APPENDIX A

SUPPORTING SPREADSHEETS FOR INFORMATION COLLECTION REQUEST COSTS FOR SECTION 316(b) PHASE II

8-Jan-06

Exhibit A.1 (approval)

Facility Cost and Burden Estimates for NPDES Permit Application Activities for the Last Two Years if Approval Period

Exhibit A.1a (approval)

Start-up Activities

					Facility Manager	Junior Technical	CAD Operator	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Burden Per	Labor Cost	Capital Cost	O&M Cost p	er Facility	Total Cost	Total Burden	Total Initial Cost
	Fac	ilities ((Respo	ndents)				Assumed Load	ed Hourly Ra	ate			Facility	per Facility	per Facility	Laboratory	ODCs*	Per Facility	(hrs.)	TOTAL ILLIGIA COST
	Year 1	Year	2 Year	3 Total	\$87	\$41	\$35	\$101	\$57	\$65	\$38	\$18				Analysis	ODCS			
Activity			Α					Level of E	ffort (hrs)				В	С	D	E	F	C+D+E+F	A*B	A*(C+D)
Read and Understand Rule	57	23	0	80	12	12	0	0	0	0	0	1	25	\$1,563	\$0	\$0			2,000	\$125,024
Mobilization/Planning	57	23	0	80	4	8	0	0	0	0	0	1	13	\$699	\$0	\$0			1,040	\$55,904
Training	57	23	0	80	2	2	0	0	0	0	0	1	5	\$276	\$0	\$0			400	\$22,064
Totals	57	23	0	80	18	22	0	0	0	0	0	3	43	\$2,537	\$0	\$0	\$54	\$2,591	3,440	\$207,312

Exhibit A.1b (approval)
Permit Application Activities

Citilit Application Activities																				
					Manager	Junior Technical	Operator	Manager	Biologist	Statistician	Technician	Clerical	Burden Per	Labor Cost	Capital Cost	O&M Cost p	per Facility	Total Cost	Total Burden	
			Respond				-	Assumed Load	ed Hourly Ra	ate						Laboratory	ODCs*	Per Facility	(hrs.)	Total Initial Cost
	Year 1	Year 2	Year 3	Total	\$87	\$41	\$35	\$101	\$57	\$65	\$38	\$18				Analysis	0003			
Activity			Α					Level of E	ffort (hrs)				В	С	D	E	F	C+D+E+F	A*B	A*(C+D)
Statement of Compliance Option Selected	117	89	0	206	1	0	0	0	0	0	C) 1	2	\$106	\$0	\$0			412	\$21,774
Source Water Physical Data	117	89	0	206	2	16	40	0	0	0	C) (58	\$2,225	\$0	\$0			11,948	\$458,350
Configuration and Location of CWIS	117	89	0	206	2	5	8	0	0	0	C) (15	\$659	\$0	\$0			3,090	\$135,795
Facility Water Balance Diagram	117	89	0	206	1	1	1	0	0	0	C) (3	\$163	\$0	\$0			618	\$33,660
CWIS Operation Narrative	117	89	0	206	16	40	0	0	0	0	C) (56	\$3,053	\$0	\$0			11,536	\$628,877
CWS Operation Narrative	117	89	0	206	16	40	0	0	0	0	C) (56	\$3,053	\$0	\$0			11,536	\$628,877
Engineering Calculations	117	89	0	206	8	32	0	0	0	0	C) (40	\$2,023	\$0	\$0			8,240	\$416,779
Submit Materials for Review by State		89	0	206	0	0	0	0	0	0	C) 6	6	\$110	\$0	\$0	ĺ		1,236	\$22,742
Recordkeeping	117	89	0	206	2	5	2	0	0	0	C) 2	11	\$488	\$0	\$0			2,266	\$100,487
Totals	117	89	0	206									247	\$11,880	\$0	\$0	\$536	\$12,416	50,882	\$2,557,758

Water balance diagram is assumed to be taken from the facility design report. The hours reported here are for incorporation of the diagram(s) in the permit.

Exhibit A.1c (approval)

Proposal for Collection of Information for Comprehensive Demonstration Study

					Facility Manager	Junior Technical	CAD Operator	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Burden Per	Labor Cost	Capital Cost	O&M Cost p	er Facility	Total Cost	Total Burden	Total Initial Cost
			Respond					Assumed Load	ed Hourly Ra	ate			Facility	per Facility	per Facility	Laboratory	ODCs*	Per Facility	(hrs.)	Total Illitial Cost
	Year 1	Year 2	Year 3	Total	\$87	\$41	\$35	\$101	\$57	\$65	\$38	\$18				Analysis	ODCS	_		
Activity			Α					Level of E	ffort (hrs)				В	С	D	E	F	C+D+E+F	A*B	A*(C+D)
Description of Historical Studies that will be Used	37	0	0	37	20	40	0	0	0	0	0	2	62	\$3,439	\$0	\$0			2,294	\$127,236
Description of Proposed and/or Implemented Technologies	37	0	0	37	8	20	0	0	0	0	0	0	28	\$1,526	\$0	\$0			1,036	\$56,477
Develop Source Water Sampling Plan	37	0	0	37	40	60	8	8	0	0	0	4	120	\$7,133	\$0	\$0			4,440	\$263,914
Submit Data and Plans for Review	37	0	0	37	0	0	0	0	0	0	0	12	12	\$221	\$0	\$0			444	\$8,170
Revise Based on State Review	37	0	0	37	8	16	4	0	0	0	0	4	32	\$1,573	\$0	\$0			1,184	\$58,208
Recordkeeping	37	0	0	37	3	5	1	1	0	0	0	8	18	\$752	\$0	\$0			666	\$27,806
Totals	37	0	0	37		•	•				•	•	272	\$14,644	\$0	\$0	\$803	\$15,447	10,064	\$571,521

Exhibit A.1d (approval)
Source Water Body Flow Information

-	Source water body frow information																				
Г	·					Facility	Junior	CAD	Contracted			Biological					O&M Cost	oor Encility			
						Manager	Technical	Operator	Manager	Biologist	Statistician	Technician	Clerical	Burden Per	Labor Cost	Capital Cost	U&IVI COST	per racility	Total Cost	Total Burden	Total Initial Cost
		Faci	lities (R	espond	ents)			- 1	Assumed Load	ed Hourly Ra	ite			Facility	per Facility	per Facility	Laboratory	ODCs*	Per Facility	(hrs.)	Total Illitial Cost
		Year 1	Year 2	Year 3	Total	\$87	\$41	\$35	\$101	\$57	\$65	\$38	\$18				Analysis	ODC3	-		
Į.	Activity			Α					Level of E	ffort (hrs)				В	С	D	E	F	C+D+E+F	A*B	A*(C+D)
ı	Gather Information to Characterize Flow (FW River/Stream)	42	28	0	70	0	32	0	0	0	C)) (32	\$1,325	\$0	\$0			2,240	\$92,736
	Water Body Thermal Stratification Narrative (Lake/Reservoir)	20	20	0	40	4	40	0	0	0	C) (44	\$2,005	\$0	\$0			1,760	\$80,208
	Perform Engineering Calculations	62	48	0	110	8	32	0	0	0	C	1) (40	\$2,023	\$0	\$0			4,400	\$222,552
	Submit Data and Analysis for Review	62	48	0	110	0	0	0	0	0	C) 16	16	\$294	\$0	\$0			1,760	\$32,384
L	Recordkeeping	62	48	0	110	1	3	0	0	0	C))	3 C	12	\$359	\$0	\$0			1,320	\$39,457
	Totals	62	48	0	110									104	\$4,249	\$0	\$0	\$214	\$4,463	11,480	\$490,877

Exhibit A.1e (approval)
Design and Construction Technology Plan

Design and Construction reclinology Flan																				
					Facility Manager	Junior Technical	CAD Operator	Contracted Manager	Biologist	Statistician	Biological Techniciar		Burden Per	Labor Cost	Capital Cost	O&M Cost	er Facility	Total Cost	Total Burden	Total Initial Cost
		Ilities (R Year 2			\$87	€//1	632	Assumed Load	657	ate \$65	6.30	\$18	Facility	per Facility	per Facility	Laboratory Analysis	ODCs*	Per Facility	(hrs.)	Total lilitial Cost
Activity	rear r	Teal 2	A	TOTAL	407	941	\$33	Level of E	\$57 Effort (hrs)	\$05	\$38	\$10	В	С	D	E	F	C+D+E+F	A*B	A*(C+D)
Delineate Hydraulic Zone of Influence	97	66	0	163	2	5	8	0	0	()	0 0	15	\$659	\$0	\$0			2,445	\$107,450
Develop Narrative Description of Technologies (Impingement)	97	66	0	163	8	16	0	0	0	(1	0 0	24	\$1,361	\$0	\$0			3,912	\$221,810
Perform Engineering Calculations (Impingement)	97	66	0	163	3	12	0	0	0	(1	0 0	15	\$759	\$0	\$0			2,445	\$123,668
Develop Narrative Description of Technologies (Entrainment)	37	22	0	59	8	16	0	0	0	(1	0 0	24	\$1,361	\$0	\$0			1,416	\$80,287
Perform Engineering Calculations (Entrainment)	37	22	0	59	3	12	0	0	0	(0 0	15	\$759	\$0	\$0			885	\$44,763
Document that Technologies Are Optimal	97	66	0	163	0	40	0	0	0	(1) 6	46	\$1,766	\$0	\$0			7,498	\$287,923
Submit Data and Analysis for Review	97	66	0	163	0	0	0	0	0	() 6	6	\$110	\$0	\$0			978	\$17,995
Recordkeeping	97	66	0	163	1	4	0	0	0	())) 6	11	\$363	\$0	\$0			1,793	\$59,218
Totals	97	66	0	163									131	\$5,786	\$0	\$0	\$428	\$6,214	21,372	\$1,012,879

Exhibit A.1f (approval)
Impingement Mortality & Entrainment Characterization Study

	impingement wortailty & Entrainment Chara	cteriz	ation	Study																	
						Facility Manager	Junior Technical	CAD Operator	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Avg. Burden Per	Avg. Labor Cost per	Capital Cost	O&M Cost	er Facility	Total Cost	Total Burden	Total Initial Cost
		Facili	ities (Re	espone	dents)				Assumed Load	ed Hourly Ra	ite			Facility	Facility for 3	per Facility	Laboratory	000 +	Per Facility	(hrs.) for ICR	(\$) for ICR period
			Year 2			\$87	\$41	\$35	\$101	\$57	\$65	\$38	\$18	over 3 vrs	vrs		Analysis	ODCs*		period	(1)
L	Activity		Α	١	•				Level of E	ffort (hrs)				В	C	D	E	F	C+D+E+F	A*B	A*(C+D)
	Implement Offshore Freshwater Monitoring	95	37	0	95	6	52	0	100	2080	67	2080	34	4419	\$215,126	\$0	\$0			291,654	\$14,198,309
	Impingement Monitoring Freshwater	95	37	0	95	3	16	0	60	1040	33	1040	17	2209	\$108,123	\$0	\$0			145,794	\$7,136,144
	Entrainment Monitoring Freshwater	95	37	0	95	3	16	0	60	780	33	780	17	1689	\$83,449	\$0	\$0			111,474	\$5,507,660
	Biological Study Laboratory Analysis (Freshwater)	95	37	0	95	0	0	0	0	0	0	0	0	0	\$0	\$0	\$83,538	\$5,572		-	\$5,881,260
	Implement Offshore Marine Monitoring	68	29	0	68	10	101	0	160	4056	100	4056	50	8533	\$413,511	\$0	\$0			275,900	\$13,370,183
	Impingement Monitoring Marine	68	29	0	68	4	31	0	80	2028	50	2028	25	4246	\$205,861	\$0	\$0			137,287	\$6,656,166
	Entrainment Monitoring Marine	68	29	0	68	4	31	0	80	1521	50	1521	25	3232	\$157,747	\$0	\$0			104,501	\$5,100,470
	Biological Study Laboratory Analysis (Marine)	68	29	0	68	0	0	0	0	0	0	0	0	0	\$0	\$0	\$162,899	\$13,923		-	\$5,717,245
	Profile of Source Water Biota	37	0	0	37	32	20	0	32	60	0	20	8	172	\$11,177	\$0	\$0			6,364	\$413,556
	Identification of Critical Species	37	0	0	37	32	20	0	20	40	0	0	3	115	\$7,979	\$0	\$0			4,255	\$295,216
	Description of Additional Stresses	37	0	0	37	16	10	0	16	30	0	10	4	86	\$5,589	\$0	\$0			3,182	\$206,778
	Write Study based on Results and Submit for Review by State	97	66	0	163	80	160	0	16	8	8	0	8	280	\$16,345	\$0	\$0			45,640	\$2,664,202
	Recordkeeping	97	66	0	163	6	12	0	6	12	3	0	24	63	\$2,948	\$0	\$0			10,269	\$480,540
L	Finalize study based on State review	97	66	0	163	16	32	0	0	0	0	0	8	56	\$2,869	\$0	\$0			9,128	\$467,614
ſ	Totals	97	66	0	163									12,299	\$608,136	\$0	\$116,646	\$9,056	\$733,837	1,145,449	\$68,095,345

Exhibit A.1g (approval) Pilot Study for New Impingement & Entrainment Technology

					Facility	Junior	CAD	Contracted			Biological					O&M Cost	ner Facility			
					Manager	Technical		Manager		Statistician	Technician	Clerical					oor r donney	Total Cost	Total Burden	Total Initial Cost
			(Respon			***		ssumed Load				***	Facility	per Facility	per Facility		ODCs*	Per Facility	(hrs.)	Total militar oost
l	Year 1	Year	r 2 Year 3	Total	\$87	\$41	\$35	\$101	\$57	\$65	\$38	\$18				Analysis		0.0.5.5	***	4+(0, P)
Activity			Α					Level of E	ffort (hrs)				В	C	D	Ł	F	C+D+E+F	A*B	A*(C+D)
Calculate Reduction in Impingement Mortality and Entrainment																				
	13		15	28	80	80	8	0	0	0	0	12	180			\$0			5,040	\$302,243
Perform Engineering Estimates of Efficacy	13	3	15	28	40	32	0	0	0	0	0	4	76	\$4,890	\$0	\$0			2,128	\$136,931
Purchase, Installation & Operation of Pilot Study Technology-																				
Freshwater Impingement and Entrainment	2	2	2	0 4	0	0	0	0	0	0	0	0	0	\$0	\$176,494	\$0			-	\$705,976
Purchase, Installation & Operation of Pilot Study Technology-																				
Freshwater-Impingement Only	C)	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0	\$0			-	\$0
Perform Impingement Monitoring (Freshwater)	2	2	2	0 4	16	25	0	80	240	40	240	20	661	\$36,236	\$0	\$0			2,644	\$144,943
Perform Entrainment Monitoring (Freshwater)	2	2	2	4	16	25	0	80	180	40	180	20	541	\$30,542	\$0	\$0			2,164	\$122,167
Pilot Study Entrainment Laboratory Analysis (Freshwater)	2	2	2	4	0	0	0	0	0	0	0	0	0	\$0	\$0	\$6,426			-	\$25,704
Purchase, Installation & Operation of Pilot Study Technology-																* - /				
Marine Impingment and Entrainment	10)	12	22	0	0	0	0	0	0	0	0		\$0	\$502,316	\$0			_	\$11,050,952
Purchase, Installation & Operation of Pilot Study Technology-														**	****	**				*,
Marine- Impingement Only	1	l	1	2	0	0	0	0	0	0	0	0	0	\$0	\$259,798	\$0			-	\$519,596
Perform Impingement Monitoring (Marine)	11	ı	13	24	16	33	0	80	312	52	312	26	831	\$44,271	\$0	\$0			19,932	\$1,062,497
Perform Entrainment Monitoring (Marine)	10)	12	22	16	33	0	80	234	52	234	26	675	\$36,869	\$0	\$0			14,839	\$811,107
Pilot Study Entrainment Laboratory Analysis (Marine)	10)	12	22	0	0	0	0	0	0	0	0	0	\$0	\$0	\$8,354			-	\$183,788
Submit Data and Analysis for Review	13	3	15	28	8	10	0	8	6	4	0	16	52	\$2,816	\$0	\$0			1,456	\$78,848
Recordkeeping	13		15	28	4	8	0	4	8	2	0	20	46	\$2,039	\$0	\$0			1,288	\$57,092
Totals	13	15	5 0	28	1								1,768	\$96,994	\$0	\$7,482	\$1,071	\$105,547	49,491	\$15,231,833

Exhibit A.1h (approval)

Verification Monitoring Plan

	Facili	ities (R	espon	dents)	Facility	Junior		Contracted ssumed Loade			Biolog	cal Clerica	Burden Per		Capital Cost	O&M Cost p Laboratory		Total Cost	Total Burden	Total Initial Cost
	Year 1	Year 2	Year 3	Total	\$87	\$41	\$35	\$101	\$57	\$65	\$38	\$18	Facility	per Facility	per Facility	Analysis	ODCS	Per Facility	(hrs.)	
Activity		- 1	A					Level of Et	ffort (hrs)				В	С	D	E	F	C+D+E+F	A*B	A*(C+D)
Develop Verification Monitoring Plan	101	77	(178	40	60	8	0	0	0		0	4 112	\$6,327	\$0	\$0			19,936	\$1,126,242
Submit Data and Plans for Review	101	77	(178	0	0	0	0	0	0		0	2 2	\$37	\$0	\$0			356	\$6,550
Revise Based on State Review	101	77	(178	2	4	1	0	0	0		0	1 8	\$393	\$0	\$0			1,424	\$70,007
Recordkeeping	101	77	(178	1	1	1	1	0	0		0	2 6	\$301	\$0	\$0			1,068	\$53,560
Totals	101	77	0	178									128	\$7,058	\$0	\$0	\$428	\$7,486	22,784	\$1,332,544

Total Labor Burden, Labor Cost, Capital Costs and O&M Costs for All NPDES Application Activities (approval)

Facilitie	es (Respondents)				Total Burden	Total Initial Cost
Year 1 Ye	ear 2 Year 3 Total				(hrs.)	Total Initial Cost
Totals					1,314,962	\$89,500,069

^{*} The ODC estimate was not estimated for each activity, but rather as a lump sum for each provision of the rule.

Exhibit A.1 (renewal)

Facility Cost and Burden Estimates for NPDES Permit Application Activities for the First Year of Renewal

Exhibit A.1a (renewal)

Start-up Activities

						Facility Manager	Junior Technical	CAD Operator	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Burden Per	Labor Cost	Capital Cost	O&M Cost p	er Facility	Total Cost	Total Burden	Total Initial Cost
		Fac	ilities (F	Respond	dents)				Assumed Load	ed Hourly R	ate			Facility	per Facility	per Facility	Laboratory	ODCs*	Per Facility	(hrs.)	TOTAL ILLIGIA COST
		Year 1	Year 2	Year 3	Total	\$87	\$41	\$35	\$101	\$57	\$65	\$38	\$18				Analysis	ODCS			
Act	ivity			Α					Level of E	ffort (hrs)				В	С	D	E	F	C+D+E+F	A*B	A*(C+D)
	Read and Understand Rule	37	83	109	229	4	4	0	0	0	0	0	0	8	\$515	\$0	\$0			1,832	\$117,889
	Mobilization/Planning	37	83	109	229	1	2	0	0	0	0	0	0	3	\$170	\$0	\$0			687	\$38,953
	Training	37	83	109	229	1	1	0	0	0	0	0	0	2	\$129	\$0	\$0			458	\$29,472
	Totals	37	83	109	229	6	7	0	0	0	0	0	0	13	\$814	\$0	\$0	\$54	\$868	2,977	\$198,680

Exhibit A.1b (renewal)
Permit Application Activities

r crimit Application Activities																				
					Facility Manager	Junior Technical	Operator	Contracted Manager	Biologist	Statistician	Technician		Burden Per	Labor Cost	Capital Cost	O&M Cost p	er Facility	Total Cost	Total Burden	
	Fac	cilities (Respond	ents)				Assumed Load									ODCs*	Per Facility	(hrs.)	Total Initial Cost
	Year	1 Year 2	2 Year 3	Total	\$87	\$41	\$35	\$101	\$57	\$65	\$38	\$18				Analysis	ODC3	_		
Activity			Α					Level of E	ffort (hrs)				В	С	D	E	F	C+D+E+F	A*B	A*(C+D)
Statement of Compliance Option Selected	0	0	123	123									0	\$0	\$0	\$0			-	\$0
Source Water Physical Data	0	0	123	123	1	5	12	0	0	(1) (18	\$711	\$0	\$0			2,214	\$87,416
Configuration and Location of CWIS	0	0	123	123	1	1	1	0	0	() (3	\$163	\$0	\$0			369	\$20,098
Facility Water Balance Diagram	0	0	123	123	1	1	1	0	0	() (3	\$163	\$0	\$0			369	\$20,098
CWIS Operation Narrative	0	0	123	123	12	30	0	0	0	() (42	\$2,290	\$0	\$0			5,166	\$281,621
CWS Operation Narrative	0	0	123	123	12	30	0	0	0	() (42	\$2,290	\$0	\$0			5,166	\$281,621
Engineering Calculations	0	0	123	123	6	24	0	0	0	(1) (30	\$1,517	\$0	\$0			3,690	\$186,640
Submit Materials for Review by State	0	0	123	123	0	0	0	0	0	() 3	3	\$55	\$0	\$0			369	\$6,790
Recordkeeping	0	0	123	123	1	3	1	0	0	())) 1	6	\$265	\$0	\$0			738	\$32,546
Totals	0	0	123	123									147	\$7,454	\$0	\$0	\$268	\$7,722	18,081	\$949,794

Water balance diagram is assumed to be taken from the facility design report. The hours reported here are for incorporation of the diagram(s) in the permit.

Exhibit A.1c (renewal)

Proposal for Collection of Information for Comprehensive Demonstration Study

					Facility Manager	Junior Technical	CAD Operator	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Burden Per	Labor Cost	Capital Cost	O&M Cost p	er Facility	Total Cost	Total Burden	Total Initial Cost
	Faci	lities (F	Respond	lents)				Assumed Load	ed Hourly Ra	ite			Facility	per Facility	per Facility	Laboratory	ODCs*	Per Facility	(hrs.)	Total Illitial Cost
	Year 1	Year 2	Year 3	Total	\$87	\$41	\$35	\$101	\$57	\$65	\$38	\$18	_			Analysis	ODCS	_		
Activity			Α					Level of E	ffort (hrs)				В	С	D	E	F	C+D+E+F	A*B	A*(C+D)
Description of Historical Studies that will be Used	37	83	71	191	6	12	0	0	0	0	0	1	19	\$1,039	\$0	\$0			3,629	\$198,449
Description of Proposed and/or Implemented Technologies	37	83	71	191	2	6	0	0	0	0	0	0	8	\$423	\$0	\$0			1,528	\$80,793
Develop Source Water Sampling Plan	37	83	71	191	12	18	2.4	0	0	0	0	1	33	\$1,894	\$0	\$0			6,379	\$361,846
Submit Data and Plans for Review	37	83	71	191	0	0	0	0	0	0	0	4	4	\$74	\$0	\$0			764	\$14,058
Revise Based on State Review	37	83	71	191	2	4.8	1.2	0	0	0	0	1	9	\$433	\$0	\$0			1,719	\$82,772
Recordkeeping	37	83	71	191	1	2	0	0	0	0	0	2	5	\$207	\$0	\$0			955	\$39,518
Totals	37	83	71	191			·					·	78	\$4,070	\$0	\$0	\$214	\$4,284	14,974	\$818,309

Exhibit A.1d (renewal)

Source Water Body Flow Information

Cource Water Body Flow Information																					
					Facility	Junior	CAD	Contracted			Biolo						O&M Cost p	er Facility			
					Manager	Technical	Operator	Manager	Biologist	Statistician	Lechr	nician Cl	erical	Burden Per	Labor Cost	Capital Cost			Total Cost	Total Burden	Total Initial Cost
	Fac	ilities (l	Respond	ents)			ı	Assumed Load	ed Hourly R	ate				Facility	per Facility	per Facility	Laboratory	ODCs*	Per Facility	(hrs.)	Total lilitiai Cost
	Year 1	Year 2	Year 3	Total	\$87	\$41	\$35	\$101	\$57	\$65	\$3	38	\$18	-			Analysis	ODC3	-		
Activity			Α					Level of E	ffort (hrs)					В	С	D	E	F	C+D+E+F	A*B	A*(C+D)
Gather Information to Characterize Flow (FW River/Stream)	0	0	44	44	0	9.6	0	0	0)	0	0	10	\$397	\$0	\$0			422	\$17,487
Water Body Thermal Stratification Narrative (Lake/Reservoir)	0	0	17	17	1.2	12	0	0	0)	0	0	13	\$602	\$0	\$0			224	\$10,227
Perform Engineering Calculations	0	0	61	61	2.4	9.6	0	0	0)	0	0	12	\$607	\$0	\$0			732	\$37,025
Submit Data and Analysis for Review	0	0	61	61	0	0	0	0	0)	0	4.8	5	\$88	\$0	\$0			293	\$5,388
Recordkeeping	0	0	61	61	0	1	0	0	0)	0	2.4	4	\$108	\$0	\$0			220	\$6,564
Totals	0	0	61	61										31	\$1,257	\$0	\$0	\$107	\$1,364	1,891	\$83,217

Exhibit A.1e (renewal)
Design and Construction Technology Plan

Design and Construction Technology Flan																				
					Facility Manager	Junior Technical	CAD Operator	Contracted Manager	Biologist	Statistician	Biological Technician		Burden Per	Labor Cost	Capital Cost	O&M Cost	per Facility	Total Cost	Total Burden	Total Initial Cost
			Respond					Assumed Load	led Hourly Ra	ate			Facility	per Facility	per Facility	Laboratory	ODCs*	Per Facility	(hrs.)	Total Illitial Cost
	Year 1	Year 2	Year 3	Total	\$87	\$41	\$35	\$101	\$57	\$65	\$38	\$18				Analysis	0003			
Activity			Α					Level of E	ffort (hrs)				В	С	D	E	F	C+D+E+F	A*B	A*(C+D)
Delineate Hydraulic Zone of Influence	0	0	85	85	1	3	4	0	0	() (0 0	8	\$350	\$0	\$0			680	\$29,776
Develop Narrative Description of Technologies (Impingement)	0	0	85	85	4	8	0	0	0	() (0 0	12	\$680	\$0	\$0			1,020	\$57,834
Perform Engineering Calculations (Impingement)	0	0	85	85	2	6	0	0	0	() (0 0	8	\$423	\$0	\$0			680	\$35,955
Develop Narrative Description of Technologies (Entrainment)	0	0	37	37	4	8	0	0	0	() (0 0	12	\$680	\$0	\$0			444	\$25,175
Perform Engineering Calculations (Entrainment)	0	0	37	37	2	6	0	0	0	() (0 0	8	\$423	\$0	\$0			296	\$15,651
Document that Technologies Are Optimal	0	0	85	85	0	20	0	0	0	() (0 3	23	\$883	\$0	\$0			1,955	\$75,072
Submit Data and Analysis for Review	0	0	85	85	0	0	0	0	0	() (0 3	3	\$55	\$0	\$0			255	\$4,692
Recordkeeping	0	0	85	85	1	2	0	0	0	() (0 3	6	\$225	\$0	\$0			510	\$19,151
Totals	0	0	85	85									69	\$3,098	\$0	\$0	\$161	\$3,259	5,840	\$276,990

Exhibit A.1f (renewal)
Impingement Mortality & Entrainment Characterization Study

impingement wortainty & Entrainment Chara	icteriza	ation s	Juuy																	
					Facility	Junior	CAD	Contracted	D: 1 : .		Biological	01 : 1	Avg.	Avg. Labor		O&M Cost	per Facility	T	Total Burden	T
					Manager	Technical		Manager		Statistician	Technician	Cierical			Capital Cost		,	Total Cost	(hrs.) for ICR	Total Initial Cost
		ties (Re						Assumed Load	ed Hourly Ra					Facility for 3	per Facility	Laboratory	ODCs*	Per Facility	period	(\$) for ICR period
	Year 1	Year 2	Year 3	Total	\$87	\$41	\$35	\$101	\$57	\$65	\$38	\$18	over 3 vrs	vrs		Analysis				
Activity		A	4					Level of E	ffort (hrs)				В	C	D	E	ŀ	C+D+E+F	A*B	A*(C+D)
Implement Offshore Freshwater Monitoring	0	48	94	94	2	16	0	60	1248	40	1248	10	2624	\$128,102	\$0	\$0			186,304	\$9,095,256
Impingement Monitoring Freshwater	0	48	94	94	1	5	0	0	0	20	0	5	31	\$1,688	\$0	\$0			2,201	\$119,869
Entrainment Monitoring Freshwater	0	48	94	94	1	5	0	0	0	20	0	5	31	\$1,688	\$0	\$0			2,201	\$119,869
Biological Study Laboratory Analysis (Freshwater)	0	48	94	94	0	0	0	0	0	0	0	0	0	\$0	\$0	\$33,415			- '	\$2,372,465
Implement Offshore Marine Monitoring	37	72	97	97	3	30	0	96	2434		2434	15	5072	\$246,340	\$0				348,277	\$16,915,326
Impingement Monitoring Marine	37	72	97	97	1	9	0	0	0	30	0	8	48	\$2,560	\$0				3,296	\$175,794
Entrainment Monitoring Marine	37	72		97	1	9	0	0	0	30	0	8	48	\$2,560	\$0				3,296	\$175,794
Biological Study Laboratory Analysis (Marine)	37	72	97	97	0	0	0	0	0	0	0	0	0	\$0	\$0	\$65,160			- '	\$4,474,320
Profile of Source Water Biota	37	83	71	191	10	6	0	10	18	0	6	2	52	\$3,421	\$0	\$0			9,932	\$653,411
Identification of Critical Species		83	71	191	10	6	0	6	12	0	0	1	35	\$2,430	\$0	\$0			6,685	\$464,206
Description of Additional Stresses	37	83	71	191	5	3	0	5	9	0	3	1	26	\$1,711	\$0	\$0			4,966	\$326,706
Write Study based on Results and Submit for Review by State	0	0	85	85	24	48	0	5	2	2	0	2	83	\$4,867	\$0	\$0			7,055	\$413,721
Recordkeeping	0	0	85	85	2	4	0	2	4	1	0	7	20	\$964	\$0	\$0			1,700	\$81,966
Finalize study based on State review	0	0	85	85	5	10	0	0	0	0	0	2	17	\$887	\$0	\$0			1,445	\$75,421
Totals	37	83	97	191									4,113	\$202,964	\$0	\$49,537	\$0	\$252,500	577,358	\$35,464,122

Exhibit A.1g (renewal)

Pilot Study for New Impingement & Entrainment Technology

						Facility	Junior Technical	CAD	Contracted Manager	Piologist	Statistician	Biological Technician	Clorical	Burdon Bor	Labor Cost	Canital Cost	O&M Cost	per Facility	Total Cost	Total Burden	
	Facil	litiae	(Resp	onde	nte\	iviariayei	recrimical		Assumed Load			recillician	Ciericai	Facility		per Facility			Per Facility	(hrs.)	Total Initial Cost
			r 2 Yea			\$87	\$41	\$35	\$101	1 \$57	\$65	\$38	\$18	1 delity	per racinty	per racinty	Analysis	ODCs*	reiracility	(1113.)	
Activity			A						Level of E	ffort (hrs)				В	С	D	E	F	C+D+E+F	A*B	A*(C+D)
Calculate Reduction in Impingement Mortality and Entrainment																					
	0)	0	0	0									0	\$0	\$0	\$0			-	\$0
Perform Engineering Estimates of Efficacy	0)	0	0	0									0	\$0	\$0	\$0			-	\$0
Purchase, Installation & Operation of Pilot Study Technology-																					
Freshwater Impingement and Entrainment	0)	0	0	0									0	\$0	\$264,882	\$0			-	\$0
Purchase, Installation & Operation of Pilot Study Technology-																					
Freshwater-Impingement Only	0)	0	0	0									0	\$0	\$0	\$0			-	\$0
Perform Impingement Monitoring (Freshwater)	0)	0	0	0									0	\$0	\$0	\$0			-	\$0
Perform Entrainment Monitoring (Freshwater)	0)	0	0	0									0	\$0	\$0	\$0			-	\$0
Pilot Study Entrainment Laboratory Analysis (Freshwater)	0)	0	0										0	\$0	\$0	\$6,426			-	\$0
Purchase, Installation & Operation of Pilot Study Technology-																					
Marine Impingment and Entrainment	0)	0	0	0									0	\$0	\$605,066	\$0			-	\$0
Purchase, Installation & Operation of Pilot Study Technology-				_												0005.070					
Marine- Impingement Only	0		0	0	0									0	\$0 \$0	\$325,679	\$0			-	\$0 \$0
Perform Impingement Monitoring (Marine)	0		0	0	0									0	φ0 •00	\$0 ©0	\$0			-	\$0
Perform Entrainment Monitoring (Marine)	0		0	0	U									0	φ0 •0	\$0 \$0	\$8,354			-	\$0
Pilot Study Entrainment Laboratory Analysis (Marine) Submit Data and Analysis for Review	0		0	0	0									0	\$0	\$0	\$0,334		1		\$0
Recordkeeping	0		0	0	0									0	\$0	φ0 •0	\$0			_	\$0
Totals	•		,	,	0									- 0	\$0 \$0	\$0 \$0			\$0	-	\$0

Exhibit A.1h (renewal)

Verification Monitoring Plan

	Facil	ities ((Resp	ponde	ents)	Facility	Junior	CAE	D Co Assu	ontracted umed Load	Biologist ed Hourly Ra	Statistician ate	Biolo	gical Cl	erical E	Burden Per	Labor Cost	Capital Cost	O&M Cost Laboratory		Total Cost	Total Burden	Total Initial Cost
	Year 1	Year	2 Ye	ear 3	Total	\$87	\$41	\$35	5	\$101	\$57	\$65	\$3	38 :	\$18	Facility	per Facility	per Facility	Analysis	ODCS	Per Facility	(hrs.)	
Activity			Α							Level of E	ffort (hrs)					В	С	D	E	F	C+D+E+F	A*B	A*(C+D)
Develop Verification Monitoring Plan	0		0	98	98											0	\$0	\$0	\$0			-	\$0
Submit Data and Plans for Review	0		0	98	98											0	\$0	\$0	\$0			-	\$0
Revise Based on State Review	0		0	98	98											0	\$0	\$0	\$0			-	\$0
Recordkeeping	0	1	0	98	98											0	\$0	\$0	\$0			-	\$0
Totals	0	0		98	98											0	\$0	\$0	\$0		\$0		\$0

Total Labor Burden, Labor Cost, Capital Costs and O&M Costs for All NPDES Application Activities (renewal)

Facilities (Respondents)				Total Burden	Total Initial Cost
Year 1 Year 2 Year 3 Total				(hrs.)	Total Illitial Cost
Totals				621,122	\$37,791,112

^{*} The ODC estimate was not estimated for each activity, but rather as a lump sum for each provision of the rule.

Exhibit A.2 Facility Cost and Burden Estimates for Annual Activities

Exhibit A.2a

Biological Monitoring for Impingement (Freshwater)

					Facility Manager		Contracted Manager		Statistician	Biological Technician	Clerical	Tota	als Per Facilit	y for the ICR A	Approval Pe	eriod		cilities in the ICR al Period
	Fac	ilities (R	esponde	nts)			Assume	d Loaded H	ourly Rate			Burden		O & M C	osts	Total		
	Year 1	Year 2	Year 3	Total	\$87	\$41	\$101	\$57	\$65	\$38	\$18	(hrs)	Labor Cost	Laboratory Analyses	ODCs*	Costs**	Burden (hrs.)	Total Cost (\$)
Activity			4				Lev	el of Effort	(hrs)			В	С	Ď	E	C+D+E	A*B	A*(C+D)
Monthly Sample Collection	180	242	290	290	2	0	4	72	0	72	0	150	\$7,410				106,800	\$5,276,062
Onsite Analysis of Samples	180	242	290	290	4	0	12	72	0	72	0	160	\$8,390				113,920	\$5,973,965
Perform Statistical Analysis	180	242	290	290	8	4	0	0	32	0	0	44	\$2,947				31,328	\$2,098,406
Record Keeping	180	242	290	290	2	1	1	4	1	0	16	25	\$905				17,800	\$644,360
Totals	180	242	290	290	16	5	17	148	33	144	16	379	\$19,653	\$0	\$536	\$20,189	269,848	\$14,374,426

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Exhibit A.2b

Biological Monitoring for Impingement (Marine)

					Facility Manager		Contracted Manager		Statistician	Biological Technician	Clerical		ıls Per Facilit	y for the ICR A	pproval Pe	eriod		cilities in the ICR ral Period
	Faci	lities (R	esponde	nts)			Assumed	d Loaded Ho	ourly Rate			Burden		O & M C	osts	Total		
	V 4			T	407	0.44	04.04	457	* /F	***	010	(hrs)	Labor Cost		ODCs*	Costs**	Burden (hrs.)	Total Cost (\$)
	Year 1	Year 2	Year 3	Total	\$87	\$41	\$101	\$57	\$65	\$38	\$18			Analyses				
Activity			4				Lev	el of Effort	(hrs)			В	С	D	E	C+D+E	A*B	A*(C+D)
Monthly Sample Collection	97	136	165	165	2	0	5	94	0	94	0	194	\$9,581				77,371	\$3,813,190
Onsite Analysis of Samples	97	136	165	165	4	0	16	94	0	94	0	207	\$10,803				82,306	\$4,299,498
Perform Statistical Analysis	97	136	165	165	8	4	0	0	42	0	0	54	\$3,572				21,333	\$1,421,720
Record Keeping	97	136	165	165	2	1	1	5	1	0	16	27	\$1,023				10,666	\$407,305
Totals	97	136	165	165	16	5	22	192	43	187	16	482	\$24,979	\$0	\$696	\$25,675	191,677	\$10,218,722

Exhibit A.2c

Biological Monitoring for Entrainment (Freshwater)

					Facility Manager	Junior Technical	Contracted Manager		Statistician	Biological Technician	Clerical		ıls Per Facilii	ty for the ICR A	pproval Pe	eriod		cilities in the ICR al Period
	Facil	lities (Re	esponder	nts)			Assume	d Loaded He	ourly Rate			Burden		O & M C	osts	Total		
	Year 1	Year 2	Year 3	Total	\$87	\$41	\$101	\$57	\$65	\$38	\$18	(hrs)	Labor Cost	Laboratory Analyses	ODCs*	Costs**	Burden (hrs.)	Total Cost (\$)
Activity		Α	١				Lev	el of Effort	(hrs)			В	С	D	E	C+D+E	A*B	A*(C+D)
Biweekly Sample Collection	180	242	290	290	4	0	12	156	0	156	0	328	\$16,362				233,536	\$11,649,744
Handling and Preparation of Samples	180	242	290	290	4	0	12	78	0	78	0	172	\$8,960				122,464	\$6,379,378
Laboratory Analysis to Identify & Enumerate Entrained Freshwater Biota	180	242	290	290	0	0	0	0	0	0	0	0	\$0	\$8,354			_	\$5,948,048
Perform Statistical Analysis	180	242	290	290	16	4	0	0	64	0	0	84	\$5,729				59,808	\$4,078,906
Recordkeeping	180	242	290	290	2	1	1	8	2	0	16	30	\$1,199				21,360	\$853,617
Totals	180	242	290	290	26	5	25	242	66	234	16	614	\$32,250	\$8,354	\$1,071	\$33,321	437,168	\$29,672,244

Exhibit A.2d

Biological Monitoring for Entrainment (Marine)

ziologica: memoring ici zimamicit (maime)																		
					Facility Manager	Junior Technical	Contracted Manager		Statistician	Biological Technician	Clerical		ls Per Facilit	y for the ICR A	pproval Pe	eriod		cilities in the ICR al Period
	Faci	lities (Re	sponde	nts)			Assume	d Loaded H	ourly Rate			D		O & M C	osts	T. 1.1		
	Year 1	Year 2	Year 3	Total	\$87	\$41	\$101	\$57	\$65	\$38	\$18	Burden (hrs)	Labor Cost	Laboratory Analyses	ODCs*	Total Costs**	Burden (hrs.)	Total Cost (\$)
Activity		Α					Lev	vel of Effort	(hrs)			В	С	D	E	C+D+E	A*B	A*(C+D)
Biweekly Sample Collection	97	136	165	165	4	0	12	203	0	203	0	422	\$20,822				167,956	\$8,287,275
Handling and Preparation of Samples	97	136	165	165	4	0	12	101	0	101	0	218	\$11,143				86,764	\$4,434,715
Laboratory Analysis to Identify & Enumerate Entrained Marine Biota	97	136	165	165	0	0	0	0	0	0	0	0	\$0	\$10,860			-	\$4,322,280
Perform Statistical Analysis	97	136	165	165	16	4	0	0	83	0	0	103	\$6,966				40,994	\$2,772,349
Recordkeeping	97	136	165	165	2	1	1	10	3	0	16	33	\$1,378				13,134	\$548,603
Totals	97	136	165	165	26	5	25	314	86	304	16	776	\$40,309	\$10,860	\$1,232	\$41,541	308,848	\$20,855,558

Exhibit A.2e

Bi-Annual Status Report Activities

·					Facility Manager		Contracted Manager		Statistician	Biological Technician	Clerical		ıls Per Facilit	y for the ICR A	pproval Pe	eriod		cilities in the ICR al Period
	Fac	lities (R	esponde	nts)			Assumed	d Loaded He	ourly Rate			Burden		O & M C	osts	Total		
	Year 1	Year 2	Year 3	Total	\$87	\$41	\$101	\$57	\$65	\$38	\$18	(hrs)	Labor Cost	Laboratory Analyses	ODCs*	Costs**	Burden (hrs.)	Total Cost (\$)
Activity			Α				Lev	el of Effort	(hrs)			В	С	D	E	C+D+E	A*B	A*(C+D)
Report on Inspection and Maintenance	277	378	455	455	16	16	0	0	0	0	0	32	\$2,059				35,520	\$2,285,712
Detail Biological Monitoring Results	277	378	455	455	24	32	4	4	24	0	0	88	\$5,614				97,680	\$6,231,540
Compile and Submit Report	139	189	228	228	80	80	0	0	0	0	16	176	\$10,590				97,856	\$5,888,262
Recordkeeping	277	378	455	455	8	12	0	0	0	0	8	28	\$1,342				31,080	\$1,490,064
Totals	277	378	455	455	128	140	4	4	24	0	24	236	\$19,606	\$0	\$803	\$20,409	262,136	\$16,786,908

Exhibit A.2f Verification Study

vermoution otday																		
					Facility Manager		Contracted Manager		Statistician	Biological Technician	Clerical		lls Per Facilit	y for the ICR A	pproval Pe	riod		cilities in the ICR al Period
	Fac	ilities (R	esponde	nts)			Assume	d Loaded He	ourly Rate			Burden		O & M C	osts	Total		
												(hrs)	Labor Cost	Laboratory	ODCs*	Costs**	Burden (hrs.)	Total Cost (\$)
	Year 1	Year 2	Year 3	Total	\$87	\$41	\$101	\$57	\$65	\$38	\$18	(1113)		Analyses	ODCS	CUSIS		
Activity			4				Lev	el of Effort	(hrs)			В	С	D	E	C+D+E	A*B	A*(C+D)
Perform Statistical Analysis	179	188	178	188	25	30	15	15	25	0	1	111	\$7,439				60,495	\$4,054,201
Submit Monitoring Results & Study Analysis		146	194	438	0	0	0	0	0	0	4	4	\$74				1,752	\$32,237
Record Keeping	179	188	178	188	1	2	0	0	0	0	4	7	\$244				3,815	\$132,817
Totals	179	188	194	188	26	32	15	15	25	0	9	122	\$7,756	\$0	\$536	\$8,292	66,062	\$4,519,950

Total Burden and Cost for All Annual Activities

Total Bardon and Goot for 7th 7th Inda 7totivition							
	Facilities (Responden	ts)				Total Burden	Total Cost (\$)
	Year 1 Year 2 Year 3	Total				(hrs.)	Total Cost (\$)
Totals						1,535,739	\$96,427,808

^{*} The ODC estimate was not estimated for each activity, but rather as a lump sum for each provision of the rule.

^{**} There were no estimated Captial costs for any annual acitivities performed by facilities.

Exhibit A.3
States Director Burden and Cost Estimates for Activities

Exhibit A.3a (States)

States Director Permit Issuance Activities (approval)

States Director Fermit issuance Activities (approval)										
	Directors	Senior Technical	Junior Technical	Clerical	Burden Per	Labor Cost	O&M	Total Cost Per	Total Burden	Total Initial
	(Responses)	Assumed	Loaded Hou	rly Rate	Permit	per Permit	Costs*	Director**	(hrs.)	Cost*
	-	\$54	\$32	\$25	Permit			Director	(1115.)	
Activity	Α	Leve	of Effort (hr	s)	В	С	D	C+D	A*B	A*(C+D)
Review Source Water Physical Data	199	2	6	0	8	\$302			1,592	\$60,018
Review CWIS Data		6	18	0	24	\$905			4,776	\$180,055
Review CWS Operation Narrative	199	6	18	0	24	\$905			4,776	\$180,055
Review Proposal for Collection of Information for Comprehensive Demonstration	37	16	16	0	32	\$1,376			1,184	\$50,912
Review Source Water Body Flow Information	109	2	6	0	8	\$302			872	\$32,874
Review Design and Construction Technology Plan	156	24	8	0	32	\$1,546			4,992	\$241,114
Review Impingement Mortality & Entrainment Characterization Study	156	400	50	0	450	\$23,060			70,200	\$3,597,360
Review Pilot Study for New Impingement & Entrainment Technology	26	16	16	0	32	\$1,376			832	\$35,776
Review Restoration Measures	20	400	100	0	500	\$24,680			9,950	\$491,132
Review Information to Support Site-Specific Determination of BTA	54	800	200	0	1,000	\$49,360			54,000	\$2,665,440
Determine Monitoring Frequency	199	2	6	0	8	\$302			1,592	\$60,018
Determine Record keeping and Reporting Frequency	199	2	6	0	8	\$302			1,592	\$60,018
Establish Requirements for Site-Specific Technology	54	8	24	0	32	\$1,206			1,728	\$65,146
Considering Public Comments	199	16	16	0	32	\$1,376			6,368	\$273,824
Issuing Permit	199	1	6	1	8	\$273			1,592	\$54,287
Permit Record Keeping	199	1	1	2	4	\$136			796	\$26,984
Totals	199	1702	497	3	838	\$40,109	\$321	\$40,430	166,842	\$8,138,894

Exhibit A.3b (States)

States Director Permit Issuance Activities (renewal)

	Directors	Senior Technical	Junior Technical	Clerical	Burden Per	Labor Cost		Total Cost Per	Total Burden	Total Initial
	(Responses)		Loaded Hou		Permit	per Permit	Costs*	Director**	(hrs.)	Cost*
		\$54	\$32	\$25						
Activity	Α	Level	of Effort (I	hrs)	В	С	D	C+D	A*B	A*(C+D)
Review Source Water Physical Data		1	2	0	3	\$118			360	\$14,208
Review CWIS Data		2	5	0	7	\$269			840	\$32,304
Review CWS Operation Narrative	-	2	5	0	7	\$269			840	\$32,304
Review Proposal for Collection of Information for Comprehensive Demonstration	184	5	5	0	10	\$430			1,840	\$79,120
Review Source Water Body Flow Information	59	1	2	0	3	\$118			177	\$6,986
Review Design and Construction Technology Plan	82	7	2	0	9	\$440			738	\$36,080
Review Impingement Mortality & Entrainment Characterization Study	82	120	15	0	135	\$6,918			11,070	\$567,276
Review Pilot Study for New Impingement & Entrainment Technology	-	5	5	0	10	\$430			-	\$0
Review Restoration Measures	12	120	30	0	150	\$7,404			1,800	\$88,848
Review Information to Support Site-Specific Determination of BTA		240		0	300	\$14,808			10,200	\$503,472
Determine Monitoring Frequency	120	1	2	0	3	\$118			360	\$14,208
Determine Record keeping and Reporting Frequency	120	1	2	0	3	\$118			360	\$14,208
Establish Requirements for Site-Specific Technology		2	7	0	9	\$334			306	\$11,356
Considering Public Comments	120	5	5	0	10	\$430			1,200	\$51,600
Issuing Permit	_	0	2	0	2	\$65			240	\$7,776
Permit Record Keeping	120	0	0	1	1	\$25			120	\$2,976
Totals	184	512	149	1	175	\$8,189	\$321	\$8,510	30,451	\$1,501,242

Exhibit A.3c (States) Verification Study Review

	Directors (Responses)	Senior Technical Assumed \$54	Junior Technical Loaded Hou \$32	Clerical ly Rate \$25	Burden Per Permit	Labor Cost per Permit	O&M	Total Cost Per Director**	Total Burden (hrs.)	Total Initial Cost
Activity	Α	Leve	of Effort (hr	s)	В	С	D	C+D	A*B	A*(C+D)
Review of Verification Studies	424	2	4	0	6	\$237			2,544	\$100,403
Permit Modification Due to Unfavorable Results	424	4	10	0	14	\$538			5,936	\$228,282
Record Keeping	424	0	0	1	1	\$25			424	\$10,515
Totals	424	6	14	1	21	\$800	\$11	\$811	8,904	\$343,864

Exhibit A.3d (States) Annual States Director Activities

	Directors	Senior Technical	Junior Technical	Clerical	Burden	Labor Cost	ODCs	O&M	Total Cost	Total Annual
	(Responses)	Assumed	Loaded Hou	rly Rate	Per Permit	per Permit	lump sum*	Costs*	Per Director**	Cost
		\$54	\$32	\$25	1 Citilit		Juin		Director	
Activity	Α	Leve	el of Effort (hr	s)	В	С	D	C+D	A*B	A*(C+D)
Review of Bi-Annual Status Report	537	6	12	0	18	\$710			9,666	\$381,485
Compliance Tracking	1,072	4	12	0	16	\$603			17,152	\$646,630
Determination on Monitoring Frequency Reduction	1,072	4	8	0	12	\$474			12,864	\$507,699
Record Keeping	1,072	1	2	1	4	\$143			4,288	\$153,510
Totals	1,072	15	34	1	41	\$1,930	\$27	\$1,957	43,970	\$1,718,269

Total Burden and Cost for All State Director Activities

		Total Burden (hrs.)	Total Initial Cost
Totals		250,167	11,702,269

^{*} The O&M costs incurred by directors are all ODCs. The ODC estimate was not estimated for each activity, but rather as a lump sum for each provision of the rule.

^{**} There were no estimated Captial costs for any acitivities performed by directors.

Exhibit A.3 Federal Director Burden and Cost Estimates for Activities

Exhibit A.3a (Federal)

Federal Director Permit Issuance Activities (approval)

	Directors (Responses)	Senior Technical Assumed	Junior Technical Loaded Hou	Clerical rly Rate	Burden Per Permit	Labor Cost per Permit		Total Cost Per Director**	Total Burden (hrs.)	Total Initial Cost*
		\$54	\$32	\$25	1 Citilit			Director	(1113.)	
Activity	Α	Leve	l of Effort (hr	·s)	В	С	D	C+D	A*B	A*(C+D)
Review Source Water Physical Data	7	2	6	0	8	\$302			56	\$2,111
Review CWIS Data		6		0	24	\$905			168	\$6,334
Review CWS Operation Narrative		6		0	24	\$905			168	\$6,334
Review Proposal for Collection of Information for Comprehensive Demonstration	-	16	16	0	32	\$1,376			-	\$0
Review Source Water Body Flow Information	1	2	6	0	8	\$302			8	\$302
Review Design and Construction Technology Plan	7	24	8	0	32	\$1,546			224	\$10,819
Review Impingement Mortality & Entrainment Characterization Study	7	400	50	0	450	\$23,060			3,150	\$161,420
Review Pilot Study for New Impingement & Entrainment Technology	2	16	16	0	32	\$1,376			64	\$2,752
Review Restoration Measures	1	400	100	0	500	\$24,680			350	\$17,276
Review Information to Support Site-Specific Determination of BTA	5	800	200	0	1,000	\$49,360			5,000	\$246,800
Determine Monitoring Frequency	7	2	6	0	8	\$302			56	\$2,111
Determine Record keeping and Reporting Frequency	7	2	6	0	8	\$302			56	\$2,111
Establish Requirements for Site-Specific Technology	5	8	24	0	32	\$1,206			160	\$6,032
Considering Public Comments	7	16	16	0	32	\$1,376			224	\$9,632
Issuing Permit		1	6	1	8	\$273			56	\$1,910
Permit Record Keeping	7	1	1	2	4	\$136			28	\$949
Totals	7	1702	497	3	1,387	\$67,380	\$321	\$67,701	9,768	\$479,139

Exhibit A.3b (Federal)

Federal Director Permit Issuance Activities (renewal)

	Directors	Senior Technical	Junior Technical	Clerical	Burden Per	Labor Cost	O&M	Total Cost Per	Total Burden	Total Initial
	(Responses)		Loaded Hou		Permit	per Permit	Costs*	Director**	(hrs.)	Cost*
		\$54	\$32	\$25						
Activity	Α	Level	of Effort (I	hrs)	В	С	D	C+D	A*B	A*(C+D)
Review Source Water Physical Data		1	2	0	3	\$118			9	\$355
Review CWIS Data		2	5	0	7	\$269			21	\$808
Review CWS Operation Narrative	-	2	5	0	7	\$269			21	\$808
Review Proposal for Collection of Information for Comprehensive Demonstration	7	5	5	0	10	\$430			70	\$3,010
Review Source Water Body Flow Information	2	1	2	0	3	\$118			6	\$237
Review Design and Construction Technology Plan	3	7	2	0	9	\$440			27	\$1,320
Review Impingement Mortality & Entrainment Characterization Study	3	120	15	0	135	\$6,918			405	\$20,754
Review Pilot Study for New Impingement & Entrainment Technology	-	5	5	0	10	\$430			-	\$0
Review Restoration Measures	0	120	30	0	150	\$7,404			45	\$2,221
Review Information to Support Site-Specific Determination of BTA		240	60	0	300	\$14,808			900	\$44,424
Determine Monitoring Frequency	3	1	2	0	3	\$118			9	\$355
Determine Record keeping and Reporting Frequency	3	1	2	0	3	\$118			9	\$355
Establish Requirements for Site-Specific Technology	3	2	7	0	9	\$334			27	\$1,002
Considering Public Comments	3	5	5	0	10	\$430			30	\$1,290
Issuing Permit		0	2	0	2	\$65			6	\$194
Permit Record Keeping	3	0	0	1	1	\$25			3	\$74
Totals	7	512	149	1	244	\$11,643	\$321	\$11,964	1,588	\$78,171

Exhibit A.3c (Federal) Verification Study Review

	Directors (Responses)	Senior Technical	Junior Technical Loaded Hou	Clerical	Per	Labor Cost	Caste*	Total Cost Per	Burden	Total Initial Cost
	(Responses)	\$54	\$32	\$25	Permit	per r errint	00313	Director**	(hrs.)	0031
Activity	Α	Leve	of Effort (hr	s)	В	С	D	C+D	A*B	A*(C+D)
Review of Verification Studies	14	2	4	0	6	\$237			84	\$3,315
Permit Modification Due to Unfavorable Results	14	4	10	0	14	\$538			196	\$7,538
Record Keeping	14	0	0	1	1	\$25			14	\$347
Totals	14	6	14	1	21	\$800	\$11	\$811	294	\$11,354

Exhibit A.3d (Federal) Annual States Director Activities

	Directors	Senior Technical	Junior Technical	Clerical	Burden Per	Labor Cost	ODCs	O&M	Total Cost Per	Total Annual
	(Responses)	A		Permit per Per		per Permit lump sum*	Costs*	Director**	Cost	
		\$54	\$32	\$25	1 Offilit		Sum		Director	
Activity	Α	Leve	el of Effort (hr	s)	В	С	D	C+D	A*B	A*(C+D)
Review of Bi-Annual Status Report	20	6	12	0	18	\$710			360	\$14,208
Compliance Tracking	38	4	12	0	16	\$603			608	\$22,922
Determination on Monitoring Frequency Reduction	38	4	8	0	12	\$474			456	\$17,997
Record Keeping	38	1	2	1	4	\$143			152	\$5,442
Totals	38	15	34	1	41	\$1,930	\$27	\$1,957	1,576	\$61,594

Total Burden and Cost for All Federal Director Activities

		Total Burden (hrs.)	Total Initial Cost
Totals		13,226	630,258

^{*} The O&M costs incurred by directors are all ODCs. The ODC estimate was not estimated for each activity, but rather as a lump sum for each provision of the rule.

^{**} There were no estimated Captial costs for any acitivities performed by directors.

Exhibit A.4 [Exhibit A.4 is reserved for future use]

Exhibit A.5
Respondents for the ICR Period Year by Year by Activity

Facilities (approval and renewal)

	Year 1	Year 2	Year 3	
	Mar. 2007 -	Mar. 2008 -	Mar. 2009 -	Annual
	Feb. 2008	Feb. 2009	Feb. 2010	Average ¹
Start-up Activities	94	106	109	103
Permit Application Activities	117	89	123	110
Proposal for Collection of Information for Comprehensive Demonstration Study		83	71	76
FW River/Stream Source Water Body Flow Information	42	28	44	38
FW Lake/Reservoir Source Water Body Flow Information	20	20	17	19
Design and Construction Technology Plan (Impingement Only)	60	44	48	51
Design and Construction Technology Plan (Impingement & Entrainment)	37	22	37	32
Freshwater Monitoring for Impingement Mortality & Entrainment Characterization Study	95	85	94	91
Marine Monitoring for Impingement Mortality & Entrainment Characterization Study	105	101	97	101
Impingement Mortality & Entrainment Characterization Study Initial Analysis	74	83	71	76
Impingement Mortality & Entrainment Characterization Study Final Report	97	66	85	83
Pilot Study Impingement Monitoring Only (Freshwater)	0	0	0	0
Pilot Study Impingement & Entrainment Monitoring (Freshwater)	2	2	0	1
Pilot Study Impingement Monitoring Only (Marine)	1	1	0	1
Pilot Study Impingement & Entrainment Monitoring (Marine)	10	12	0	7
Verification Monitoring Plan	101	77	98	92
Biological Monitoring for Impingement (Freshwater)	180	242	290	237
Biological Monitoring for Impingement (Marine)	97	136	165	133
Biological Monitoring for Entrainment (Freshwater)	180	242	290	237
Biological Monitoring for Entrainment (Marine)	97	136	165	133
Bi-Annual Status Report Activities	277	378	455	370
Verification Study	179	188	194	187
Respondents	293	390	480	388

State Directors (approval and renewal)

	Year 1	Year 2	Year 3	
	Mar. 2007 -	Mar. 2008 -	Mar. 2009 -	Annual
	Feb. 2008	Feb. 2009	Feb. 2010	Average ²
Director Start-up Activities	0	0	0	0
Director Permit Issuance Activities				
Review Permit Application Information	113	86	120	106
Review Proposal for Collection of Information for Comprehensive Demonstration Study	73	78	70	74
Review Source Water Body Flow Information	61	48	59	56
Review Design and Construction Technology Plan	93	63	82	79
Review Impingement Mortality & Entrainment Characterization Study	93	63	82	79
Review Pilot Study for New Impingement & Entrainment Technology	12	14	0	9
Review Restoration Measures	11	9	12	11
Review Information to Support Site-Specific Determination of BTA	34	20	34	29
Determine Monitoring Frequency	113	86	120	106
Determine Permit Requirements and Issue Permit	113	86	120	106
Verification Study Review	95	142	187	141
Alternative Regulatory Requirements	0	0	0	0
Annual Director Activities				
Review of Yearly Status Report	268	365	439	357
Compliance Tracking	268	365	439	357
Determination on Monitoring Frequency Reduction	268	365	439	357
Record Keeping	268	365	439	357
Respondents	41	41	41	41

Sum for Facilities and Directors (approval and renewal)

	Year 1	Year 2	Year 3	
	Mar. 2007 -	Mar. 2008 -	Mar. 2009 -	Annual
	Feb. 2008	Feb. 2009	Feb. 2010	Average
Facilities	293	390	480	388
State Directors	41	41	41	41
Yearly Total	334	431	521	429

^[1] Each facility is one respondent. One respondent may be involved in more than one activity; however, in order to avoid double-counting, the maximum number of respondents expected to be involved in the rule activities annually is assumed to be the number of respondents for that year.
[2] Each Director is one respondent.

Exhibit A.6 Responses for the ICR Period Year by Year by Activity

Facilities

	Year 1	Year 2	Year 3	
	Mar. 2007 -	Mar. 2008 -	Mar. 2009 -	Annual
	Feb. 2008	Feb. 2009	Feb. 2010	Average
Start-up Activities	94	106	109	103
Permit Application Activities	117	89	123	110
Proposal for Collection of Information for Comprehensive Demonstration Study	74	83	71	76
FW River/Stream Source Water Body Flow Information	42	28	44	38
FW Lake/Reservoir Source Water Body Flow Information	20	20	17	19
Design and Construction Technology Plan (Impingement Only)	60	44	48	51
Design and Construction Technology Plan (Impingement & Entrainment)	37	22	37	32
Freshwater Monitoring for Impingement Mortality & Entrainment				
Characterization Study	95	85	94	91
Marine Monitoring for Impingement Mortality & Entrainment Characterization				
Study	105	101	97	101
Impingement Mortality & Entrainment Characterization Study Initial Analysis	74	83	71	76
Impingement Mortality & Entrainment Characterization Study Final Report	97	66	85	83
Pilot Study Impingement Monitoring Only (Freshwater)	0	0	0	0
Pilot Study Impingement & Entrainment Monitoring (Freshwater)	2	2	0	1
Pilot Study Impingement Monitoring Only (Marine)	1	1	0	1
Pilot Study Impingement & Entrainment Monitoring (Marine)	10	12	0	7
Information to Support Site-Specific Determination of BTA	37	22	37	32
Site-Specific Technology Plan	37	22	37	32
Verification Monitoring Plan	101	77	98	92
Biological Monitoring for Impingement (Freshwater)	180	242	290	237
Biological Monitoring for Impingement (Marine)	97	136	165	133
Biological Monitoring for Entrainment (Freshwater)	180	242	290	237
Biological Monitoring for Entrainment (Marine)	97	136	165	133
Bi-Annual Status Report Activities	277	378	455	370
Verification Study	179	188	194	187
Responses	2,013	2,185	2,527	2,242

State Directors

	Year 1	Year 2	Year 3	
	Mar. 2007 -	Mar. 2008 -	Mar. 2009 -	Annual
	Feb. 2008	Feb. 2009	Feb. 2010	Average
Director Start-up Activities	0	0	0	0
Director Permit Issuance Activities				
Review Permit Application Information	113	86	120	106
Review Proposal for Collection of Information for Comprehensive				
Demonstration Study	73	78	70	74
Review Source Water Body Flow Information	61	48	59	56
Review Design and Construction Technology Plan	93	63	82	79
Review Impingement Mortality & Entrainment Characterization Study	93	63	82	79
Review Pilot Study for New Impingement & Entrainment Technology	12	14	0	9
Review Restoration Measures	11	9	12	11
Review Information to Support Site-Specific Determination of BTA	34	20	34	29
Determine Monitoring Frequency	113	86	120	106
Determine Permit Requirements and Issue Permit	113	86	120	106
Verification Study Review	95	142	187	141
Alternative Regulatory Requirements	0	0	0	0
Annual Director Activities				
Review of Bi-Annual Status Report	268	365	439	357
Compliance Tracking	268	365	439	357
Determination on Monitoring Frequency Reduction	268	365	439	357
Record Keeping	268	365	439	357
Responses	1,883	2,155	2,642	2,227

Sum for Facilities and Directors

	Year 1 Year 2 Year 3		Year 3	
	Mar. 2007 -	Mar. 2008 -	Mar. 2009 -	Annual
	Feb. 2008	Feb. 2009	Feb. 2010	Average
Facilities	2,013	2,185	2,527	2,242
State Directors	1,883	2,155	2,642	2,227
Yearly Total	3,896	4,340	5,169	4,468

Exhibit A.7
Hourly Burden for the ICR Period Year by Year for Facilities

Facility Activities

		Year 1	Year 2	Year 3	
	Source	Mar. 2007 -	Mar. 2008 -	Mar. 2009 -	Annual
	(Exhibit)	Feb. 2008	Feb. 2009	Feb. 2010	Average
NPDES Permit Application Activities					
Start-up Activities	A1a	2,932	2,068	1,417	2,139
Permit Application Activities	A1b	28,899	21,983	18,081	22,988
Proposal for Collection of Information for Comprehensive Demonstration					
Study	A1c	12,965	6,507	5,566	8,346
FW River/Stream Source Water Body Flow Information	A1d	4,200	2,800	1,320	2,773
FW Lake/Reservoir Source Water Body Flow Information	A1d	2,240	2,240	571	1,684
Design and Construction Technology Plan (Impingement Only)	A1e	7,020	5,148	2,880	5,016
Design and Construction Technology Plan (Impingement & Entrainment)	A1e	5,772	3,432	2,960	4,055
Freshwater Monitoring for Impingement Mortality & Entrainment					
Characterization Study	A1f	395,058	218,329	126,242	246,543
Marine Monitoring for Impingement Mortality & Entrainment Characterization					
Study	A1f	426,655	278,805	167,099	290,853
Impingement Mortality & Entrainment Characterization Study Initial Analysis	A1f	17,982	9,379	8,023	11,795
Impingement Mortality & Entrainment Characterization Study Final Report	A1f	38,703	26,334	10,200	25,079
Pilot Study Impingement Monitoring Only (Freshwater) for Pilot Study	A1g	0	0	0	0
Pilot Study Impingement & Entrainment Monitoring (Freshwater) for Pilot	Ğ				
Study	A1g	3,112	3,112	0	2,075
Pilot Study Impingement Monitoring Only (Marine) for Pilot Study	A1g	1,185	1,185	0	790
3 1 3 3 3 7 7 3	Ü	·	ŕ		
Pilot Study Impingement & Entrainment Monitoring (Marine) for Pilot Study	A1g	18,590	22,308	0	13,633
Verification Monitoring Plan	A1h	12,928	9,856	0	7,595
NPDES Permit Application Activity Total		978,239		344,359	645,361
Annual Activities					
Biological Monitoring for Impingement (Freshwater)	A2a	68,220	91,718	109,910	89,949
Biological Monitoring for Impingement (Marine)	A2b	46,715	65,498	79,464	63,892
Biological Monitoring for Entrainment (Freshwater)	A2c	110,520	148,588	178,060	
Biological Monitoring for Entrainment (Marine)	A2d	75,272	105,536	128,040	102,949
Bi-Annual Status Report Activities	A2e	65,372	89,208	107,380	87,320
Verification Study	A2f	21,514	22,768	21,780	
Annual Activity Yearly Labor Total		387,613	523,316	624,634	
Yearly Labor Total		1,365,853	1,136,801	968,993	1,157,216

Exhibit A.8 Hourly Burden for the ICR Period Year by Year for State Directors and Federal Government

State Director Activities

		Year 1	Year 2	Year 3	
	Source	Mar. 2007 -	Mar. 2008 -	Mar. 2009 -	Annual
	(Exhibit)	Feb. 2008	Feb. 2009	Feb. 2010	Average
Director Start-up Activities	A3a (state)	0	0	0	0
Director Permit Issuance Activities	A3b (state)	101,088	66,894	29,311	65,764
Verification Study Review	A3c (state)	1,995	2,982	3,927	2,968
Alternative Regulatory Requirements	A3d (state)	0	0	0	0
Annual Director Activities	A3e (state)	10,988	14,965	17,999	14,651
Yearly Total		114,071	84,841	51,237	83,383

Federal Director Activities

		Year 1	Year 2	Year 3	
	Source	Mar. 2007 -	Mar. 2008 -	Mar. 2009 -	Annual
	(Exhibit)	Feb. 2008	Feb. 2009	Feb. 2010	Average
Director Start-up Activities	A3a (federal)	0	0	0	0
Director Permit Issuance Activities	A3b (federal)	5,738	4,090	1,528	91,931
Verification Study Review	A3c (federal)	63	84	147	3,066
Alternative Regulatory Requirements	A3d (federal)	0	0	0	0
Annual Director Activities	A3e (federal)	369	533	656	18,500
Yearly Total		6,170	4,707	2,331	4,403

Exhibit A.9
Costs for the ICR Period Year by Year for Facilities

Facility Activities

		Year 1	Year 2	Year 3	
	Source	Mar. 2007 -	Mar. 2008 -	Mar. 2009 -	Annual
	(Exhibit)	Feb. 2008	Feb. 2009	Feb. 2010	Average
NPDES Permit Application Activities					
Start-up Activities	A1a	\$174,735	\$125,889	\$88,682	\$129,769
Permit Application Activities	A1b	\$1,389,995	\$1,057,347	\$916,830	\$1,121,391
Proposal for Collection of Information for Comprehensive Demonstration Study	A1c	\$692,412	\$337,838	\$288,994	\$439,748
FW River/Stream Source Water Body Flow Information	A1d	\$168,046	\$112,031	\$52,815	\$110,964
FW Lake/Reservoir Source Water Body Flow Information	A1d	\$93,630	\$93,630	\$23,876	\$70,379
Design and Construction Technology Plan (Impingement Only)	A1e	\$301,128	\$220,827	\$125,635	\$215,863
Design and Construction Technology Plan (Impingement & Entrainment)	A1e	\$264,117	\$157,043	\$137,670	\$186,276
Freshwater Monitoring for Impingement Mortality & Entrainment Characterization Study	A1f	\$19,318,188	\$10,679,417	\$6,179,504	\$12,059,036
Marine Monitoring for Impingement Mortality & Entrainment Characterization Study	A1f	\$20,716,016	\$13,547,179	\$8,130,537	\$14,131,244
Impingement Mortality & Entrainment Characterization Study Initial Analysis	A1f	\$1,195,341	\$627,638	\$536,895	\$786,624
Impingement Mortality & Entrainment Characterization Study Final Report	A1f	\$2,149,685	\$1,462,672	\$571,107	\$1,394,488
Pilot Study Impingement Monitoring Only (Freshwater) for Pilot Study	A1g	\$0	\$0	\$0	\$0
Pilot Study Impingement & Entrainment Monitoring (Freshwater) for Pilot Study	A1g	\$174,635	\$174,635	\$0	\$116,423
Pilot Study Impingement Monitoring Only (Marine) for Pilot Study	A1g	\$64,811	\$64,811	\$0	\$43,207
Pilot Study Impingement & Entrainment Monitoring (Marine) for Pilot Study	A1g	\$1,016,790	\$1,220,148	\$0	\$745,646
Verification Monitoring Plan	A1h	\$712,878	\$543,481	\$0	\$418,787
NPDES Permit Application Activity Total		\$48,432,406	\$30,424,586	\$17,052,543	\$31,969,845
Annual Activities					
Biological Monitoring for Impingement (Freshwater)	A2a	\$3,537,504	\$4,755,978	\$5,699,312	\$4,664,265
Biological Monitoring for Impingement (Marine)	A2b	\$2,422,980	\$3,397,168	\$4,121,565	\$3,313,905
Biological Monitoring for Entrainment (Freshwater)	A2c	\$5,804,910	\$7,804,379	\$9,352,355	\$7,653,881
Biological Monitoring for Entrainment (Marine)	A2d	\$3,909,963	\$5,482,010	\$6,650,969	\$5,347,647
Bi-Annual Status Report Activities	A2e	\$5,430,862	\$7,411,068	\$8,920,730	\$7,254,220
Verification Study	A2f	\$1,382,398	\$1,455,074	\$1,381,781	\$1,406,418
Annual Activity Yearly Labor Total		\$22,488,618	\$30,305,678	\$36,126,711	\$29,640,336
Yearly Labor Total		\$70,921,024	\$60,730,263	\$53,179,254	\$61,610,181
rearry Labor Total		φ10,321,024	φυυ, ε ου, 203	φυο, i <i>i</i> 9,204	φυι,υιυ, Ιοι

Facility O&M

		Year 1	Year 2	Year 3	
	Source	Mar. 2007 -	Mar. 2008 -	Mar. 2009 -	Annual
	(Exhibit)	Feb. 2008	Feb. 2009	Feb. 2010	Average
NPDES Application					
Purchase, Installation & Operation of Pilot Study Technology-Freshwater Impingement and					
Entrainment	A1g	\$352,988	\$352,988	\$0	\$235,325
Purchase, Installation & Operation of Pilot Study Technology-Freshwater-Impingement Only	A1g	\$0	\$0	\$0	\$0
Purchase, Installation & Operation of Pilot Study Technology-Marine Impingment and Entrainment	A1g	\$5,023,160	\$6,027,792	\$0	\$3,683,651
Purchase, Installation & Operation of Pilot Study Technology-Marine- Impingement Only	A1g	\$259,798	\$259,798	\$0	\$173,199
Biological Study Laboratory Analysis (Freshwater)	A1f	\$3,968,055	\$2,347,413	\$1,570,505	\$2,628,658
Biological Study Laboratory Analysis (Marine)	A1f	\$4,496,017	\$3,138,530	\$2,106,840	\$3,247,129
Pilot Study Entrainment Laboratory Analysis (Freshwater)	A1g	\$12,852	\$12,852	\$0	\$8,568
Pilot Study Entrainment Laboratory Analysis (Marine)	A1g	\$83,540	\$100,248	\$0	\$61,263
Other Direct Costs	A.1a-h	\$797,610	\$396,402	\$74,256	\$422,756
Annual					
Laboratory Analysis to Identify & Enumerate Entrained Freshwater Biota	A2c	\$1,503,720	\$2,021,668	\$2,422,660	\$1,982,683
Laboratory Analysis to Identify & Enumerate Entrained Marine Biota	A2d	\$1,053,420	\$1,476,960	\$1,791,900	\$1,440,760
Other Direct Costs	A.2a-f	\$794,651	\$1,055,404	\$1,253,499	\$1,034,518
Equipment Cost Subtotal		\$5,635,946	\$6,640,578	\$0	\$4,092,175
Laboratory Analysis Subtotal		\$11,117,604	\$9,097,671	\$7,891,905	\$9,369,060
Other Direct Costs Subtotal		\$1,592,261	\$1,451,806	. , ,	\$1,457,274
Yearly O&M Total		\$18,345,811	\$17,190,055	\$9,219,660	\$14,918,509

Exhibit A.10 Costs for the ICR Period Year by Year for State Directors and Federal Government

State Director Activities

		Year 1	Year 2	Year 3	
		Mar. 2007 -	Mar. 2008 -	Mar. 2009 -	Annual
	Source (Exhibit)	Feb. 2008	Feb. 2009	Feb. 2010	Average
Director Start-up Activities	A3a (state)	\$0	\$0	\$0	\$0
Director Permit Issuance Activities	A3b (state)	\$4,896,128	\$3,227,906	\$1,413,702	\$3,179,245
Verification Study Review	A3c (state)	\$76,000	\$113,600	\$149,600	\$113,067
Alternative Regulatory Requirements	A3d (state)	\$0	\$0	\$0	\$0
Annual Director Activities	A3e (state)	\$517,347	\$704,596	\$847,446	\$689,796
Yearly Total		\$5,489,476	\$4,046,102	\$2,410,747	\$3,982,108

State Director O&M

		Year 1	Year 2	Year 3	
		Mar. 2007 -	Mar. 2008 -	Mar. 2009 -	Annual
	Source (Exhibit)	Feb. 2008	Feb. 2009	Feb. 2010	Average
Start-Up & NPDES Application					
Other Direct Costs	A3a-d (state)	\$37,318	\$29,168	\$40,577	\$35,688
Annual					
Other Direct Costs	A3e (state)	\$7,236	\$9,855	\$11,853	\$9,648
Yearly O&M Cost Total	·	\$44,554	\$39,023	\$52,430	\$45,336

Federal Director Activities

		Year 1	Year 2	Year 3	
		Mar. 2007 -	Mar. 2008 -	Mar. 2009 -	Annual
	Source (Exhibit)	Feb. 2008	Feb. 2009	Feb. 2010	Average
Director Start-up Activities	A3a (federal)	\$0	\$0	\$0	\$0
Director Permit Issuance Activities	A3b (federal)	\$280,096	\$199,376	\$74,628	\$184,700
Verification Study Review	A3c (federal)	\$2,400	\$3,200	\$5,600	\$3,733
Alternative Regulatory Requirements	A3d (federal)	\$0	\$0	\$0	\$0
Annual Director Activities	A3e (federal)	\$17,374	\$25,095	\$30,886	\$24,452
Yearly Total		\$299,870	\$227,671	\$111,114	\$212,885

Federal Director O&M

		Year 1	Year 2	Year 3	
		Mar. 2007 -	Mar. 2008 -	Mar. 2009 -	Annual
	Source (Exhibit)	Feb. 2008	Feb. 2009	Feb. 2010	Average
Start-Up & NPDES Application					
Other Direct Costs	A3a-d (federal)	\$1,317	\$1,007	\$1,040	\$1,121
Annual					
Other Direct Costs	A3e (federal)	\$243	\$351	\$432	\$342
Yearly O&M Cost Total		\$1,560	\$1,358	\$1,472	\$1,463

Exhibit A.11 Summary of the Burden, Respondents, Responses, and Costs for the ICR Period by Year and Annual Averages

Facilities

		Year 1	Year 2	Year 3		Three Year
	Source (Exhibit)	Mar. 2007 - Feb. 2008	Mar. 2008 - Feb. 2009	Mar. 2009 - Feb. 2010	Annual Average	Total ¹
Burden (hours)	A7	1,365,853	1,136,801	968,993	1,157,216	3,471,647
Respondents (number)	A 5	293	390	480	388	508
Responses (number)	A6	2,013	2,185	2,527	2,242	6,725
Costs (labor)	А9	\$70,921,024	\$60,730,263	\$53,179,254	\$61,610,181	\$184,830,542
Costs (Equipment)	А9	\$5,635,946	\$6,640,578	\$0	\$4,092,175	\$12,276,524
Costs (Lab Analysis)	А9	\$11,117,604	\$9,097,671	\$7,891,905	\$9,369,060	\$28,107,181
Costs (Other Direct Costs)	A9	\$1,592,261	\$1,451,806	\$1,327,755	\$1,457,274	\$4,371,822
Total Costs		\$89,266,836	\$77,920,319	\$62,398,914	\$76,528,690	\$229,586,069

^[1] Each facility is one respondent. One respondent may perform activities in more than one year. So to avoid double-counting, the respondent 3 year total, is the total number of facilities that must perform one or more activities during the ICR approval period.

Directors

	Source (Exhibit)	Year 1 Mar. 2007 - Feb. 2008	Year 2 Mar. 2008 - Feb. 2009	Year 3 Mar. 2009 - Feb. 2010	Annual Average	Three Year Total ¹
Burden (hours)	A8	114,071	84,841	51,237	83,383	250,149
Respondents (number)	A5	41	41	41	41	41
Responses (number)	A6	1,883	2,155	2,642	2,227	6,680
Costs(labor)	A10	\$5,489,476	\$4,046,102	\$2,410,747	\$3,982,108	\$11,946,325
Costs (Other Direct Costs)		\$44,554	\$39,023	. ,	\$45,336	+,
Total Costs		\$5,534,030	\$4,085,125	\$2,463,177	\$4,027,444	\$12,082,332

^[1] Each director is one respondent. One respondent may perform activities in more than one year. So to avoid double-counting, the respondent 3 year total, is the total number of directors that must perform one or more activities during the ICR approval period.

Federal Government

	Source (Exhibit)	Year 1 Mar. 2007 - Feb. 2008	Year 2 Mar. 2008 - Feb. 2009	Year 3 Mar. 2009 - Feb. 2010	Annual Average	Three Year Total
Burden (hours)	A8	6,170	4,707	2,331	4,403	13,208
Costs(labor)	A10	\$299,870	\$227,671	\$111,114	212,885	638,655
Costs (O&M)		\$1,560	\$1,358	\$1,472	•	4,390
Total Costs		\$301,430	\$229,029	\$112,586	\$214,348	\$643,045

Totals for Respondents (Facilities and Directors)*

· ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	Annual	Three Year
	Average	Total
Total Respondent Burden (hours)	1,240,599	3,721,796
Total Respondents (number)	429	549
Total Respondent Labor Costs	\$65,592,289	\$196,776,867
Total Respondent Capital and O&M Costs	\$14,963,845	\$44,891,534
Total Respondent Cost for All Activities	\$80,556,134	\$241,668,401

^{*} Totals for annual averages may not match exactly due to rounding discrepancies