc Conn
<200 Svc Conn	494	$501
>=200 Svc Conn	470,454	$14

Cost/System	# Systems	Annual Cost/System
<200 Svc Conn	12	$20,604
>=200 Svc Conn	18	$354,844

Cost-Benefit	Est. Cancer Reduction	Est. Cost/Reduction
<200 Svc Conn	0.00	$56,229,876
>=200 Svc Conn	1.84	$3,466,775

Includes estimated reduction in theoretical cancer case per year for existing 1,2,3-TCP treated systems

TABLE 4

COST SUMMARIES AND ESTIMATED REDUCTION IN CANCER CASES

MCL = 150 ppt	Total Monitoring Costs (Year 2+)		Annualized Capital Costs		Annual O&M Costs		Total Annual Costs	
	Groundwater	Surface Water	Groundwater	Surface Water	Groundwater	Surface Water	Groundwater	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	# Sources	Annual Cost/Source
<200 Svc Conn	3	$18,310
>=200 Svc Conn	17	$185,765

Costs are for systems requiring treatment. Monitoring costs for non-contaminated sources and contaminated sources without treatment are not included.

Cost/Svc Conn	# Svc Conn	Annual Cost/Svc Conn
<200 Svc Conn	63	$872
>=200 Svc Conn	309,934	$10

Cost/System	# Systems	Annual Cost/System
<200 Svc Conn	3	$18,310
>=200 Svc Conn	9	$350,889

Cost-Benefit	Est. Cancer Reduction	Est. Cost/Reduction
<200 Svc Conn	0.00	$21,484,980
>=200 Svc Conn	1.62	$1,945,241

Includes estimated reduction in theoretical cancer case per year for existing 1,2,3-TCP treated systems

Table 5
Estimated Total Annualized Costs at the Proposed Maximum Contaminant Level (MCL)
by Water System Ownership

Water System Ownership[(a)]	No. of Water Systems Impacted	Total Annualized Cost ($M) (for Year 1+)[(b)]
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