

Appendix A

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Exhibit A.1 Labor Rates

PWS Labor Rates

PWS Size (population served)	Weighted Labor Rate (\$/hour)
< 100	\$ 25.10
101 - 500	\$ 27.03
501 - 1,000	\$ 28.96
1,001 - 4,100	\$ 29.73
4,101 - 33,000	\$ 36.00
33,001 - 96,000	\$ 36.39
96,001 - 500,000	\$ 41.01
500,001-1 Million	\$ 41.01
> 1 Million	\$ 41.01

Note: Labor rates for each size category are assumed to be the same regardless of system type (CWS, NTCWS, and TNCWS).

Source: Final RTCR T&C Document¹.

¹ US Environmental Protection Agency. 2010. Technology and Cost Document for

State Labor Rates

Cost Assumptions: Labor Rate Components

Cost Element	Base Hourly Labor Cost	ECI in Year of Data	ECI 2007	2007 Labor Cost
	A	B	C	D=A*(C/B)
State Employee - Administrative	\$ 33.60	92.7	108.2	\$ 39.22
State Employee - Field Engineer	\$ 37.34	92.7	108.2	\$ 43.58

Sources:

(A) Economic Analysis for the Final Ground Water Rule (USEPA, 2006. EPA-815-R-06.014).

(B) ECI for state employee from the Bureau of Labor Statistics (BLS) (2008) from 2003 (State and local government; Total compensation; All workers, not seasonally adjusted). www.bls.gov.

(C) ECI for state employee from BLS (2008) from 2007 (State and local government; Total compensation; All workers, not seasonally adjusted). www.bls.gov.

Exhibit A.2 PWS Unit Burden and Cost Estimates for Implementation Activities (RTCR)

PWS Size (Population Served)	Labor Cost (per hour)	Read and Understand Rule (hours/system)	Planning and Mobilization (hours/system)	Unit Burden	Unit Cost
	A	B	C	B + C	D=A*(B+C)
Community Water Systems (CWSs) - SW					
≤100	\$ 25.10	4.0	8.0	12.0	\$ 301.20
101-500	\$ 27.03	4.0	8.0	12.0	\$ 324.36
501-1,000	\$ 28.96	4.0	8.0	12.0	\$ 347.52
1,001-4,100	\$ 29.73	4.0	8.0	12.0	\$ 356.76
4,101-33,000	\$ 36.00	4.0	8.0	12.0	\$ 432.00
33,001-96,000	\$ 36.39	4.0	8.0	12.0	\$ 436.68
96,001-500,000	\$ 41.01	4.0	8.0	12.0	\$ 492.12
500,001-1 Million	\$ 41.01	4.0	8.0	12.0	\$ 492.12
> 1 Million	\$ 41.01	4.0	8.0	12.0	\$ 492.12
Community Water Systems (CWSs) - GW					
≤100	\$ 25.10	4.0	8.0	12.0	\$ 301.20
101-500	\$ 27.03	4.0	8.0	12.0	\$ 324.36
501-1,000	\$ 28.96	4.0	8.0	12.0	\$ 347.52
1,001-4,100	\$ 29.73	4.0	8.0	12.0	\$ 356.76
4,101-33,000	\$ 36.00	4.0	8.0	12.0	\$ 432.00
33,001-96,000	\$ 36.39	4.0	8.0	12.0	\$ 436.68
96,001-500,000	\$ 41.01	4.0	8.0	12.0	\$ 492.12
500,001-1 Million	\$ 41.01	4.0	8.0	12.0	\$ 492.12
> 1 Million	\$ 41.01	4.0	8.0	12.0	\$ 492.12
Nontransient Noncommunity Water Systems (NTNCWSs) - SW					
≤100	\$ 25.10	4.0	8.0	12.0	\$ 301.20
101-500	\$ 27.03	4.0	8.0	12.0	\$ 324.36
501-1,000	\$ 28.96	4.0	8.0	12.0	\$ 347.52
1,001-4,100	\$ 29.73	4.0	8.0	12.0	\$ 356.76
4,101-33,000	\$ 36.00	4.0	8.0	12.0	\$ 432.00
33,001-96,000	\$ 36.39	4.0	8.0	12.0	\$ 436.68
96,001-500,000	\$ 41.01	4.0	8.0	12.0	\$ 492.12
500,001-1 Million	\$ 41.01	4.0	8.0	12.0	\$ 492.12
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Nontransient Noncommunity Water Systems (NTNCWSs) - GW					
≤100	\$ 25.10	4.0	8.0	12.0	\$ 301.20
101-500	\$ 27.03	4.0	8.0	12.0	\$ 324.36
501-1,000	\$ 28.96	4.0	8.0	12.0	\$ 347.52
1,001-4,100	\$ 29.73	4.0	8.0	12.0	\$ 356.76
4,101-33,000	\$ 36.00	4.0	8.0	12.0	\$ 432.00
33,001-96,000	\$ 36.39	4.0	8.0	12.0	\$ 436.68
96,001-500,000	\$ 41.01	4.0	8.0	12.0	\$ 492.12
500,001-1 Million	\$ 41.01	4.0	8.0	12.0	\$ 492.12
> 1 Million	\$ 41.01	4.0	8.0	12.0	\$ 492.12
Transient Noncommunity Water Systems (TNCWSs) - SW					
≤100	\$ 25.10	4.0	8.0	12.0	\$ 301.20
101-500	\$ 27.03	4.0	8.0	12.0	\$ 324.36
501-1,000	\$ 28.96	4.0	8.0	12.0	\$ 347.52
1,001-4,100	\$ 29.73	4.0	8.0	12.0	\$ 356.76
4,101-33,000	\$ 36.00	4.0	8.0	12.0	\$ 432.00
33,001-96,000	\$ 36.39	4.0	8.0	12.0	\$ 436.68
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> 1 Million	\$ 41.01	4.0	8.0	12.0	\$ 492.12
Transient Noncommunity Water Systems (TNCWSs) - GW					
≤100	\$ 25.10	4.0	8.0	12.0	\$ 301.20
101-500	\$ 27.03	4.0	8.0	12.0	\$ 324.36
501-1,000	\$ 28.96	4.0	8.0	12.0	\$ 347.52
1,001-4,100	\$ 29.73	4.0	8.0	12.0	\$ 356.76
4,101-33,000	\$ 36.00	4.0	8.0	12.0	\$ 432.00
33,001-96,000	\$ 36.39	4.0	8.0	12.0	\$ 436.68
96,001-500,000	\$ 41.01	4.0	8.0	12.0	\$ 492.12
500,001-1 Million	\$ 41.01	4.0	8.0	12.0	\$ 492.12
> 1 Million	\$ 41.01	4.0	8.0	12.0	\$ 492.12

Sources:

(A) Labor rates for PWSs from Exhibit A.1.

(B), (C) EPA estimates based on best professional judgment.

Exhibit A.3 PWS Unit Burden and Cost Estimates for Implementation Activities (1989 TCR)

PWS Size (Population Served)	Labor Cost (per hour)	Read and Understand Rule (hours/system)	Planning and Mobilization (hours/system)	Unit Burden	Unit Cost
	A	B	C	B + C	D=A*(B+C)
Community Water Systems (CWSs) - SW					
≤100	\$ 25.10	-	-	-	\$ -
101-500	\$ 27.03	-	-	-	\$ -
501-1,000	\$ 28.96	-	-	-	\$ -
1,001-4,100	\$ 29.73	-	-	-	\$ -
4,101-33,000	\$ 36.00	-	-	-	\$ -
33,001-96,000	\$ 36.39	-	-	-	\$ -
96,001-500,000	\$ 41.01	-	-	-	\$ -
500,001-1 Million	\$ 41.01	-	-	-	\$ -
> 1 Million	\$ 41.01	-	-	-	\$ -
Community Water Systems (CWSs) - GW					
≤100	\$ 25.10	-	-	-	\$ -
101-500	\$ 27.03	-	-	-	\$ -
501-1,000	\$ 28.96	-	-	-	\$ -
1,001-4,100	\$ 29.73	-	-	-	\$ -
4,101-33,000	\$ 36.00	-	-	-	\$ -
33,001-96,000	\$ 36.39	-	-	-	\$ -
96,001-500,000	\$ 41.01	-	-	-	\$ -
500,001-1 Million	\$ 41.01	-	-	-	\$ -
> 1 Million	\$ 41.01	-	-	-	\$ -
Nontransient Noncommunity Water Systems (NTNCWSs) - SW					
≤100	\$ 25.10	-	-	-	\$ -
101-500	\$ 27.03	-	-	-	\$ -
501-1,000	\$ 28.96	-	-	-	\$ -
1,001-4,100	\$ 29.73	-	-	-	\$ -
4,101-33,000	\$ 36.00	-	-	-	\$ -
33,001-96,000	\$ 36.39	-	-	-	\$ -
96,001-500,000	\$ 41.01	-	-	-	\$ -
500,001-1 Million	\$ 41.01	-	-	-	\$ -
> 1 Million	\$ 41.01	-	-	-	\$ -
Nontransient Noncommunity Water Systems (NTNCWSs) - GW					
≤100	\$ 25.10	-	-	-	\$ -
101-500	\$ 27.03	-	-	-	\$ -
501-1,000	\$ 28.96	-	-	-	\$ -
1,001-4,100	\$ 29.73	-	-	-	\$ -
4,101-33,000	\$ 36.00	-	-	-	\$ -
33,001-96,000	\$ 36.39	-	-	-	\$ -
96,001-500,000	\$ 41.01	-	-	-	\$ -
500,001-1 Million	\$ 41.01	-	-	-	\$ -
> 1 Million	\$ 41.01	-	-	-	\$ -
Transient Noncommunity Water Systems (TNCWSs) - SW					
≤100	\$ 25.10	-	-	-	\$ -
101-500	\$ 27.03	-	-	-	\$ -
501-1,000	\$ 28.96	-	-	-	\$ -
1,001-4,100	\$ 29.73	-	-	-	\$ -
4,101-33,000	\$ 36.00	-	-	-	\$ -
33,001-96,000	\$ 36.39	-	-	-	\$ -
96,001-500,000	\$ 41.01	-	-	-	\$ -
500,001-1 Million	\$ 41.01	-	-	-	\$ -
> 1 Million	\$ 41.01	-	-	-	\$ -
Transient Noncommunity Water Systems (TNCWSs) - GW					
≤100	\$ 25.10	-	-	-	\$ -
101-500	\$ 27.03	-	-	-	\$ -
501-1,000	\$ 28.96	-	-	-	\$ -
1,001-4,100	\$ 29.73	-	-	-	\$ -
4,101-33,000	\$ 36.00	-	-	-	\$ -
33,001-96,000	\$ 36.39	-	-	-	\$ -
96,001-500,000	\$ 41.01	-	-	-	\$ -
500,001-1 Million	\$ 41.01	-	-	-	\$ -
> 1 Million	\$ 41.01	-	-	-	\$ -

Notes:

(B), (C) Under the 1989 TCR, systems will not incur additional implementation burden to implement the final RTCR.

Sources:

(A) Labor rates for PWSs from Exhibit A.1.

Exhibit A.4 State Unit Burden and Cost Estimates for Implementation Activities & Annual Administration (RTCR)

State Burden and Cost Estimates for Implementation Activities (RTCR)

Compliance Activity	Labor Cost (per hour)	Hours	FTEs	Cost
	A	B	C=B/2,080	D=A*B
Read and Understand Rule	\$ 39.22	15	0.01	\$ 588
Regulation Adoption and Program Development	\$ 39.22	260	0.13	\$ 10,197
Initial Laboratory Certification	\$ 39.22	-	-	\$ -
Modify Data Management Systems	\$ 39.22	520	0.25	\$ 20,393
PWS Training and Technical Assistance	\$ 39.22	520	0.25	\$ 20,393
Staff Training	\$ 39.22	130	0.06	\$ 5,098
Per State Total		1,445		\$ 56,670
National Totals (57 States/Primacy Agencies)		82,365		\$ 3,230,201

Notes: Detail may not add due to independent rounding.

Sources: (A) Labor rate for state employee from Exhibit A.1

(B) Labor hours for start-up activities are based on GWR estimates. Because the final RTCR is a revision of the 1989 TCR, one fourth of the State unit start up burden from GWR is used in the final RTCR.

(C) Full-time equivalent (FTE) assumes individual working 40 hours per week, 52 weeks per year.

State Burden and Cost Estimates for Annual Administrative Activities (RTCR)

Annual Administrative Activities

Compliance Activity	Labor Cost (per hour)	Hours	FTEs	Cost
	A	B	C=B/2,080	D=A*B
Coordination with EPA	\$ 39.22	-	-	\$ -
Lab Certification	\$ 39.22	-	-	\$ -
Ongoing Technical Assistance	\$ 39.22	-	-	\$ -
SDWIS Reporting	\$ 39.22	-	-	\$ -
Recordkeeping	\$ 39.22	-	-	\$ -
Staff Training	\$ 39.22	-	-	\$ -
Per State Total		-		\$ -
National Totals (57 States/Primacy Agencies)		-		\$ -

Notes: Detail may not add due to independent rounding.

Sources: (A) Labor rate for state employee from Exhibit A.1.

(B) Under the RTCR, states will not incur additional annual administration burden for ongoing implementation of the final RTCR.

(C) Full-time equivalent (FTE) assumes individual working 40 hours per week, 52 weeks per year.

Exhibit A.5 State Unit Burden and Cost Estimates for Implementation Activities & Annual Administration (1989 TCR)

State Burden and Cost Estimates for Implementation Activities (1989 TCR)

Compliance Activity	Labor Cost (per hour)	Hours	FTEs	Cost
	A	B	C=B/2,080	D=A*B
Read and Understand Rule	\$ 39.22	-	-	\$ -
Regulation Adoption and Program Development	\$ 39.22	-	-	\$ -
Initial Laboratory Certification	\$ 39.22	-	-	\$ -
Modify Data Management Systems	\$ 39.22	-	-	\$ -
PWS Training and Technical Assistance	\$ 39.22	-	-	\$ -
Staff Training	\$ 39.22	-	-	\$ -
Per State Total		-		\$ -
National Totals (57 States/Primacy Agencies)		-		\$ -

Notes: Detail may not add due to independent rounding.

Sources: (A) Labor rate for state employee from Exhibit A.1.

(B) Under the 1989 TCR, states will not incur additional implementation burden to implement the final RTCR.

(C) Full-time equivalent (FTE) assumes individual working 40 hours per week, 52 weeks per year.

**State Burden and Cost Estimates for
Annual Administrative Activities (1989 TCR)**

Annual Administrative Activities

Compliance Activity	Labor Cost (per hour)	Hours	FTEs	Cost
	A	B	C=B/2,080	D=A*B
Coordination with EPA	\$ 39.22	-	-	\$ -
Lab Certification	\$ 39.22	-	-	\$ -
Ongoing Technical Assistance	\$ 39.22	-	-	\$ -
SDWIS Reporting	\$ 39.22	-	-	\$ -
Recordkeeping	\$ 39.22	-	-	\$ -
Staff Training	\$ 39.22	-	-	\$ -
Per State Total		-		\$ -
National Totals (57 States/Primacy Agencies)		-		\$ -

Notes: Detail may not add due to independent rounding.

Sources: (A) Labor rate for state employee from Exhibit A.1.

(B) Under the 1989 TCR, states will not incur additional annual administration burden for ongoing implementation of the final RTCR.

(C) Full-time equivalent (FTE) assumes individual working 40 hours per week, 52 weeks per year.

**Exhibit A.6 PWS Unit Burden and Cost Estimates to Revise
Sample Siting Plan (RTCR)**

PWS Size (Population Served)	Labor Cost (per hour)	Revise Sample Siting Plan (hours/system)	Unit Cost
	A	B	C=A*B
Community Water Systems (CWSs) - SW			
≤100	\$ 25.10	2.0	\$ 50.20
101-500	\$ 27.03	2.0	\$ 54.06
501-1,000	\$ 28.96	4.0	\$ 115.84
1,001-4,100	\$ 29.73	4.0	\$ 118.92
4,101-33,000	\$ 36.00	6.0	\$ 216.00
33,001-96,000	\$ 36.39	8.0	\$ 291.12
96,001-500,000	\$ 41.01	8.0	\$ 328.08
500,001-1 Million	\$ 41.01	8.0	\$ 328.08
> 1 Million	\$ 41.01	8.0	\$ 328.08
Community Water Systems (CWSs) - GW			
≤100	\$ 25.10	2.0	\$ 50.20
101-500	\$ 27.03	2.0	\$ 54.06
501-1,000	\$ 28.96	4.0	\$ 115.84
1,001-4,100	\$ 29.73	4.0	\$ 118.92
4,101-33,000	\$ 36.00	6.0	\$ 216.00
33,001-96,000	\$ 36.39	8.0	\$ 291.12
96,001-500,000	\$ 41.01	8.0	\$ 328.08
500,001-1 Million	\$ 41.01	8.0	\$ 328.08
> 1 Million	\$ 41.01	8.0	\$ 328.08
Nontransient Noncommunity Water Systems (NTNCWSs) - SW			
≤100	\$ 25.10	2.0	\$ 50.20
101-500	\$ 27.03	2.0	\$ 54.06
501-1,000	\$ 28.96	4.0	\$ 115.84
1,001-4,100	\$ 29.73	4.0	\$ 118.92
4,101-33,000	\$ 36.00	6.0	\$ 216.00
33,001-96,000	\$ 36.39	8.0	\$ 291.12
96,001-500,000	\$ 41.01	8.0	\$ 328.08
500,001-1 Million	\$ 41.01	8.0	\$ 328.08
> 1 Million	\$ 41.01	8.0	\$ 328.08
Nontransient Noncommunity Water Systems (NTNCWSs) - GW			
≤100	\$ 25.10	2.0	\$ 50.20
101-500	\$ 27.03	2.0	\$ 54.06
501-1,000	\$ 28.96	4.0	\$ 115.84
1,001-4,100	\$ 29.73	4.0	\$ 118.92
4,101-33,000	\$ 36.00	6.0	\$ 216.00
33,001-96,000	\$ 36.39	8.0	\$ 291.12
96,001-500,000	\$ 41.01	8.0	\$ 328.08
500,001-1 Million	\$ 41.01	8.0	\$ 328.08
> 1 Million	\$ 41.01	8.0	\$ 328.08
Transient Noncommunity Water Systems (TNCWSs) - SW			
≤100	\$ 25.10	2.0	\$ 50.20
101-500	\$ 27.03	2.0	\$ 54.06
501-1,000	\$ 28.96	4.0	\$ 115.84
1,001-4,100	\$ 29.73	4.0	\$ 118.92
4,101-33,000	\$ 36.00	6.0	\$ 216.00
33,001-96,000	\$ 36.39	8.0	\$ 291.12
96,001-500,000	\$ 41.01	8.0	\$ 328.08
500,001-1 Million	\$ 41.01	8.0	\$ 328.08
> 1 Million	\$ 41.01	8.0	\$ 328.08
Transient Noncommunity Water Systems (TNCWSs) - GW			
≤100	\$ 25.10	2.0	\$ 50.20
101-500	\$ 27.03	2.0	\$ 54.06
501-1,000	\$ 28.96	4.0	\$ 115.84
1,001-4,100	\$ 29.73	4.0	\$ 118.92
4,101-33,000	\$ 36.00	6.0	\$ 216.00
33,001-96,000	\$ 36.39	8.0	\$ 291.12
96,001-500,000	\$ 41.01	8.0	\$ 328.08
500,001-1 Million	\$ 41.01	8.0	\$ 328.08
> 1 Million	\$ 41.01	8.0	\$ 328.08

Sources:

(A) Labor rates for PWSs from Exhibit A.1.

(B) Labor hours for revising sample siting plan reflect EPA estimate.

**Exhibit A.7 PWS Unit Burden and Cost Estimates to Revise
Sample Siting Plan (1989 TCR)**

PWS Size (Population Served)	Labor Cost (per hour)	Revise Sample Siting Plan (hours/system)	Unit Cost
	A	B	C=A*B
Community Water Systems (CWSs) - SW			
≤100	\$ 25.10	-	\$ -
101-500	\$ 27.03	-	\$ -
501-1,000	\$ 28.96	-	\$ -
1,001-4,100	\$ 29.73	-	\$ -
4,101-33,000	\$ 36.00	-	\$ -
33,001-96,000	\$ 36.39	-	\$ -
96,001-500,000	\$ 41.01	-	\$ -
500,001-1 Million	\$ 41.01	-	\$ -
> 1 Million	\$ 41.01	-	\$ -
Community Water Systems (CWSs) - GW			
≤100	\$ 25.10	-	\$ -
101-500	\$ 27.03	-	\$ -
501-1,000	\$ 28.96	-	\$ -
1,001-4,100	\$ 29.73	-	\$ -
4,101-33,000	\$ 36.00	-	\$ -
33,001-96,000	\$ 36.39	-	\$ -
96,001-500,000	\$ 41.01	-	\$ -
500,001-1 Million	\$ 41.01	-	\$ -
> 1 Million	\$ 41.01	-	\$ -
Nontransient Noncommunity Water Systems (NTNCWSs) - SW			
≤100	\$ 25.10	-	\$ -
101-500	\$ 27.03	-	\$ -
501-1,000	\$ 28.96	-	\$ -
1,001-4,100	\$ 29.73	-	\$ -
4,101-33,000	\$ 36.00	-	\$ -
33,001-96,000	\$ 36.39	-	\$ -
96,001-500,000	\$ 41.01	-	\$ -
500,001-1 Million	\$ 41.01	-	\$ -
> 1 Million	\$ 41.01	-	\$ -
Nontransient Noncommunity Water Systems (NTNCWSs) - GW			
≤100	\$ 25.10	-	\$ -
101-500	\$ 27.03	-	\$ -
501-1,000	\$ 28.96	-	\$ -
1,001-4,100	\$ 29.73	-	\$ -
4,101-33,000	\$ 36.00	-	\$ -
33,001-96,000	\$ 36.39	-	\$ -
96,001-500,000	\$ 41.01	-	\$ -
500,001-1 Million	\$ 41.01	-	\$ -
> 1 Million	\$ 41.01	-	\$ -
Transient Noncommunity Water Systems (TNCWSs) - SW			
≤100	\$ 25.10	-	\$ -
101-500	\$ 27.03	-	\$ -
501-1,000	\$ 28.96	-	\$ -
1,001-4,100	\$ 29.73	-	\$ -
4,101-33,000	\$ 36.00	-	\$ -
33,001-96,000	\$ 36.39	-	\$ -
96,001-500,000	\$ 41.01	-	\$ -
500,001-1 Million	\$ 41.01	-	\$ -
> 1 Million	\$ 41.01	-	\$ -
Transient Noncommunity Water Systems (TNCWSs) - GW			
≤100	\$ 25.10	-	\$ -
101-500	\$ 27.03	-	\$ -
501-1,000	\$ 28.96	-	\$ -
1,001-4,100	\$ 29.73	-	\$ -
4,101-33,000	\$ 36.00	-	\$ -
33,001-96,000	\$ 36.39	-	\$ -
96,001-500,000	\$ 41.01	-	\$ -
500,001-1 Million	\$ 41.01	-	\$ -
> 1 Million	\$ 41.01	-	\$ -

Notes:

(B) Under the 1989 TCR, systems are not required to revise their sample siting plans.

Sources:

(A) Labor rates for PWSs from Exhibit A.1.

**Exhibit A.8 State Unit Burden and Cost Estimates to Revise
Sample Siting Plan (RTCR)**

PWS Size (Population Served)	Labor Cost (per hour)	Review and Revise Sample Siting Plan (hours/system)	Unit Cost
	A	B	C=A*B
Community Water Systems (CWSs) - SW			
≤100	\$ 39.22	1.0	\$ 39.22
101-500	\$ 39.22	1.0	\$ 39.22
501-1,000	\$ 39.22	2.0	\$ 78.44
1,001-4,100	\$ 39.22	2.0	\$ 78.44
4,101-33,000	\$ 39.22	3.0	\$ 117.65
33,001-96,000	\$ 39.22	4.0	\$ 156.87
96,001-500,000	\$ 39.22	4.0	\$ 156.87
500,001-1 Million	\$ 39.22	4.0	\$ 156.87
> 1 Million	\$ 39.22	4.0	\$ 156.87
Community Water Systems (CWSs) - GW			
≤100	\$ 39.22	1.0	\$ 39.22
101-500	\$ 39.22	1.0	\$ 39.22
501-1,000	\$ 39.22	2.0	\$ 78.44
1,001-4,100	\$ 39.22	2.0	\$ 78.44
4,101-33,000	\$ 39.22	3.0	\$ 117.65
33,001-96,000	\$ 39.22	4.0	\$ 156.87
96,001-500,000	\$ 39.22	4.0	\$ 156.87
500,001-1 Million	\$ 39.22	4.0	\$ 156.87
> 1 Million	\$ 39.22	4.0	\$ 156.87
Nontransient Noncommunity Water Systems (NTNCWSs) - SW			
≤100	\$ 39.22	1.0	\$ 39.22
101-500	\$ 39.22	1.0	\$ 39.22
501-1,000	\$ 39.22	2.0	\$ 78.44
1,001-4,100	\$ 39.22	2.0	\$ 78.44
4,101-33,000	\$ 39.22	3.0	\$ 117.65
33,001-96,000	\$ 39.22	4.0	\$ 156.87
96,001-500,000	\$ 39.22	4.0	\$ 156.87
500,001-1 Million	\$ 39.22	4.0	\$ 156.87
> 1 Million	\$ 39.22	4.0	\$ 156.87
Nontransient Noncommunity Water Systems (NTNCWSs) - GW			
≤100	\$ 39.22	1.0	\$ 39.22
101-500	\$ 39.22	1.0	\$ 39.22
501-1,000	\$ 39.22	2.0	\$ 78.44
1,001-4,100	\$ 39.22	2.0	\$ 78.44
4,101-33,000	\$ 39.22	3.0	\$ 117.65
33,001-96,000	\$ 39.22	4.0	\$ 156.87
96,001-500,000	\$ 39.22	4.0	\$ 156.87
500,001-1 Million	\$ 39.22	4.0	\$ 156.87
> 1 Million	\$ 39.22	4.0	\$ 156.87
Transient Noncommunity Water Systems (TNCWSs) - SW			
≤100	\$ 39.22	1.0	\$ 39.22
101-500	\$ 39.22	1.0	\$ 39.22
501-1,000	\$ 39.22	2.0	\$ 78.44
1,001-4,100	\$ 39.22	2.0	\$ 78.44
4,101-33,000	\$ 39.22	3.0	\$ 117.65
33,001-96,000	\$ 39.22	4.0	\$ 156.87
96,001-500,000	\$ 39.22	4.0	\$ 156.87
500,001-1 Million	\$ 39.22	4.0	\$ 156.87
> 1 Million	\$ 39.22	4.0	\$ 156.87
Transient Noncommunity Water Systems (TNCWSs) - GW			
≤100	\$ 39.22	1.0	\$ 39.22
101-500	\$ 39.22	1.0	\$ 39.22
501-1,000	\$ 39.22	2.0	\$ 78.44
1,001-4,100	\$ 39.22	2.0	\$ 78.44
4,101-33,000	\$ 39.22	3.0	\$ 117.65
33,001-96,000	\$ 39.22	4.0	\$ 156.87
96,001-500,000	\$ 39.22	4.0	\$ 156.87
500,001-1 Million	\$ 39.22	4.0	\$ 156.87
> 1 Million	\$ 39.22	4.0	\$ 156.87

Sources:

(A) Labor rates for state employee from Exhibit A.1.

(B) Labor hours for reviewing and revising sample siting plan reflect EPA estimate.

**Exhibit A.9 State Unit Burden and Cost Estimates to Revise
Sample Siting Plan (1989 TCR)**

PWS Size (Population Served)	Labor Cost (per hour)	Review and Revise Sample Siting Plan (hours/system)	Unit Cost
	A	B	C=A*B
Community Water Systems (CWSs) - SW			
≤100	\$ 39.22	-	\$ -
101-500	\$ 39.22	-	\$ -
501-1,000	\$ 39.22	-	\$ -
1,001-4,100	\$ 39.22	-	\$ -
4,101-33,000	\$ 39.22	-	\$ -
33,001-96,000	\$ 39.22	-	\$ -
96,001-500,000	\$ 39.22	-	\$ -
500,001-1 Million	\$ 39.22	-	\$ -
> 1 Million	\$ 39.22	-	\$ -
Community Water Systems (CWSs) - GW			
≤100	\$ 39.22	-	\$ -
101-500	\$ 39.22	-	\$ -
501-1,000	\$ 39.22	-	\$ -
1,001-4,100	\$ 39.22	-	\$ -
4,101-33,000	\$ 39.22	-	\$ -
33,001-96,000	\$ 39.22	-	\$ -
96,001-500,000	\$ 39.22	-	\$ -
500,001-1 Million	\$ 39.22	-	\$ -
> 1 Million	\$ 39.22	-	\$ -
Nontransient Noncommunity Water Systems (NTNCWSs) - SW			
≤100	\$ 39.22	-	\$ -
101-500	\$ 39.22	-	\$ -
501-1,000	\$ 39.22	-	\$ -
1,001-4,100	\$ 39.22	-	\$ -
4,101-33,000	\$ 39.22	-	\$ -
33,001-96,000	\$ 39.22	-	\$ -
96,001-500,000	\$ 39.22	-	\$ -
500,001-1 Million	\$ 39.22	-	\$ -
> 1 Million	\$ 39.22	-	\$ -
Nontransient Noncommunity Water Systems (NTNCWSs) - GW			
≤100	\$ 39.22	-	\$ -
101-500	\$ 39.22	-	\$ -
501-1,000	\$ 39.22	-	\$ -
1,001-4,100	\$ 39.22	-	\$ -
4,101-33,000	\$ 39.22	-	\$ -
33,001-96,000	\$ 39.22	-	\$ -
96,001-500,000	\$ 39.22	-	\$ -
500,001-1 Million	\$ 39.22	-	\$ -
> 1 Million	\$ 39.22	-	\$ -
Transient Noncommunity Water Systems (TNCWSs) - SW			
≤100	\$ 39.22	-	\$ -
101-500	\$ 39.22	-	\$ -
501-1,000	\$ 39.22	-	\$ -
1,001-4,100	\$ 39.22	-	\$ -
4,101-33,000	\$ 39.22	-	\$ -
33,001-96,000	\$ 39.22	-	\$ -
96,001-500,000	\$ 39.22	-	\$ -
500,001-1 Million	\$ 39.22	-	\$ -
> 1 Million	\$ 39.22	-	\$ -
Transient Noncommunity Water Systems (TNCWSs) - GW			
≤100	\$ 39.22	-	\$ -
101-500	\$ 39.22	-	\$ -
501-1,000	\$ 39.22	-	\$ -
1,001-4,100	\$ 39.22	-	\$ -
4,101-33,000	\$ 39.22	-	\$ -
33,001-96,000	\$ 39.22	-	\$ -
96,001-500,000	\$ 39.22	-	\$ -
500,001-1 Million	\$ 39.22	-	\$ -
> 1 Million	\$ 39.22	-	\$ -

Notes:

(B) Reviewing and revising sample siting plans is not required under the 1989 TCR.

Sources:

(A) Labor rates for state employee from Exhibit A.1.

Exhibit A.10 Lab Costs by Size Category (RTCR)

System Size (Population Served)	Routine Monitoring			Routine with Additional Monitoring (Yrs 4-25: SW systems, GW >1,000)			Routine with Additional Monitoring Yrs 4-8 (GW <1,000)			Routine with Additional Monitoring Yrs 9-25 (GW <1,000)			Repeat Monitoring		
	Unit Burden	Unit Cost (Labor)	Unit Cost (O&M)	Unit Burden	Unit Cost (Labor)	Unit Cost (O&M)	Unit Burden	Unit Cost (Labor)	Unit Cost (O&M)	Unit Burden	Unit Cost (Labor)	Unit Cost (O&M)	Unit Burden	Unit Cost (Labor)	Unit Cost (O&M)
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
	Community Water Systems (CWSs) - SW														
≤100	0.50	\$ 12.55	\$ 37.99	0.50	\$ 12.55	\$ 37.99							0.50	\$ 12.55	\$ 27.46
101-500	0.50	\$ 13.52	\$ 38.04	0.50	\$ 13.52	\$ 38.04							0.50	\$ 13.52	\$ 27.47
501-1,000	0.75	\$ 21.72	\$ 38.09	0.75	\$ 21.72	\$ 38.09							0.75	\$ 21.72	\$ 27.49
1,001-4,100	0.75	\$ 22.30	\$ 27.49	0.75	\$ 22.30	\$ 27.49							0.75	\$ 22.30	\$ 27.49
4,101-33,000	0.75	\$ 27.00	\$ 25.40	0.75	\$ 27.00	\$ 25.40							0.75	\$ 27.00	\$ 25.40
33,001-96,000	1.00	\$ 36.39	\$ 17.75	1.00	\$ 36.39	\$ 17.75							1.00	\$ 36.39	\$ 17.75
96,001-500,000	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62							1.45	\$ 59.46	\$ 11.62
500,001-1 Million	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62							1.45	\$ 59.46	\$ 11.62
> 1 Million	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62							1.45	\$ 59.46	\$ 11.62
Community Water Systems (CWSs) - GW															
≤100	0.50	\$ 12.55	\$ 37.99	0.50	\$ 12.55	\$ 37.99	0.50	\$ 12.55	\$ 37.99	0.50	\$ 12.55	\$ 37.99	0.50	\$ 12.55	\$ 27.46
101-500	0.50	\$ 13.52	\$ 38.04	0.50	\$ 13.52	\$ 38.04	0.50	\$ 13.52	\$ 38.04	0.50	\$ 13.52	\$ 38.04	0.50	\$ 13.52	\$ 27.47
501-1,000	0.75	\$ 21.72	\$ 38.09	0.75	\$ 21.72	\$ 38.09	0.75	\$ 21.72	\$ 38.09	0.75	\$ 21.72	\$ 38.09	0.75	\$ 21.72	\$ 27.49
1,001-4,100	0.75	\$ 22.30	\$ 30.15	0.75	\$ 22.30	\$ 30.15							0.75	\$ 22.30	\$ 27.49
4,101-33,000	0.75	\$ 27.00	\$ 25.40	0.75	\$ 27.00	\$ 25.40							0.75	\$ 27.00	\$ 25.40
33,001-96,000	1.00	\$ 36.39	\$ 17.75	1.00	\$ 36.39	\$ 17.75							1.00	\$ 36.39	\$ 17.75
96,001-500,000	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62							1.45	\$ 59.46	\$ 11.62
500,001-1 Million	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62							1.45	\$ 59.46	\$ 11.62
> 1 Million	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62							1.45	\$ 59.46	\$ 11.62
Nontransient Noncommunity Water Systems (NTNCWSs) - SW															
≤100	0.50	\$ 12.55	\$ 37.99	0.50	\$ 12.55	\$ 37.99							0.50	\$ 12.55	\$ 27.46
101-500	0.50	\$ 13.52	\$ 38.04	0.50	\$ 13.52	\$ 38.04							0.50	\$ 13.52	\$ 27.47
501-1,000	0.75	\$ 21.72	\$ 38.09	0.75	\$ 21.72	\$ 38.09							0.75	\$ 21.72	\$ 27.49
1,001-4,100	0.75	\$ 22.30	\$ 30.15	0.75	\$ 22.30	\$ 30.15							0.75	\$ 22.30	\$ 27.49
4,101-33,000	0.75	\$ 27.00	\$ 25.40	0.75	\$ 27.00	\$ 25.40							0.75	\$ 27.00	\$ 25.40
33,001-96,000	1.00	\$ 36.39	\$ 17.75	1.00	\$ 36.39	\$ 17.75							1.00	\$ 36.39	\$ 17.75
96,001-500,000	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62							1.45	\$ 59.46	\$ 11.62
500,001-1 Million	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62							1.45	\$ 59.46	\$ 11.62
> 1 Million	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62							1.45	\$ 59.46	\$ 11.62
Nontransient Noncommunity Water Systems (NTNCWSs) - GW															
≤100	0.50	\$ 12.55	\$ 37.99	0.50	\$ 12.55	\$ 37.99	0.50	\$ 12.55	\$ 27.46	0.50	\$ 12.55	\$ 27.46	0.50	\$ 12.55	\$ 27.46
101-500	0.50	\$ 13.52	\$ 38.04	0.50	\$ 13.52	\$ 38.04	0.50	\$ 13.52	\$ 27.47	0.50	\$ 13.52	\$ 27.47	0.50	\$ 13.52	\$ 27.47
501-1,000	0.75	\$ 21.72	\$ 38.09	0.75	\$ 21.72	\$ 38.09	0.75	\$ 21.72	\$ 27.49	0.75	\$ 21.72	\$ 27.49	0.75	\$ 21.72	\$ 27.49
1,001-4,100	0.75	\$ 22.30	\$ 30.15	0.75	\$ 22.30	\$ 30.15							0.75	\$ 22.30	\$ 27.49
4,101-33,000	0.75	\$ 27.00	\$ 25.40	0.75	\$ 27.00	\$ 25.40							0.75	\$ 27.00	\$ 25.40
33,001-96,000	1.00	\$ 36.39	\$ 17.75	1.00	\$ 36.39	\$ 17.75							1.00	\$ 36.39	\$ 17.75
96,001-500,000	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62							1.45	\$ 59.46	\$ 11.62
500,001-1 Million	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62							1.45	\$ 59.46	\$ 11.62
> 1 Million	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62							1.45	\$ 59.46	\$ 11.62
Transient Noncommunity Water Systems (TNCWSs) - SW															
≤100	0.50	\$ 12.55	\$ 37.99	0.50	\$ 12.55	\$ 37.99							0.50	\$ 12.55	\$ 27.46
101-500	0.50	\$ 13.52	\$ 38.04	0.50	\$ 13.52	\$ 38.04							0.50	\$ 13.52	\$ 27.47
501-1,000	0.75	\$ 21.72	\$ 38.09	0.75	\$ 21.72	\$ 38.09							0.75	\$ 21.72	\$ 27.49
1,001-4,100	0.75	\$ 22.30	\$ 30.15	0.75	\$ 22.30	\$ 30.15							0.75	\$ 22.30	\$ 27.49
4,101-33,000	0.75	\$ 27.00	\$ 25.40	0.75	\$ 27.00	\$ 25.40							0.75	\$ 27.00	\$ 25.40
33,001-96,000	1.00	\$ 36.39	\$ 17.75	1.00	\$ 36.39	\$ 17.75							1.00	\$ 36.39	\$ 17.75
96,001-500,000	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62							1.45	\$ 59.46	\$ 11.62
500,001-1 Million	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62							1.45	\$ 59.46	\$ 11.62
> 1 Million	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62							1.45	\$ 59.46	\$ 11.62
Transient Noncommunity Water Systems (TNCWSs) - GW															
≤100	0.50	\$ 12.55	\$ 37.99	0.50	\$ 12.55	\$ 37.99	0.50	\$ 12.55	\$ 27.46	0.50	\$ 12.55	\$ 27.46	0.50	\$ 12.55	\$ 27.46
101-500	0.50	\$ 13.52	\$ 38.04	0.50	\$ 13.52	\$ 38.04	0.50	\$ 13.52	\$ 27.47	0.50	\$ 13.52	\$ 27.47	0.50	\$ 13.52	\$ 27.47
501-1,000	0.75	\$ 21.72	\$ 38.09	0.75	\$ 21.72	\$ 38.09	0.75	\$ 21.72	\$ 27.49	0.75	\$ 21.72	\$ 27.49	0.75	\$ 21.72	\$ 27.49
1,001-4,100	0.75	\$ 22.30	\$ 30.15	0.75	\$ 22.30	\$ 30.15							0.75	\$ 22.30	\$ 27.49
4,101-33,000	0.75	\$ 27.00	\$ 25.40	0.75	\$ 27.00	\$ 25.40							0.75	\$ 27.00	\$ 25.40
33,001-96,000	1.00	\$ 36.39	\$ 17.75	1.00	\$ 36.39	\$ 17.75							1.00	\$ 36.39	\$ 17.75
96,001-500,000	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62							1.45	\$ 59.46	\$ 11.62
500,001-1 Million	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62							1.45	\$ 59.46	\$ 11.62
> 1 Million	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62							1.45	\$ 59.46	\$ 11.62

Source:

Unit burden and costs derived from Final RTCR T&C Document¹.

¹ US Environmental Protection Agency, 2010. Technology and Cost Document for the Final Revised Total Coliform Rule, EPA 815-R-10-002.

Exhibit A.11 Lab Costs by Size Category (1989 TCR)

System Size (Population Served)	Routine Monitoring			Routine with Additional Monitoring			Repeat Monitoring		
	Unit Burden	Unit Cost (Labor)	Unit Cost (O&M)	Unit Burden	Unit Cost (Labor)	Unit Cost (O&M)	Unit Burden	Unit Cost (Labor)	Unit Cost (O&M)
	A	B	C	D	E	F	G	H	I
Community Water Systems (CWSs) - SW									
≤100	0.50	\$ 12.55	\$ 37.99	0.50	\$ 12.55	\$ 25.35	0.50	\$ 12.55	\$ 26.14
101-500	0.50	\$ 13.52	\$ 38.04	0.50	\$ 13.52	\$ 25.36	0.50	\$ 13.52	\$ 26.15
501-1,000	0.75	\$ 21.72	\$ 38.09	0.75	\$ 21.72	\$ 25.37	0.75	\$ 21.72	\$ 26.16
1,001-4,100	0.75	\$ 22.30	\$ 27.49	0.75	\$ 22.30	\$ 25.37	0.75	\$ 22.30	\$ 27.49
4,101-33,000	0.75	\$ 27.00	\$ 25.40	0.75	\$ 27.00	\$ 25.40	0.75	\$ 27.00	\$ 25.40
33,001-96,000	1.00	\$ 36.39	\$ 17.75	1.00	\$ 36.39	\$ 17.75	1.00	\$ 36.39	\$ 17.75
96,001-500,000	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62
500,001-1 Million	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62
> 1 Million	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62
Community Water Systems (CWSs) - GW									
≤100	0.50	\$ 12.55	\$ 37.99	0.50	\$ 12.55	\$ 25.35	0.50	\$ 12.55	\$ 26.14
101-500	0.50	\$ 13.52	\$ 38.04	0.50	\$ 13.52	\$ 25.36	0.50	\$ 13.52	\$ 26.15
501-1,000	0.75	\$ 21.72	\$ 38.09	0.75	\$ 21.72	\$ 25.37	0.75	\$ 21.72	\$ 26.16
1,001-4,100	0.75	\$ 22.30	\$ 30.15	0.75	\$ 22.30	\$ 25.37	0.75	\$ 22.30	\$ 27.49
4,101-33,000	0.75	\$ 27.00	\$ 25.40	0.75	\$ 27.00	\$ 25.40	0.75	\$ 27.00	\$ 25.40
33,001-96,000	1.00	\$ 36.39	\$ 17.75	1.00	\$ 36.39	\$ 17.75	1.00	\$ 36.39	\$ 17.75
96,001-500,000	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62
500,001-1 Million	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62
> 1 Million	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62
Nontransient Noncommunity Water Systems (NTNCWSs) - SW									
≤100	0.50	\$ 12.55	\$ 37.99	0.50	\$ 12.55	\$ 25.35	0.50	\$ 12.55	\$ 26.14
101-500	0.50	\$ 13.52	\$ 38.04	0.50	\$ 13.52	\$ 25.36	0.50	\$ 13.52	\$ 26.15
501-1,000	0.75	\$ 21.72	\$ 38.09	0.75	\$ 21.72	\$ 25.37	0.75	\$ 21.72	\$ 26.16
1,001-4,100	0.75	\$ 22.30	\$ 30.15	0.75	\$ 22.30	\$ 25.37	0.75	\$ 22.30	\$ 27.49
4,101-33,000	0.75	\$ 27.00	\$ 25.40	0.75	\$ 27.00	\$ 25.40	0.75	\$ 27.00	\$ 25.40
33,001-96,000	1.00	\$ 36.39	\$ 17.75	1.00	\$ 36.39	\$ 17.75	1.00	\$ 36.39	\$ 17.75
96,001-500,000	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62
500,001-1 Million	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62
> 1 Million	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62
Nontransient Noncommunity Water Systems (NTNCWSs) - GW									
≤100	0.50	\$ 12.55	\$ 37.99	0.50	\$ 12.55	\$ 25.35	0.50	\$ 12.55	\$ 26.14
101-500	0.50	\$ 13.52	\$ 38.04	0.50	\$ 13.52	\$ 25.36	0.50	\$ 13.52	\$ 26.15
501-1,000	0.75	\$ 21.72	\$ 38.09	0.75	\$ 21.72	\$ 25.37	0.75	\$ 21.72	\$ 26.16
1,001-4,100	0.75	\$ 22.30	\$ 30.15	0.75	\$ 22.30	\$ 25.37	0.75	\$ 22.30	\$ 27.49
4,101-33,000	0.75	\$ 27.00	\$ 25.40	0.75	\$ 27.00	\$ 25.40	0.75	\$ 27.00	\$ 25.40
33,001-96,000	1.00	\$ 36.39	\$ 17.75	1.00	\$ 36.39	\$ 17.75	1.00	\$ 36.39	\$ 17.75
96,001-500,000	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62
500,001-1 Million	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62
> 1 Million	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62
Transient Noncommunity Water Systems (TNCWSs) - SW									
≤100	0.50	\$ 12.55	\$ 37.99	0.50	\$ 12.55	\$ 25.35	0.50	\$ 12.55	\$ 26.14
101-500	0.50	\$ 13.52	\$ 38.04	0.50	\$ 13.52	\$ 25.36	0.50	\$ 13.52	\$ 26.15
501-1,000	0.75	\$ 21.72	\$ 38.09	0.75	\$ 21.72	\$ 25.37	0.75	\$ 21.72	\$ 26.16
1,001-4,100	0.75	\$ 22.30	\$ 30.15	0.75	\$ 22.30	\$ 25.37	0.75	\$ 22.30	\$ 27.49
4,101-33,000	0.75	\$ 27.00	\$ 25.40	0.75	\$ 27.00	\$ 25.40	0.75	\$ 27.00	\$ 25.40
33,001-96,000	1.00	\$ 36.39	\$ 17.75	1.00	\$ 36.39	\$ 17.75	1.00	\$ 36.39	\$ 17.75
96,001-500,000	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62
500,001-1 Million	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62
> 1 Million	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62
Transient Noncommunity Water Systems (TNCWSs) - GW									
≤100	0.50	\$ 12.55	\$ 37.99	0.50	\$ 12.55	\$ 25.35	0.50	\$ 12.55	\$ 26.14
101-500	0.50	\$ 13.52	\$ 38.04	0.50	\$ 13.52	\$ 25.36	0.50	\$ 13.52	\$ 26.15
501-1,000	0.75	\$ 21.72	\$ 38.09	0.75	\$ 21.72	\$ 25.37	0.75	\$ 21.72	\$ 26.16
1,001-4,100	0.75	\$ 22.30	\$ 30.15	0.75	\$ 22.30	\$ 25.37	0.75	\$ 22.30	\$ 27.49
4,101-33,000	0.75	\$ 27.00	\$ 25.40	0.75	\$ 27.00	\$ 25.40	0.75	\$ 27.00	\$ 25.40
33,001-96,000	1.00	\$ 36.39	\$ 17.75	1.00	\$ 36.39	\$ 17.75	1.00	\$ 36.39	\$ 17.75
96,001-500,000	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62
500,001-1 Million	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62
> 1 Million	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62	1.45	\$ 59.46	\$ 11.62

Source:

Unit burden and costs derived from Final RTCR T&C Document¹.

¹ US Environmental Protection Agency. 2010. Technology and Cost Document for the Final Revised Total Coliform Rule. EPA 815-R-10-002.

Exhibit A.12 PWS Unit Burden and Cost Estimates for Annual Site Visits (RTCR)

PWS Size (Population Served)	Labor Cost (per hour)	Annual Site Visit (hours/PWS)	Unit Cost
	A	B	C=A*B
Community Water Systems (CWSs) - SW			
≤100	\$ 25.10	23.0	\$ 577.30
101-500	\$ 27.03	23.0	\$ 621.69
501-1,000	\$ 28.96	24.0	\$ 695.04
1,001-4,100	\$ 29.73	48.0	\$ 1,427.04
4,101-33,000	\$ 36.00	71.0	\$ 2,556.00
33,001-96,000	\$ 36.39	121.0	\$ 4,403.19
96,001-500,000	\$ 41.01	252.0	\$ 10,334.52
500,001-1 Million	\$ 41.01	252.0	\$ 10,334.52
> 1 Million	\$ 41.01	252.0	\$ 10,334.52
Community Water Systems (CWSs) - GW			
≤100	\$ 25.10	23.0	\$ 577.30
101-500	\$ 27.03	23.0	\$ 621.69
501-1,000	\$ 28.96	24.0	\$ 695.04
1,001-4,100	\$ 29.73	48.0	\$ 1,427.04
4,101-33,000	\$ 36.00	71.0	\$ 2,556.00
33,001-96,000	\$ 36.39	121.0	\$ 4,403.19
96,001-500,000	\$ 41.01	252.0	\$ 10,334.52
500,001-1 Million	\$ 41.01	252.0	\$ 10,334.52
> 1 Million	\$ 41.01	252.0	\$ 10,334.52
Nontransient Noncommunity Water Systems (NTNCWSs) - SW			
≤100	\$ 25.10	21.0	\$ 527.10
101-500	\$ 27.03	21.0	\$ 567.63
501-1,000	\$ 28.96	21.0	\$ 608.16
1,001-4,100	\$ 29.73	29.0	\$ 862.17
4,101-33,000	\$ 36.00	71.0	\$ 2,556.00
33,001-96,000	\$ 36.39	121.0	\$ 4,403.19
96,001-500,000	\$ 41.01	252.0	\$ 10,334.52
500,001-1 Million	\$ 41.01	252.0	\$ 10,334.52
> 1 Million	\$ 41.01	252.0	\$ 10,334.52
Nontransient Noncommunity Water Systems (NTNCWSs) - GW			
≤100	\$ 25.10	21.0	\$ 527.10
101-500	\$ 27.03	21.0	\$ 567.63
501-1,000	\$ 28.96	21.0	\$ 608.16
1,001-4,100	\$ 29.73	29.0	\$ 862.17
4,101-33,000	\$ 36.00	71.0	\$ 2,556.00
33,001-96,000	\$ 36.39	121.0	\$ 4,403.19
96,001-500,000	\$ 41.01	252.0	\$ 10,334.52
500,001-1 Million	\$ 41.01	252.0	\$ 10,334.52
> 1 Million	\$ 41.01	252.0	\$ 10,334.52
Transient Noncommunity Water Systems (TNCWSs) - SW			
≤100	\$ 25.10	21.0	\$ 527.10
101-500	\$ 27.03	21.0	\$ 567.63
501-1,000	\$ 28.96	21.0	\$ 608.16
1,001-4,100	\$ 29.73	29.0	\$ 862.17
4,101-33,000	\$ 36.00	71.0	\$ 2,556.00
33,001-96,000	\$ 36.39	121.0	\$ 4,403.19
96,001-500,000	\$ 41.01	252.0	\$ 10,334.52
500,001-1 Million	\$ 41.01	252.0	\$ 10,334.52
> 1 Million	\$ 41.01	252.0	\$ 10,334.52
Transient Noncommunity Water Systems (TNCWSs) - GW			
≤100	\$ 25.10	21.0	\$ 527.10
101-500	\$ 27.03	21.0	\$ 567.63
501-1,000	\$ 28.96	21.0	\$ 608.16
1,001-4,100	\$ 29.73	29.0	\$ 862.17
4,101-33,000	\$ 36.00	71.0	\$ 2,556.00
33,001-96,000	\$ 36.39	121.0	\$ 4,403.19
96,001-500,000	\$ 41.01	252.0	\$ 10,334.52
500,001-1 Million	\$ 41.01	252.0	\$ 10,334.52
> 1 Million	\$ 41.01	252.0	\$ 10,334.52

Notes:

Under the RTCR, only PWSs conducting annual routine monitoring are required to undergo annual site visits.

Sources:

(A) Labor rates for PWSs from Exhibit A.1.

(B) Labor hours for revising sample siting plan reflect EPA estimate.

**Exhibit A.13 PWS Unit Burden and Cost Estimates for
Annual Site Visits (1989 TCR)**

PWS Size (Population Served)	Labor Cost (per hour)	Annual Site Visit (hours/PWS)	Unit Cost
	A	B	C=A*B
Community Water Systems (CWSs) - SW			
≤100	\$ 25.10	-	\$ -
101-500	\$ 27.03	-	\$ -
501-1,000	\$ 28.96	-	\$ -
1,001-4,100	\$ 29.73	-	\$ -
4,101-33,000	\$ 36.00	-	\$ -
33,001-96,000	\$ 36.39	-	\$ -
96,001-500,000	\$ 41.01	-	\$ -
500,001-1 Million	\$ 41.01	-	\$ -
> 1 Million	\$ 41.01	-	\$ -
Community Water Systems (CWSs) - GW			
≤100	\$ 25.10	-	\$ -
101-500	\$ 27.03	-	\$ -
501-1,000	\$ 28.96	-	\$ -
1,001-4,100	\$ 29.73	-	\$ -
4,101-33,000	\$ 36.00	-	\$ -
33,001-96,000	\$ 36.39	-	\$ -
96,001-500,000	\$ 41.01	-	\$ -
500,001-1 Million	\$ 41.01	-	\$ -
> 1 Million	\$ 41.01	-	\$ -
Nontransient Noncommunity Water Systems (NTNCWSs) - SW			
≤100	\$ 25.10	-	\$ -
101-500	\$ 27.03	-	\$ -
501-1,000	\$ 28.96	-	\$ -
1,001-4,100	\$ 29.73	-	\$ -
4,101-33,000	\$ 36.00	-	\$ -
33,001-96,000	\$ 36.39	-	\$ -
96,001-500,000	\$ 41.01	-	\$ -
500,001-1 Million	\$ 41.01	-	\$ -
> 1 Million	\$ 41.01	-	\$ -
Nontransient Noncommunity Water Systems (NTNCWSs) - GW			
≤100	\$ 25.10	-	\$ -
101-500	\$ 27.03	-	\$ -
501-1,000	\$ 28.96	-	\$ -
1,001-4,100	\$ 29.73	-	\$ -
4,101-33,000	\$ 36.00	-	\$ -
33,001-96,000	\$ 36.39	-	\$ -
96,001-500,000	\$ 41.01	-	\$ -
500,001-1 Million	\$ 41.01	-	\$ -
> 1 Million	\$ 41.01	-	\$ -
Transient Noncommunity Water Systems (TNCWSs) - SW			
≤100	\$ 25.10	-	\$ -
101-500	\$ 27.03	-	\$ -
501-1,000	\$ 28.96	-	\$ -
1,001-4,100	\$ 29.73	-	\$ -
4,101-33,000	\$ 36.00	-	\$ -
33,001-96,000	\$ 36.39	-	\$ -
96,001-500,000	\$ 41.01	-	\$ -
500,001-1 Million	\$ 41.01	-	\$ -
> 1 Million	\$ 41.01	-	\$ -
Transient Noncommunity Water Systems (TNCWSs) - GW			
≤100	\$ 25.10	-	\$ -
101-500	\$ 27.03	-	\$ -
501-1,000	\$ 28.96	-	\$ -
1,001-4,100	\$ 29.73	-	\$ -
4,101-33,000	\$ 36.00	-	\$ -
33,001-96,000	\$ 36.39	-	\$ -
96,001-500,000	\$ 41.01	-	\$ -
500,001-1 Million	\$ 41.01	-	\$ -
> 1 Million	\$ 41.01	-	\$ -

Notes:

(B) Under the 1989 TCR, PWSs are not required to undergo annual site visits.

Sources:

(A) Labor rates for PWSs from Exhibit A.1.

Exhibit A.14 State Unit Burden and Cost Estimates for Annual Site Visits (RTCR)

PWS Size (Population Served)	Labor Cost (per hour)	Annual Site Visit (hours/PWS)	Unit Cost
	A	B	C=A*B
Community Water Systems (CWSs) - SW			
≤100	\$ 43.58	23.0	\$ 1,002.42
101-500	\$ 43.58	23.0	\$ 1,002.42
501-1,000	\$ 43.58	24.0	\$ 1,046.00
1,001-4,100	\$ 43.58	48.0	\$ 2,092.01
4,101-33,000	\$ 43.58	71.0	\$ 3,094.43
33,001-96,000	\$ 43.58	121.0	\$ 5,273.60
96,001-500,000	\$ 43.58	252.0	\$ 10,983.04
500,001-1 Million	\$ 43.58	252.0	\$ 10,983.04
> 1 Million	\$ 43.58	252.0	\$ 10,983.04
Community Water Systems (CWSs) - GW			
≤100	\$ 43.58	23.0	\$ 1,002.42
101-500	\$ 43.58	23.0	\$ 1,002.42
501-1,000	\$ 43.58	24.0	\$ 1,046.00
1,001-4,100	\$ 43.58	48.0	\$ 2,092.01
4,101-33,000	\$ 43.58	71.0	\$ 3,094.43
33,001-96,000	\$ 43.58	121.0	\$ 5,273.60
96,001-500,000	\$ 43.58	252.0	\$ 10,983.04
500,001-1 Million	\$ 43.58	252.0	\$ 10,983.04
> 1 Million	\$ 43.58	252.0	\$ 10,983.04
Nontransient Noncommunity Water Systems (NTNCWSs) - SW			
≤100	\$ 43.58	21.0	\$ 915.25
101-500	\$ 43.58	21.0	\$ 915.25
501-1,000	\$ 43.58	21.0	\$ 915.25
1,001-4,100	\$ 43.58	29.0	\$ 1,263.92
4,101-33,000	\$ 43.58	71.0	\$ 3,094.43
33,001-96,000	\$ 43.58	121.0	\$ 5,273.60
96,001-500,000	\$ 43.58	252.0	\$ 10,983.04
500,001-1 Million	\$ 43.58	252.0	\$ 10,983.04
> 1 Million	\$ 43.58	252.0	\$ 10,983.04
Nontransient Noncommunity Water Systems (NTNCWSs) - GW			
≤100	\$ 43.58	21.0	\$ 915.25
101-500	\$ 43.58	21.0	\$ 915.25
501-1,000	\$ 43.58	21.0	\$ 915.25
1,001-4,100	\$ 43.58	29.0	\$ 1,263.92
4,101-33,000	\$ 43.58	71.0	\$ 3,094.43
33,001-96,000	\$ 43.58	121.0	\$ 5,273.60
96,001-500,000	\$ 43.58	252.0	\$ 10,983.04
500,001-1 Million	\$ 43.58	252.0	\$ 10,983.04
> 1 Million	\$ 43.58	252.0	\$ 10,983.04
Transient Noncommunity Water Systems (TNCWSs) - SW			
≤100	\$ 43.58	21.0	\$ 915.25
101-500	\$ 43.58	21.0	\$ 915.25
501-1,000	\$ 43.58	21.0	\$ 915.25
1,001-4,100	\$ 43.58	29.0	\$ 1,263.92
4,101-33,000	\$ 43.58	71.0	\$ 3,094.43
33,001-96,000	\$ 43.58	121.0	\$ 5,273.60
96,001-500,000	\$ 43.58	252.0	\$ 10,983.04
500,001-1 Million	\$ 43.58	252.0	\$ 10,983.04
> 1 Million	\$ 43.58	252.0	\$ 10,983.04
Transient Noncommunity Water Systems (TNCWSs) - GW			
≤100	\$ 43.58	21.0	\$ 915.25
101-500	\$ 43.58	21.0	\$ 915.25
501-1,000	\$ 43.58	21.0	\$ 915.25
1,001-4,100	\$ 43.58	29.0	\$ 1,263.92
4,101-33,000	\$ 43.58	71.0	\$ 3,094.43
33,001-96,000	\$ 43.58	121.0	\$ 5,273.60
96,001-500,000	\$ 43.58	252.0	\$ 10,983.04
500,001-1 Million	\$ 43.58	252.0	\$ 10,983.04
> 1 Million	\$ 43.58	252.0	\$ 10,983.04

Notes:

Under the RTCR, states are only required to conduct annual site visits for systems conducting annual routine monitoring.

Sources:

(A) Labor rates for state employee from Exhibit A.1.

(B) Labor hours for revising sample siting plan reflect EPA estimate.

**Exhibit A.15 State Unit Burden and Cost Estimates for
Annual Site Visits (1989 TCR)**

PWS Size (Population Served)	Labor Cost (per hour)	Annual Site Visit (hours/PWS)	Unit Cost
	A	B	C=A*B
Community Water Systems (CWSs) - SW			
≤100	\$ 43.58	-	\$ -
101-500	\$ 43.58	-	\$ -
501-1,000	\$ 43.58	-	\$ -
1,001-4,100	\$ 43.58	-	\$ -
4,101-33,000	\$ 43.58	-	\$ -
33,001-96,000	\$ 43.58	-	\$ -
96,001-500,000	\$ 43.58	-	\$ -
500,001-1 Million	\$ 43.58	-	\$ -
> 1 Million	\$ 43.58	-	\$ -
Community Water Systems (CWSs) - GW			
≤100	\$ 43.58	-	\$ -
101-500	\$ 43.58	-	\$ -
501-1,000	\$ 43.58	-	\$ -
1,001-4,100	\$ 43.58	-	\$ -
4,101-33,000	\$ 43.58	-	\$ -
33,001-96,000	\$ 43.58	-	\$ -
96,001-500,000	\$ 43.58	-	\$ -
500,001-1 Million	\$ 43.58	-	\$ -
> 1 Million	\$ 43.58	-	\$ -
Nontransient Noncommunity Water Systems (NTNCWSs) - SW			
≤100	\$ 43.58	-	\$ -
101-500	\$ 43.58	-	\$ -
501-1,000	\$ 43.58	-	\$ -
1,001-4,100	\$ 43.58	-	\$ -
4,101-33,000	\$ 43.58	-	\$ -
33,001-96,000	\$ 43.58	-	\$ -
96,001-500,000	\$ 43.58	-	\$ -
500,001-1 Million	\$ 43.58	-	\$ -
> 1 Million	\$ 43.58	-	\$ -
Nontransient Noncommunity Water Systems (NTNCWSs) - GW			
≤100	\$ 43.58	-	\$ -
101-500	\$ 43.58	-	\$ -
501-1,000	\$ 43.58	-	\$ -
1,001-4,100	\$ 43.58	-	\$ -
4,101-33,000	\$ 43.58	-	\$ -
33,001-96,000	\$ 43.58	-	\$ -
96,001-500,000	\$ 43.58	-	\$ -
500,001-1 Million	\$ 43.58	-	\$ -
> 1 Million	\$ 43.58	-	\$ -
Transient Noncommunity Water Systems (TNCWSs) - SW			
≤100	\$ 43.58	-	\$ -
101-500	\$ 43.58	-	\$ -
501-1,000	\$ 43.58	-	\$ -
1,001-4,100	\$ 43.58	-	\$ -
4,101-33,000	\$ 43.58	-	\$ -
33,001-96,000	\$ 43.58	-	\$ -
96,001-500,000	\$ 43.58	-	\$ -
500,001-1 Million	\$ 43.58	-	\$ -
> 1 Million	\$ 43.58	-	\$ -
Transient Noncommunity Water Systems (TNCWSs) - GW			
≤100	\$ 43.58	-	\$ -
101-500	\$ 43.58	-	\$ -
501-1,000	\$ 43.58	-	\$ -
1,001-4,100	\$ 43.58	-	\$ -
4,101-33,000	\$ 43.58	-	\$ -
33,001-96,000	\$ 43.58	-	\$ -
96,001-500,000	\$ 43.58	-	\$ -
500,001-1 Million	\$ 43.58	-	\$ -
> 1 Million	\$ 43.58	-	\$ -

Notes:

(B) Under the 1989 TCR, states are not required to conduct annual site visits.

Sources:

(A) Labor rates for state employee from Exhibit A.1.

Exhibit A.16 PWS Unit Burden and Cost Estimates for Level 1 and Level 2 Assessments (RTCR)

PWS Size (Population Served)	Labor Cost (per hour) A	Level 1 Assessments		Level 2 Assessments			
		Non-Acute Trigger (single trigger) (hours) B	Unit Cost C=A*B	Acute Violations (hours) D	Unit Cost E=A*D	Level 2 Triggers (triggered by multiple Level 1s) (hours) F	Unit Cost G=A*F
Community Water Systems (CWSs) - SW							
≤100	\$ 25.10	19.0	\$ 476.90	23.0	\$ 577.30	22.0	\$ 552.20
101-500	\$ 27.03	19.0	\$ 513.57	23.0	\$ 621.69	22.0	\$ 594.66
501-1,000	\$ 28.96	20.0	\$ 579.20	24.0	\$ 695.04	23.0	\$ 666.08
1,001-4,100	\$ 29.73	31.0	\$ 921.63	48.0	\$ 1,427.04	46.0	\$ 1,367.58
4,101-33,000	\$ 36.00	41.0	\$ 1,476.00	71.0	\$ 2,556.00	69.0	\$ 2,484.00
33,001-96,000	\$ 36.39	68.0	\$ 2,474.52	121.0	\$ 4,403.19	116.0	\$ 4,221.24
96,001-500,000	\$ 41.01	159.0	\$ 6,520.59	252.0	\$ 10,334.52	238.0	\$ 9,760.38
500,001-1 Million	\$ 41.01	159.0	\$ 6,520.59	252.0	\$ 10,334.52	238.0	\$ 9,760.38
> 1 Million	\$ 41.01	159.0	\$ 6,520.59	252.0	\$ 10,334.52	238.0	\$ 9,760.38
Community Water Systems (CWSs) - GW							
≤100	\$ 25.10	19.0	\$ 476.90	23.0	\$ 577.30	22.0	\$ 552.20
101-500	\$ 27.03	19.0	\$ 513.57	23.0	\$ 621.69	22.0	\$ 594.66
501-1,000	\$ 28.96	20.0	\$ 579.20	24.0	\$ 695.04	23.0	\$ 666.08
1,001-4,100	\$ 29.73	31.0	\$ 921.63	48.0	\$ 1,427.04	46.0	\$ 1,367.58
4,101-33,000	\$ 36.00	41.0	\$ 1,476.00	71.0	\$ 2,556.00	69.0	\$ 2,484.00
33,001-96,000	\$ 36.39	68.0	\$ 2,474.52	121.0	\$ 4,403.19	116.0	\$ 4,221.24
96,001-500,000	\$ 41.01	159.0	\$ 6,520.59	252.0	\$ 10,334.52	238.0	\$ 9,760.38
500,001-1 Million	\$ 41.01	159.0	\$ 6,520.59	252.0	\$ 10,334.52	238.0	\$ 9,760.38
> 1 Million	\$ 41.01	159.0	\$ 6,520.59	252.0	\$ 10,334.52	238.0	\$ 9,760.38
Nontransient Noncommunity Water Systems (NTNCWSs) - SW							
≤100	\$ 25.10	7.0	\$ 175.70	21.0	\$ 527.10	9.0	\$ 225.90
101-500	\$ 27.03	7.0	\$ 189.21	21.0	\$ 567.63	9.0	\$ 243.27
501-1,000	\$ 28.96	7.0	\$ 202.72	21.0	\$ 608.16	9.0	\$ 260.64
1,001-4,100	\$ 29.73	8.0	\$ 237.84	29.0	\$ 862.17	10.0	\$ 297.30
4,101-33,000	\$ 36.00	41.0	\$ 1,476.00	71.0	\$ 2,556.00	69.0	\$ 2,484.00
33,001-96,000	\$ 36.39	68.0	\$ 2,474.52	121.0	\$ 4,403.19	116.0	\$ 4,221.24
96,001-500,000	\$ 41.01	159.0	\$ 6,520.59	252.0	\$ 10,334.52	238.0	\$ 9,760.38
500,001-1 Million	\$ 41.01	159.0	\$ 6,520.59	252.0	\$ 10,334.52	238.0	\$ 9,760.38
> 1 Million	\$ 41.01	159.0	\$ 6,520.59	252.0	\$ 10,334.52	238.0	\$ 9,760.38
Nontransient Noncommunity Water Systems (NTNCWSs) - GW							
≤100	\$ 25.10	7.0	\$ 175.70	21.0	\$ 527.10	9.0	\$ 225.90
101-500	\$ 27.03	7.0	\$ 189.21	21.0	\$ 567.63	9.0	\$ 243.27
501-1,000	\$ 28.96	7.0	\$ 202.72	21.0	\$ 608.16	9.0	\$ 260.64
1,001-4,100	\$ 29.73	8.0	\$ 237.84	29.0	\$ 862.17	10.0	\$ 297.30
4,101-33,000	\$ 36.00	41.0	\$ 1,476.00	71.0	\$ 2,556.00	69.0	\$ 2,484.00
33,001-96,000	\$ 36.39	68.0	\$ 2,474.52	121.0	\$ 4,403.19	116.0	\$ 4,221.24
96,001-500,000	\$ 41.01	159.0	\$ 6,520.59	252.0	\$ 10,334.52	238.0	\$ 9,760.38
500,001-1 Million	\$ 41.01	159.0	\$ 6,520.59	252.0	\$ 10,334.52	238.0	\$ 9,760.38
> 1 Million	\$ 41.01	159.0	\$ 6,520.59	252.0	\$ 10,334.52	238.0	\$ 9,760.38
Transient Noncommunity Water Systems (TNCWSs) - SW							
≤100	\$ 25.10	7.0	\$ 175.70	21.0	\$ 527.10	9.0	\$ 225.90
101-500	\$ 27.03	7.0	\$ 189.21	21.0	\$ 567.63	9.0	\$ 243.27
501-1,000	\$ 28.96	7.0	\$ 202.72	21.0	\$ 608.16	9.0	\$ 260.64
1,001-4,100	\$ 29.73	8.0	\$ 237.84	29.0	\$ 862.17	10.0	\$ 297.30
4,101-33,000	\$ 36.00	41.0	\$ 1,476.00	71.0	\$ 2,556.00	69.0	\$ 2,484.00
33,001-96,000	\$ 36.39	68.0	\$ 2,474.52	121.0	\$ 4,403.19	116.0	\$ 4,221.24
96,001-500,000	\$ 41.01	159.0	\$ 6,520.59	252.0	\$ 10,334.52	238.0	\$ 9,760.38
500,001-1 Million	\$ 41.01	159.0	\$ 6,520.59	252.0	\$ 10,334.52	238.0	\$ 9,760.38
> 1 Million	\$ 41.01	159.0	\$ 6,520.59	252.0	\$ 10,334.52	238.0	\$ 9,760.38
Transient Noncommunity Water Systems (TNCWSs) - GW							
≤100	\$ 25.10	7.0	\$ 175.70	21.0	\$ 527.10	9.0	\$ 225.90
101-500	\$ 27.03	7.0	\$ 189.21	21.0	\$ 567.63	9.0	\$ 243.27
501-1,000	\$ 28.96	7.0	\$ 202.72	21.0	\$ 608.16	9.0	\$ 260.64
1,001-4,100	\$ 29.73	8.0	\$ 237.84	29.0	\$ 862.17	10.0	\$ 297.30
4,101-33,000	\$ 36.00	41.0	\$ 1,476.00	71.0	\$ 2,556.00	69.0	\$ 2,484.00
33,001-96,000	\$ 36.39	68.0	\$ 2,474.52	121.0	\$ 4,403.19	116.0	\$ 4,221.24
96,001-500,000	\$ 41.01	159.0	\$ 6,520.59	252.0	\$ 10,334.52	238.0	\$ 9,760.38
500,001-1 Million	\$ 41.01	159.0	\$ 6,520.59	252.0	\$ 10,334.52	238.0	\$ 9,760.38
> 1 Million	\$ 41.01	159.0	\$ 6,520.59	252.0	\$ 10,334.52	238.0	\$ 9,760.38

Sources:

(A) Labor rates for PWSs from Exhibit A.1.

(B), (D), (F) Final RTCR T&C Document¹.

¹ US Environmental Protection Agency. 2010. Technology and Cost Document for the Final Revised Total Coliform Rule. EPA 815-R-10-002.

Exhibit A.17 PWS Unit Burden and Cost Estimates for Level 1 and Level 2 Assessments (1989 TCR)

PWS Size (Population Served)	Labor Cost (per hour)	Activities Similar to Level 1 Assessments			Activities Similar to Level 2 Assessments			
		Non-Acute Violations (single violation) (hours)	Unit Cost	Acute Violations (hours)	Unit Cost	Non-Acute Violations (multiple violations) (hours)	Unit Cost	
		A	B	C=A*B	D	E=A*D	F	G=A*F
Community Water Systems (CWSs) - SW								
≤100	\$ 25.10	\$ 11.0	\$ 276.10	\$ 14.0	\$ 351.40	\$ 14.0	\$ 351.40	
101-500	\$ 27.03	\$ 11.0	\$ 297.33	\$ 14.0	\$ 378.42	\$ 14.0	\$ 378.42	
501-1,000	\$ 28.96	\$ 13.0	\$ 376.48	\$ 15.0	\$ 434.40	\$ 15.0	\$ 434.40	
1,001-4,100	\$ 29.73	\$ 22.0	\$ 654.06	\$ 29.0	\$ 862.17	\$ 29.0	\$ 862.17	
4,101-33,000	\$ 36.00	\$ 30.0	\$ 1,080.00	\$ 36.0	\$ 1,296.00	\$ 36.0	\$ 1,296.00	
33,001-96,000	\$ 36.39	\$ 59.0	\$ 2,147.01	\$ 75.0	\$ 2,729.25	\$ 75.0	\$ 2,729.25	
96,001-500,000	\$ 41.01	\$ 108.0	\$ 4,429.08	\$ 117.0	\$ 4,798.17	\$ 117.0	\$ 4,798.17	
500,001-1 Million	\$ 41.01	\$ 108.0	\$ 4,429.08	\$ 117.0	\$ 4,798.17	\$ 117.0	\$ 4,798.17	
> 1 Million	\$ 41.01	\$ 108.0	\$ 4,429.08	\$ 117.0	\$ 4,798.17	\$ 117.0	\$ 4,798.17	
Community Water Systems (CWSs) - GW								
≤100	\$ 25.10	\$ 11.0	\$ 276.10	\$ 14.0	\$ 351.40	\$ 14.0	\$ 351.40	
101-500	\$ 27.03	\$ 11.0	\$ 297.33	\$ 14.0	\$ 378.42	\$ 14.0	\$ 378.42	
501-1,000	\$ 28.96	\$ 13.0	\$ 376.48	\$ 15.0	\$ 434.40	\$ 15.0	\$ 434.40	
1,001-4,100	\$ 29.73	\$ 22.0	\$ 654.06	\$ 29.0	\$ 862.17	\$ 29.0	\$ 862.17	
4,101-33,000	\$ 36.00	\$ 30.0	\$ 1,080.00	\$ 36.0	\$ 1,296.00	\$ 36.0	\$ 1,296.00	
33,001-96,000	\$ 36.39	\$ 59.0	\$ 2,147.01	\$ 75.0	\$ 2,729.25	\$ 75.0	\$ 2,729.25	
96,001-500,000	\$ 41.01	\$ 108.0	\$ 4,429.08	\$ 117.0	\$ 4,798.17	\$ 117.0	\$ 4,798.17	
500,001-1 Million	\$ 41.01	\$ 108.0	\$ 4,429.08	\$ 117.0	\$ 4,798.17	\$ 117.0	\$ 4,798.17	
> 1 Million	\$ 41.01	\$ 108.0	\$ 4,429.08	\$ 117.0	\$ 4,798.17	\$ 117.0	\$ 4,798.17	
Nontransient Noncommunity Water Systems (NTNCWSs) - SW								
≤100	\$ 25.10	\$ 4.0	\$ 100.40	\$ 6.0	\$ 150.60	\$ 6.0	\$ 150.60	
101-500	\$ 27.03	\$ 4.0	\$ 108.12	\$ 6.0	\$ 162.18	\$ 6.0	\$ 162.18	
501-1,000	\$ 28.96	\$ 4.0	\$ 115.84	\$ 6.0	\$ 173.76	\$ 6.0	\$ 173.76	
1,001-4,100	\$ 29.73	\$ 4.0	\$ 118.92	\$ 6.0	\$ 178.38	\$ 6.0	\$ 178.38	
4,101-33,000	\$ 36.00	\$ 30.0	\$ 1,080.00	\$ 36.0	\$ 1,296.00	\$ 36.0	\$ 1,296.00	
33,001-96,000	\$ 36.39	\$ 59.0	\$ 2,147.01	\$ 75.0	\$ 2,729.25	\$ 75.0	\$ 2,729.25	
96,001-500,000	\$ 41.01	\$ 108.0	\$ 4,429.08	\$ 117.0	\$ 4,798.17	\$ 117.0	\$ 4,798.17	
500,001-1 Million	\$ 41.01	\$ 108.0	\$ 4,429.08	\$ 117.0	\$ 4,798.17	\$ 117.0	\$ 4,798.17	
> 1 Million	\$ 41.01	\$ 108.0	\$ 4,429.08	\$ 117.0	\$ 4,798.17	\$ 117.0	\$ 4,798.17	
Nontransient Noncommunity Water Systems (NTNCWSs) - GW								
≤100	\$ 25.10	\$ 4.0	\$ 100.40	\$ 6.0	\$ 150.60	\$ 6.0	\$ 150.60	
101-500	\$ 27.03	\$ 4.0	\$ 108.12	\$ 6.0	\$ 162.18	\$ 6.0	\$ 162.18	
501-1,000	\$ 28.96	\$ 4.0	\$ 115.84	\$ 6.0	\$ 173.76	\$ 6.0	\$ 173.76	
1,001-4,100	\$ 29.73	\$ 4.0	\$ 118.92	\$ 6.0	\$ 178.38	\$ 6.0	\$ 178.38	
4,101-33,000	\$ 36.00	\$ 30.0	\$ 1,080.00	\$ 36.0	\$ 1,296.00	\$ 36.0	\$ 1,296.00	
33,001-96,000	\$ 36.39	\$ 59.0	\$ 2,147.01	\$ 75.0	\$ 2,729.25	\$ 75.0	\$ 2,729.25	
96,001-500,000	\$ 41.01	\$ 108.0	\$ 4,429.08	\$ 117.0	\$ 4,798.17	\$ 117.0	\$ 4,798.17	
500,001-1 Million	\$ 41.01	\$ 108.0	\$ 4,429.08	\$ 117.0	\$ 4,798.17	\$ 117.0	\$ 4,798.17	
> 1 Million	\$ 41.01	\$ 108.0	\$ 4,429.08	\$ 117.0	\$ 4,798.17	\$ 117.0	\$ 4,798.17	
Transient Noncommunity Water Systems (TNCWSs) - SW								
≤100	\$ 25.10	\$ 4.0	\$ 100.40	\$ 6.0	\$ 150.60	\$ 6.0	\$ 150.60	
101-500	\$ 27.03	\$ 4.0	\$ 108.12	\$ 6.0	\$ 162.18	\$ 6.0	\$ 162.18	
501-1,000	\$ 28.96	\$ 4.0	\$ 115.84	\$ 6.0	\$ 173.76	\$ 6.0	\$ 173.76	
1,001-4,100	\$ 29.73	\$ 4.0	\$ 118.92	\$ 6.0	\$ 178.38	\$ 6.0	\$ 178.38	
4,101-33,000	\$ 36.00	\$ 30.0	\$ 1,080.00	\$ 36.0	\$ 1,296.00	\$ 36.0	\$ 1,296.00	
33,001-96,000	\$ 36.39	\$ 59.0	\$ 2,147.01	\$ 75.0	\$ 2,729.25	\$ 75.0	\$ 2,729.25	
96,001-500,000	\$ 41.01	\$ 108.0	\$ 4,429.08	\$ 117.0	\$ 4,798.17	\$ 117.0	\$ 4,798.17	
500,001-1 Million	\$ 41.01	\$ 108.0	\$ 4,429.08	\$ 117.0	\$ 4,798.17	\$ 117.0	\$ 4,798.17	
> 1 Million	\$ 41.01	\$ 108.0	\$ 4,429.08	\$ 117.0	\$ 4,798.17	\$ 117.0	\$ 4,798.17	
Transient Noncommunity Water Systems (TNCWSs) - GW								
≤100	\$ 25.10	\$ 4.0	\$ 100.40	\$ 6.0	\$ 150.60	\$ 6.0	\$ 150.60	
101-500	\$ 27.03	\$ 4.0	\$ 108.12	\$ 6.0	\$ 162.18	\$ 6.0	\$ 162.18	
501-1,000	\$ 28.96	\$ 4.0	\$ 115.84	\$ 6.0	\$ 173.76	\$ 6.0	\$ 173.76	
1,001-4,100	\$ 29.73	\$ 4.0	\$ 118.92	\$ 6.0	\$ 178.38	\$ 6.0	\$ 178.38	
4,101-33,000	\$ 36.00	\$ 30.0	\$ 1,080.00	\$ 36.0	\$ 1,296.00	\$ 36.0	\$ 1,296.00	
33,001-96,000	\$ 36.39	\$ 59.0	\$ 2,147.01	\$ 75.0	\$ 2,729.25	\$ 75.0	\$ 2,729.25	
96,001-500,000	\$ 41.01	\$ 108.0	\$ 4,429.08	\$ 117.0	\$ 4,798.17	\$ 117.0	\$ 4,798.17	
500,001-1 Million	\$ 41.01	\$ 108.0	\$ 4,429.08	\$ 117.0	\$ 4,798.17	\$ 117.0	\$ 4,798.17	
> 1 Million	\$ 41.01	\$ 108.0	\$ 4,429.08	\$ 117.0	\$ 4,798.17	\$ 117.0	\$ 4,798.17	

Note:

(F) EPA assumes that the burden incurred by operators to assess their PWSs following a second non-acute violation is equal to the burden incurred by an assessment following an acute violation.

Sources:

(A) Labor rates for PWSs from Exhibit A.1.

(B), (D), (F) Final RTRC T&C Document¹.

¹ US Environmental Protection Agency. 2010. Technology and Cost Document for the Final Revised Total Coliform Rule. EPA 815-R-10-002.

Exhibit A.18 State Unit Burden and Cost Estimates for Level 1 and Level 2 Assessments (RTCR)

PWS Size (Population Served)	Labor Cost (per hour) A	Level 1 Assessments		Level 2 Assessments			
		Non-Acute Trigger (single trigger) (hours) B	Unit Cost C=A*B	Acute Violations (hours) D	Unit Cost E=A*D	Level 2 Triggers (triggered by multiple Level 1s) (hours) F	Unit Cost G=A*F
Community Water Systems (CWSs) - SW							
≤100	\$ 39.22	1.0	\$ 39.22	2.0	\$ 78.44	2.0	\$ 78.44
101-500	\$ 39.22	1.0	\$ 39.22	2.0	\$ 78.44	2.0	\$ 78.44
501-1,000	\$ 39.22	2.0	\$ 78.44	4.0	\$ 156.87	4.0	\$ 156.87
1,001-4,100	\$ 39.22	2.0	\$ 78.44	4.0	\$ 156.87	4.0	\$ 156.87
4,101-33,000	\$ 39.22	3.0	\$ 117.65	6.0	\$ 235.31	6.0	\$ 235.31
33,001-96,000	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
96,001-500,000	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
500,001-1 Million	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
> 1 Million	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
Community Water Systems (CWSs) - GW							
≤100	\$ 39.22	1.0	\$ 39.22	2.0	\$ 78.44	2.0	\$ 78.44
101-500	\$ 39.22	1.0	\$ 39.22	2.0	\$ 78.44	2.0	\$ 78.44
501-1,000	\$ 39.22	2.0	\$ 78.44	4.0	\$ 156.87	4.0	\$ 156.87
1,001-4,100	\$ 39.22	2.0	\$ 78.44	4.0	\$ 156.87	4.0	\$ 156.87
4,101-33,000	\$ 39.22	3.0	\$ 117.65	6.0	\$ 235.31	6.0	\$ 235.31
33,001-96,000	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
96,001-500,000	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
500,001-1 Million	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
> 1 Million	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
Nontransient Noncommunity Water Systems (NTNCWSs) - SW							
≤100	\$ 39.22	1.0	\$ 39.22	2.0	\$ 78.44	2.0	\$ 78.44
101-500	\$ 39.22	1.0	\$ 39.22	2.0	\$ 78.44	2.0	\$ 78.44
501-1,000	\$ 39.22	2.0	\$ 78.44	4.0	\$ 156.87	4.0	\$ 156.87
1,001-4,100	\$ 39.22	2.0	\$ 78.44	4.0	\$ 156.87	4.0	\$ 156.87
4,101-33,000	\$ 39.22	3.0	\$ 117.65	6.0	\$ 235.31	6.0	\$ 235.31
33,001-96,000	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
96,001-500,000	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
500,001-1 Million	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
> 1 Million	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
Nontransient Noncommunity Water Systems (NTNCWSs) - GW							
≤100	\$ 39.22	1.0	\$ 39.22	2.0	\$ 78.44	2.0	\$ 78.44
101-500	\$ 39.22	1.0	\$ 39.22	2.0	\$ 78.44	2.0	\$ 78.44
501-1,000	\$ 39.22	2.0	\$ 78.44	4.0	\$ 156.87	4.0	\$ 156.87
1,001-4,100	\$ 39.22	2.0	\$ 78.44	4.0	\$ 156.87	4.0	\$ 156.87
4,101-33,000	\$ 39.22	3.0	\$ 117.65	6.0	\$ 235.31	6.0	\$ 235.31
33,001-96,000	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
96,001-500,000	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
500,001-1 Million	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
> 1 Million	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
Transient Noncommunity Water Systems (TNCWSs) - SW							
≤100	\$ 39.22	1.0	\$ 39.22	2.0	\$ 78.44	2.0	\$ 78.44
101-500	\$ 39.22	1.0	\$ 39.22	2.0	\$ 78.44	2.0	\$ 78.44
501-1,000	\$ 39.22	2.0	\$ 78.44	4.0	\$ 156.87	4.0	\$ 156.87
1,001-4,100	\$ 39.22	2.0	\$ 78.44	4.0	\$ 156.87	4.0	\$ 156.87
4,101-33,000	\$ 39.22	3.0	\$ 117.65	6.0	\$ 235.31	6.0	\$ 235.31
33,001-96,000	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
96,001-500,000	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
500,001-1 Million	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
> 1 Million	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
Transient Noncommunity Water Systems (TNCWSs) - GW							
≤100	\$ 39.22	1.0	\$ 39.22	2.0	\$ 78.44	2.0	\$ 78.44
101-500	\$ 39.22	1.0	\$ 39.22	2.0	\$ 78.44	2.0	\$ 78.44
501-1,000	\$ 39.22	2.0	\$ 78.44	4.0	\$ 156.87	4.0	\$ 156.87
1,001-4,100	\$ 39.22	2.0	\$ 78.44	4.0	\$ 156.87	4.0	\$ 156.87
4,101-33,000	\$ 39.22	3.0	\$ 117.65	6.0	\$ 235.31	6.0	\$ 235.31
33,001-96,000	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
96,001-500,000	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
500,001-1 Million	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
> 1 Million	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74

Sources:

- (A) Labor rates for state employee from Exhibit A.1.
- (B), (D), (E) Labor hour assumptions based on best professional judgment.

Exhibit A.19 State Unit Burden and Cost Estimates for Level 1 and Level 2 Assessments (1989 TCR)

PWS Size (Population Served)	Labor Cost (per hour)	Level 1 Assessments		Level 2 Assessments			
		Non-Acute Violations (single violation) (hours)	Unit Cost	Acute Violations (hours)	Unit Cost	Non-Acute Violations (multiple violations) (hours)	Unit Cost
Community Water Systems (CWSs) - SW							
≤100	\$ 39.22	1.0	\$ 39.22	2.0	\$ 78.44	2.0	\$ 78.44
101-500	\$ 39.22	1.0	\$ 39.22	2.0	\$ 78.44	2.0	\$ 78.44
501-1,000	\$ 39.22	2.0	\$ 78.44	4.0	\$ 156.87	4.0	\$ 156.87
1,001-4,100	\$ 39.22	2.0	\$ 78.44	4.0	\$ 156.87	4.0	\$ 156.87
4,101-33,000	\$ 39.22	3.0	\$ 117.65	6.0	\$ 235.31	6.0	\$ 235.31
33,001-96,000	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
96,001-500,000	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
500,001-1 Million	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
> 1 Million	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
Community Water Systems (CWSs) - GW							
≤100	\$ 39.22	1.0	\$ 39.22	2.0	\$ 78.44	2.0	\$ 78.44
101-500	\$ 39.22	1.0	\$ 39.22	2.0	\$ 78.44	2.0	\$ 78.44
501-1,000	\$ 39.22	2.0	\$ 78.44	4.0	\$ 156.87	4.0	\$ 156.87
1,001-4,100	\$ 39.22	2.0	\$ 78.44	4.0	\$ 156.87	4.0	\$ 156.87
4,101-33,000	\$ 39.22	3.0	\$ 117.65	6.0	\$ 235.31	6.0	\$ 235.31
33,001-96,000	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
96,001-500,000	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
500,001-1 Million	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
> 1 Million	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
Nontransient Noncommunity Water Systems (NTNCWSs) - SW							
≤100	\$ 39.22	1.0	\$ 39.22	2.0	\$ 78.44	2.0	\$ 78.44
101-500	\$ 39.22	1.0	\$ 39.22	2.0	\$ 78.44	2.0	\$ 78.44
501-1,000	\$ 39.22	2.0	\$ 78.44	4.0	\$ 156.87	4.0	\$ 156.87
1,001-4,100	\$ 39.22	2.0	\$ 78.44	4.0	\$ 156.87	4.0	\$ 156.87
4,101-33,000	\$ 39.22	3.0	\$ 117.65	6.0	\$ 235.31	6.0	\$ 235.31
33,001-96,000	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
96,001-500,000	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
500,001-1 Million	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
> 1 Million	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
Nontransient Noncommunity Water Systems (NTNCWSs) - GW							
≤100	\$ 39.22	1.0	\$ 39.22	2.0	\$ 78.44	2.0	\$ 78.44
101-500	\$ 39.22	1.0	\$ 39.22	2.0	\$ 78.44	2.0	\$ 78.44
501-1,000	\$ 39.22	2.0	\$ 78.44	4.0	\$ 156.87	4.0	\$ 156.87
1,001-4,100	\$ 39.22	2.0	\$ 78.44	4.0	\$ 156.87	4.0	\$ 156.87
4,101-33,000	\$ 39.22	3.0	\$ 117.65	6.0	\$ 235.31	6.0	\$ 235.31
33,001-96,000	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
96,001-500,000	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
500,001-1 Million	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
> 1 Million	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
Transient Noncommunity Water Systems (TNCWSs) - SW							
≤100	\$ 39.22	1.0	\$ 39.22	2.0	\$ 78.44	2.0	\$ 78.44
101-500	\$ 39.22	1.0	\$ 39.22	2.0	\$ 78.44	2.0	\$ 78.44
501-1,000	\$ 39.22	2.0	\$ 78.44	4.0	\$ 156.87	4.0	\$ 156.87
1,001-4,100	\$ 39.22	2.0	\$ 78.44	4.0	\$ 156.87	4.0	\$ 156.87
4,101-33,000	\$ 39.22	3.0	\$ 117.65	6.0	\$ 235.31	6.0	\$ 235.31
33,001-96,000	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
96,001-500,000	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
500,001-1 Million	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
> 1 Million	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
Transient Noncommunity Water Systems (TNCWSs) - GW							
≤100	\$ 39.22	1.0	\$ 39.22	2.0	\$ 78.44	2.0	\$ 78.44
101-500	\$ 39.22	1.0	\$ 39.22	2.0	\$ 78.44	2.0	\$ 78.44
501-1,000	\$ 39.22	2.0	\$ 78.44	4.0	\$ 156.87	4.0	\$ 156.87
1,001-4,100	\$ 39.22	2.0	\$ 78.44	4.0	\$ 156.87	4.0	\$ 156.87
4,101-33,000	\$ 39.22	3.0	\$ 117.65	6.0	\$ 235.31	6.0	\$ 235.31
33,001-96,000	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
96,001-500,000	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
500,001-1 Million	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74
> 1 Million	\$ 39.22	4.0	\$ 156.87	8.0	\$ 313.74	8.0	\$ 313.74

Sources:

(A) Labor rates for state employee from Exhibit A.1.

(B), (D), (E) Labor hour assumptions based on best professional judgment.

Exhibit A.20 PWS Compliance Forecast for Level 1 and Level 2 Corrective Actions (RTCR)

PWS Size (Population Served)	PWS Flushing	Sampler Training	Replace/Repair of Distribution System Components	Maintenance of Adequate Pressure	Maintenance of appropriate Hydraulic Residence Time	Storage Facility Maintenance	Booster Disinfection	Cross- connection Control and Backflow Prevention Program	Addition or Upgrade of On-line Monitoring and Control	Addition of Security Measures	Development and Implementation of an Operations Plan
	A	B	C	D	E	F	G	H	I	J	K
Level 1 Compliance Forecast											
≤100	39%	15%	12%	9%	8%	6%	4%	1%	3%	1%	2%
101-500	39%	15%	12%	9%	8%	6%	4%	1%	3%	1%	2%
501-1,000	39%	15%	12%	9%	8%	6%	4%	1%	3%	1%	2%
1,001-4,100	39%	15%	12%	9%	8%	6%	4%	1%	3%	1%	2%
4,101-33,000	39%	15%	12%	9%	8%	6%	4%	1%	3%	1%	2%
33,001-96,000	39%	15%	12%	9%	8%	6%	4%	1%	3%	1%	2%
96,001-500,000	39%	15%	12%	9%	8%	6%	4%	1%	3%	1%	2%
500,001-1 Million	39%	15%	12%	9%	8%	6%	4%	1%	3%	1%	2%
> 1 Million	39%	15%	12%	9%	8%	6%	4%	1%	3%	1%	2%
Level 2 Compliance Forecast											
≤100	15%	4%	18%	15%	15%	11%	8%	2%	6%	2%	4%
101-500	15%	4%	18%	15%	15%	11%	8%	2%	6%	2%	4%
501-1,000	15%	4%	18%	15%	15%	11%	8%	2%	6%	2%	4%
1,001-4,100	15%	4%	18%	15%	15%	11%	8%	2%	6%	2%	4%
4,101-33,000	15%	4%	18%	15%	15%	11%	8%	2%	6%	2%	4%
33,001-96,000	15%	4%	18%	15%	15%	11%	8%	2%	6%	2%	4%
96,001-500,000	15%	4%	18%	15%	15%	11%	8%	2%	6%	2%	4%
500,001-1 Million	15%	4%	18%	15%	15%	11%	8%	2%	6%	2%	4%
> 1 Million	15%	4%	18%	15%	15%	11%	8%	2%	6%	2%	4%

Source:

(A) - (K) Percent of PWSs performing corrective actions based on Level 1 and Level 2 assessments reflect EPA estimate.

Exhibit A.21 PWS Compliance Forecast for Level 1 and Level 2 Corrective Actions (1989 TCR)

PWS Size (Population Served)	PWS Flushing	Sampler Training	Replace/Repair of Distribution System Components	Maintenance of Adequate Pressure	Maintenance of appropriate Hydraulic Residence Time	Storage Facility Maintenance	Booster Disinfection	Cross- connection Control and Backflow Prevention Program	Addition or Upgrade of On-line Monitoring and Control	Addition of Security Measures	Development and Implementation of an Operations Plan
	A	B	C	D	E	F	G	H	I	J	K
Level 1 Compliance Forecast											
≤100	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
101-500	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
501-1,000	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1,001-4,100	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
4,101-33,000	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
33,001-96,000	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
96,001-500,000	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
500,001-1 Million	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
> 1 Million	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Level 2 Compliance Forecast											
≤100	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
101-500	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
501-1,000	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1,001-4,100	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
4,101-33,000	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
33,001-96,000	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
96,001-500,000	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
500,001-1 Million	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
> 1 Million	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Source:

(A) - (K) Percent of PWSs performing corrective actions based on Level 1 and Level 2 assessments reflect EPA estimate.

Exhibit A.22 Weighted R&R Burden Estimates for Corrective Actions

PWS Size (Population Served)	Level 1 Corrective Actions				Level 2 Corrective Actions			
	Weighted Unit Burden - PWS		Weighted Unit Burden - State		Weighted Unit Burden - PWS		Weighted Unit Burden - State	
	1989 TCR	RTCR	1989 TCR	RTCR	1989 TCR	RTCR	1989 TCR	RTCR
	A	B	D	E	G	H	J	K
Community Water Systems (CWSs) - SW								
≤100	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
101-500	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
501-1,000	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
1,001-4,100	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
4,101-33,000	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
33,001-96,000	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
96,001-500,000	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
500,001-1 Million	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
> 1 Million	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
Community Water Systems (CWSs) - GW								
≤100	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
101-500	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
501-1,000	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
1,001-4,100	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
4,101-33,000	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
33,001-96,000	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
96,001-500,000	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
500,001-1 Million	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
> 1 Million	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
Nontransient Noncommunity Water Systems (NTNCWSs) - SW								
≤100	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
101-500	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
501-1,000	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
1,001-4,100	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
4,101-33,000	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
33,001-96,000	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
96,001-500,000	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
500,001-1 Million	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
> 1 Million	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
Nontransient Noncommunity Water Systems (NTNCWSs) - GW								
≤100	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
101-500	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
501-1,000	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
1,001-4,100	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
4,101-33,000	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
33,001-96,000	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
96,001-500,000	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
500,001-1 Million	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
> 1 Million	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
Transient Noncommunity Water Systems (TNCWSs) - SW								
≤100	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
101-500	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
501-1,000	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
1,001-4,100	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
4,101-33,000	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
33,001-96,000	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
96,001-500,000	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
500,001-1 Million	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
> 1 Million	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
Transient Noncommunity Water Systems (TNCWSs) - GW								
≤100	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
101-500	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
501-1,000	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
1,001-4,100	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
4,101-33,000	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
33,001-96,000	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
96,001-500,000	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
500,001-1 Million	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50
> 1 Million	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.50

Sources:

(A) - (K) Weighted unit costs for corrective actions based on compliance forecasts (Exhibits D.1 - D.4 of the final RTCR EA¹) and unit costs (Exhibits D.5 - D.7 of the final RTCR EA).

¹US Environmental Protection Agency. 2010. Economic Analysis for the Final Revised Total Coliform Rule (EPA 815-R-10-001).

Exhibit A.23 Weighted R&R Unit Cost Estimates for Corrective Actions

PWS Size (Population Served)	Level 1 Corrective Actions				Level 2 Corrective Actions			
	Weighted Unit Costs - PWS		Weighted Unit Costs - State		Weighted Unit Costs - PWS		Weighted Unit Costs - State	
	1989 TCR	RTCR	1989 TCR	RTCR	1989 TCR	RTCR	1989 TCR	RTCR
	A	B	D	E	G	H	J	K
Community Water Systems (CWSs) - SW								
≤100	\$ -	\$ 12.55	\$ -	\$ 19.61	\$ -	\$ 12.55	\$ -	\$ 19.61
101-500	\$ -	\$ 13.52	\$ -	\$ 19.61	\$ -	\$ 13.52	\$ -	\$ 19.61
501-1,000	\$ -	\$ 14.48	\$ -	\$ 19.61	\$ -	\$ 14.48	\$ -	\$ 19.61
1,001-4,100	\$ -	\$ 14.87	\$ -	\$ 19.61	\$ -	\$ 14.87	\$ -	\$ 19.61
4,101-33,000	\$ -	\$ 18.00	\$ -	\$ 19.61	\$ -	\$ 18.00	\$ -	\$ 19.61
33,001-96,000	\$ -	\$ 18.20	\$ -	\$ 19.61	\$ -	\$ 18.20	\$ -	\$ 19.61
96,001-500,000	\$ -	\$ 20.51	\$ -	\$ 19.61	\$ -	\$ 20.51	\$ -	\$ 19.61
500,001-1 Million	\$ -	\$ 20.51	\$ -	\$ 19.61	\$ -	\$ 20.51	\$ -	\$ 19.61
> 1 Million	\$ -	\$ 20.51	\$ -	\$ 19.61	\$ -	\$ 20.51	\$ -	\$ 19.61
Community Water Systems (CWSs) - GW								
≤100	\$ -	\$ 12.55	\$ -	\$ 19.61	\$ -	\$ 12.55	\$ -	\$ 19.61
101-500	\$ -	\$ 13.52	\$ -	\$ 19.61	\$ -	\$ 13.52	\$ -	\$ 19.61
501-1,000	\$ -	\$ 14.48	\$ -	\$ 19.61	\$ -	\$ 14.48	\$ -	\$ 19.61
1,001-4,100	\$ -	\$ 14.87	\$ -	\$ 19.61	\$ -	\$ 14.87	\$ -	\$ 19.61
4,101-33,000	\$ -	\$ 18.00	\$ -	\$ 19.61	\$ -	\$ 18.00	\$ -	\$ 19.61
33,001-96,000	\$ -	\$ 18.20	\$ -	\$ 19.61	\$ -	\$ 18.20	\$ -	\$ 19.61
96,001-500,000	\$ -	\$ 20.51	\$ -	\$ 19.61	\$ -	\$ 20.51	\$ -	\$ 19.61
500,001-1 Million	\$ -	\$ 20.51	\$ -	\$ 19.61	\$ -	\$ 20.51	\$ -	\$ 19.61
> 1 Million	\$ -	\$ 20.51	\$ -	\$ 19.61	\$ -	\$ 20.51	\$ -	\$ 19.61
Nontransient Noncommunity Water Systems (NTNCWSs) - SW								
≤100	\$ -	\$ 12.55	\$ -	\$ 19.61	\$ -	\$ 12.55	\$ -	\$ 19.61
101-500	\$ -	\$ 13.52	\$ -	\$ 19.61	\$ -	\$ 13.52	\$ -	\$ 19.61
501-1,000	\$ -	\$ 14.48	\$ -	\$ 19.61	\$ -	\$ 14.48	\$ -	\$ 19.61
1,001-4,100	\$ -	\$ 14.87	\$ -	\$ 19.61	\$ -	\$ 14.87	\$ -	\$ 19.61
4,101-33,000	\$ -	\$ 18.00	\$ -	\$ 19.61	\$ -	\$ 18.00	\$ -	\$ 19.61
33,001-96,000	\$ -	\$ 18.20	\$ -	\$ 19.61	\$ -	\$ 18.20	\$ -	\$ 19.61
96,001-500,000	\$ -	\$ 20.51	\$ -	\$ 19.61	\$ -	\$ 20.51	\$ -	\$ 19.61
500,001-1 Million	\$ -	\$ 20.51	\$ -	\$ 19.61	\$ -	\$ 20.51	\$ -	\$ 19.61
> 1 Million	\$ -	\$ 20.51	\$ -	\$ 19.61	\$ -	\$ 20.51	\$ -	\$ 19.61
Nontransient Noncommunity Water Systems (NTNCWSs) - GW								
≤100	\$ -	\$ 12.55	\$ -	\$ 19.61	\$ -	\$ 12.55	\$ -	\$ 19.61
101-500	\$ -	\$ 13.52	\$ -	\$ 19.61	\$ -	\$ 13.52	\$ -	\$ 19.61
501-1,000	\$ -	\$ 14.48	\$ -	\$ 19.61	\$ -	\$ 14.48	\$ -	\$ 19.61
1,001-4,100	\$ -	\$ 14.87	\$ -	\$ 19.61	\$ -	\$ 14.87	\$ -	\$ 19.61
4,101-33,000	\$ -	\$ 18.00	\$ -	\$ 19.61	\$ -	\$ 18.00	\$ -	\$ 19.61
33,001-96,000	\$ -	\$ 18.20	\$ -	\$ 19.61	\$ -	\$ 18.20	\$ -	\$ 19.61
96,001-500,000	\$ -	\$ 20.51	\$ -	\$ 19.61	\$ -	\$ 20.51	\$ -	\$ 19.61
500,001-1 Million	\$ -	\$ 20.51	\$ -	\$ 19.61	\$ -	\$ 20.51	\$ -	\$ 19.61
> 1 Million	\$ -	\$ 20.51	\$ -	\$ 19.61	\$ -	\$ 20.51	\$ -	\$ 19.61
Transient Noncommunity Water Systems (TNCWSs) - SW								
≤100	\$ -	\$ 12.55	\$ -	\$ 19.61	\$ -	\$ 12.55	\$ -	\$ 19.61
101-500	\$ -	\$ 13.52	\$ -	\$ 19.61	\$ -	\$ 13.52	\$ -	\$ 19.61
501-1,000	\$ -	\$ 14.48	\$ -	\$ 19.61	\$ -	\$ 14.48	\$ -	\$ 19.61
1,001-4,100	\$ -	\$ 14.87	\$ -	\$ 19.61	\$ -	\$ 14.87	\$ -	\$ 19.61
4,101-33,000	\$ -	\$ 18.00	\$ -	\$ 19.61	\$ -	\$ 18.00	\$ -	\$ 19.61
33,001-96,000	\$ -	\$ 18.20	\$ -	\$ 19.61	\$ -	\$ 18.20	\$ -	\$ 19.61
96,001-500,000	\$ -	\$ 20.51	\$ -	\$ 19.61	\$ -	\$ 20.51	\$ -	\$ 19.61
500,001-1 Million	\$ -	\$ 20.51	\$ -	\$ 19.61	\$ -	\$ 20.51	\$ -	\$ 19.61
> 1 Million	\$ -	\$ 20.51	\$ -	\$ 19.61	\$ -	\$ 20.51	\$ -	\$ 19.61
Transient Noncommunity Water Systems (TNCWSs) - GW								
≤100	\$ -	\$ 12.55	\$ -	\$ 19.61	\$ -	\$ 12.55	\$ -	\$ 19.61
101-500	\$ -	\$ 13.52	\$ -	\$ 19.61	\$ -	\$ 13.52	\$ -	\$ 19.61
501-1,000	\$ -	\$ 14.48	\$ -	\$ 19.61	\$ -	\$ 14.48	\$ -	\$ 19.61
1,001-4,100	\$ -	\$ 14.87	\$ -	\$ 19.61	\$ -	\$ 14.87	\$ -	\$ 19.61
4,101-33,000	\$ -	\$ 18.00	\$ -	\$ 19.61	\$ -	\$ 18.00	\$ -	\$ 19.61
33,001-96,000	\$ -	\$ 18.20	\$ -	\$ 19.61	\$ -	\$ 18.20	\$ -	\$ 19.61
96,001-500,000	\$ -	\$ 20.51	\$ -	\$ 19.61	\$ -	\$ 20.51	\$ -	\$ 19.61
500,001-1 Million	\$ -	\$ 20.51	\$ -	\$ 19.61	\$ -	\$ 20.51	\$ -	\$ 19.61
> 1 Million	\$ -	\$ 20.51	\$ -	\$ 19.61	\$ -	\$ 20.51	\$ -	\$ 19.61

Sources:

(A) - (L) Weighted unit costs for corrective actions based on compliance forecasts (Exhibits D.1 - D.4 of the final RTCR EA¹) and unit costs (Exhibits D.5 - D.7 of the final RTCR EA).

¹US Environmental Protection Agency. 2010. Economic Analysis for the Final Revised Total Coliform Rule (EPA 815-R-10-001).

Exhibit A.24 PWS Unit Burden and Cost Estimates for Public Notification

PWS Size (Population Served)	Tier 1 (acute)										Tier 2 (non-acute)					
	Labor Cost (per hour)	Average Number of Service Connections per System	Preparation (labor) (hours/ violation)	Distribution (labor) (hours/ violation)	Unit Burden	Distribution (O&M Cost/ notice) (\$/service connection)	Unit Cost (Labor)	Unit Cost (O&M)	Preparation (labor) (hours/ violation)	Distribution (labor) (hours/ violation)	Unit Burden	Distribution (O&M Cost/ notice) (\$/service connection)	Unit Cost (Labor)	Unit Cost (O&M)		
	A	B	C	D	E	F	G=A*E	H=B*F	I	J	K	L	M=A*K	N=B*I		
Community Water Systems (CWSs) - SW																
≤100	\$ 25.10	440	8.5	12.0	20.5	\$ 0.05	\$ 514.55	\$ 22.00	3.5	9.0	12.5	\$ 0.05	\$ 313.75	\$ 22.00		
101-500	\$ 27.03	387	8.5	12.0	20.5	\$ 0.05	\$ 554.12	\$ 19.33	3.5	9.0	12.5	\$ 0.05	\$ 337.88	\$ 19.33		
501-1,000	\$ 28.96	303	8.5	12.0	20.5	\$ -	\$ 593.68	\$ -	3.5	30.0	33.5	\$ 0.26	\$ 970.16	\$ 78.89		
1,001-4,100	\$ 29.73	850	8.5	12.0	20.5	\$ -	\$ 609.47	\$ -	3.5	30.0	33.5	\$ 0.26	\$ 995.96	\$ 221.04		
4,101-33,000	\$ 36.00	4,288	9.2	12.0	21.2	\$ -	\$ 763.66	\$ -	3.5	30.0	33.5	\$ 0.25	\$ 1,206.00	\$ 1,053.65		
33,001-96,000	\$ 36.39	17,273	10.0	12.0	22.0	\$ -	\$ 800.58	\$ -	3.5	30.0	33.5	\$ 0.23	\$ 1,219.07	\$ 3,972.81		
96,001-500,000	\$ 41.01	56,465	10.0	12.0	22.0	\$ -	\$ 902.22	\$ -	3.5	30.0	33.5	\$ 0.23	\$ 1,373.84	\$ 12,986.84		
500,001-1 Million	\$ 41.01	205,609	10.0	12.0	22.0	\$ -	\$ 902.22	\$ -	3.5	30.0	33.5	\$ 0.23	\$ 1,373.84	\$ 47,290.14		
> 1 Million	\$ 41.01	448,564.1	10.0	12.0	22.0	\$ -	\$ 902.22	\$ -	3.5	30.0	33.5	\$ 0.23	\$ 1,373.84	\$ 103,169.73		
Community Water Systems (CWSs) - GW																
≤100	\$ 25.10	41	8.5	12.0	20.5	\$ 0.05	\$ 514.55	\$ 2.07	3.5	9.0	12.5	\$ 0.05	\$ 313.75	\$ 2.07		
101-500	\$ 27.03	99	8.5	12.0	20.5	\$ 0.05	\$ 554.12	\$ 4.93	3.5	9.0	12.5	\$ 0.05	\$ 337.88	\$ 4.93		
501-1,000	\$ 28.96	315	8.5	12.0	20.5	\$ -	\$ 593.68	\$ -	3.5	30.0	33.5	\$ 0.26	\$ 970.16	\$ 81.91		
1,001-4,100	\$ 29.73	756	8.5	12.0	20.5	\$ -	\$ 609.47	\$ -	3.5	30.0	33.5	\$ 0.26	\$ 995.96	\$ 196.65		
4,101-33,000	\$ 36.00	3,495	9.0	12.0	21.0	\$ -	\$ 757.48	\$ -	3.5	30.0	33.5	\$ 0.25	\$ 1,206.00	\$ 870.93		
33,001-96,000	\$ 36.39	16,366	10.0	12.0	22.0	\$ -	\$ 800.58	\$ -	3.5	30.0	33.5	\$ 0.23	\$ 1,219.07	\$ 3,764.10		
96,001-500,000	\$ 41.01	50,564	10.0	12.0	22.0	\$ -	\$ 902.22	\$ -	3.5	30.0	33.5	\$ 0.23	\$ 1,373.84	\$ 11,629.67		
500,001-1 Million	\$ 41.01	209,220	10.0	12.0	22.0	\$ -	\$ 902.22	\$ -	3.5	30.0	33.5	\$ 0.23	\$ 1,373.84	\$ 48,120.66		
> 1 Million	\$ 41.01	473,641	10.0	12.0	22.0	\$ -	\$ 902.22	\$ -	3.5	30.0	33.5	\$ 0.23	\$ 1,373.84	\$ 108,937.51		
Nontransient Noncommunity Water Systems (NTNCWSs) - SW																
≤100	\$ 25.10	128	8.5	12.0	20.5	\$ 0.05	\$ 514.55	\$ 6.39	3.5	9.0	12.5	\$ 0.05	\$ 313.75	\$ 6.39		
101-500	\$ 27.03	21	8.5	12.0	20.5	\$ 0.05	\$ 554.12	\$ 1.04	3.5	9.0	12.5	\$ 0.05	\$ 337.88	\$ 1.04		
501-1,000	\$ 28.96	46	8.5	12.0	20.5	\$ -	\$ 593.68	\$ -	3.5	9.0	12.5	\$ 0.05	\$ 362.00	\$ 2.29		
1,001-4,100	\$ 29.73	47	8.5	12.0	20.5	\$ -	\$ 609.47	\$ -	3.5	9.0	12.5	\$ 0.05	\$ 371.63	\$ 2.35		
4,101-33,000	\$ 36.00	176	8.7	12.0	20.7	\$ -	\$ 745.36	\$ -	3.5	9.0	12.5	\$ 0.05	\$ 450.00	\$ 8.08		
33,001-96,000	\$ 36.39	94	10.0	12.0	22.0	\$ -	\$ 800.58	\$ -	3.5	9.0	12.5	\$ 0.02	\$ 454.88	\$ 1.87		
96,001-500,000	\$ 41.01	2,181	10.0	12.0	22.0	\$ -	\$ 902.22	\$ -	3.5	9.0	12.5	\$ 0.02	\$ 512.63	\$ 43.62		
500,001-1 Million	\$ 41.01	-	10.0	12.0	22.0	\$ -	\$ 902.22	\$ -	3.5	9.0	12.5	\$ 0.02	\$ 512.63	\$ -		
> 1 Million	\$ 41.01	-	10.0	12.0	22.0	\$ -	\$ 902.22	\$ -	3.5	9.0	12.5	\$ 0.02	\$ 512.63	\$ -		
Nontransient Noncommunity Water Systems (NTNCWSs) - GW																
≤100	\$ 25.10	4	8.5	12.0	20.5	\$ 0.05	\$ 514.55	\$ 0.21	3.5	9.0	12.5	\$ 0.05	\$ 313.75	\$ 0.21		
101-500	\$ 27.03	8	8.5	12.0	20.5	\$ 0.05	\$ 554.12	\$ 0.41	3.5	9.0	12.5	\$ 0.05	\$ 337.88	\$ 0.41		
501-1,000	\$ 28.96	11	8.5	12.0	20.5	\$ -	\$ 593.68	\$ -	3.5	9.0	12.5	\$ 0.05	\$ 362.00	\$ 0.56		
1,001-4,100	\$ 29.73	42	8.5	12.0	20.5	\$ -	\$ 609.47	\$ -	3.5	9.0	12.5	\$ 0.05	\$ 371.63	\$ 2.09		
4,101-33,000	\$ 36.00	130	8.7	12.0	20.7	\$ -	\$ 744.94	\$ -	3.5	9.0	12.5	\$ 0.05	\$ 450.00	\$ 6.02		
33,001-96,000	\$ 36.39	75	10.0	12.0	22.0	\$ -	\$ 800.58	\$ -	3.5	9.0	12.5	\$ 0.02	\$ 454.88	\$ 1.50		
96,001-500,000	\$ 41.01	-	10.0	12.0	22.0	\$ -	\$ 902.22	\$ -	3.5	9.0	12.5	\$ 0.02	\$ 512.63	\$ -		
500,001-1 Million	\$ 41.01	-	10.0	12.0	22.0	\$ -	\$ 902.22	\$ -	3.5	9.0	12.5	\$ 0.02	\$ 512.63	\$ -		
> 1 Million	\$ 41.01	-	10.0	12.0	22.0	\$ -	\$ 902.22	\$ -	3.5	9.0	12.5	\$ 0.02	\$ 512.63	\$ -		
Transient Noncommunity Water Systems (TNCWSs) - SW																
≤100	\$ 25.10	9	8.5	12.0	20.5	\$ 0.05	\$ 514.55	\$ 0.44	3.5	9.0	12.5	\$ 0.05	\$ 313.75	\$ 0.44		
101-500	\$ 27.03	30	8.5	12.0	20.5	\$ 0.05	\$ 554.12	\$ 1.51	3.5	9.0	12.5	\$ 0.05	\$ 337.88	\$ 1.51		
501-1,000	\$ 28.96	49	8.5	12.0	20.5	\$ -	\$ 593.68	\$ -	3.5	9.0	12.5	\$ 0.05	\$ 362.00	\$ 2.45		
1,001-4,100	\$ 29.73	58	8.5	12.0	20.5	\$ -	\$ 609.47	\$ -	3.5	9.0	12.5	\$ 0.05	\$ 371.63	\$ 2.88		
4,101-33,000	\$ 36.00	57	8.8	12.0	20.8	\$ -	\$ 747.00	\$ -	3.5	9.0	12.5	\$ 0.05	\$ 450.00	\$ 2.55		
33,001-96,000	\$ 36.39	-	10.0	12.0	22.0	\$ -	\$ 800.58	\$ -	3.5	9.0	12.5	\$ 0.02	\$ 454.88	\$ -		
96,001-500,000	\$ 41.01	-	10.0	12.0	22.0	\$ -	\$ 902.22	\$ -	3.5	9.0	12.5	\$ 0.02	\$ 512.63	\$ -		
500,001-1 Million	\$ 41.01	-	10.0	12.0	22.0	\$ -	\$ 902.22	\$ -	3.5	9.0	12.5	\$ 0.02	\$ 512.63	\$ -		
> 1 Million	\$ 41.01	2	10.0	12.0	22.0	\$ -	\$ 902.22	\$ -	3.5	9.0	12.5	\$ 0.02	\$ 512.63	\$ 0.04		
Transient Noncommunity Water Systems (TNCWSs) - GW																
≤100	\$ 25.10	5	8.5	12.0	20.5	\$ 0.05	\$ 514.55	\$ 0.27	3.5	9.0	12.5	\$ 0.05	\$ 313.75	\$ 0.27		
101-500	\$ 27.03	15	8.5	12.0	20.5	\$ 0.05	\$ 554.12	\$ 0.76	3.5	9.0	12.5	\$ 0.05	\$ 337.88	\$ 0.76		
501-1,000	\$ 28.96	30	8.5	12.0	20.5	\$ -	\$ 593.68	\$ -	3.5	9.0	12.5	\$ 0.05	\$ 362.00	\$ 1.51		
1,001-4,100	\$ 29.73	43	8.5	12.0	20.5	\$ -	\$ 609.47	\$ -	3.5	9.0	12.5	\$ 0.05	\$ 371.63	\$ 2.14		
4,101-33,000	\$ 36.00	39	8.7	12.0	20.7	\$ -	\$ 746.87	\$ -	3.5	9.0	12.5	\$ 0.05	\$ 450.00	\$ 1.77		
33,001-96,000	\$ 36.39	14	10.0	12.0	22.0	\$ -	\$ 800.58	\$ -	3.5	9.0	12.5	\$ 0.02	\$ 454.88	\$ 0.27		
96,001-500,000	\$ 41.01	9	10.0	12.0	22.0	\$ -	\$ 902.22	\$ -	3.5	9.0	12.5	\$ 0.02	\$ 512.63	\$ 0.18		
500,001-1 Million	\$ 41.01	1	10.0	12.0	22.0	\$ -	\$ 902.22	\$ -	3.5	9.0	12.5	\$ 0.02	\$ 512.63	\$ 0.02		
> 1 Million	\$ 41.01	-	10.0	12.0	22.0	\$ -	\$ 902.22	\$ -	3.5	9.0	12.5	\$ 0.02	\$ 512.63	\$ -		

Notes:

(B) Service connections per system is consistent with SDWIS 2007 4th Quarter Freeze data. Data for certain size categories (e.g., <500, 501-1,000) may seem counterintuitive. EPA is investigating the SDWIS database for any data discrepancies.

(F), (J) used to derived 1989 TCR PN costs; (F) used to derive RTCR PN costs.

Sources:

(A) Labor rates for PWSs from Exhibit A.1.

(B) SDWIS 2007 4th Quarter Freeze.

(C), (D), (G), (H) Labor hour assumptions based on best professional judgment as carried forward from the Information Collection Request for the Public Water System Supervision Program¹

(E), (I) Distribution cost assumptions based on best professional judgment as carried forward from the original PN ICR.

¹US Environmental Protection Agency, 2008. Information Collection Request for the Public Water System Supervision Program. OMB Control Number: 2040-0090. EPA Tracking Number: 0270.43.

Exhibit A.25 State Unit Burden and Cost Estimates for Public Notification

Labor Cost (per hour)	Tier 1 Consultation (labor) (hours/violation)	Tier 2 Consultation (labor) (hours/violation)	Receive/Review PN Certification (labor) (hours/violation)	File Reports (labor) (hours/violation)	Tier 1 Unit Burden	Tier 2 Unit Burden	Tier 1 Unit Cost	Tier 2 Unit Cost
A	B	C	D	E	F=B+D+E	G=C+D+E	H=A*(B+D+E)	I=A*(C+D+E)
\$ 39.22	3.00	1.10	0.20	0.10	3.30	1.40	\$ 129.42	\$ 54.91

Sources:

(A) Labor rate for state employee from Exhibit A.1.

(B), (C), (D), (E) Labor hour assumptions based on best professional judgment as carried forward from the *Information Collection Request for the Public Water System Supervision Program*¹

¹US Environmental Protection Agency. 2008. *Information Collection Request for the Public Water System Supervision Program*. OMB Control Number: 2040-0090. EPA Tracking Number: 0270.43.

Exhibit A.26 Respondents, Year by Year by Activity (RTCR)

PWSs										
Respondents	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Start-Up Activities										
Implementation	51,612	51,612	51,612	-	-	-	-	-	-	-
Revise Sample Siting Plan	-	77,419	77,419	-	-	-	-	-	-	-
Annual Activities										
Routine Monitoring	-	-	-	154,837	154,837	154,837	154,837	154,837	154,837	154,837
Additional Routine Monitoring	-	-	-	1,511	1,478	1,451	1,422	1,442	1,299	1,260
Repeat Monitoring	-	-	-	5,052	4,967	4,885	4,753	4,778	4,851	4,817
Annual Site Visits	-	-	-	-	-	-	-	-	-	-
Level 1 Assessments - Non-Acute Trigger (single trigger)	-	-	-	4,888	4,802	4,655	4,766	4,646	4,822	4,611
Level 2 Assessments - Acute Violations	-	-	-	630	571	583	590	561	535	569
Level 2 Assessments - Level 2 Triggers (triggered by multiple Level 1s)	-	-	-	2,576	2,150	1,960	1,757	1,659	1,844	1,762
Corrective Actions Based on Level 1 Assessments	-	-	-	454	477	449	486	480	497	454
Corrective Actions Based on Level 2 Assessments	-	-	-	337	240	251	243	218	225	233
Public Notification	-	-	-	630	571	583	590	561	535	569
PWSs with one/more Respondent Activities	51,612	129,031	129,031	154,837	154,837	154,837	154,837	154,837	154,837	154,837
States										
Respondents	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Start-Up Activities										
Implementation	57	57	57	-	-	-	-	-	-	-
Revise Sample Siting Plan	-	57	57	-	-	-	-	-	-	-
Annual Activities										
Annual Administration	-	-	-	-	-	-	-	-	-	-
Routine Monitoring	-	-	-	-	-	-	-	-	-	-
Additional Routine Monitoring	-	-	-	-	-	-	-	-	-	-
Repeat Monitoring	-	-	-	-	-	-	-	-	-	-
Annual Site Visits	-	-	-	-	-	-	-	-	-	-
Level 1 Assessments - Non-Acute Trigger	-	-	-	57	57	57	57	57	57	57
Level 2 Assessments - Acute Violations	-	-	-	57	57	57	57	57	57	57
Level 2 Assessments - Level 2 Triggers (triggered by multiple Level 1s)	-	-	-	57	57	57	57	57	57	57
Corrective Actions Based on Level 1 Assessments	-	-	-	57	57	57	57	57	57	57
Corrective Actions Based on Level 2 Assessments	-	-	-	57	57	57	57	57	57	57
Public Notification	-	-	-	57	57	57	57	57	57	57
Sum for PWSs and States										
Respondents	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
PWSs	51,612	129,031	129,031	154,837	154,837	154,837	154,837	154,837	154,837	154,837
States and Territories	57	57	57	57	57	57	57	57	57	57
Yearly Total	51,669	129,088	129,088	154,894	154,894	154,894	154,894	154,894	154,894	154,894

Exhibit A.27 Respondents, Year by Year by Activity (1989 TCR)

PWSs										
Respondents	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Start-Up Activities										
Implementation	-	-	-	-	-	-	-	-	-	-
Revise Sample Siting Plan	-	-	-	-	-	-	-	-	-	-
Annual Activities										
Routine Monitoring	-	-	-	154,837	154,837	154,837	154,837	154,837	154,837	154,837
Additional Routine Monitoring	-	-	-	4,708	4,671	4,654	4,636	4,660	4,711	4,728
Repeat Monitoring	-	-	-	5,196	5,168	5,171	5,153	5,144	5,207	5,184
Annual Site Visits	-	-	-	-	-	-	-	-	-	-
Level 1 Assessments - Non-Acute Violation (single violation)	-	-	-	4,921	4,917	4,898	4,953	4,866	4,987	4,945
Level 2 Assessments - Acute Violations	-	-	-	667	720	739	685	742	751	688
Level 2 Assessments - Non-Acute Violations (multiple violations)	-	-	-	2,610	2,524	2,523	2,469	2,571	2,575	2,720
Corrective Actions Based on Level 1 Assessments	-	-	-	-	-	-	-	-	-	-
Corrective Actions Based on Level 2 Assessments	-	-	-	-	-	-	-	-	-	-
Public Notification	-	-	-	8,197	8,161	8,159	8,107	8,179	8,312	8,354
PWSs with one/more Respondent Activities	-	-	-	154,837	154,837	154,837	154,837	154,837	154,837	154,837
States										
Respondents	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Start-Up Activities										
Implementation	-	-	-	-	-	-	-	-	-	-
Revise Sample Siting Plan	-	-	-	-	-	-	-	-	-	-
Annual Activities										
Annual Administration	-	-	-	-	-	-	-	-	-	-
Routine Monitoring	-	-	-	-	-	-	-	-	-	-
Additional Routine Monitoring	-	-	-	-	-	-	-	-	-	-
Repeat Monitoring	-	-	-	-	-	-	-	-	-	-
Annual Site Visits	-	-	-	-	-	-	-	-	-	-
Level 1 Assessments - Non-Acute Violation (single violation)	-	-	-	57	57	57	57	57	57	57
Level 2 Assessments - Acute Violations	-	-	-	57	57	57	57	57	57	57
Level 2 Assessments - Non-Acute Violations (multiple violations)	-	-	-	57	57	57	57	57	57	57
Corrective Actions Based on Level 1 Assessments	-	-	-	-	-	-	-	-	-	-
Corrective Actions Based on Level 2 Assessments	-	-	-	-	-	-	-	-	-	-
Public Notification	-	-	-	57	57	57	57	57	57	57
Sum for PWSs and States										
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
PWSs	-	-	-	154,837	154,837	154,837	154,837	154,837	154,837	154,837
States and Territories	-	-	-	57	57	57	57	57	57	57
Yearly Total	-	-	-	154,894	154,894	154,894	154,894	154,894	154,894	154,894

Exhibit A.28 RTCR Net Change Respondents, Year by Year by Activity

PWSs

Respondents	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Start-Up Activities										
Implementation	51,612	51,612	51,612	-	-	-	-	-	-	-
Revise Sample Siting Plan	-	77,419	77,419	-	-	-	-	-	-	-
Annual Activities										
Routine Monitoring	-	-	-	-	-	-	-	-	-	-
Additional Routine Monitoring	-	-	-	(3,197)	(3,193)	(3,203)	(3,215)	(3,219)	(3,412)	(3,468)
Repeat Monitoring	-	-	-	(143)	(200)	(286)	(400)	(366)	(356)	(367)
Annual Site Visits	-	-	-	-	-	-	-	-	-	-
Level 1 Assessments - Non-Acute Trigger (single trigger)	-	-	-	(32)	(115)	(243)	(187)	(219)	(165)	(334)
Level 2 Assessments - Acute Violations	-	-	-	(37)	(148)	(155)	(95)	(180)	(216)	(119)
Level 2 Assessments - Level 2 Triggers (triggered by multiple Level 1s)	-	-	-	(34)	(375)	(563)	(712)	(912)	(731)	(958)
Corrective Actions Based on Level 1 Assessments	-	-	-	454	477	449	486	480	497	454
Corrective Actions Based on Level 2 Assessments	-	-	-	337	240	251	243	218	225	233
Public Notification	-	-	-	(7,567)	(7,590)	(7,576)	(7,516)	(7,617)	(7,777)	(7,784)
PWSs with one/more Respondent Activities	51,612	129,031	129,031	-	-	-	-	-	-	-

States

Respondents	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Start-Up Activities										
Implementation	57	57	57	-	-	-	-	-	-	-
Revise Sample Siting Plan	-	57	57	-	-	-	-	-	-	-
Annual Activities										
Annual Administration	-	-	-	-	-	-	-	-	-	-
Routine Monitoring	-	-	-	-	-	-	-	-	-	-
Additional Routine Monitoring	-	-	-	-	-	-	-	-	-	-
Repeat Monitoring	-	-	-	-	-	-	-	-	-	-
Annual Site Visits	-	-	-	-	-	-	-	-	-	-
Level 1 Assessments - Non-Acute Trigger	-	-	-	-	-	-	-	-	-	-
Level 2 Assessments - Acute Violations	-	-	-	-	-	-	-	-	-	-
Level 2 Assessments - Level 2 Triggers (triggered by multiple Level 1s)	-	-	-	-	-	-	-	-	-	-
Corrective Actions Based on Level 1 Assessments	-	-	-	57	57	57	57	57	57	57
Corrective Actions Based on Level 2 Assessments	-	-	-	57	57	57	57	57	57	57
Public Notification	-	-	-	-	-	-	-	-	-	-

Exhibit A.29 Responses, Year by Year by Activity (RTCR)

PWSs

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Start-Up Activities										
Implementation	51,612	51,612	51,612	-	-	-	-	-	-	-
Revise Sample Siting Plan	-	77,419	77,419	-	-	-	-	-	-	-
Annual Activities										
Routine Monitoring	-	-	-	3,553,465	3,553,488	3,553,505	3,553,520	3,553,516	3,599,332	3,599,332
Additional Routine Monitoring	-	-	-	36,209	35,391	34,725	33,987	34,467	31,443	30,483
Repeat Monitoring	-	-	-	121,084	118,946	116,896	113,621	114,240	117,425	116,552
Annual Site Visits	-	-	-	-	-	-	-	-	-	-
Level 1 Assessments - Non-Acute Trigger (single trigger)	-	-	-	4,888	4,802	4,655	4,766	4,646	4,822	4,611
Level 2 Assessments - Acute Violations	-	-	-	630	571	583	590	561	535	569
Level 2 Assessments - Level 2 Triggers (triggered by multiple Level 1s)	-	-	-	2,576	2,150	1,960	1,757	1,659	1,844	1,762
Corrective Actions Based on Level 1 Assessments	-	-	-	454	477	449	486	480	497	454
Corrective Actions Based on Level 2 Assessments	-	-	-	337	240	251	243	218	225	233
Public Notification	-	-	-	630	571	583	590	561	535	569
Yearly Total	51,612	129,031	129,031	3,720,273	3,716,636	3,713,608	3,709,559	3,710,350	3,756,656	3,754,566

States

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Start-Up Activities										
Implementation	57	57	57	-	-	-	-	-	-	-
Revise Sample Siting Plan	-	77,419	77,419	-	-	-	-	-	-	-
Annual Activities										
Annual Administration	-	-	-	-	-	-	-	-	-	-
Routine Monitoring	-	-	-	-	-	-	-	-	-	-
Additional Routine Monitoring	-	-	-	-	-	-	-	-	-	-
Repeat Monitoring	-	-	-	-	-	-	-	-	-	-
Annual Site Visits	-	-	-	-	-	-	-	-	-	-
Level 1 Assessments - Non-Acute Trigger	-	-	-	4,888	4,802	4,655	4,766	4,646	4,822	4,611
Level 2 Assessments - Acute Violations	-	-	-	630	571	583	590	561	535	569
Level 2 Assessments - Level 2 Triggers (triggered by multiple Level 1s)	-	-	-	2,576	2,150	1,960	1,757	1,659	1,844	1,762
Corrective Actions Based on Level 1 Assessments	-	-	-	454	477	449	486	480	497	454
Corrective Actions Based on Level 2 Assessments	-	-	-	337	240	251	243	218	225	233
Public Notification	-	-	-	630	571	583	590	561	535	569
Yearly Total	57	77,476	77,476	9,515	8,811	8,482	8,432	8,126	8,456	8,199

Sum for PWSs and States

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
PWSs	51,612	129,031	129,031	3,720,273	3,716,636	3,713,608	3,709,559	3,710,350	3,756,656	3,754,566
States and Territories	57	77,476	77,476	9,515	8,811	8,482	8,432	8,126	8,456	8,199
Yearly Total	51,669	206,506	206,506	3,729,788	3,725,447	3,722,089	3,717,991	3,718,476	3,765,113	3,762,765

Exhibit A.30 Responses, Year by Year by Activity (1989 TCR)

PWSs										
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Start-Up Activities										
Implementation	-	-	-	-	-	-	-	-	-	-
Revise Sample Siting Plan	-	-	-	-	-	-	-	-	-	-
Annual Activities										
Routine Monitoring	-	-	-	3,492,312	3,492,532	3,492,473	3,492,412	3,492,401	3,492,422	3,492,431
Additional Routine Monitoring	-	-	-	113,450	112,516	112,092	111,632	112,223	113,531	113,933
Repeat Monitoring	-	-	-	125,198	124,469	124,543	124,071	123,865	125,483	124,937
Annual Site Visits	-	-	-	-	-	-	-	-	-	-
Level 1 Assessments - Non-Acute Violation (single violation)	-	-	-	4,921	4,917	4,898	4,953	4,866	4,987	4,945
Level 2 Assessments - Acute Violations	-	-	-	667	720	739	685	742	751	688
Level 2 Assessments - Non-Acute Violations (multiple violations)	-	-	-	2,610	2,524	2,523	2,469	2,571	2,575	2,720
Corrective Actions Based on Level 1 Assessments	-	-	-	-	-	-	-	-	-	-
Corrective Actions Based on Level 2 Assessments	-	-	-	-	-	-	-	-	-	-
Public Notification	-	-	-	8,197	8,161	8,159	8,107	8,179	8,312	8,354
Yearly Total	-	-	-	3,747,355	3,745,839	3,745,426	3,744,328	3,744,846	3,748,060	3,748,008
States										
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Start-Up Activities										
Implementation	-	-	-	-	-	-	-	-	-	-
Revise Sample Siting Plan	-	-	-	-	-	-	-	-	-	-
Annual Activities										
Annual Administration	-	-	-	-	-	-	-	-	-	-
Routine Monitoring	-	-	-	-	-	-	-	-	-	-
Additional Routine Monitoring	-	-	-	-	-	-	-	-	-	-
Repeat Monitoring	-	-	-	-	-	-	-	-	-	-
Annual Site Visits	-	-	-	-	-	-	-	-	-	-
Level 1 Assessments - Non-Acute Violation (single violation)	-	-	-	4,921	4,917	4,898	4,953	4,866	4,987	4,945
Level 2 Assessments - Acute Violations	-	-	-	667	720	739	685	742	751	688
Level 2 Assessments - Non-Acute Violations (multiple violations)	-	-	-	2,610	2,524	2,523	2,469	2,571	2,575	2,720
Corrective Actions Based on Level 1 Assessments	-	-	-	-	-	-	-	-	-	-
Corrective Actions Based on Level 2 Assessments	-	-	-	-	-	-	-	-	-	-
Public Notification	-	-	-	8,197	8,161	8,159	8,107	8,179	8,312	8,354
Yearly Total	-	-	-	16,395	16,322	16,318	16,213	16,357	16,625	16,707
Sum for PWSs and States										
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
PWSs	-	-	-	3,747,355	3,745,839	3,745,426	3,744,328	3,744,846	3,748,060	3,748,008
States and Territories	-	-	-	16,395	16,322	16,318	16,213	16,357	16,625	16,707
Yearly Total	-	-	-	3,763,750	3,762,160	3,761,744	3,760,542	3,761,203	3,764,685	3,764,715

Exhibit A.31 RTCR Net Change Responses, Year by Year by Activity

PWSs

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Start-Up Activities										
Implementation	51,612	51,612	51,612	-	-	-	-	-	-	-
Revise Sample Siting Plan	-	77,419	77,419	-	-	-	-	-	-	-
Annual Activities										
Routine Monitoring	-	-	-	61,153	60,956	61,032	61,108	61,115	106,911	106,901
Additional Routine Monitoring	-	-	-	(77,241)	(77,124)	(77,367)	(77,646)	(77,756)	(82,088)	(83,450)
Repeat Monitoring	-	-	-	(4,114)	(5,523)	(7,647)	(10,450)	(9,625)	(8,058)	(8,385)
Annual Site Visits	-	-	-	-	-	-	-	-	-	-
Level 1 Assessments - Non-Acute Trigger (single trigger)	-	-	-	(32)	(115)	(243)	(187)	(219)	(165)	(334)
Level 2 Assessments - Acute Violations	-	-	-	(37)	(148)	(155)	(95)	(180)	(216)	(119)
Level 2 Assessments - Level 2 Triggers (triggered by multiple Level 1s)	-	-	-	(34)	(375)	(563)	(712)	(912)	(731)	(958)
Corrective Actions Based on Level 1 Assessments	-	-	-	454	477	449	486	480	497	454
Corrective Actions Based on Level 2 Assessments	-	-	-	337	240	251	243	218	225	233
Public Notification	-	-	-	(7,567)	(7,590)	(7,576)	(7,516)	(7,617)	(7,777)	(7,784)
Yearly Total	51,612	129,031	129,031	(27,082)	(29,202)	(31,818)	(34,769)	(34,496)	8,596	6,558

States

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Start-Up Activities										
Implementation	57	57	57	-	-	-	-	-	-	-
Revise Sample Siting Plan	-	77,419	77,419	-	-	-	-	-	-	-
Annual Activities										
Annual Administration	-	-	-	-	-	-	-	-	-	-
Routine Monitoring	-	-	-	-	-	-	-	-	-	-
Additional Routine Monitoring	-	-	-	-	-	-	-	-	-	-
Repeat Monitoring	-	-	-	-	-	-	-	-	-	-
Annual Site Visits	-	-	-	-	-	-	-	-	-	-
Level 1 Assessments - Non-Acute Trigger	-	-	-	(32)	(115)	(243)	(187)	(219)	(165)	(334)
Level 2 Assessments - Acute Violations	-	-	-	(37)	(148)	(155)	(95)	(180)	(216)	(119)
Level 2 Assessments - Level 2 Triggers (triggered by multiple Level 1s)	-	-	-	(34)	(375)	(563)	(712)	(912)	(731)	(958)
Corrective Actions Based on Level 1 Assessments	-	-	-	454	477	449	486	480	497	454
Corrective Actions Based on Level 2 Assessments	-	-	-	337	240	251	243	218	225	233
Public Notification	-	-	-	(7,567)	(7,590)	(7,576)	(7,516)	(7,617)	(7,777)	(7,784)
Yearly Total	57	77,476	77,476	(6,880)	(7,510)	(7,836)	(7,781)	(8,231)	(8,168)	(8,508)

Sum for PWSs and States

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
PWSs	51,612	129,031	129,031	(27,082)	(29,202)	(31,818)	(34,769)	(34,496)	8,596	6,558
States and Territories	57	77,476	77,476	(6,880)	(7,510)	(7,836)	(7,781)	(8,231)	(8,168)	(8,508)
Yearly Total	51,669	206,506	206,506	(33,961)	(36,713)	(39,654)	(42,550)	(42,727)	428	(1,950)

Exhibit A.32 Burden, Year by Year by Activity (RTCR)

PWSs

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Start-Up Activities										
Implementation	619,348	619,348	619,348	-	-	-	-	-	-	-
Revise Sample Siting Plan	-	192,750	192,750	-	-	-	-	-	-	-
Annual Activities										
Routine Monitoring	-	-	-	3,186,637	3,186,649	3,186,658	3,186,665	3,186,663	3,209,398	3,209,398
Additional Routine Monitoring	-	-	-	18,383	17,966	17,621	17,255	17,493	15,972	15,490
Repeat Monitoring	-	-	-	89,727	88,493	87,178	84,513	85,003	86,230	85,775
Annual Site Visits	-	-	-	-	-	-	-	-	-	-
Level 1 Assessments - Non-Acute Trigger (single trigger)	-	-	-	66,340	65,556	64,135	64,517	63,170	64,690	63,225
Level 2 Assessments - Acute Violations	-	-	-	16,302	15,016	15,251	15,302	14,625	14,058	14,666
Level 2 Assessments - Level 2 Triggers (triggered by multiple Level 1s)	-	-	-	34,953	28,688	26,285	23,198	21,959	23,223	22,428
Corrective Actions Based on Level 1 Assessments	-	-	-	227	239	225	243	240	248	227
Corrective Actions Based on Level 2 Assessments	-	-	-	168	120	126	121	109	112	116
Public Notification	-	-	-	12,939	11,732	11,977	12,124	11,528	10,988	11,695
Yearly Total	619,348	812,098	812,098	3,425,678	3,414,459	3,409,454	3,403,938	3,400,791	3,424,918	3,423,021

States

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Start-Up Activities										
Implementation	27,428	27,428	27,428	-	-	-	-	-	-	-
Revise Sample Siting Plan	-	96,375	96,375	-	-	-	-	-	-	-
Annual Activities										
Annual Administration	-	-	-	-	-	-	-	-	-	-
Routine Monitoring	-	-	-	-	-	-	-	-	-	-
Additional Routine Monitoring	-	-	-	-	-	-	-	-	-	-
Repeat Monitoring	-	-	-	-	-	-	-	-	-	-
Annual Site Visits	-	-	-	-	-	-	-	-	-	-
Level 1 Assessments - Non-Acute Trigger	-	-	-	6,223	6,127	5,972	6,068	5,936	6,112	5,903
Level 2 Assessments - Acute Violations	-	-	-	1,538	1,412	1,427	1,432	1,367	1,310	1,371
Level 2 Assessments - Level 2 Triggers (triggered by multiple Level 1s)	-	-	-	5,869	4,879	4,408	3,946	3,719	4,058	3,879
Corrective Actions Based on Level 1 Assessments	-	-	-	227	239	225	243	240	248	227
Corrective Actions Based on Level 2 Assessments	-	-	-	168	120	126	121	109	112	116
Public Notification	-	-	-	2,079	1,885	1,924	1,948	1,852	1,765	1,879
Yearly Total	27,428	123,803	123,803	16,105	14,662	14,081	13,759	13,224	13,606	13,375

Sum for PWSs and States

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
PWSs	619,348	812,098	812,098	3,425,678	3,414,459	3,409,454	3,403,938	3,400,791	3,424,918	3,423,021
States and Territories	27,428	123,803	123,803	16,105	14,662	14,081	13,759	13,224	13,606	13,375
Yearly Total	646,776	935,901	935,901	3,441,783	3,429,120	3,423,535	3,417,697	3,414,015	3,438,524	3,436,396

Exhibit A.33 Burden, Year by Year by Activity (1989 TCR)

PWSs

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Start-Up Activities										
Implementation	-	-	-	-	-	-	-	-	-	-
Revise Sample Siting Plan	-	-	-	-	-	-	-	-	-	-
Annual Activities										
Routine Monitoring	-	-	-	3,153,905	3,154,023	3,153,994	3,153,952	3,153,962	3,153,950	3,153,976
Additional Routine Monitoring	-	-	-	61,522	61,034	60,809	60,640	60,884	61,587	61,721
Repeat Monitoring	-	-	-	91,634	91,003	91,372	90,909	90,612	91,654	91,192
Annual Site Visits	-	-	-	-	-	-	-	-	-	-
Level 1 Assessments - Non-Acute Violation (single violation)	-	-	-	43,639	43,495	43,225	43,545	43,394	43,759	43,735
Level 2 Assessments - Acute Violations	-	-	-	6,927	7,110	7,321	6,927	7,412	7,479	6,923
Level 2 Assessments - Non-Acute Violations (multiple violations)	-	-	-	22,985	22,228	22,299	21,865	22,601	22,557	23,624
Corrective Actions Based on Level 1 Assessments	-	-	-	-	-	-	-	-	-	-
Corrective Actions Based on Level 2 Assessments	-	-	-	-	-	-	-	-	-	-
Public Notification	-	-	-	126,696	126,362	126,371	125,294	126,722	128,526	128,914
Yearly Total	-	-	-	3,507,307	3,505,255	3,505,391	3,503,132	3,505,587	3,509,512	3,510,087

States

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Start-Up Activities										
Implementation	-	-	-	-	-	-	-	-	-	-
Revise Sample Siting Plan	-	-	-	-	-	-	-	-	-	-
Annual Activities										
Annual Administration	-	-	-	-	-	-	-	-	-	-
Routine Monitoring	-	-	-	-	-	-	-	-	-	-
Additional Routine Monitoring	-	-	-	-	-	-	-	-	-	-
Repeat Monitoring	-	-	-	-	-	-	-	-	-	-
Annual Site Visits	-	-	-	-	-	-	-	-	-	-
Level 1 Assessments - Non-Acute Violation (single violation)	-	-	-	6,294	6,278	6,251	6,314	6,227	6,347	6,318
Level 2 Assessments - Acute Violations	-	-	-	1,614	1,726	1,762	1,655	1,770	1,802	1,655
Level 2 Assessments - Non-Acute Violations (multiple violations)	-	-	-	5,921	5,740	5,737	5,634	5,831	5,843	6,147
Corrective Actions Based on Level 1 Assessments	-	-	-	-	-	-	-	-	-	-
Corrective Actions Based on Level 2 Assessments	-	-	-	-	-	-	-	-	-	-
Public Notification	-	-	-	12,744	12,792	12,826	12,650	12,859	13,065	13,002
Yearly Total	-	-	-	26,573	26,536	26,576	26,253	26,687	27,057	27,122

Sum for PWSs and States

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
PWSs	-	-	-	3,507,307	3,505,255	3,505,391	3,503,132	3,505,587	3,509,512	3,510,087
States and Territories	-	-	-	26,573	26,536	26,576	26,253	26,687	27,057	27,122
Yearly Total	-	-	-	3,533,881	3,531,791	3,531,967	3,529,385	3,532,274	3,536,569	3,537,209

Exhibit A.34 RTCR Net Change Burden, Year by Year by Activity

PWSs

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Start-Up Activities										
Implementation	619,348	619,348	619,348	-	-	-	-	-	-	-
Revise Sample Siting Plan	-	192,750	192,750	-	-	-	-	-	-	-
Annual Activities										
Routine Monitoring	-	-	-	32,732	32,626	32,663	32,714	32,702	55,448	55,422
Additional Routine Monitoring	-	-	-	(43,139)	(43,068)	(43,189)	(43,385)	(43,391)	(45,615)	(46,231)
Repeat Monitoring	-	-	-	(1,907)	(2,510)	(4,194)	(6,397)	(5,609)	(5,424)	(5,418)
Annual Site Visits	-	-	-	-	-	-	-	-	-	-
Level 1 Assessments - Non-Acute Trigger (single trigger)	-	-	-	22,702	22,061	20,910	20,973	19,776	20,931	19,489
Level 2 Assessments - Acute Violations	-	-	-	9,375	7,906	7,930	8,375	7,213	6,578	7,742
Level 2 Assessments - Level 2 Triggers (triggered by multiple Level 1s)	-	-	-	11,968	6,460	3,986	1,333	(642)	665	(1,196)
Corrective Actions Based on Level 1 Assessments	-	-	-	227	239	225	243	240	248	227
Corrective Actions Based on Level 2 Assessments	-	-	-	168	120	126	121	109	112	116
Public Notification	-	-	-	(113,757)	(114,630)	(114,394)	(113,170)	(115,194)	(117,537)	(117,219)
Yearly Total	619,348	812,098	812,098	(81,630)	(90,796)	(95,937)	(99,194)	(104,796)	(84,593)	(87,066)

States

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Start-Up Activities										
Implementation	27,428	27,428	27,428	-	-	-	-	-	-	-
Revise Sample Siting Plan	-	96,375	96,375	-	-	-	-	-	-	-
Annual Activities										
Annual Administration	-	-	-	-	-	-	-	-	-	-
Routine Monitoring	-	-	-	-	-	-	-	-	-	-
Additional Routine Monitoring	-	-	-	-	-	-	-	-	-	-
Repeat Monitoring	-	-	-	-	-	-	-	-	-	-
Annual Site Visits	-	-	-	-	-	-	-	-	-	-
Level 1 Assessments - Non-Acute Trigger	-	-	-	(72)	(151)	(279)	(245)	(290)	(235)	(415)
Level 2 Assessments - Acute Violations	-	-	-	(76)	(314)	(335)	(223)	(403)	(492)	(285)
Level 2 Assessments - Level 2 Triggers (triggered by multiple Level 1s)	-	-	-	(52)	(861)	(1,329)	(1,688)	(2,112)	(1,785)	(2,268)
Corrective Actions Based on Level 1 Assessments	-	-	-	227	239	225	243	240	248	227
Corrective Actions Based on Level 2 Assessments	-	-	-	168	120	126	121	109	112	116
Public Notification	-	-	-	(10,664)	(10,907)	(10,901)	(10,702)	(11,007)	(11,299)	(11,123)
Yearly Total	27,428	123,803	123,803	(10,468)	(11,874)	(12,495)	(12,494)	(13,464)	(13,451)	(13,747)

Sum for PWSs and States

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
PWSs	619,348	812,098	812,098	(81,630)	(90,796)	(95,937)	(99,194)	(104,796)	(84,593)	(87,066)
States and Territories	27,428	123,803	123,803	(10,468)	(11,874)	(12,495)	(12,494)	(13,464)	(13,451)	(13,747)
Yearly Total	646,776	935,901	935,901	(92,098)	(102,670)	(108,432)	(111,688)	(118,260)	(98,044)	(100,813)

Exhibit A.35 Costs, Year by Year by Activity (RTCR)

PWSs

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Start-Up Activities										
Implementation	\$ 16,583,083	\$ 16,583,083	\$ 16,583,083	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revise Sample Siting Plan	\$ -	\$ 5,382,834	\$ 5,382,834	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual Activities										
Routine Monitoring (Labor + O&M)										
<i>Labor</i>	\$ -	\$ -	\$ -	\$ 114,740,703	\$ 114,741,002	\$ 114,741,211	\$ 114,741,424	\$ 114,741,362	\$ 115,314,124	\$ 115,314,134
<i>Annual O&M</i>	\$ -	\$ -	\$ -	\$ 86,127,063	\$ 86,127,921	\$ 86,128,567	\$ 86,129,159	\$ 86,128,996	\$ 87,869,696	\$ 87,869,700
Additional Routine Monitoring (Labor + O&M)										
<i>Labor</i>	\$ -	\$ -	\$ -	\$ 472,804	\$ 462,233	\$ 453,486	\$ 443,882	\$ 449,595	\$ 411,047	\$ 398,865
<i>Annual O&M</i>	\$ -	\$ -	\$ -	\$ 1,002,609	\$ 980,204	\$ 962,124	\$ 941,513	\$ 954,735	\$ 871,303	\$ 845,220
Repeat Monitoring (Labor + O&M)										
<i>Labor</i>	\$ -	\$ -	\$ -	\$ 2,974,862	\$ 2,940,039	\$ 2,900,282	\$ 2,807,430	\$ 2,823,937	\$ 2,846,541	\$ 2,834,986
<i>Annual O&M</i>	\$ -	\$ -	\$ -	\$ 2,911,479	\$ 2,853,698	\$ 2,800,622	\$ 2,725,902	\$ 2,739,708	\$ 2,832,274	\$ 2,808,864
Annual Site Visits	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Level 1 Assessments - Non-Acute Trigger (single trigger)	\$ -	\$ -	\$ -	\$ 1,958,032	\$ 1,937,902	\$ 1,901,058	\$ 1,908,547	\$ 1,872,785	\$ 1,911,304	\$ 1,875,193
Level 2 Assessments - Acute Violations	\$ -	\$ -	\$ -	\$ 456,822	\$ 423,116	\$ 428,998	\$ 428,818	\$ 410,512	\$ 396,425	\$ 410,564
Level 2 Assessments - Level 2 Triggers (triggered by multiple Level 1s)	\$ -	\$ -	\$ -	\$ 935,043	\$ 765,192	\$ 699,973	\$ 617,760	\$ 584,200	\$ 613,883	\$ 593,125
Corrective Actions Based on Level 1 Assessments	\$ -	\$ -	\$ -	\$ 6,118	\$ 6,424	\$ 6,053	\$ 6,526	\$ 6,445	\$ 6,643	\$ 6,125
Corrective Actions Based on Level 2 Assessments	\$ -	\$ -	\$ -	\$ 4,413	\$ 3,185	\$ 3,302	\$ 3,183	\$ 2,859	\$ 2,944	\$ 3,040
Public Notification (Labor + O&M)										
<i>Labor</i>	\$ -	\$ -	\$ -	\$ 344,640	\$ 313,175	\$ 319,301	\$ 321,921	\$ 306,014	\$ 292,717	\$ 309,775
<i>Annual O&M</i>	\$ -	\$ -	\$ -	\$ 755	\$ 672	\$ 673	\$ 609	\$ 617	\$ 661	\$ 581
Yearly Total	\$ 16,583,083	\$ 21,965,917	\$ 21,965,917	\$ 211,589,947	\$ 211,240,916	\$ 211,025,677	\$ 210,754,145	\$ 210,715,133	\$ 213,076,185	\$ 212,959,816

States

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Start-Up Activities										
Implementation	\$ 1,075,657	\$ 1,075,657	\$ 1,075,657	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revise Sample Siting Plan	\$ -	\$ 3,779,647	\$ 3,779,647	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual Activities										
Annual Administration	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Routine Monitoring (Labor + O&M)										
<i>Labor</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<i>Annual O&M</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Additional Routine Monitoring (Labor + O&M)										
<i>Labor</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<i>Annual O&M</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Repeat Monitoring (Labor + O&M)										
<i>Labor</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<i>Annual O&M</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual Site Visits	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Level 1 Assessments - Non-Acute Trigger (single trigger)	\$ -	\$ -	\$ -	\$ 244,039	\$ 240,274	\$ 234,195	\$ 237,993	\$ 232,807	\$ 239,714	\$ 231,518
Level 2 Assessments - Acute Violations	\$ -	\$ -	\$ -	\$ 60,333	\$ 55,387	\$ 55,969	\$ 56,145	\$ 53,625	\$ 51,357	\$ 53,750
Level 2 Assessments - Level 2 Triggers (triggered by multiple Level 1s)	\$ -	\$ -	\$ -	\$ 230,188	\$ 191,341	\$ 172,874	\$ 154,773	\$ 145,853	\$ 159,143	\$ 152,129
Corrective Actions Based on Level 1 Assessments	\$ -	\$ -	\$ -	\$ 8,906	\$ 9,360	\$ 8,805	\$ 9,524	\$ 9,411	\$ 9,740	\$ 8,906
Corrective Actions Based on Level 2 Assessments	\$ -	\$ -	\$ -	\$ 6,605	\$ 4,712	\$ 4,930	\$ 4,759	\$ 4,276	\$ 4,405	\$ 4,569
Public Notification	\$ -	\$ -	\$ -	\$ 81,545	\$ 73,923	\$ 75,469	\$ 76,396	\$ 72,635	\$ 69,228	\$ 73,689
Yearly Total	\$ 1,075,657	\$ 4,855,303	\$ 4,855,303	\$ 631,615	\$ 574,998	\$ 552,242	\$ 539,591	\$ 518,608	\$ 533,588	\$ 524,561

Sum for PWSs and States

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
PWSs	\$ 16,583,083	\$ 21,965,917	\$ 21,965,917	\$ 211,589,947	\$ 211,240,916	\$ 211,025,677	\$ 210,754,145	\$ 210,715,133	\$ 213,076,185	\$ 212,959,816
States and Territories	\$ 1,075,657	\$ 4,855,303	\$ 4,855,303	\$ 631,615	\$ 574,998	\$ 552,242	\$ 539,591	\$ 518,608	\$ 533,588	\$ 524,561
Yearly Total	\$ 17,658,740	\$ 26,821,220	\$ 26,821,220	\$ 212,221,562	\$ 211,815,913	\$ 211,577,919	\$ 211,293,736	\$ 211,233,741	\$ 213,609,773	\$ 213,484,376

Exhibit A.36 Costs, Year by Year by Activity (1989 TCR)

PWSs										
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Start-Up Activities										
Implementation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revise Sample Siting Plan	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual Activities										
Routine Monitoring (Labor + O&M)										
Labor	\$ -	\$ -	\$ -	\$ 113,878,868	\$ 113,882,117	\$ 113,881,288	\$ 113,880,077	\$ 113,880,529	\$ 113,879,965	\$ 113,880,917
Annual O&M	\$ -	\$ -	\$ -	\$ 83,857,446	\$ 83,865,318	\$ 83,863,433	\$ 83,860,971	\$ 83,860,332	\$ 83,861,680	\$ 83,861,523
Additional Routine Monitoring (Labor + O&M)										
Labor	\$ -	\$ -	\$ -	\$ 1,636,973	\$ 1,623,937	\$ 1,618,247	\$ 1,614,660	\$ 1,620,624	\$ 1,638,225	\$ 1,641,205
Annual O&M	\$ -	\$ -	\$ -	\$ 2,876,658	\$ 2,852,959	\$ 2,842,225	\$ 2,830,568	\$ 2,845,539	\$ 2,878,687	\$ 2,888,887
Repeat Monitoring (Labor + O&M)										
Labor	\$ -	\$ -	\$ -	\$ 3,019,569	\$ 2,996,914	\$ 3,014,249	\$ 2,996,826	\$ 2,984,797	\$ 3,016,595	\$ 3,000,672
Annual O&M	\$ -	\$ -	\$ -	\$ 2,938,162	\$ 2,922,861	\$ 2,919,650	\$ 2,911,882	\$ 2,907,984	\$ 2,948,262	\$ 2,935,477
Annual Site Visits	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Level 1 Assessments - Non-Acute Violation (single violation)	\$ -	\$ -	\$ -	\$ 1,310,676	\$ 1,305,640	\$ 1,298,575	\$ 1,307,003	\$ 1,303,572	\$ 1,312,764	\$ 1,313,184
Level 2 Assessments - Acute Violations	\$ -	\$ -	\$ -	\$ 198,033	\$ 202,394	\$ 207,912	\$ 197,924	\$ 210,383	\$ 212,378	\$ 197,442
Level 2 Assessments - Non-Acute Violations (multiple violations)	\$ -	\$ -	\$ -	\$ 613,818	\$ 593,847	\$ 595,562	\$ 583,827	\$ 603,118	\$ 602,149	\$ 629,325
Corrective Actions Based on Level 1 Assessments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Corrective Actions Based on Level 2 Assessments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Public Notification (Labor + O&M)										
Labor	\$ -	\$ -	\$ -	\$ 3,485,616	\$ 3,473,171	\$ 3,473,257	\$ 3,445,137	\$ 3,483,391	\$ 3,528,693	\$ 3,540,146
Annual O&M	\$ -	\$ -	\$ -	\$ 837,477	\$ 835,216	\$ 834,213	\$ 834,015	\$ 835,083	\$ 835,514	\$ 838,114
Yearly Total	\$ -	\$ -	\$ -	\$ 214,653,297	\$ 214,554,375	\$ 214,548,613	\$ 214,462,891	\$ 214,535,351	\$ 214,714,914	\$ 214,726,891
States										
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Start-Up Activities										
Implementation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revise Sample Siting Plan	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual Activities										
Routine Monitoring (Labor + O&M)										
Labor	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Additional Routine Monitoring (Labor + O&M)										
Labor	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Repeat Monitoring (Labor + O&M)										
Labor	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual O&M	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual Site Visits	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Level 1 Assessments - Non-Acute Violation (single violation)	\$ -	\$ -	\$ -	\$ 246,851	\$ 246,199	\$ 245,148	\$ 247,605	\$ 244,192	\$ 248,931	\$ 247,786
Level 2 Assessments - Acute Violations	\$ -	\$ -	\$ -	\$ 63,305	\$ 67,685	\$ 69,106	\$ 64,900	\$ 69,435	\$ 70,671	\$ 64,925
Level 2 Assessments - Non-Acute Violations (multiple violations)	\$ -	\$ -	\$ -	\$ 232,216	\$ 225,110	\$ 225,013	\$ 220,961	\$ 228,700	\$ 229,150	\$ 241,057
Corrective Actions Based on Level 1 Assessments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Corrective Actions Based on Level 2 Assessments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Public Notification	\$ -	\$ -	\$ -	\$ 499,780	\$ 501,694	\$ 502,995	\$ 496,124	\$ 504,300	\$ 512,370	\$ 509,921
Yearly Total	\$ -	\$ -	\$ -	\$ 1,042,153	\$ 1,040,687	\$ 1,042,263	\$ 1,029,589	\$ 1,046,626	\$ 1,061,122	\$ 1,063,689
Sum for PWSs and States										
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
PWSs	\$ -	\$ -	\$ -	\$ 214,653,297	\$ 214,554,375	\$ 214,548,613	\$ 214,462,891	\$ 214,535,351	\$ 214,714,914	\$ 214,726,891
States and Territories	\$ -	\$ -	\$ -	\$ 1,042,153	\$ 1,040,687	\$ 1,042,263	\$ 1,029,589	\$ 1,046,626	\$ 1,061,122	\$ 1,063,689
Yearly Total	\$ -	\$ -	\$ -	\$ 215,695,450	\$ 215,595,062	\$ 215,590,876	\$ 215,492,480	\$ 215,581,977	\$ 215,776,036	\$ 215,790,580

Exhibit A.37 Net Change RTCR Costs, Year by Year by Activity

PWSs										
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Start-Up Activities										
Implementation	\$ 16,583,083	\$16,583,083	\$16,583,083	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revise Sample Siting Plan	\$ -	\$ 5,382,834	\$ 5,382,834	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual Activities										
Routine Monitoring (Labor + O&M)										
<i>Labor</i>	\$ -	\$ -	\$ -	\$ 861,835	\$ 858,885	\$ 859,923	\$ 861,346	\$ 860,833	\$ 1,434,159	\$ 1,433,218
<i>Annual O&M</i>	\$ -	\$ -	\$ -	\$ 2,269,617	\$ 2,262,602	\$ 2,265,134	\$ 2,268,188	\$ 2,268,664	\$ 4,008,015	\$ 4,008,177
Additional Routine Monitoring (Labor + O&M)										
<i>Labor</i>	\$ -	\$ -	\$ -	\$ (1,164,170)	\$ (1,161,704)	\$ (1,164,761)	\$ (1,170,779)	\$ (1,171,029)	\$ (1,227,179)	\$ (1,242,340)
<i>Annual O&M</i>	\$ -	\$ -	\$ -	\$ (1,874,049)	\$ (1,872,755)	\$ (1,880,101)	\$ (1,889,055)	\$ (1,890,804)	\$ (2,007,383)	\$ (2,043,667)
Repeat Monitoring Samples (Labor + O&M)										
<i>Labor</i>	\$ -	\$ -	\$ -	\$ (44,707)	\$ (56,875)	\$ (113,967)	\$ (189,396)	\$ (160,860)	\$ (170,054)	\$ (165,686)
<i>Annual O&M</i>	\$ -	\$ -	\$ -	\$ (26,683)	\$ (69,163)	\$ (119,029)	\$ (185,979)	\$ (168,275)	\$ (115,988)	\$ (126,613)
Annual Site Visits	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Level 1 Assessments - Non-Acute Trigger (single trigger)	\$ -	\$ -	\$ -	\$ 647,356	\$ 632,262	\$ 602,483	\$ 601,545	\$ 569,213	\$ 598,540	\$ 562,008
Level 2 Assessments - Acute Violations	\$ -	\$ -	\$ -	\$ 258,789	\$ 220,722	\$ 221,086	\$ 230,894	\$ 200,129	\$ 184,047	\$ 213,122
Level 2 Assessments - Level 2 Triggers (triggered by multiple Level 1s)	\$ -	\$ -	\$ -	\$ 321,225	\$ 171,344	\$ 104,411	\$ 33,933	\$ (18,918)	\$ 11,734	\$ (36,200)
Corrective Actions Based on Level 1 Assessments	\$ -	\$ -	\$ -	\$ 6,118	\$ 6,424	\$ 6,053	\$ 6,526	\$ 6,445	\$ 6,643	\$ 6,125
Corrective Actions Based on Level 2 Assessments	\$ -	\$ -	\$ -	\$ 4,413	\$ 3,185	\$ 3,302	\$ 3,183	\$ 2,859	\$ 2,944	\$ 3,040
Public Notification (Labor + O&M)										
<i>Labor</i>	\$ -	\$ -	\$ -	\$ (3,140,976)	\$ (3,159,996)	\$ (3,153,957)	\$ (3,123,216)	\$ (3,177,377)	\$ (3,235,976)	\$ (3,230,371)
<i>Annual O&M</i>	\$ -	\$ -	\$ -	\$ (836,721)	\$ (834,544)	\$ (833,540)	\$ (833,406)	\$ (834,465)	\$ (834,853)	\$ (837,533)
<i>Tier 1 (Level 2 Acute)</i>	\$ -	\$ -	\$ -	\$ 889	\$ 789	\$ 883	\$ 832	\$ 892	\$ 808	\$ 820
<i>Tier 2 (Level 1)</i>	\$ -	\$ -	\$ -	\$ 802,508	\$ 800,782	\$ 799,523	\$ 799,899	\$ 800,695	\$ 800,987	\$ 802,450
<i>Tier 2 (Level 2 Non Acute)</i>	\$ -	\$ -	\$ -	\$ 34,080	\$ 33,645	\$ 33,807	\$ 33,284	\$ 33,495	\$ 33,718	\$ 34,843
Yearly Total	\$ 16,583,083	\$21,965,917	\$21,965,917	\$ (2,717,955)	\$ (2,999,613)	\$ (3,202,962)	\$ (3,386,215)	\$ (3,513,586)	\$ (1,345,350)	\$ (1,456,719)
States										
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Start-Up Activities										
Implementation	\$ 1,075,657	\$ 1,075,657	\$ 1,075,657	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revise Sample Siting Plan	\$ -	\$ 3,779,647	\$ 3,779,647	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual Activities										
Routine Monitoring (Labor + O&M)										
<i>Labor</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<i>Annual O&M</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Additional Routine Monitoring (Labor + O&M)										
<i>Labor</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<i>Annual O&M</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Repeat Monitoring Samples (Labor + O&M)										
<i>Labor</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<i>Annual O&M</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual Site Visits	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Level 1 Assessments - Non-Acute Trigger (single trigger)	\$ -	\$ -	\$ -	\$ (2,812)	\$ (5,925)	\$ (10,953)	\$ (9,612)	\$ (11,384)	\$ (9,217)	\$ (16,268)
Level 2 Assessments - Acute Violations	\$ -	\$ -	\$ -	\$ (2,972)	\$ (12,298)	\$ (13,137)	\$ (8,754)	\$ (15,809)	\$ (19,314)	\$ (11,175)
Level 2 Assessments - Level 2 Triggers (triggered by multiple Level 1s)	\$ -	\$ -	\$ -	\$ (2,029)	\$ (33,768)	\$ (52,140)	\$ (66,187)	\$ (82,847)	\$ (70,007)	\$ (88,928)
Corrective Actions Based on Level 1 Assessments	\$ -	\$ -	\$ -	\$ 8,906	\$ 9,360	\$ 8,805	\$ 9,524	\$ 9,411	\$ 9,740	\$ 8,906
Corrective Actions Based on Level 2 Assessments	\$ -	\$ -	\$ -	\$ 6,605	\$ 4,712	\$ 4,930	\$ 4,759	\$ 4,276	\$ 4,405	\$ 4,569
Public Notification	\$ -	\$ -	\$ -	\$ (418,235)	\$ (427,770)	\$ (427,526)	\$ (419,728)	\$ (431,665)	\$ (443,141)	\$ (436,232)
Yearly Total	\$ 1,075,657	\$ 4,855,303	\$ 4,855,303	\$ (410,538)	\$ (465,689)	\$ (490,021)	\$ (489,999)	\$ (528,019)	\$ (527,534)	\$ (539,128)
Sum for PWSs and States										
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
PWSs	\$ 16,583,083	\$21,965,917	\$21,965,917	\$ (2,717,955)	\$ (2,999,613)	\$ (3,202,962)	\$ (3,386,215)	\$ (3,513,586)	\$ (1,345,350)	\$ (1,456,719)
States and Territories	\$ 1,075,657	\$ 4,855,303	\$ 4,855,303	\$ (410,538)	\$ (465,689)	\$ (490,021)	\$ (489,999)	\$ (528,019)	\$ (527,534)	\$ (539,128)
Yearly Total	\$ 17,658,740	\$26,821,220	\$26,821,220	\$ (3,128,493)	\$ (3,465,302)	\$ (3,692,983)	\$ (3,876,214)	\$ (4,041,604)	\$ (1,872,884)	\$ (1,995,848)