OMB REVIEW DRAFT SUPPORTING SPREADSHEETS FOR INFORMATION COLLECTION COSTS FOR SECTION 316(b) PHASE III FOR NEW OFFSHORE OIL AND GAS EXTRACTION FACILITIES

27-Oct-04

(APPENDIX B)

Exhibit B.1 Facility Cost and Burden Estimates for NPDES Permit Application Activities

Exhibit B.1a

Start-up Activities																			
					Facility	Junior	CAD	Contracted			Biological							l l	
					Manager	Technical	Operator			Statistician	Technician	Clerical	Burden Per Facility	Labor Cost per	Capital Cost	O&M Cost	Total Cost	Total Burden (hrs.)	Total Initial Cos
		cilities (Re							led Hourly Rate				Durucht ci ruchty	Facility	per Facility	per Facility	Per Facility	Total Darach (113.)	Total Initial 003
	Year 1	Year 2	Year 3	Total	\$73	\$34	\$30	\$91	\$53	\$61	\$38	\$19	_	-					
Activity		<u> </u>	۱ <u> </u>		10	10	0		Effort (hrs)	^	0		B	C	D	E	C+D+E	A*B	A*(C+D+E)
Read and Understand Rule	31 31	0	0	31 31	12	12 8	0	0	0	0	0	1	25 13	\$1,305 \$583	\$0 \$0	\$0 \$0		775 403	\$40,45
Mobilization/Planning	31	0	0	31	4	2	0	0	0	0	0	1	13	\$233	\$0 \$0	\$0 \$0		403	\$18,08 \$7,22
Training Other Direct Costs	31	Ő	0	31	0	2	0	0	0	0	0	0	5	\$233 \$0	φU	\$50		100	\$1,55
Totals	31	0	0	31	18	22	0	0	0	0	0	3	43	\$2.121	\$0		\$2.171	1.333	\$67.30
Exhibit B.1b Permit Application Activities																			
Permit Application Activities					Facility	Junior	CAD	Contracted	гт		Biological							,	
					Manager	Technical		Manager	Biologist 3	Statistician		Clerical		Labor Cost per	Capital Cost	O&M Cost	Total Cost		
	Far	cilities (Re	esponden	ts)				Assumed Loa	led Hourly Rate	•			Burden Per Facility	Facility	per Facility	per Facility		Total Burden (hrs.)	Total Initial Cos
	Year 1	Year 2	Year 3	Total	\$73	\$34	\$30	\$91	\$53	\$61	\$38	\$19		,	. ,	. ,	,		
Activity		A	(Level of	Effort (hrs)				В	С	D	E	C+D+E	A*B	A*(C+D+E)
Statement of Compliance Option Selected	7	6	6	19	1	(-	0 0	0	-	1	2	\$92	\$0	\$0		38	\$1,74
Source Water Physical Data	7	6	6	19	1	3		-	0 0	0	-	-	12	\$418	\$0 \$0	\$0		228	\$7,93
Submit Materials for Review by Permitting Authority	7	6	6	19	0	() (-	0 0	0	-	-	6	\$111	\$0	\$0		114	\$2,10
Recordkeeping	7	6	6	19 19	1	1	1 1) (0			5	\$175 \$0	\$0 \$0	\$0 \$130		95	\$3,31 \$2,47
Other Direct Costs		6	0	19	0	() (J	J U	0	0	U	25	\$795	\$0 \$0	\$130	\$925	- 475	\$2,4 \$17,5
Totals	'	•	0	19												÷			
Water balance diagram is assumed to be taken from th Exhibit B.1c	e facility de	•	t. The hour	-	I here are fo	or incorpo	ration of the	e diagram(s)	in the permit.							*			
Water balance diagram is assumed to be taken from th Exhibit B.1c		sign report.		s reported	here are fo Facility Manager	or incorpo Junior Technical	CAD Operator	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Burden Per Facility	Labor Cost per	Capital Cost	O&M Cost	Total Cost	Total Burden (hrs.)	Total Initial Cost
Water balance diagram is assumed to be taken from th Exhibit B.1c		sign report.	esponden	ts)	Facility Manager	Junior	CAD Operator	Contracted Manager	Biologist Steel Hourly Rate	9		Clerical \$19	Burden Per Facility					Total Burden (hrs.)	Total Initial Cos
Water balance diagram is assumed to be taken from th Exhibit B.1c Source Water Body Flow Information	Fac	sign report.	esponden	ts)	Facility	Junior Technical	CAD	Contracted Manager Assumed Loar \$91	Biologist		Technician		Burden Per Facility B	Labor Cost per	Capital Cost	O&M Cost	Total Cost	Total Burden (hrs.) A*B	Total Initial Cos A*(C+D+E)
Water balance diagram is assumed to be taken from th Exhibit B.1c Source Water Body Flow Information	Fac	sign report.	esponden	ts)	Facility Manager	Junior Technical \$34	CAD Operator \$30	Contracted Manager Assumed Load \$91 Level of	Biologist S Ied Hourly Rate \$53	9	Technician \$38			Labor Cost per Facility C \$272	Capital Cost per Facility D \$0	O&M Cost per Facility	Total Cost Per Facility	A*B 152	A*(C+D+E)
Water balance diagram is assumed to be taken from th Exhibit B.1c Source Water Body Flow Information Activity Gather Information Characterizing Flow Perform Engineering Calculations	Fac Year 1 7 7	sign report.	esponden Year 3 6 6	ts) Total 19 19	Facility Manager	Junior Technical \$34	CAD Operator \$30	Contracted Manager Assumed Load \$91 Level of 0	Biologist S led Hourly Rate \$53 Effort (hrs) 0 0 0 0	\$61	Technician \$38 0	\$19 0		Labor Cost per Facility C \$272 \$822	Capital Cost per Facility D \$0 \$0	O&M Cost per Facility E \$0 \$0	Total Cost Per Facility	A*B 152 380	A*(C+D+E) \$5,16 \$15,61
Water balance diagram is assumed to be taken from th Exhibit B.1c Source Water Body Flow Information Activity Gather Information Characterizing Flow Perform Engineering Calculations Submit Data and Analysis for Review	Fac Year 1 7 7 7 7	sign report.	Year 3 6 6 6	ts) Total 19 19 19	Facility Manager \$73 0 4 0	Junior Technical \$34 12	CAD Operator \$30 3 C 2 4 0 C	Contracted Manager Assumed Loas \$91 Level of 0 4	Biologist stated Hourly Rate ffort (hrs) 0 0 0 0 0 0 0 0	\$61 0 0 0	Technician \$38 0 0 0 0	\$19 0 0 4	B 8	Labor Cost per Facility C \$272 \$822 \$74	Capital Cost per Facility D \$0 \$0 \$0 \$0	O&M Cost per Facility E \$0 \$0 \$0	Total Cost Per Facility	A*B 152 380 76	A*(C+D+E) \$5,16 \$15,61 \$1,40
Water balance diagram is assumed to be taken from th Exhibit B.1c Source Water Body Flow Information Activity Gather Information Characterizing Flow Perform Engineering Calculations Submit Data and Analysis for Review Recordkeeping	Fac Year 1 7 7 7 7 7	cilities (Re Year 2 6 6 6 6 6	Year 3	ts) Total 19 19 19 19	Facility Manager \$73 0 4 0 0	Junior Technical \$34 12 (CAD Operator \$30 3 C 2 4 0 C 4 C	Contracted Manager Assumed Loan \$91 Level of 1 4 0	Biologist 1 ted Hourly Rate \$53 ffort (hrs) 0 0 0 0 0 0 0 0 0 0	\$61 0 0 0 0	Technician \$38 0 0 0 0 0 0	\$19 0 4 2	B 8	Labor Cost per Facility C \$822 \$822 \$74 \$173	Capital Cost per Facility D \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	O&M Cost per Facility E \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Total Cost Per Facility	A*B 152 380	A*(C+D+E) \$5,16 \$15,61 \$1,40 \$3,28
Water balance diagram is assumed to be taken from th Exhibit B.1c Source Water Body Flow Information Activity Gather Information Characterizing Flow Perform Engineering Calculations Submit Data and Analysis for Review Recordkeeping Other Direct Costs	Fac Year 1 7 7 7 7	sign report.	Year 3 6 6 6	s reported (s) Total 19 19 19 19 19 19 19 19	Facility Manager \$73 0 4 0	Junior Technical \$34 12 (CAD Operator \$30 3 C 2 4 0 C 4 C	Contracted Manager Assumed Loan \$91 Level of 1 4 0	Biologist stated Hourly Rate ffort (hrs) 0 0 0 0 0 0 0 0	\$61 0 0 0	Technician \$38 0 0 0 0 0 0	\$19 0 4 2	B 8 20 4 6 0	Labor Cost per Facility C \$272 \$822 \$74 \$173 \$0	Capital Cost per Facility D \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	O&M Cost per Facility E \$0 \$0 \$0 \$0 \$75	Total Cost Per Facility C+D+E	A'B 152 380 76 114	A*(C+D+E) \$5,16 \$15,61 \$1,40 \$3,28 \$1,42
Water balance diagram is assumed to be taken from th Exhibit B.1c Source Water Body Flow Information Activity Gather Information Characterizing Flow Perform Engineering Calculations Submit Data and Analysis for Review Recordkeeping	Fac Year 1 7 7 7 7 7	cilities (Re Year 2 6 6 6 6 6	Year 3	ts) Total 19 19 19 19	Facility Manager \$73 0 4 0 0	Junior Technical \$34 12 (CAD Operator \$30 3 C 2 4 0 C 4 C	Contracted Manager Assumed Loan \$91 Level of 1 4 0	Biologist 1 ted Hourly Rate \$53 ffort (hrs) 0 0 0 0 0 0 0 0 0 0	\$61 0 0 0 0	Technician \$38 0 0 0 0 0 0	\$19 0 4 2	B 8	Labor Cost per Facility C \$822 \$822 \$74 \$173	Capital Cost per Facility D \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	O&M Cost per Facility E \$0 \$0 \$0 \$0 \$75	Total Cost Per Facility	A'B 152 380 76 114	A*(C+D+E) \$5,16 \$15,61 \$1,40 \$3,28 \$1,42 \$1,42
Water balance diagram is assumed to be taken from th Exhibit B.1c Source Water Body Flow Information Activity Gather Information Characterizing Flow Perform Engineering Calculations Submit Data and Analysis for Review Recordkeeping Other Direct Costs	Fac Year 1 7 7 7 7 7 7 7 7 7	sign report.	esponden Year 3 6 6 6 6 6 6 6 6 6 6	s reported Total 19 19 19 19 19 19 19	Facility Manager \$73 0 4 0 0	Junior Technical \$34 12 (CAD Operator \$30 3 C 2 4 4 C 5 CAD	Contracted Manager Assumed Load Level of 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Biologist 1 ded Hourly Rate \$33 iffort (hrs) 0 0 0 0 0 0 0 0 0 0 0 0 0	\$61 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Technician \$38 0 0 0 0 0 0	\$19 0 4 2	B 8 20 4 6 0 38	Labor Cost per Facility C \$2272 \$74 \$173 \$00 \$1,341 Labor Cost per	Capital Cost per Facility D \$0 \$0 \$0 \$0 \$0 \$0 Capital Cost	O&M Cost per Facility S0 \$0 \$0 \$75 \$75 \$75	Total Cost Per Facility C+D+E \$1,416 Total Cost	A'B 152 380 76 114 - 722	A*(C+D+E) \$5,16 \$15,67 \$1,40 \$3,26 \$1,40 \$26,90
Water balance diagram is assumed to be taken from th Exhibit B.1c Source Water Body Flow Information Activity Gather Information Characterizing Flow Perform Engineering Calculations Submit Data and Analysis for Review Recordkeeping Other Direct Costs Totals Exhibit B.1d	Fac Year 1 7 7 7 7 7 7 7 7	cilities (Re Vear 2 6 6 6 6 6 6 6 6 6 6 6 6	Year 3 Vear 3 6 6 6 6 6 6 6	is) Total 19 19 19 19 19 19 19	Facility Manager \$73 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Junior Technical	CAD Operator \$30 3 C 2 4 4 C 0 C 0 C 0 C 0 C AD Operator	Contracted Manager S91 Level of 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Biologist 1 ded Hourly Rate 553 [ffort (hrs) 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0	\$61 0 0 0 0 0 0 0 5 5 5 5 5 5 5 5	Technician \$38 0 0 0 0 0 0 0 0 0	\$19 0 4 2 0	B 8 20 4 6 0	Labor Cost per Facility C \$272 \$822 \$74 \$173 \$00 \$1,341	Capital Cost per Facility D \$0 \$0 \$0 \$0 \$0 \$0	O&M Cost per Facility E \$0 \$0 \$0 \$75 \$75	Total Cost Per Facility C+D+E \$1,416	A'B 152 380 76 114	A*(C+D+E) \$5,16 \$15,67 \$1,40 \$3,26 \$1,40 \$26,90
Vater balance diagram is assumed to be taken from th Exhibit B.1c Source Water Body Flow Information Gather Information Characterizing Flow Perform Engineering Calculations Submit Data and Analysis for Review Recordkeeping Other Direct Costs Totals Exhibit B.1d Design and Construction Technology Plan	Fac Year 1 7 7 7 7 7 7 7 7 7	sign report.	Year 3 6 6 6 6 6 6 6 6 8 9 9 9 9 9 9 9 9 9 9 9	is) Total 19 19 19 19 19 19 19	Facility Manager \$73 0 4 0 0 0 0	Junior Technical \$34 (2 (2 (2 (2 (2 (2 (2 (2 (2 (CAD Operator \$30 3 C 2 4 4 C 5 CAD	Contracted Manager Assumed Load S91 Level of 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Biologist : ted Hourly Rate ted Hourly Rate ted Hourly Rate 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$61 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Technician \$38 0 0 0 0 0 0 0 0 0 0 0 0 0	\$19 0 4 2 0	B 8 20 4 6 0 38	Labor Cost per Facility C \$2272 \$74 \$173 \$00 \$1,341 Labor Cost per	Capital Cost per Facility D \$0 \$0 \$0 \$0 \$0 \$0 Capital Cost	O&M Cost per Facility S0 \$0 \$0 \$75 \$75 \$75	Total Cost Per Facility C+D+E \$1,416 Total Cost Per Facility	A'B 152 380 76 114 - - 722	A*(C+D+E) \$5,1(\$15,6' \$1,4(\$3,22 \$1,4(\$26,90 Total Initial Cos
Water balance diagram is assumed to be taken from th Exhibit B.1c Source Water Body Flow Information Cativity Gather Information Characterizing Flow Perform Engineering Calculations Submit Data and Analysis for Review Recordkeeping Other Direct Costs Totals Exhibit B.1d Design and Construction Technology Plan Cativity Delineate Hydraulic Zone of Influence Perform Engineering Calculations (Impingement)	Fac Year 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	cilities (Re Year 2 A 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 7 6	Year 3 6 6 6 6 6 6 6 6 8 9 9 9 9 9 9 9 9 9 9 9	s reported 19 19 19 19 19 19 19 19 19 19	Facility Manager \$73 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Junior Technical \$34 12 (2 2 2 2 2 34 5 34	CAD Operator \$30 3 C 2 4 0 C 4 C 0 C 0 C 0 C 0 C 0 C 0 C 0 C 0 C 1 \$30 0 C 1 \$ 0 C 0 C 0 C 0 C 0 C 0 C 0 C 0 C 0 C 0 C	Contracted Manager Assumed Load S91 Level of 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Biologist : led Hourly Rate \$53 fort (mrs) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0	s61 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Technician \$38 0 0 0 0 0 0 0 0 0	\$19 0 0 4 2 0 0 0 0 0 0 0 0 0	B 8 20 4 6 0 38 Burden Per Facility	Labor Cost per Facility C \$272 \$822 \$74 \$173 \$00 \$1,341 Labor Cost per Facility C S168 \$141	Capital Cost per Facility D \$0 \$0 \$0 \$0 \$0 Capital Cost per Facility	O&M Cost per Facility E \$0 \$0 \$75 \$75 \$75 O&M Cost per Facility E \$0 \$0 \$0 \$0 \$0 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1	Total Cost Per Facility C+D+E \$1,416 Total Cost	A'B 152 380 76 114 - 722	A'(C+D+E) \$5,1 \$15,6 \$1,4 \$3,2 \$1,4 \$26,9 Total Initial Cos A'(C+D+E) \$3,1 \$2,5
Water balance diagram is assumed to be taken from th Exhibit B.1c Source Water Body Flow Information Cetivity Gather Information Characterizing Flow Perform Engineering Calculations Submit Data and Analysis for Review Recordkeeping Other Direct Costs Totals Exhibit B.1d Design and Construction Technology Plan Cetivity Delineate Hydraulic Zone of Influence Perform Engineering Calculations (Impingement) Perform Engineering Calculations (Impingeme	Fac Year 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	cilities (Re Year 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	esponden Year 3 6 6 6 6 6 6 6 6 6 6 6 6 6	s reported Total 19 19 19 19 19 19 19 19 19 19	Facility Manager \$73 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0	Junior Technical 334 12 (4 (4 (5 (4 (6) 12 (6) 12 (12 (12) 12 (12) 12 (12) 12 (12) 12 (12) 12 (12) 12) 12 (12) 12) 12 12 12 12 12 12 12 12 12 12 12 12 12	CAD Operator 3 0 2 4 4 0 0 0 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0	Contracted Manager Assumed Loa Syn Level of Contracted Manager Assumed Loa Syn Level of Level of 2 Level of 2	Biologist 1 Ied Hourly Rate \$53 Iffort (hrs) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	561 0 0 0 0 0 0 0 0 0 561 0 0 0 0 0 0	Technician \$38 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0	\$19 0 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0	B 8 20 4 6 0 38 Burden Per Facility	Labor Cost per Facility C \$272 \$822 \$74 \$173 \$0 \$1,341 Labor Cost per Facility C C \$168 \$141 \$141	Capital Cost per Facility D \$0 \$0 \$0 \$0 \$0 Capital Cost per Facility	O&M Cost per Facility \$0 \$0 \$7575 \$75 O&M Cost per Facility E \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Total Cost Per Facility C+D+E \$1,416 Total Cost Per Facility	A'B 152 380 76 114 - 722 Total Burden (hrs.) A'B 76 54 12	A*(C+D+E) \$5,11 \$15,6 \$1,4,4 \$3,21 \$1,4; \$26,9 Total Initial Cos A*(C+D+E) \$3,11 \$2,5; \$51
Water balance diagram is assumed to be taken from th Exhibit B.1c Source Water Body Flow Information Activity Gather Information Characterizing Flow Perform Engineering Calculations Submit Data and Analysis for Review Recordkeeping Other Direct Costs Totals Exhibit B.1d Design and Construction Technology Plan Activity Delineate Hydraulic Zone of Influence Perform Engineering Calculations (Infinament) Perform Engineering Calculations (Infinament) Document that Technologis Are Oplina	Fac Year 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	cilities (Re Year 2 A 6 6 6 6 6 6 6 6 6 6 6 6 6 6 7 8 7 8 7 8	esponden Year 3 6 6 6 6 6 6 6 6 6 6 6 6 6	ts) Total 19 19 19 19 19 19 19 19 19 19 19 19 19	Facility Manager \$73 0 4 0 0 0 0 0 0 0 0 0 573 573 1 1 1 1 0	Junior Technical	CAD Operator 3 30 3 C 2 4 0 C 4 C 0 C 4 C 0 C 4 C 0 C 0 C 0 C 2 2 2 2 2 C 3 C 0 C 2	Contracted Manager Assumed Loa S91 Level of 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Biologist 2 led Hourly Rate 53 [ffort (ms) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Statistician 3 561 0 0 0 0 561 0 0 0 0 0 0 0 0 0 0 0 0 0	Technician \$38 0	\$19 0 4 2 0 0 Clerical \$19 0 0 0 0 0 0	B 8 20 4 6 0 38 Burden Per Facility	Labor Cost per Facility C \$272 \$74 \$173 \$00 \$1,341 Labor Cost per Facility C S168 \$141 \$141 \$141	Capital Cost per Facility D \$0 \$0 \$0 \$0 \$0 Capital Cost per Facility	O&M Cost per Facility S0 \$0 \$75 \$75 \$75 \$75 Q&M Cost per Facility E \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$75 \$75	Total Cost Per Facility C+D+E \$1,416 Total Cost Per Facility	A'B 152 380 76 114 - 722 Total Burden (hrs.) A'B 76 54 12 266	A'(C+D+E) \$5,1(\$15,6(\$1,44 \$3,22 \$1,42 \$26,90 Total Initial Cos A'(C+D+E) \$3,1(\$2,5, \$5,6 \$7,21
Water balance diagram is assumed to be taken from th Exhibit B.1c Source Water Body Flow Information Activity Gather Information Characterizing Flow Perform Engineering Calculations Submit Data and Analysis for Review Recordkeeping Other Direct Costs Totals Exhibit B.1d Design and Construction Technology Plan Perform Engineering Calculations (Impingement) Perform Engineering Calculations (Impingement) Perform Engineering Calculations (Impingement) Decument that Technologies Are Optimal Submit Data and Analysis for Review	Fac Year 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 6 2 7 7	cilities (Re Year 2) A 6 6 6 6 6 6 6 6 6 6 6 6 6	esponden Year 3 6 6 6 6 6 6 6 6 6 7 7 7 8 7 6 1 6 1 6 6 6 6 6 6 6 6 6 6 6 6 6	s reported Total 19 19 19 19 19 19 19 19 19 19	Facility Manager \$73 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0	Junior Technical \$34 { 2 (2 (2 (2 (2 (2 (2 (2 (2 (2	CAD Operator 3 C 2 4 0 C 4 C 0	Contracted Manager Assumed Load Level of 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Biologist 1 Ged Hourly Rate S53 Ged Hourly Rate Ged Hourly Rate S53 G	5 561 0 0 0 0 0 0 0 551 561 0 0 0 0 0 0 0 0 0 0 0 0 0	Technician \$38 0	\$19 0 4 2 0 Clerical \$19 0 0 0 6 6 6	B 8 20 4 6 0 38 Burden Per Facility	Labor Cost per Facility C \$272 \$822 \$74 \$173 \$00 \$11,341 Labor Cost per Facility C \$168 \$141 \$141 \$383 \$111	Capital Cost per Facility D \$0 \$0 \$0 \$0 \$0 Capital Cost per Facility	O&M Cost per Facility \$0 \$0 \$75 \$75 \$75 \$75 \$75 \$75 \$75 \$75 \$75 \$75	Total Cost Per Facility C+D+E \$1,416 Total Cost Per Facility	A'B 152 380 76 114 - 722 Total Burden (hrs.) A'B 76 54 12 266 54 114	A'(C+D+E) \$5,1(\$15,61 \$1,42 \$3,22 \$1,42 \$26,90 Total Initial Cost A'(C+D+E) \$3,1(\$2,56 \$7,27 \$2,2,10
Water balance diagram is assumed to be taken from th Exhibit B.1c Source Water Body Flow Information Activity Gather Information Characterizing Flow Perform Engineering Calculations Submit Data and Analysis for Review Recordkeeping Other Direct Costs Totals Exhibit B.1d Design and Construction Technology Plan Activity Delineate Hydraulic Zone of Influence Perform Engineering Calculations (Incenteening Activity Delineate Hydraulic Zone of Influence Perform Engineering Calculations (Incenteening Conter Direct Costs Costs Cost of the Construction Technology Plan Cost of the Cost	Fac Year 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	cilities (Re Year 2 A 6 6 6 6 6 6 6 6 6 6 6 6 6 6 7 8 7 8 7 8	esponden Year 3 6 6 6 6 6 6 6 6 6 6 6 6 6	s reported Total 19 19 19 19 19 19 19 19 19 19	Facility Manager \$73 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Junior Technical	CAD Operator \$30 3 C 4 C 0 C 4 C 0 C 0 C 0 C 0 C 0 C 1 230 2 C 2 C 2 C 2 C 3 C 2 C 3 C 2 C 3 C 3 C 3 C 3 C 4 C	Contracted Manager Assumed Loa Level of D Contracted Manager Assumed Loa S91 Level of 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Biologist 1 led Hourly Rate \$53 [ffort (hrs)] 0 0 0 0 0 0 0 1 8000gist 1 1 <t< td=""><td>561 0 0 0 0 0 0 0 0 561 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>Technician</td><td>\$19 0 4 2 0 0 Clerical \$19 0 0 0 0 6 6 6 6</td><td>B 8 20 4 6 0 38 Burden Per Facility</td><td>Labor Cost per Facility C \$272 \$822 \$74 \$173 \$0 \$1,341 Labor Cost per Facility C C \$168 \$141 \$141 \$141 \$383 \$111 \$124</td><td>Capital Cost per Facility D \$0 \$0 \$0 \$0 \$0 Capital Cost per Facility</td><td>O&M Cost per Facility E S0 S0 S0 S75 \$75 Common Cost per Facility E S0 S0 S0 S0 S0 S0 S0 S0 S0 S0 S0 S0 S0</td><td>Total Cost Per Facility C+D+E \$1,416 Total Cost Per Facility</td><td>A'B 152 380 76 114 - 722 Total Burden (hrs.) A'B 76 54 12 266</td><td>\$5,16 \$15,61 \$1,40 \$3,28 \$14,22 \$26,90 Total Initial Cost A'(C+D+E) \$3,18 \$2,54 \$2,54 \$2,55 \$3,42 \$2,54</td></t<>	561 0 0 0 0 0 0 0 0 561 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Technician	\$19 0 4 2 0 0 Clerical \$19 0 0 0 0 6 6 6 6	B 8 20 4 6 0 38 Burden Per Facility	Labor Cost per Facility C \$272 \$822 \$74 \$173 \$0 \$1,341 Labor Cost per Facility C C \$168 \$141 \$141 \$141 \$383 \$111 \$124	Capital Cost per Facility D \$0 \$0 \$0 \$0 \$0 Capital Cost per Facility	O&M Cost per Facility E S0 S0 S0 S75 \$75 Common Cost per Facility E S0 S0 S0 S0 S0 S0 S0 S0 S0 S0 S0 S0 S0	Total Cost Per Facility C+D+E \$1,416 Total Cost Per Facility	A'B 152 380 76 114 - 722 Total Burden (hrs.) A'B 76 54 12 266	\$5,16 \$15,61 \$1,40 \$3,28 \$14,22 \$26,90 Total Initial Cost A'(C+D+E) \$3,18 \$2,54 \$2,54 \$2,55 \$3,42 \$2,54
Water balance diagram is assumed to be taken from th Exhibit B.1c Source Water Body Flow Information Activity Gather Information Characterizing Flow Perform Engineering Calculations Submit Data and Analysis for Review Recordkeeping Other Direct Costs Totals Exhibit B.1d Design and Construction Technology Plan Activity Delineate Hydraulic Zone of Influence Perform Engineering Calculations (Impingement) Perform Engineering Calculations (Impingement) Decument that Technologies Are Optimal Submit Data and Analysis for Review	Fac Year 1 7 7 7 7 7 7 7 7 7 7 7 7 6 2 7 7 7 7	cilities (Re Year 2 Year 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 7 8 8 8 8 8	esponden Vear 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 1 1 6 1 6 1 6 6 1 6	s reported Total 19 19 19 19 19 19 19 19 19 19	Facility Manager \$73 0 4 0 0 0 0 0 0 0 0 0 573 573 1 1 1 1 0	Junior Technical	CAD Operator \$30 3 C 4 C 0 C 4 C 0 C 0 C 0 C 0 C 0 C 1 230 2 C 2 C 2 C 2 C 3 C 2 C 3 C 2 C 3 C 3 C 3 C 3 C 4 C	Contracted Manager Assumed Loa Level of D Contracted Manager Assumed Loa S91 Level of 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Biologist 1 Ged Hourly Rate S53 Ged Hourly Rate Ged Hourly Rate S53 G	5 561 0 0 0 0 0 0 0 551 561 0 0 0 0 0 0 0 0 0 0 0 0 0	Technician	\$19 0 4 2 0 0 Clerical \$19 0 0 0 0 6 6 6 6	B 8 20 4 6 0 38 Burden Per Facility	Labor Cost per Facility C \$272 \$822 \$74 \$173 \$00 \$11,341 Labor Cost per Facility C \$168 \$141 \$141 \$383 \$111	Capital Cost per Facility D \$0 \$0 \$0 \$0 \$0 Capital Cost per Facility	O&M Cost per Facility \$0 \$0 \$75 \$75 \$75 \$75 \$75 \$75 \$75 \$75 \$75 \$75	Total Cost Per Facility C+D+E \$1,416 Total Cost Per Facility	A'B 152 380 76 114 - 722 Total Burden (hrs.) A'B 76 54 12 266 114 152 -	A'(C+D+E) \$5,11 \$15,6 \$1,4,4 \$3,21 \$1,4; \$26,99 Total Initial Cos A'(C+D+E) \$3,11 \$2,5; \$50 \$7,22 \$2,2,1

					Facility Manager	Junior Technical	CAD Operator	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Avg. Burden Per	Avg. Labor Cost	Capital Cost	O&M Cost	Total Cost		
	Facil	ities (Res					. As	sumed Loade	ed Hourly Ra	te			Facility over 3 yrs	per Facility for 3		per Facility	Per Facility	Total Burden (hrs.)	Total Initial Co
	Year 1	Year 2	Year 3	Total	\$73	\$34	\$30	\$91	\$53	\$61	\$38	\$19	_	yrs		_			
ctivity		Α						Level of Et	fort (hrs)				В	C	D	E	C+D+E	A*B	A*(C+D+E)
Develop Regional Study Design and Submit to Director																			i i
	2	0	C	2	0	0	0	24	48	4	0	2	78	\$5,007	\$0	\$0		156	\$10
evelop and Submit Source Water Sampling Plans for Facilities in																			i -
Regional Study	9	0	C	9	0	0	0	8	16	4	0	2	30	\$1,857	\$0	\$0		270	\$16
Revise Regional Study Plans Based on Director Review																			i i
	9	0	C	9	0	0	0	8	24	0	0	0	32	\$1,999	\$0	\$0		288	\$17
Implement Baseline Deep Water Sampling	9	9	g	9	8	8	0	160	288	100	288	12	864	\$47,923	\$0	\$0		7,776	\$431
Install Remote Monitoring Device for Impingement Monitoring																			í l
	9	0	C	9	0	0	0	0	0	0	0	0	0	\$0	\$20,000	\$0		-	\$180
Operation & Maintenance of Remote Monitoring Device																			1
	9	9	g	9	0	0	0	0	0	0	0	0	0	\$0	\$0	\$2,000		-	\$1
Impingement Deep Water Monitoring	9	9	g	9	4	4	0	80	144	50	144	6	432	\$23,961	\$0	\$0		3,888	\$21
Entrainment Deep Water Monitoring	3	3	3	3	4	4	0	80	144	50	144	6	432	\$23,961	\$0	\$0		1,296	\$7
Implement Baseline Sampling Alaska	1	1	1	1	8	8	0	160	432	100	432	12	1152	\$61,012	\$0	\$0		1,152	\$6
Impingement Monitoring Alaska	0	0	C	0	4	4	0	80	216	50	216	6	576	\$30,506	\$0	\$0		-	i i
Entrainment Monitoring Alaska	1	1	1	1	4	4	0	80	216	50	216	6	576	\$30,506	\$0	\$0		576	\$30
Helicopter Transportation to and from Facility	9	9	g	9	0	0	0	0	0	0	0	0	0	\$0	\$0 \$0	\$36,000		-	\$32
Helicopter Transportation to and from Facility in Alaska	1	1	1	1	0	0	0	0	0	0	0	0	0	\$0	\$0 \$0 \$0	\$54,000		-	\$5
Baseline Sample Laboratory Analysis	10	10	10	10	0	0	0	0	0	0	0	0	0	\$0	\$0	\$93,600		-	\$93
Entrainment Sample Laboratory Analysis	4	4	4	4	0	0	0	0	0	0	0	0	0	\$0	\$0	\$9,360		-	\$3
Profile of Source Water Biota	10	0	C	10	0	0	0	32	60	0	20	8	120	\$6,995	\$0	\$0		1,200	\$6
Identification of Critical Species	10	0	C	10	0	0	0	20	40	0	0	3	63	\$3,994	\$0	\$0		630	\$3
Description of Additional Stresses	10	0	C	10	0	0	0	16		0	10	4	60	\$3,497	\$0	\$0		600	\$3
Gather Tidal Excursion Information	10	0	C	10	0	32	0	0	0	0	0	4	36	\$1,162	\$0	\$0		360	\$1
Write Regional Study based on Results and Submit to Director																			í I
	0	0	2	2	0	0	0	80	160	8	0	8	256	\$16,390	\$0	\$0		512	\$32
Revise Regional Study Based on Director Review	0	0	2	2	0	0	0	8	24	0	0	0	32	\$1,999	\$0	\$0		64	\$3
Use Regional Study Results for Individual Facility Studies																			í i
	0	0	19	19	40	80	0	2	4	0	0	0	126	\$6,042	\$0	\$0		2,394	\$114
Recordkeeping	0	0	10	10	2	5	0	17	37	8	15	3	87	\$4,936	\$0	\$0		870	\$49
Finalize Individual Study based on Director review	0	0	19	19	8	24	0	0	0	0	0	8	40	\$1,550	\$0	\$0		760	\$29
Other Direct Costs Deepwater	0	0	g	9	0	0	0	0	0	0	0	0	0	\$0	\$0	\$13,270		-	\$119
Other Direct Costs Alaska	0	0	1	1	0	0	0	0	0	0	0	0	0	\$0	\$0	\$19,910		-	\$1
Gulf of Mexico Totals	10	10	18	18									751	\$40,445	\$6,000	\$44,397		22.792	\$2,93
Alaska Totals	1	1	1	1	1								2.422	\$132,041	\$0	\$176,870	\$308,911	22,192	φ 2 ,930

Year 2	A 0 0 0 0 0 0 0 0 0 0	Total 0 0 0 0	Manager \$73 80 40 0	Technical \$34 80 32 0	Operator A \$30 8 0	Manager ssumed Loaded \$91 Level of Effo 0 0	Hourly Rate \$53		Technician Cleri	Burden Per Facilit	Facility C 0 \$0	Capital Cost per Facility D	O&M Cost per Facility E	Total Cost Per Facility C+D+E	Total Burden (hrs.) A*B -	Total Initial Co A*(C+D+E)
Year 2	Year 3 A 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total 0 0 0 0	80	80		\$91 Level of Effo	\$53 ort (hrs)		0		C 0 \$0			,	A*B -	A*(C+D+E)
	0 0 0 0 0 0 0 0	0 0 0			8			0	0	B 12	0 \$0	D	E	C+D+E	A*B -	A*(C+D+E
	0 0 0 0 0 0 0 0	0 0 0			8 0	0 0	0	0	0	12					-	
	0 0 0 0 0 0	0	40 0	32 0	0	0	0	0	0							
	0 0	Ő	0	0	~			0	0	4	0 \$0				-	
	0 0	•	0		0	0	0	0	0	0		\$0				
	0 0		0	0	0	0	0	0	0	0		\$0				
		0	0	0	0	0	0	0	0	0		\$0				
	0 0	0	0	0	0	0	0	0	0	0		\$0				
	0 0	0	16	33	0	80	312	40	312	20	0 \$0				-	
	0 0	0	16	33	0	80	180	40	180	20	0 \$0				-	
	0 0	0	16	33	0	80	468	40	468	20	0 \$0				-	
	0 0	0	16	33	0	80	351	40	351	20	0 \$0				-	
	0 0	0	16	33	0	80	468	40	468	20	0 \$0				-	
	0 0	0	16	33	0	80	351	40	351	20	0 \$0				-	
	0 0	0	16	33	0	80	702	40	702	20	0 \$0				-	
	0 0	0	16	33	0	80	527	40	527	20	0 \$0				-	
	0 0	0	0	0	0	0	0	0	0	0			\$0		-	
	0 0	0	8	10	0	8	6	4	0	16	0 \$0				-	
	0 0	0	4	8	0	4	8	2	0	20	0 \$0				-	
	0 0	0	0	0	0	0	0	0	0	0	0 \$0		\$0		-	
0	0	0											\$0	\$0	-	
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 16 0 0 0 16 0 0 0 16 0 0 0 16 0 0 0 16 0 0 0 16 0 0 0 16 0 0 0 16 0 0 0 16 0 0 0 16 0 0 0 16 0 0 0 16 0 0 0 16 0 0 0 0 0 0 0 0 0 0 0 0	0 0 16 33 0 0 0 16 33 0 0 0 16 33 0 0 0 16 33 0 0 0 16 33 0 0 0 16 33 0 0 0 16 33 0 0 0 16 33 0 0 0 16 33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 16 33 0 0 0 0 16 33 0 0 0 0 16 33 0 0 0 0 16 33 0 0 0 0 16 33 0 0 0 0 16 33 0 0 0 0 16 33 0 0 0 0 16 33 0 0 0 0 16 33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 4 8 0 0 0 0 0 0 0 0	0 0 0 16 33 0 80 0 0 0 16 33 0 80 0 0 16 33 0 80 0 0 16 33 0 80 0 0 0 16 33 0 80 0 0 0 16 33 0 80 0 0 0 16 33 0 80 0 0 0 16 33 0 80 0 0 0 16 33 0 80 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 16 33 0 80 468 0 0 0 16 33 0 80 351 0 0 0 16 33 0 80 468 0 0 0 16 33 0 80 351 0 0 0 16 33 0 80 351 0 0 0 16 33 0 80 702 0 0 0 16 33 0 80 527 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 16 33 0 80 468 40 0 0 0 16 33 0 80 351 40 0 0 0 16 33 0 80 468 40 0 0 0 16 33 0 80 351 40 0 0 0 16 33 0 80 371 40 0 0 0 16 33 0 80 702 40 0 0 0 16 33 0 80 527 40 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <td>0 0 0 16 33 0 80 468 40 468 0 0 0 16 33 0 80 351 40 351 0 0 0 16 33 0 80 361 40 468 0 0 0 16 33 0 80 351 40 351 0 0 0 16 33 0 80 351 40 351 0 0 0 16 33 0 80 702 40 702 0 0 0 16 33 0 80 527 40 527 0</td> <td>0 0 16 33 0 80 468 40 468 20 0 0 0 16 33 0 80 351 40 351 20 0 0 0 16 33 0 80 351 40 351 20 0 0 16 33 0 80 351 40 351 20 0 0 0 16 33 0 80 351 40 351 20 0 0 0 16 33 0 80 702 40 702 20 0 0 0 16 33 0 80 527 40 527 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0 0 16 33 0 80 468 40 468 20 0 \$0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0</td> <td>0 0 16 33 0 80 468 40 468 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 0 16 33 0 80 527 40 722 20 0 \$0 0 0 0 0 0 0 0 527 20 0 \$0 0 0 0 0 0 0 0 0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0<td>0 0 16 33 0 80 468 40 468 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 0 16 33 0 80 527 40 752 20 0 \$0 0 0 0 0 0 0 0 0 \$0</td><td>0 0 16 33 0 80 468 40 468 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 16 33 0 80 702 40 702 20 0 \$0 0 0 16 33 0 80 527 40 722 0 \$0</td><td>0 0 0 16 33 0 80 468 40 468 20 0 \$0 \$0 </td></td>	0 0 0 16 33 0 80 468 40 468 0 0 0 16 33 0 80 351 40 351 0 0 0 16 33 0 80 361 40 468 0 0 0 16 33 0 80 351 40 351 0 0 0 16 33 0 80 351 40 351 0 0 0 16 33 0 80 702 40 702 0 0 0 16 33 0 80 527 40 527 0	0 0 16 33 0 80 468 40 468 20 0 0 0 16 33 0 80 351 40 351 20 0 0 0 16 33 0 80 351 40 351 20 0 0 16 33 0 80 351 40 351 20 0 0 0 16 33 0 80 351 40 351 20 0 0 0 16 33 0 80 702 40 702 20 0 0 0 16 33 0 80 527 40 527 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 16 33 0 80 468 40 468 20 0 \$0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0	0 0 16 33 0 80 468 40 468 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 0 16 33 0 80 527 40 722 20 0 \$0 0 0 0 0 0 0 0 527 20 0 \$0 0 0 0 0 0 0 0 0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 <td>0 0 16 33 0 80 468 40 468 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 0 16 33 0 80 527 40 752 20 0 \$0 0 0 0 0 0 0 0 0 \$0</td> <td>0 0 16 33 0 80 468 40 468 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 16 33 0 80 702 40 702 20 0 \$0 0 0 16 33 0 80 527 40 722 0 \$0</td> <td>0 0 0 16 33 0 80 468 40 468 20 0 \$0 \$0 </td>	0 0 16 33 0 80 468 40 468 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 0 16 33 0 80 527 40 752 20 0 \$0 0 0 0 0 0 0 0 0 \$0	0 0 16 33 0 80 468 40 468 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 16 33 0 80 351 40 351 20 0 \$0 0 0 16 33 0 80 702 40 702 20 0 \$0 0 0 16 33 0 80 527 40 722 0 \$0	0 0 0 16 33 0 80 468 40 468 20 0 \$0 \$0

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

Exhibit B.2a

Biological Monitoring for Impingement

						Facility Manager	Junior Technical	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Totals P	er Facility for	the ICR Approva	I Period		acilities in the ICR wal Period
	Faci	lities	(Resp	onde	ents)			Assun	ned Loaded Ho	urly Rate						Total		
	Year	1 Year	r 2 Yea	ır 3	Total	\$73	\$34	\$91	\$53	\$61	\$38	\$19	Burden (hrs)	Labor Cost	O & M Costs	Costs**	Burden (hrs.)	Total Cost (\$)
Activity			Α					L	evel of Effort (hrs)			В	С	D	C+D	A*B	A*(C+D)
Monthly Sample Collection)	0	0	0	0	0	0	144	0	144	0	288	\$13,090	\$0		-	\$0
Operation & Maintenance of Remote Monitoring Device		C	0	0	0	0	0	0	0	0	0	0	0	\$0	\$1,000		-	\$0
Review of Video for Taxanomic Identification		C	0	0	0	0	0	12	96	0	48	0	156	\$7,998	\$0		-	\$0
Perform Statistical Analysis		С	0	0	0	12	4	6	0	36	0	0	58	\$3,763	\$0		-	\$0
Recordkeeping		C	0	0	0	1	1	1	7	1	0	16	28	\$972	\$0		-	\$0
Other Direct Costs		C	0	0	0	0	0	0	0	0	0	0	0	\$0	\$660		-	\$0
Totals		D	0	0	-	13	5	19	247	37	192	16	530	\$25,823	\$1,660	\$27,483	-	\$0

Exhibit B.2b

Biological Monitoring for Entrainment

						Facility Manager	Junior Technical	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Totals F	Per Facility for	the ICR Approva	al Period		acilities in the ICR val Period
		ities (F	<u> </u>						ed Loaded Ho	,			Burden (hrs)	Labor Cost	O & M Costs	Total	Burden (hrs.)	Total Cost (\$)
	Year 1	Year 2	2 Yea	ar 3	Total	\$73	\$34	\$91	\$53	\$61	\$38	\$19	Duruon (1110)	Lubor obot		Costs**	Bulluon (mony	10101 0001 (4)
Activity			Α					L	evel of Effort (l	hrs)			В	С	D	C+D	A*B	A*(C+D)
Helicopter Transportation to and from Facility	0	(0	0	0	0	0	0	0	0	0	0	0	\$0	\$12,000		-	\$0
Monthly Sample Collection	0	(0	0	0	0	0	0	144	0	144	0	288	\$13,090	\$0		-	\$0
Laboratory Identifies & Enumerates Entrained Marine Biota	0	(0	0	0	0	0	0	0	0	0	0	0	\$0	\$3,120		-	\$0
Perform Statistical Analysis	0	(0	0	0	12	4	6	0	36	0	0	58	\$3,763	\$0		-	\$0
Recordkeeping	-	(0	0	0	1	1	1	4	1	0	16	24	\$795	\$0		-	\$0
Other Direct Costs	C	(0	0	0	0	0	0	0	0	0	0	0	\$0	\$660		-	\$0
Totals	0		0	0	-	13	5	7	148	37	144	16	370	\$17,647	\$15,780	\$33,427	-	\$0

Exhibit B.2c

Biological Monitoring for Entrainment (Alaska)

						Facility Manager	Junior Technical	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Totals F	Per Facility for	the ICR Approva	al Period		acilities in the ICR val Period
	Facil	ities (F	Respo	nden	ts)			Assum	ed Loaded Hou	urly Rate			Burden (brs)	Labor Cost	O & M Costs	Total	Burden (hrs.)	Total Cost (\$)
	Year 1	Year 2	2 Year	3 To	tal	\$73	\$34	\$91	\$53	\$61	\$38	\$19	Duruen (m3)		O & M COSt3	Costs**	Duruen (ms.)	Total Cost (#)
Activity			À					L	evel of Effort (h	nrs)			В	С	D	C+D	A*B	A*(C+D)
Helicopter Transportation to and from Facility in Alaska	0	C)	0	0	0	0	0	0	0	0	0	0	\$0	\$18,000		-	\$0
Monthly Sample Collection	0	C)	0	0	0	0	0	216	0	216	0	432	\$19,634	\$0		-	\$0
Laboratory Identifies & Enumerates Entrained Marine Biota	0	C)	0	0	0	0	0	0	0	0	0	0	\$0	\$3,120		-	\$0
Perform Statistical Analysis	0	C)	0	0	12	4	6	0	36	0	0	58	\$3,763	\$0		-	\$0
Recordkeeping	0	C)	0	0	1	1	1	6	1	0	16	26	\$901	\$0		-	\$0
Other Direct Costs	0	C)	0	0	0	0	0	0	0	0	0	0	\$0	\$660		-	\$0
Totals	0	C)	0 -		13	0	7	222	37	216	16	516	\$24,298	\$21,780	\$46,078	-	\$0

Exhibit B.2d

Velocity Monitoring

					Facility Manager	Junior Technical	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Totals P	er Facility for	the ICR Approva	al Period		acilities in the ICR wal Period
	Facilit	· ·	•	,	A=0	AA (ned Loaded Ho	,		A / A	Burden (hrs)	Labor Cost	O & M Costs	Total	Burden (hrs.)	Total Cost (\$)
	Year 1	Year 2	Year 3	Total	\$73	\$34	\$91	\$53	\$61	\$38	\$19	• •			Costs	. ,	
Activity		Α					L	evel of Effort (hrs)			В	С	D	C+D	A*B	A*(C+D)
Monitor Average Through Technology	0	7	13	13	2	100	0	0	0	0	0	102	\$3,546	\$0		1,326	\$70,928
Analyze Data	0	7	13	13	4	40	0	0	0	0	0	44	\$1,653	\$0		572	\$33,056
Recordkeeping	•	7	13	13	1	8	0	0	0	0	8	17	\$493	\$0		221	\$9,864
Other Direct Costs	0	7	13	13	0	0	0	0	0	0	0	0	\$0	\$500		-	\$10,000
Totals	0	7	13	13	7	148	0	0	0	0	8	163	\$5,692	\$500	\$6,192	2,119	\$123,848

Exhibit B.2e

Yearly Status Report Activities

						Facility Manager	Junior Technical	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Totals P	Per Facility for	the ICR Approva	al Period		acilities in the ICR val Period
	Faci	lities (Resp	onde	ents)			Assum	ed Loaded Ho	urly Rate			Burden (hrs)	Labor Cost	O & M Costs	Total	Burden (hrs.)	Total Cost (\$)
	Year '	I Year	2 Yea	ar 3	Total	\$73	\$34	\$91	\$53	\$61	\$38	\$19	Duruen (m3)		0 8 10 00313	Costs**	Duruen (m3.)	Total Cost (#)
Activity			Å					L	evel of Effort (I	hrs)			В	С	D	C+D	A*B	A*(C+D)
Report on Inspection and Maintenance	()	7	13	13	16	16	0	0	0	0	0	32	\$1,715	\$0		640	\$34,304
Detail Biological Monitoring Results	()	7	13	13	12	16	8	8	12	0	0	56	\$3,308	\$0		1,120	\$66,160
Detail Velocity Monitoring Results	()	7	13	13	8	16	0	0	0	0	0	24	\$1,130	\$0		480	\$22,592
Compile and Submit Report	()	7	13	13	40	40	0	0	0	0	16	96	\$4,584	\$0		1,920	\$91,680
Recordkeeping)	7	13	13	2	2	1	1	1	0	8	15	\$568	\$0		300	\$11,350
Other Direct Costs	()	7	13	13	0	0	0	0	0	0	0	0	\$0	\$770		-	\$15,400
Totals	()	7	13	13	78	90	9	9	13	0	24	223	\$11,304	\$770	\$12,074	4,460	\$241,486

Total Cost for All NPDES Application Activities

Facilities (Responder	s)	Total Durator	
		Total Burden (hrs.)	Total Annual Cost
Year 1 Year 2 Year 3 T		(113.)	
Totals		6,579	\$365,334

Exhibit B.3 Director Burden and Cost Estimates for Activities

Exhibit B.3a Director Start-up Activities

	Directors (Responses)	Senior Technical Assumed \$50	Junior Technical Loaded Hour \$32	Clerical ly Rate \$24	Burden Per Director	Labor Cost per Director	ODCs lump sum*	Total Cost Per Director	Total Burden (hrs.)	Total Initial Cost
Activity	Α		el of Effort (hrs	•	В	С	D	C+D	A*B	A*(C+D)
Read and Understand Rule	3	12	12	0	24	\$977	\$0		72	\$2,930
Mobilization/Planning	3	24	16	0	40	\$1,698	\$0		120	\$5,095
Training	3	4	32	0	36	\$1,219	\$0		108	\$3,656
Other Direct Costs	3	0	0	0	-	\$0	\$50		-	\$150
Totals	3	40	60	0	100	\$3,894	\$50	\$3,944	300	\$11,832

Exhibit B.3b

Director Permit Issuance Activities

	Directors	Senior Technical	Junior Technical	Clerical	Burden	Labor Cost per	ODCs lump	Total Cost	Burden	Total Initial
	(Responses)	Assumed	Loaded Hour	,	Per Permit	Permit	sum*	Per Permit	(hrs.)	Cost*
		\$50	\$32	\$24						
Activity	A	Leve	l of Effort (hr	s)	В	C	D	C+D	A*B	A*(C+D)
Review Source Water Physical Data	10	2	6	0	8	\$290	\$0		152	\$5,518
Review CWIS Data	10	6	18	0	24	\$871	\$0		456	\$16,553
Review Source Water Body Flow Information	19	2	6	0	8	\$290	\$0		152	\$5,518
Review CWIS Velocity Information	19	16	16	0	32	\$1,302	\$0		608	\$24,746
Review Design and Construction Technology Plan	19	24	8	0	32	\$1,443	\$0		608	\$27,421
Review Regional Monitoring Study Design and Sampling Plans	9	24	8	0	32	\$1,443	\$0		288	\$12,989
Review Regional Monitoring Study	2	300	50	0	350	\$16,445	\$0		700	\$32,890
Review Source Water Baseline Biological Characterization Study	19	40	25	0	65	\$2,778	\$0		1,235	\$52,773
Determine Monitoring Frequency	19	2	6	0	8	\$290	\$0		152	\$5,518
Determine Record keeping and Reporting Frequency	19	2	6	0	8	\$290	\$0		152	\$5,518
Considering Public Comments	19	16	16	0	32	\$1,302	\$0		608	\$24,746
Issuing Permit	19	1	6	1	8	\$265	\$0		152	\$5,037
Permit Record Keeping	19	1	1	2	4	\$130	\$0		76	\$2,466
Other Direct Costs	19	0	0	0	-	\$0	\$310		-	\$5,890
Totals	19	452	188	3	281	11,668	310	\$11,978	5,339	\$227,580

Exhibit B.3c Annual Director Activities

	Directors	Senior Technical	Junior Technical	Clerical	Burden	Labor Cost per	lumn	Total Cost	Burden	Total Annual
	(Responses)	Assumed	Loaded Hour	ly Rate	Per Permit	Permit	sum*	Per Permit	(hrs.)	Cost
		\$50	\$32	\$24						
Activity	Α	Leve	l of Effort (hr	5)	В	С	D	C+D	A*B	A*(C+D)
Review of Yearly Status Report	20	6	12	0	18	\$680	\$0		360	\$13,596
Compliance Tracking	20	4	12	0	16	\$581	\$0		320	\$11,616
Determination on Monitoring Frequency Reduction	8	4	8	0	12	\$453	\$0		96	\$3,626
Record Keeping	20	1	2	1	4	\$138	\$0		80	\$2,750
Other Direct Costs	20	0	0	0	-	\$0	\$30		-	\$600
Totals	20	15	34	1	50	\$1,851	\$30	\$1,881	856	\$32,188

Total Burden and Cost for All Director Activities

		Total Burden (hrs.)	Total Initial Cost
Totals		6,495	\$271,599

Exhibit B.4 Federal Burden and Cost Estimates for Activities

Exhibit B.4a Federal Permit Program Oversight Activities

	Federal	Senior Technical	Junior Technical	Clerical	Burden per permit	Labor Cost per Permit	ODCs lump	Total Cost per Permit	Total Burden	Total Initial
	(Responses)	Assume	d Loaded Hourly F	late	Review	Review	sum*	Review	(hrs.)	Cost *
		\$50	\$32	\$24					. ,	
Activity	Α	Lev	el of Effort (hrs)		В	C	D	C+D	A*B	A*(C+D)
Review Source Water Physical Data	-	0	0	0	-	\$0			-	\$0
Review CWIS Data	-	0	0	0	-	\$0			-	\$0
Review Source Water Body Flow Information	-	0	0	0	-	\$0			-	\$0
Review CWIS Velocity Information	-	0	0	0	-	\$0			-	\$0
Review Design and Construction Technology Plan	-	0	0	0	-	\$0			-	\$0
Review Regional Monitoring Study Design and Sampling Plans	-	0	0	0	-	\$0			-	\$0
Review Regional Monitoring Study	-	0	0	0	-	\$0			-	\$0
Review Source Water Baseline Biological Characterization Study	-	0	0	0	-	\$0			-	\$0
Review Pilot Study for New Impingement & Entrainment Technology	-	0	0	0	-	\$0			-	\$0
Review the Monitoring Frequency	-	0	0	0	-	\$0			-	\$0
Permit Record Keeping	-	0	0	0	-	\$0			-	\$0
Totals	-	0	0	0	0	\$0	\$0	\$0	-	\$0

Exhibit B.5 Respondents for the ICR Approval Period Year by Year by Activity

Facilities

	Year 1	Year 2	Year 3	
				Annual
	2010	2011	2012	Average ¹
Start-up Activities	31	0	0	10
Permit Application Activities	7	6	6	6
Source Water Body Flow Information	7	6	6	6
CWIS Velocity Information	7	6	6	6
Design and Construction Technology Plan (Impingement Only)	5	5	5	5
Design and Construction Technology Plan (Entrainment Only)	1	0	0	0
Design and Construction Technology Plan (Impingement & Entrainment)	1	1	1	1
Develop Regional Study Design and Submit to Director	2	0	0	1
Deep Water Baseline Monitoring for Source Water Baseline Biological Characterization Study	9	9	9	9
Deep Water Impingement Monitoring for Source Water Baseline Biological Characterization Study	9	9	9	9
Deep Water Entrainment Monitoring for Source Water Baseline Biological Characterization Study	3	3	3	3
Alaska Basline Monitoring for Source Water Baseline Biological Characterization Study	1	1	1	1
Alaska Entrainment Monitoring for Source Water Baseline Biological Characterization Study	1	1	1	1
Initial Sourcewater Baseline Biological Characterization Data	10	0	0	3
Sourcewater Baseline Biological Characterization Data Study Final Regional Report	0	0	2	1
Use Regional Study Results for Individual Facility Studies	0	0	19	6
Biological Monitoring for Impingement	0	0	0	0
Biological Monitoring for Entrainment	0	0	0	0
Biological Monitoring for Entrainment (Alaska)	0	0	0	0
Velocity Monitoring	0	7	13	7
Yearly Status Report Activities	0	7	13	7
Respondents	31	16	19	22

Directors

	Year 1	Year 2	Year 3	
				Annual
	2010	2011	2012	Average ²
Director Start-up Activities	3	0	0	1
Director Permit Issuance Activities				
Review Permit Application Information	3	2	2	2
Review Source Water Body Flow Information	3	2	2	2
Review CWIS Velocity Information	3	2	2	2
Review Design and Construction Technology Plan	3	2	2	2
Review Regional Monitoring Study Design and Sampling Plans	2	2	2	2
Review Regional Monitoring Study	2	2	2	2
Review Source Water Baseline Biological Characterization Study	3	2	2	2
Determine Monitoring Frequency	3	2	2	2
Determine Permit Requirements and Issue Permit	3	2	2	2
Annual Director Activities				
Review of Yearly Status Report	0	3	3	2
Compliance Tracking	0	3	3	2
Determination on Monitoring Frequency Reduction	0	0	3	1
Record Keeping	0	3	3	2
Respondents	3	3	3	3

Sum for Facilities and Directors

	Year 1	Year 2	Year 3	
				Annual
	2010	2011	2012	Average
Facilities	31	16	19	22
Directors	3	3	3	3
Yearly Total	34	19	22	25

[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 B.6 Responses for the ICR Approval Period Year by Year by Activity

Facilities

	Year 1	Year 2	Year 3	
				Annual
	2010	2011	2012	Average
Start-up Activities	31	0	0	10
Permit Application Activities	7	6	6	6
Source Water Body Flow Information	7	6	6	6
CWIS Velocity Information	7	6	6	6
Design and Construction Technology Plan (Impingement Only)	5	5	5	5
Design and Construction Technology Plan (Entrainment Only)	1	0	0	0
Design and Construction Technology Plan (Impingement & Entrainment)	1	1	1	1
Develop Regional Study Design and Submit to Director	2	0	0	1
Deep Water Baseline Monitoring for Source Water Baseline Biological Characterization Study	9	9	9	9
Deep Water Impingement Monitoring for Source Water Baseline Biological Characterization Study	9	9	9	9
Deep Water Entrainment Monitoring for Source Water Baseline Biological Characterization Study	3	3	3	3
Alaska Basline Monitoring for Source Water Baseline Biological Characterization Study	1	1	1	1
Alaska Entrainment Monitoring for Source Water Baseline Biological Characterization Study	1	1	1	1
Initial Sourcewater Baseline Biological Characterization Data	10	0	0	3
Sourcewater Baseline Biological Characterization Data Study Final Regional Report	0	0	2	1
Use Regional Study Results for Individual Facility Studies	0	0	19	6
Biological Monitoring for Impingement	0	0	0	0
Biological Monitoring for Entrainment	0	0	0	0
Biological Monitoring for Entrainment (Alaska)	0	0	0	0
Velocity Monitoring	0	7	13	7
Yearly Status Report Activities	0	7	13	7
Responses	94	61	94	83

Directors

	Year 1	Year 2	Year 3	
	2010	2011	2012	Average
Director Start-up Activities	3	0	0	1
Director Permit Issuance Activities				
Review Permit Application Information	7	6	6	6
Review Source Water Body Flow Information	7	6	6	6
Review CWIS Velocity Information	7	6	6	6
Review Design and Construction Technology Plan	7	6	6	6
Review Regional Monitoring Study Design and Sampling Plans	9	0	0	3
Review Regional Monitoring Study	0	0	2	1
Review Source Water Baseline Biological Characterization Study	0	0	19	6
Review Pilot Study for New Impingement & Entrainment Technology	0	0	0	0
Determine Monitoring Frequency	7	6	6	6
Determine Permit Requirements and Issue Permit	7	6	6	6
Annual Director Activities				
Review of Yearly Status Report	0	7	13	7
Compliance Tracking	0	7	13	7
Determination on Monitoring Frequency Reduction	0	0	7	2
Record Keeping	0	7	13	7
Responses	54	57	103	71

Sum for Facilities and Directors

	Year 1	Year 2	Year 3	
				Annual
	2010	2011	2012	Average
Facilities	94	61	94	83
Directors	54	57	103	71
Yearly Total	148	118	197	154

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

Facility Activities

		Year 1	Year 2	Year 3	
	Source (Exhibit)	2010	2011	2012	Annual Average
NPDES Permit Application Activities		2010	2011	2012	Avelage
Start-up Activities	B1a	1,333	0	0	444
Permit Application Activities		175	150	150	158
Source Water Body Flow Information		266	228	228	241
CWIS Velocity Information	B1d	0	0	0	0
Design and Construction Technology Plan (Impingement Only)	B1e	175	175	175	175
Design and Construction Technology Plan (Entrainment Only)	B1e	35	0	0	12
Design and Construction Technology Plan (Impingement & Entrainment)	B1e	38	38	38	38
Develop Regional Study Design and Submit to Director	B1f	156	0	0	52
Deep Water Baseline Monitoring for Source Water Baseline Biological Characterization Study	B1f	2,778	2,778	2,778	2,778
Deep Water Impingement Monitoring for Source Water Baseline Biological Characterization Study	B1f	1,296	1,296	1,296	1,296
Deep Water Entrainment Monitoring for Source Water Baseline Biological Characterization Study	B1f	432	432	432	432
Alaska Basline Monitoring for Source Water Baseline Biological Characterization Study	B1f	384	384	384	384
Alaska Entrainment Monitoring for Source Water Baseline Biological Characterization Study		192	192	192	192
Initial Sourcewater Baseline Biological Characterization Data	B1f	3,660	0	0	1,220
Sourcewater Baseline Biological Characterization Data Study Final Regional Report	B1f	0	0	576	192
Use Regional Study Results for Individual Facility Studies	B1f	0	0	3,154	1,051
NPDES Permit Application Activity Total		10,920	5,673	9,403	8,665
Annual Activities					
Biological Monitoring for Impingement		0	0	0	0
Biological Monitoring for Entrainment		0	0	0	0
Biological Monitoring for Entrainment (Alaska)		0	0	0	0
Velocity Monitoring		0	1,141	2,119	1,087
Yearly Status Report Activities	B2e	0	1,561	2,899	1,487
Annual Activity Yearly Labor Total		0	2,702	5,018	2,573
Yearly Labor Total		10,920	8,375	14,421	11,238

Exhibit B.8 Hourly Burden for the ICR Approval Period Year by Year for Directors and Federal Government

Director Activities

		Year 1	Year 2	Year 3	
	Source				Annual
	(Exhibit)	2010	2011	2012	Average
Director Start-up Activities	B3a	300	0	0	100
Director Permit Issuance Activities	B3b	1,436	984	2,919	1,780
Annual Director Activities	B3e	0	266	578	281
Yearly Total		1,736	1,250	3,497	2,161

Federal Activities

		Year 1	Year 2	Year 3	
	Source				Annual
	(Exhibit)	2010	2011	2012	Average
Federal Permit Program Oversight Activities	B4a	0	0	0	0
Yearly Total		0	0	0	0

Exhibit B.9 Costs for the ICR Approval Period Year by Year for Facilities

Facility Activities

		Year 1	Year 2	Year 3	
	Source				Annual
	(Exhibit)	2010	2011	2012	Average
NPDES Permit Application Activities					
Start-up Activities	B1a	\$65,754	\$0	\$0	\$21,918
Permit Application Activities	B1b	\$5,564	\$4,769	\$4,769	\$5,034
Source Water Body Flow Information	B1c	\$9,387	\$8,046	\$8,046	\$8,493
CWIS Velocity Information	B1d	\$0	\$0	\$0	\$0
Design and Construction Technology Plan (Impingement Only)	B1e	\$5,106	\$5,106	\$5,106	\$5,106
Design and Construction Technology Plan (Entrainment Only)	B1e	\$1,021	\$0	\$0	\$340
Design and Construction Technology Plan (Impingement & Entrainment)	B1e	\$1,162	\$1,162	\$1,162	\$1,162
Develop Regional Study Design and Submit to Director Deep Water Baseline Monitoring for Source Water Baseline Biological Characterization	B1f	\$10,015	\$0	\$0	\$3,338
Study Deep Water Impingement Monitoring for Source Water Baseline Biological Characterization	B1f	\$155,337	\$155,337	\$155,337	\$155,337
Deep Water Entrainment Monitoring for Source Water Baseline Biological Characterization Study	B1f	\$71,884	\$71,884	\$71,884	\$71,884
Study	B1f	\$23,961	\$23,961	\$23,961	\$23,961
Alaska Basline Monitoring for Source Water Baseline Biological Characterization Study	B1f	\$20,337	\$20,337	\$20,337	\$20,337
Alaska Entrainment Monitoring for Source Water Baseline Biological Characterization Study	B1f	\$10,169	\$10,169	\$10,169	\$10,169
Initial Sourcewater Baseline Biological Characterization Data	B1f	\$205,840	\$0	\$0	\$68,613
Sourcewater Baseline Biological Characterization Data Study Final Regional Report	B1f	\$0	\$0	\$36,778	\$12,259
Sourcewater Baseline Biological Characterization Data Study Final Regional Report	B1f	\$0	\$0	\$144,237	\$48,079
NPDES Permit Application Activity Total		\$585,538	\$300,772	\$481,786	\$456,032
Annual Activities					
Biological Monitoring for Impingement	B2a	\$0	\$0	\$0	\$0
Biological Monitoring for Impingement (Alaska)	B2b	\$0	\$0	\$0	\$0
Biological Monitoring for Entrainment	B2b	\$0	\$0	\$0	\$0
Biological Monitoring for Entrainment (Alaska)	B2c	\$0	\$0	\$0	\$0
Velocity Monitoring	DO.	\$0	\$39,847	\$74,001	\$37,949
Yearly Status Report Activities Annual Activity Yearly Labor Total	B2e	\$0 \$0	\$79,130 \$119,077	\$146,956 \$220,057	\$75,362
Annual Activity really Labor Total		\$U	\$118,977	\$220,957	\$113,311
Yearly Labor Total		\$585,538	\$419,749	\$702,743	\$569,343

Facility O&M

			Year 1	Year 2	Year 3	
		Source				Annual
		(Exhibit)	2010	2011	2012	Average
NPDES Application						
	Install Remote Monitoring Device for Impingement Monitoring	B.1f	\$180,000	\$0	\$0	\$60,000
	Operation & Maintenance of Remote Monitoring Device	B.1f	\$6,000	\$6,000	\$6,000	\$6,000
	Helicopter Transportation to and from Facility	B.1f	\$108,000	\$108,000	\$108,000	\$108,000
	Helicopter Transportation to and from Facility in Alaska	B.1f	\$18,000	\$18,000	\$18,000	\$18,000
	Baseline Sample Laboratory Analysis		\$312,000	\$312,000	\$312,000	\$312,000
	Entrainment Sample Laboratory Analysis	B.1f	\$12,480	\$12,480	\$12,480	\$12,480
	Other Direct Costs	B.1a-g	\$3,825	\$1,950	\$141,290	\$49,022
Annual						
	Operation & Maintenance of Remote Monitoring Device	B.2a	\$0	\$0	\$0	\$0
	Helicopter Transportation to and from Facility	B.2c	\$0	\$0	\$0	\$0
	Helicopter Transportation to and from Facility in Alaska	B.2d	\$0	\$0	\$0	\$0
	Laboratory Identifies & Enumerates Entrained Marine Biota	B.2c&d	\$0	\$0	\$0	\$0
	Other Direct Costs	B.2a-g	\$0	\$8,890	\$16,510	\$8,467
	Equipment Cost Subtotal		\$312,000	\$132,000	\$132,000	\$192,000
	Laboratory Analysis Subtotal		\$324,480	\$324,480	\$324,480	\$324,480
	Other Direct Costs Subtotal		\$3,825	\$10,840	\$157,800	\$57,488
	Yearly O&M Total		\$640,305	\$467,320	\$614,280	\$573,968

Exhibit B.10 Costs for the ICR Approval Period Year by Year for Directors and Federal Government

Director Activities

		Year 1	Year 2	Year 3	
	Source				Annual
	(Exhibit)	2010	2011	2012	Average
Director Start-up Activities	B3a	\$11,682	\$0	\$0	\$3,894
Director Permit Issuance Activities	B3b	\$58,319	\$38,854	\$124,517	\$73,897
Annual Director Activities	B3e	\$0	\$9,787	\$21,348	\$10,378
Yearly Total		\$70,001	\$48,641	\$145,864	\$88,169

Director O&M

		Year 1	Year 2	Year 3	
	Source	0010	0011	0010	Annual
	(Exhibit)	2010	2011	2012	Average
Start-Up & NPDES Application					
Other Direct Costs	B3a-b	\$2,320	\$1,860	\$1,860	\$2,013
Annual					
Other Direct Costs	B3c-d	\$0	\$210	\$390	\$200
Yearly O&M Cost Total		\$2,320	\$2,070	\$2,250	\$2,213

Federal Labor Activities

		Year 1	Year 2	Year 3	
	Source				Annual
	(Exhibit)	2010	2011	2012	Average
Federal Permit Program Oversight Activities	B4a	0	0	0	\$0
Yearly Total		\$0	\$0	\$0	\$0

Federal O&M

		Year 1	Year 2	Year 3	
	Source				Annual
	(Exhibit)	2010	2011	2012	Average
Federal Permit Program Oversight ODCs	B4a	\$0	\$0	\$0	\$0
Yearly Total		\$0	\$0	\$0	\$0

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

Facilities

		Year 1	Year 2	Year 3		Three Year
	Source (Exhibit)	2010	2011	2012	Annual Average	Total ¹
Burden (hours)	B7	10,920	8,375	14,421	11,238	33,715
Respondents (number)	В5	31	16	19	22	31
Responses (number)	B6	94	61	94	83	249
Costs (labor)	B9	\$585,538	\$419,749	\$702,743	\$569,343	\$1,708,030
Costs (Equipment)	B9	\$312,000	\$132,000	\$132,000	\$192,000	\$576,000
Costs (Lab Analysis)	B9	\$324,480	\$324,480	\$324,480	\$324,480	\$973,440
Costs (Other Direct Costs)	В9	\$3,825	\$10,840	\$157,800	\$57,488	\$172,465
Total Costs		\$1,225,843	\$887,069	\$1,317,023	\$1,143,312	\$3,429,935

[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 facilites that must perform one or more activities during the ICR approval period.

Directors (EPA Region)

		Year 1	Year 2	Year 3		Three Year
	Source (Exhibit)	2010	2011	2012	Annual Average	Total ¹
Burden (hours)	B8	1,736	1,250	3,497	2,161	6,483
Respondents (number)	B5	3	3	3	3	3
Responses (number)	B6	54	57	103	71	214
Costs(labor)	B10	\$70,001	\$48,641	\$145,864	\$88,169	\$264,506
Costs (Other Direct Costs)	B10	\$2,320	\$2,070	\$2,250	\$2,213	\$6,640
Total Costs		\$72,321	\$50,711	\$148,114	\$90,382	\$271,146

[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

		Year 1	Year 2	Year 3		Three Year
	Source (Exhibit)	2010	2011	2012	Annual Average	Total
Burden (hours)	B8	-	-	-	-	-
Costs(labor)	B10	\$0	\$0	\$0	\$0	\$0
Costs (O&M)	B10	\$0	\$0	\$0	\$0	\$0
Total Costs		\$0	\$0	\$0	\$0	\$0

Totals for Respondents (Facilities and Directors)*

	Annual	Three Year
	Average	Total
Total Respondent Burden (hours)	13,399	40,198
Total Respondents (number)	25	34
Total Respondent Labor Costs	\$657,512	\$1,972,536
Total Respondent Capital and O&M Costs	\$576,182	\$1,728,545
Total Respondent Cost for All Activities	\$1,233,694	\$3,701,081

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

Exhibit B.12 Facility Cost and Burden Estimates for NPDES Permit Renewal Application Activities

Exhibit B.12a Start-up Activities

Start-up Activities													
	Facility	Junior	CAD	Contracte	d Biologist	Statistician	Biological	Clerical	Burden Per	Labor Cost	Capital	O&M Cost	Total Cost
		Accumed Leaded Hourly Pate								per Facility	('oct nor		Per Facility
	\$73	\$34	\$30	\$91	\$53	\$61	\$38	\$19	Facility	per raciiity	Facility	per raciiity	Fei Facility
Activity		Level of Effort (hrs)							В	С	D	E	C+D+E
Read and Understand Rule	4	4	0	0	0	0	0	0	8	\$429	\$0	\$0	
Mobilization/Planning	1	2	0	0	0	0	0	0	3	\$141	\$0	\$0	
Training	1	1	0	0	0	0	0	0	2	\$107	\$0	\$0	
Other Direct Costs	0	0	0	0	0	0	0	0	0	\$0		\$15	
Totals	6	7	0	0	0	0	0	0	13	\$677	\$0	\$15	\$692

Exhibit B.12b

Permit Application Activities													
	Facility	Junior	CAD	Contracted	Biologist	Statistician	Biological	Clerical	Burdon Dor	Labor Cost	Capital	ORM Cost	Total Cost
		Assumed Loaded Hourly Pate								per Facility	('oct nor		Per Facility
	\$73	\$34	\$30	\$91	\$53	\$61	\$38	\$19	гаспіту	рег гаспіту	Facility	рег гаспиу	Per raciiity
Activity				Level of E	ffort (hrs)				В	С	D	E	C+D+E
Statement of Compliance Option Selected	0	0	0	0	0	0	0	0	0	\$0	\$0	\$0	
Source Water Physical Data	0	1	2	0	0	0	0	0	3	\$95	\$0	\$0	
Submit Materials for Review by Permitting Authority	0	0	0	0	0	0	0	2	2	\$37	\$0	\$0	
Recordkeeping	0	0	0	0	0	0	0	1	1	\$19	\$0	\$0	
Other Direct Costs	0	0	0	0	0	0	0	0	0	\$0	\$0	\$40	
Totals									6	\$150	\$0	\$40	\$190

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 B.12c Source Water Body Flow Information

Source water Body Flow Information	Facility	Junior	CAD	Contracted	Biologist	Statistician	Biological	Clerical	Durdon Dor	Labor Cost	Capital	OPM Cost	Total Cost
		Accumed Loaded Hourly Pate								per Facility	COSTINE		Per Facility
	\$73	\$34	\$30	\$91	\$53	\$61	\$38	\$19	Facility	per raciiity	Facility	per raciiity	Fel Facility
Activity				Level of E	ffort (hrs)				В	С	D	E	C+D+E
Gather Information Characterizing Flow	0	2	0	0	0	0	0	0	2	\$68	\$0	\$0	
Perform Engineering Calculations	1	4	1	0	0	0	0	0	6	\$240	\$0	\$0	
Submit Data and Analysis for Review	0	0	0	0	0	0	0	1	1	\$19	\$0	\$0	
Recordkeeping	0	1	0	0	0	0	0	1	2	\$53	\$0	\$0	
Other Direct Costs	0	0	0	0	0	0	0	0	0	\$0	\$0	\$23	
Totals									11	\$379	\$0	\$23	\$401

Exhibit B.12d Design and Construction Technology Plan

Design and Construction Technology Plan	Facility	Junior	CAD	Contracted	Riologist	Statistician	Biological	Clerical	1		Capital		
	Facility Junior CAD Contracted Biologist Statistician Biological Clerical Assumed Loaded Hourly Rate							Labor Cost	Cost ner		Total Cost		
	\$73	\$34	\$30	\$91	\$53	\$61	\$38	\$19	Facility	per Facility	Facility	per Facility	Per Facility
Activity				Level of E	ffort (hrs)				В	С	D	E	C+D+E
Delineate Hydraulic Zone of Influence	1	1		0	0	0	0	0	3	\$138		\$0	
Perform Engineering Calculations (Impingement)	1	1	() 0	0	0	0	0	2	\$107		\$0	
Perform Engineering Calculations (Entrainment)	1	1	() 0	0	0	0	0	2	\$107		\$0	
Document that Technologies Are Optimal	0	4	() 0	0	0	0	3	7	\$192		\$0	
Submit Data and Analysis for Review	0	0	() 0	0	0	0	3	3	\$56		\$0	
Recordkeeping	1	1	() 0	0	0	0	3	5	\$163		\$0	
Other Direct Costs	0	0	() 0	0	0	0	0	0	\$0		\$40	
Totals									22	\$762		\$40	\$802

ce Water Baseline Biological Characterization Study	Facility	Junior	CAD	Contracted	Biologist 3	Statistician	Biological	Clerical	Avg.	Avg. Labor	Capital	O&M Cost	Total Cos
	Assumed Loaded Hourly Rate B				Burden Per		Cost por						
	\$73	\$34	\$30	\$91	\$53	\$61	\$38	\$19	Facility	Facility for	Facility	per Facility	
ty		•		Level of E	ffort (hrs)		•		В	С	D	E	C+D+E
Develop Regional Study Design and Submit to Director	0	0	0	14	29	2	0	1	46	\$2,951	\$0	\$0	
Develop and Submit Source Water Sampling Plans for Facilities in Regional Study	0	0	0	-	10	2	0	1	18	\$1,125	\$0	\$0	1
Revise Regional Study Plans Based on Director Review	0	0	0	5	14	0	0	0	19	\$1,197	\$0	\$0	1
Implement Baseline Deep Water Sampling	2	2	0	96	173	60	173	4	510	\$28,413	\$0	\$0	1
Install Remote Monitoring Device for Impingement Monitoring	0	0	0	0	0	0	0	0	0	\$0	\$0	\$0	1
Operation & Maintenance of Remote Monitoring Device	0	0	0	0	0	0	0	0	0	\$0	\$0	\$2,000	i i
Impingement Deep Water Monitoring	1	1	0	48	86	30	86	2	254	\$14,161	\$0	\$0	1
Entrainment Deep Water Monitoring	1	1	0	48	86	30	86	2	254	\$14,161	\$0	\$0	1
Implement Baseline Sampling Alaska	2	2	0	96	259	60	259	4	682	\$36,230	\$0	\$0	1
Impingement Monitoring Alaska	1	1	0	48	130	30	130	2	342	\$18,160	\$0	\$0	1
Entrainment Monitoring Alaska	1	1	0	48	130	30	130	2	342	\$18,160	\$0	\$0	1
Helicopter Transportation to and from Facility	0	0	0	0	0	0	0	0	0	\$0	\$0	\$21,600	1
Helicopter Transportation to and from Facility in Alaska	0	0	0	0	0	0	0	0	0	\$0	\$0	\$32,400	1
Baseline Sample Laboratory Analysis	0	0	0	0	0	0	0	0	0	\$0	\$0	\$56,160	1
Entrainment Sample Laboratory Analysis	0	0	0	0	0	0	0	0	0	\$0	\$0	\$5,616	1
Profile of Source Water Biota	0	0	0	19	36	0	12	2	69	\$4,127	\$0	\$0	1
Identification of Critical Species	0	0	0	12	24	0	0	1	37	\$2,381	\$0	\$0	1
Description of Additional Stresses	0	0	0	10	18	0	6	1	35	\$2,109	\$0	\$0	1
Gather Tidal Excursion Information	0	10	0	0	0	0	0	1	11	\$359	\$0	\$0	1
Write Regional Study based on Results and Submit to Director	0	0	0	48	96	5	0	2	151	\$9,794	\$0	\$0	1
Revise Regional Study Based on Director Review	0	0	0	5	14	0	0	0	19	\$1,197	\$0	\$0	1
Use Regional Study Results for Individual Facility Studies	12	24	0	1	2	0	0	0	39	\$1,891	\$0	\$0	1
Recordkeeping	1	2	0	10	22	5	9	1	50	\$2,882	\$0	\$0	í –
Finalize Individual Study based on Director review	2	7	0	0	0	0	0	2	11	\$421	\$0	\$0	1
Other Direct Costs Deepwater	0	0	0	0	0	0	0	0	0	\$0	\$0	\$7,960	i i
Other Direct Costs Alaska	0	0	0	0	0	0	0	0	0	\$0	\$0	\$11,950	i i
Gulf of Mexico Totals									1,523	87,167	-	93,336	\$180,
Alaska Totals									1,407	\$77,660	\$0	\$106,126	\$183.

Exhibit B.13 Director Burden and Cost Estimates for Permit Renewal

Exhibit B.13

Director Permit Reissuance Activities

	Senior Technical	Junior Technical	Clerical	Burden Per	Labor Cost	ODCs lump	Total Cost
	Assumed Loaded Hourly Rate			Permit per Permit		sum*	Per Permit
	\$50	\$32	\$24				
Activity	Level of Effort (hrs)			В	С	D	C+D
Review Source Water Physical Data	1	2	0	3	\$113		
Review CWIS Data	2	5	0	7	\$259		
Review Source Water Body Flow Information	1	2	0	3	\$113		
Review CWIS Velocity Information	5	5	0	10	\$407		
Review Design and Construction Technology Plan	7	2	0	9	\$410		
Review Source Water Baseline Biological Characterization Study	12	8	0	20	\$849		
Determine Monitoring Frequency	1	2	0	3	\$113		
Determine Record keeping and Reporting Frequency	1	2	0	3	\$113		
Considering Public Comments	5	5	0	10	\$407		
Issuing Permit	0	2	0	2	\$64		
Permit Record Keeping	0	0	1	1	\$24		
Totals	35	35	1	71	2873	\$310	0