

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

**Exhibit A.1a
Start-up Activities**

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | | Total Burden (hrs.) | Total Initial Cost | | |
|--------------------------|--------------------------|----------|----------|-----------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|---|----------------|---------------|-------------|----------------|---------------------|--------------------|-----|-----------|
| | | | | | Assumed Loaded Hourly Rate \$ | | | | | | | | Burden (hrs) | Labor Cost | Capital Costs | O&M Costs | Total Costs** | | | | |
| | Year 1 | Year 2 | Year 3 | Total | \$99 | \$41 | \$39 | \$125 | \$64 | \$80 | \$45 | \$23 | | | | | | | | B | C |
| | A | | | | Level of Effort (hrs) | | | | | | | | B | C | D | E | C+D+E | | | A*B | A*(C+D+E) |
| Read and Understand Rule | 7 | 7 | 4 | 18 | 12 | 12 | 0 | 0 | 0 | 0 | 0 | 1 | 25 | \$1,706 | \$0 | \$0 | | 450 | \$30,703 | | |
| Mobilization/Planning | 7 | 7 | 4 | 18 | 4 | 8 | 0 | 0 | 0 | 0 | 0 | 1 | 13 | \$750 | \$0 | \$0 | | 234 | \$13,495 | | |
| Training | 7 | 7 | 4 | 18 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | \$304 | \$0 | \$0 | | 90 | \$5,467 | | |
| Other Direct Costs | 7 | 7 | 4 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$55 | | - | \$990 | | |
| Totals | 7 | 7 | 4 | 18 | | | | | | | | | 43 | \$2,759 | \$0 | \$55 | \$2,814 | 774 | \$50,654 | | |

**Exhibit A.1b
Permit Application Activities**

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | | Total Burden (hrs.) | Total Initial Cost | | |
|--|--------------------------|----------|----------|-----------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|---|----------------|---------------|--------------|----------------|---------------------|--------------------|-----|-----------|
| | | | | | Assumed Loaded Hourly Rate \$ | | | | | | | | Burden (hrs) | Labor Cost | Capital Costs | O&M Costs | Total Costs** | | | | |
| | Year 1 | Year 2 | Year 3 | Total | \$99 | \$41 | \$39 | \$125 | \$64 | \$80 | \$45 | \$23 | | | | | | | | B | C |
| | A | | | | Level of Effort (hrs) | | | | | | | | B | C | D | E | C+D+E | | | A*B | A*(C+D+E) |
| Detailed Source Water Body Characterization | 7 | 7 | 4 | 18 | 2 | 16 | 40 | 0 | 0 | 0 | 0 | 0 | 58 | \$2,400 | \$0 | \$0 | | 1,044 | \$43,200 | | |
| Description of CWIS Configuration and Location | 7 | 7 | 4 | 18 | 2 | 5 | 8 | 0 | 0 | 0 | 0 | 0 | 15 | \$713 | \$0 | \$0 | | 270 | \$12,827 | | |
| Facility Water Balance Diagram | 7 | 7 | 4 | 18 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | \$179 | \$0 | \$0 | | 54 | \$3,217 | | |
| Operational Characteristics Narrative | 7 | 7 | 4 | 18 | 16 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 56 | \$3,237 | \$0 | \$0 | | 1,008 | \$58,262 | | |
| Submit Materials for Review by State | 7 | 7 | 4 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | \$140 | \$0 | \$0 | | 108 | \$2,516 | | |
| Recordkeeping | 7 | 7 | 4 | 18 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 2 | 8 | \$404 | \$0 | \$0 | | 144 | \$7,272 | | |
| Other Direct Costs | 7 | 7 | 4 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$540 | | - | \$9,720 | | |
| Totals | 7 | 7 | 4 | 18 | | | | | | | | | 146 | \$7,072 | \$0 | \$540 | \$7,612 | 2,628 | \$137,014 | | |

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
Source Waterbody Flow Information**

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | | Total Burden (hrs.) | Total Initial Cost | | |
|--|--------------------------|----------|----------|-----------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|---|----------------|---------------|--------------|----------------|---------------------|--------------------|-----|-----------|
| | | | | | Assumed Loaded Hourly Rate \$ | | | | | | | | Burden (hrs) | Labor Cost | Capital Costs | O&M Costs | Total Costs** | | | | |
| | Year 1 | Year 2 | Year 3 | Total | \$99 | \$41 | \$39 | \$125 | \$64 | \$80 | \$45 | \$23 | | | | | | | | B | C |
| | A | | | | Level of Effort (hrs) | | | | | | | | B | C | D | E | C+D+E | | | A*B | A*(C+D+E) |
| Gather Information Characterizing Flow | 7 | 7 | 4 | 18 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 32 | \$1,325 | \$0 | \$0 | | 576 | \$23,846 | | |
| Perform Engineering Calculations | 7 | 7 | 4 | 18 | 8 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 40 | \$2,115 | \$0 | \$0 | | 720 | \$38,074 | | |
| Submit Data and Analysis for Review | 7 | 7 | 4 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 16 | \$373 | \$0 | \$0 | | 288 | \$6,710 | | |
| Recordkeeping | 7 | 7 | 4 | 18 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 8 | 16 | \$518 | \$0 | \$0 | | 288 | \$9,317 | | |
| Other Direct Costs | 7 | 7 | 4 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$110 | | - | \$1,980 | | |
| Totals | 7 | 7 | 4 | 18 | | | | | | | | | 104 | \$4,330 | \$0 | \$110 | \$4,440 | 1,872 | \$79,927 | | |

Exhibit A.1d

Source Water Baseline Biological Characterization Data

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | | Total Burden (hrs.) | Total Initial Cost |
|--|-------------------------------|----------|----------|-----------|-----------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|---|-----------------|---------------|--------------|-----------------|---------------------|--------------------|
| | Assumed Loaded Hourly Rate \$ | | | | \$99 | \$41 | \$39 | \$125 | \$64 | \$80 | \$45 | \$23 | Burden (hrs) | Labor Cost | Capital Costs | O&M Costs | Total Costs** | A*B | A*(C+D+E) |
| | Year 1 | Year 2 | Year 3 | Total | | | | | | | | | | | | | | | |
| | A | | | | Level of Effort (hrs) | | | | | B | C | D | E | C+D+E | A*B | A*(C+D+E) | | | |
| Identify Available Data and Document Efforts | 7 | 7 | 4 | 18 | 40 | 80 | 0 | 0 | 0 | 0 | 0 | 8 | 128 | \$7,450 | \$0 | \$0 | | 2,304 | \$134,107 |
| Compile and Analyze Existing Data | 7 | 7 | 4 | 18 | 32 | 60 | 20 | 0 | 0 | 0 | 0 | 4 | 116 | \$6,509 | \$0 | \$0 | | 2,088 | \$117,158 |
| Submit Data for Review by State | 7 | 7 | 4 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | \$186 | \$0 | \$0 | | 144 | \$3,355 |
| Recordkeeping | 7 | 7 | 4 | 18 | 2 | 4 | 1 | 0 | 0 | 0 | 0 | 6 | 13 | \$542 | \$0 | \$0 | | 234 | \$9,747 |
| Other Direct Costs | 7 | 7 | 4 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$810 | | - | \$14,580 |
| Totals | 7 | 7 | 4 | 18 | | | | | | | | | 265 | \$14,687 | \$0 | \$810 | \$15,497 | 4,770 | \$278,948 |

Exhibit A.1e

CWIS Flow Reduction Requirements (Track 1)

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | | Total Burden (hrs.) | Total Initial Cost |
|--|-------------------------------|----------|----------|-----------|-----------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|---|----------------|---------------|--------------|----------------|---------------------|--------------------|
| | Assumed Loaded Hourly Rate \$ | | | | \$99 | \$41 | \$39 | \$125 | \$64 | \$80 | \$45 | \$23 | Burden (hrs) | Labor Cost | Capital Costs | O&M Costs | Total Costs** | A*B | A*(C+D+E) |
| | Year 1 | Year 2 | Year 3 | Total | | | | | | | | | | | | | | | |
| | A | | | | Level of Effort (hrs) | | | | | B | C | D | E | C+D+E | A*B | A*(C+D+E) | | | |
| Develop Narrative | 5 | 5 | 3 | 13 | 8 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | \$1,453 | \$0 | \$0 | | 312 | \$18,886 |
| Perform Engineering Calculations | 5 | 5 | 3 | 13 | 4 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | \$892 | \$0 | \$0 | | 208 | \$11,596 |
| Document Minimization of Blow Down and Flows Not | 5 | 5 | 3 | 13 | 0 | 40 | 0 | 0 | 0 | 0 | 0 | 6 | 46 | \$1,796 | \$0 | \$0 | | 598 | \$23,345 |
| Submit Data and Analysis for Review | 5 | 5 | 3 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | \$186 | \$0 | \$0 | | 104 | \$2,423 |
| Recordkeeping | 5 | 5 | 3 | 13 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 8 | 14 | \$550 | \$0 | \$0 | | 182 | \$7,145 |
| Other Direct Costs | 5 | 5 | 3 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$435 | | - | \$5,655 |
| Totals | 5 | 5 | 3 | 13 | | | | | | | | | 108 | \$4,877 | \$0 | \$435 | \$5,312 | 1,404 | \$69,051 |

Exhibit A.1f

CWIS Velocity Requirements (Track 1)

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | | Total Burden (hrs.) | Total Initial Cost |
|-------------------------------------|-------------------------------|----------|----------|-----------|-----------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|---|----------------|---------------|----------------|----------------|---------------------|--------------------|
| | Assumed Loaded Hourly Rate \$ | | | | \$99 | \$41 | \$39 | \$125 | \$64 | \$80 | \$45 | \$23 | Burden (hrs) | Labor Cost | Capital Costs | O&M Costs | Total Costs** | A*B | A*(C+D+E) |
| | Year 1 | Year 2 | Year 3 | Total | | | | | | | | | | | | | | | |
| | A | | | | Level of Effort (hrs) | | | | | B | C | D | E | C+D+E | A*B | A*(C+D+E) | | | |
| Develop Narrative | 5 | 5 | 3 | 13 | 16 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 48 | \$2,906 | \$0 | \$0 | | 624 | \$37,773 |
| Perform Engineering Calculations | 5 | 5 | 3 | 13 | 8 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 40 | \$2,115 | \$0 | \$0 | | 520 | \$27,498 |
| Submit Data and Analysis for Review | 5 | 5 | 3 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 16 | \$373 | \$0 | \$0 | | 208 | \$4,846 |
| Revise Based on State review | 5 | 5 | 3 | 13 | 4 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | \$1,058 | \$0 | \$0 | | 260 | \$13,749 |
| Recordkeeping | 5 | 5 | 3 | 13 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 8 | 14 | \$550 | \$0 | \$0 | | 182 | \$7,145 |
| Other Direct Costs | 5 | 5 | 3 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$1,080 | | - | \$14,040 |
| Totals | 5 | 5 | 3 | 13 | | | | | | | | | 138 | \$7,001 | \$0 | \$1,080 | \$8,081 | 1,794 | \$105,050 |

**Exhibit A.1g
Design and Construction Technology Plan (Track 1)**

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | | Total Burden (hrs.) | Total Initial Cost |
|---------------------------------------|--------------------------|----------|----------|-----------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|---|----------------|---------------|-------------|----------------|---------------------|--------------------|
| | | | | | Assumed Loaded Hourly Rate \$ | | | | | | | | Burden (hrs) | Labor Cost | Capital Costs | O&M Costs | Total Costs** | | |
| | Year 1 | Year 2 | Year 3 | Total | \$99 | \$41 | \$39 | \$125 | \$64 | \$80 | \$45 | \$23 | | | | | | B | C |
| | A | | | | Level of Effort (hrs) | | | | | | | | | | | | | A*B | A*(C+D+E) |
| Delineate Hydraulic Zone of Influence | 5 | 5 | 3 | 13 | 2 | 5 | 8 | 0 | 0 | 0 | 0 | 0 | 15 | \$713 | \$0 | \$0 | | 195 | \$9,264 |
| Develop Narrative Description | 5 | 5 | 3 | 13 | 16 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 48 | \$2,906 | \$0 | \$0 | | 624 | \$37,773 |
| Perform Engineering Calculations | 5 | 5 | 3 | 13 | 6 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | \$1,586 | \$0 | \$0 | | 390 | \$20,623 |
| Submit Data and Analysis for Review | 5 | 5 | 3 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | \$140 | \$0 | \$0 | | 78 | \$1,817 |
| Recordkeeping | 5 | 5 | 3 | 13 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 6 | 9 | \$321 | \$0 | \$0 | | 117 | \$4,178 |
| Other Direct Costs | 5 | 5 | 3 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$55 | | - | \$715 |
| Totals | 5 | 5 | 3 | 13 | | | | | | | | | 108 | \$5,666 | \$0 | \$55 | \$5,721 | 1,404 | \$74,370 |

**Exhibit A.1h
Comprehensive Demonstration Study Plan (Track 2)**

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | | Total Burden (hrs.) | Total Initial Cost |
|--|--------------------------|----------|----------|----------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|---|-----------------|---------------|--------------|-----------------|---------------------|--------------------|
| | | | | | Assumed Loaded Hourly Rate \$ | | | | | | | | Burden (hrs) | Labor Cost | Capital Costs | O&M Costs | Total Costs** | | |
| | Year 1 | Year 2 | Year 3 | Total | \$99 | \$41 | \$39 | \$125 | \$64 | \$80 | \$45 | \$23 | | | | | | B | C |
| | A | | | | Level of Effort (hrs) | | | | | | | | | | | | | A*B | A*(C+D+E) |
| Description of Historical Studies that will be Used | 2 | 2 | 1 | 5 | 20 | 40 | 0 | 0 | 0 | 0 | 0 | 2 | 62 | \$3,679 | \$0 | \$0 | | 310 | \$18,393 |
| Description of Proposed and/or Implemented Technologies | 2 | 2 | 1 | 5 | 8 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | \$1,618 | \$0 | \$0 | | 140 | \$8,092 |
| Develop Baseline Biological Characterization Sampling Plan | 2 | 2 | 1 | 5 | 40 | 60 | 8 | 8 | 0 | 0 | 4 | 4 | 120 | \$7,840 | \$0 | \$0 | | 600 | \$39,202 |
| Submit Data and Plans for Review | 2 | 2 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 12 | \$280 | \$0 | \$0 | | 60 | \$1,398 |
| Revise Based on State Review | 2 | 2 | 1 | 5 | 8 | 16 | 4 | 0 | 0 | 0 | 0 | 4 | 32 | \$1,700 | \$0 | \$0 | | 160 | \$8,500 |
| Recordkeeping | 2 | 2 | 1 | 5 | 2 | 4 | 2 | 1 | 0 | 0 | 0 | 8 | 17 | \$752 | \$0 | \$0 | | 85 | \$3,760 |
| Other Direct Costs | 2 | 2 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$810 | | - | \$4,050 |
| Totals | 2 | 2 | 1 | 5 | | | | | | | | | 271 | \$15,869 | \$0 | \$810 | \$16,679 | 1,355 | \$83,395 |

**Exhibit A.1i
Source Water Baseline Biological Characterization Study (Track 2)**

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | | Total Burden (hrs.) | Total Initial Cost |
|---|--------------------------|--------|--------|----------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|---|------------------|---------------|------------------|------------------|---------------------|--------------------|
| | | | | | Assumed Loaded Hourly Rate \$ | | | | | | | | Burden (hrs) | Labor Cost | Capital Costs | O&M Costs | Total Costs** | | |
| | Year 1 | Year 2 | Year 3 | Total | \$99 | \$41 | \$39 | \$125 | \$64 | \$80 | \$45 | \$23 | | | | | | B | C |
| | A | | | | Level of Effort (hrs) | | | | | | | | | | | | | A*B | A*(C+D+E) |
| Implement Freshwater Sampling | 5 | 3 | 3 | 8 | 6 | 52 | 0 | 120 | 2080 | 67 | 2080 | 34 | 4439 | \$249,183 | \$0 | \$0 | | 24,415 | \$1,370,507 |
| Other Direct Costs for Implement Freshwater Sampling | 5 | 3 | 3 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$5,600 | | - | \$30,800 |
| Implement Estuary Sampling | 1 | 1 | 1 | 1 | 10 | 101 | 0 | 160 | 4095 | 100 | 4095 | 50 | 8611 | \$477,847 | \$0 | \$0 | | 8,611 | \$477,847 |
| Other Direct Costs for Implement Estuary Sampling | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$14,100 | | - | \$14,100 |
| Biological Study Laboratory Analysis (Freshwater) | 5 | 3 | 3 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$84,400 | | - | \$464,200 |
| Biological Study Laboratory Analysis (Estuary) | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$164,600 | | - | \$164,600 |
| Profile of Source Water Biota | 2 | 2 | 1 | 5 | 32 | 20 | 0 | 32 | 60 | 0 | 20 | 8 | 172 | \$12,903 | \$0 | \$0 | | 860 | \$64,514 |
| Identification of Critical Species | 2 | 2 | 1 | 5 | 32 | 20 | 0 | 20 | 40 | 0 | 0 | 3 | 115 | \$9,116 | \$0 | \$0 | | 575 | \$45,578 |
| Description of Additional Stresses | 2 | 2 | 1 | 5 | 16 | 10 | 0 | 16 | 30 | 0 | 10 | 4 | 86 | \$6,451 | \$0 | \$0 | | 430 | \$32,257 |
| Write Study based on Results and Submit for Review by | 4 | 1 | 3 | 8 | 80 | 160 | 0 | 16 | 8 | 8 | 0 | 8 | 280 | \$17,867 | \$0 | \$0 | | 2,240 | \$142,938 |
| Recordkeeping | 4 | 1 | 3 | 8 | 6 | 12 | 0 | 6 | 0 | 0 | 0 | 24 | 48 | \$2,401 | \$0 | \$0 | | 384 | \$19,210 |
| Finalize study based on State review | 4 | 1 | 3 | 8 | 16 | 32 | 0 | 0 | 0 | 0 | 0 | 8 | 56 | \$3,092 | \$0 | \$0 | | 448 | \$24,736 |
| Freshwater Totals | | | | 8 | | | | | | | | | 5,196 | \$301,013 | \$0 | \$90,000 | \$391,013 | 28,595 | \$2,142,908 |
| Marine Totals | | | | 1 | | | | | | | | | 9,368 | \$529,677 | \$0 | \$178,700 | \$708,377 | 9,368 | \$708,377 |

Exhibit A.1j

Evaluation of Potential CWIS Effects (Track 2)

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | | Total Burden (hrs.) | Total Initial Cost |
|--|--------------------------|----------|----------|----------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|---|------------------|------------------|-----------------|------------------|---------------------|--------------------|
| | | | | | Assumed Loaded Hourly Rate \$ | | | | | | | | Burden (hrs) | Labor Cost | Capital Costs | O&M Costs | Total Costs** | | |
| | Year 1 | Year 2 | Year 3 | Total | \$99 | \$41 | \$39 | \$125 | \$64 | \$80 | \$45 | \$23 | | | | | | B | C |
| | A | | | | Level of Effort (hrs) | | | | | | | | B | C | D | E | C+D+E | A*B | A*(C+D+E) |
| Calculate Reduction in Impingement Mortality and Entrainment | 4 | 1 | 3 | 8 | 80 | 80 | 8 | 0 | 0 | 0 | 0 | 12 | 180 | \$11,804 | \$0 | \$0 | | 1,440 | \$94,429 |
| Perform Engineering Calculations for Efficacy Projections | 4 | 1 | 3 | 8 | 40 | 32 | 0 | 0 | 0 | 0 | 0 | 4 | 76 | \$5,370 | \$0 | \$0 | | 608 | \$42,960 |
| Perform Impingement Pilot Study (Freshwater) | 4 | 1 | 2 | 7 | 16 | 25 | 0 | 80 | 240 | 40 | 240 | 20 | 661 | \$42,290 | \$0 | \$0 | | 4,627 | \$296,029 |
| Perform Entrainment Pilot Study (Freshwater) | 4 | 1 | 2 | 7 | 16 | 25 | 0 | 80 | 180 | 40 | 250 | 20 | 611 | \$38,914 | \$0 | \$0 | | 4,277 | \$272,397 |
| Pilot Study Entrainment Laboratory Analysis (Freshwater) | 4 | 1 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$6,500 | | - | \$45,500 |
| Perform Impingement Pilot Study (Estuary) | 0 | 0 | 1 | 1 | 16 | 33 | 0 | 80 | 312 | 52 | 312 | 26 | 831 | \$51,493 | \$0 | \$0 | | 831 | \$51,493 |
| Perform Entrainment Pilot Study (Estuary) | 0 | 0 | 1 | 1 | 16 | 33 | 0 | 80 | 234 | 52 | 325 | 26 | 766 | \$47,104 | \$0 | \$0 | | 766 | \$47,104 |
| Pilot Study Entrainment Laboratory Analysis (Estuary) | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$8,400 | | - | \$8,400 |
| Purchase & Installation of Pilot Study Technology | 4 | 1 | 3 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$285,000 | \$0 | | - | \$2,280,000 |
| Operation & Maintenance of Pilot Technology | 4 | 1 | 3 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$32,500 | | - | \$260,000 |
| Submit Data and Analysis for Review | 4 | 1 | 3 | 8 | 8 | 10 | 0 | 8 | 6 | 4 | 0 | 16 | 52 | \$3,281 | \$0 | \$0 | | 416 | \$26,248 |
| Recordkeeping | 4 | 1 | 3 | 8 | 4 | 8 | 0 | 4 | 8 | 2 | 0 | 20 | 46 | \$2,363 | \$0 | \$0 | | 368 | \$18,902 |
| Other Direct Costs | 4 | 1 | 3 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$1,100 | | - | \$8,800 |
| Freshwater Totals | 4 | 1 | 2 | 7 | | | | | | | | | 1626 | \$104,021 | \$285,000 | \$40,100 | \$429,121 | 11,382 | \$3,003,847 |
| Marine Totals | 0 | 0 | 1 | 1 | | | | | | | | | 1,950 | \$121,414 | \$285,000 | \$42,000 | \$448,414 | 1,950 | \$448,414 |

Exhibit A.1k

Verification Monitoring Plan (Track 2)

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | | Total Burden (hrs.) | Total Initial Cost |
|--------------------------------------|--------------------------|----------|----------|----------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|---|----------------|---------------|--------------|----------------|---------------------|--------------------|
| | | | | | Assumed Loaded Hourly Rate \$ | | | | | | | | Burden (hrs) | Labor Cost | Capital Costs | O&M Costs | Total Costs** | | |
| | Year 1 | Year 2 | Year 3 | Total | \$99 | \$41 | \$39 | \$125 | \$64 | \$80 | \$45 | \$23 | | | | | | B | C |
| | A | | | | Level of Effort (hrs) | | | | | | | | B | C | D | E | C+D+E | A*B | A*(C+D+E) |
| Develop Verification Monitoring Plan | 2 | 2 | 1 | 5 | 40 | 60 | 8 | 0 | 0 | 0 | 0 | 4 | 112 | \$6,837 | \$0 | \$0 | | 560 | \$34,186 |
| Submit Data and Analysis for Review | 2 | 2 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | \$47 | \$0 | \$0 | | 10 | \$233 |
| Revise Based on State Review | 2 | 2 | 1 | 5 | 2 | 4 | 1 | 0 | 0 | 0 | 0 | 1 | 8 | \$425 | \$0 | \$0 | | 40 | \$2,125 |
| Recordkeeping | 2 | 2 | 1 | 5 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 2 | 6 | \$351 | \$0 | \$0 | | 30 | \$1,754 |
| Other Direct Costs | 2 | 2 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$435 | | - | \$2,175 |
| Totals | 2 | 2 | 1 | 5 | | | | | | | | | 128 | \$7,660 | \$0 | \$435 | \$8,095 | 640 | \$40,473 |

Exhibit A.1l

Remote Monitoring

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | | Total Burden (hrs.) | Total Initial Cost |
|---|--------------------------|--------|--------|-----------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|---|------------|-----------------|----------------|-----------------|---------------------|--------------------|
| | | | | | Assumed Loaded Hourly Rate \$ | | | | | | | | Burden (hrs) | Labor Cost | Capital Costs | O&M Costs | Total Costs** | | |
| | Year 1 | Year 2 | Year 3 | Total | \$99 | \$41 | \$39 | \$125 | \$64 | \$80 | \$45 | \$23 | | | | | | B | C |
| | A | | | | Level of Effort (hrs) | | | | | | | | B | C | D | E | C+D+E | A*B | A*(C+D+E) |
| Purchase and Installation of Remote Monitoring Device | 5 | 5 | 3 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$58,000 | \$0 | | - | \$754,000 |
| Other Direct Costs | 5 | 5 | 3 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$1,100 | | - | \$14,300 |
| Totals | | | | 13 | | | | | | | | | - | \$0 | \$58,000 | \$1,100 | \$59,100 | - | \$768,300 |

Total Burden and Costs for All NPDES Application Activities

| | | | | | | | | | | | | | Total Burden (hrs.) | Total Initial Cost |
|---------------|--|--|--|--|--|--|--|--|--|--|--|--|---------------------|--------------------|
| Totals | | | | | | | | | | | | | 67,936 | \$7,990,728 |

* 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
Freshwater Verification Study (Track 2)**

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | Total for AllFacilities in the ICR Approval Period | |
|--|--------------------------|--------|--------|-------|-------------------------------|------------------|--------------------|-----------|--------------|-----------------------|--------------|---|----------------|--------------|----------------|--|-----------------|
| | Year 1 | Year 2 | Year 3 | Total | Assumed Loaded Hourly Rate \$ | | | | | | Burden (hrs) | Labor Cost | ODCs lump sum* | Total Costs | Burden (hrs.) | Annual Cost | |
| | A | | | | \$99 | \$41 | \$125 | \$64 | \$80 | \$45 | | | | | | | \$23 |
| | A | | | | Level of Effort (hrs) | | | | | | B | C | D | C+D | A*B | A*(C+D) | |
| Perform Statistical Analysis | 2 | 1 | 1 | 4 | 20 | 20 | 10 | 10 | 20 | 0 | 1 | 81 | \$6,310 | | | 324 | \$25,241 |
| Submit Monitoring Results & Study Analysis | 2 | 1 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | \$93 | | | 16 | \$373 |
| Record Keeping | 2 | 1 | 1 | 4 | 1 | 2 | 0 | 0 | 0 | 0 | 4 | 7 | \$275 | | | 28 | \$1,099 |
| Totals | 4 | | | | 21 | 22 | 10 | 10 | 20 | 0 | 9 | 92 | \$6,678 | \$540 | \$7,218 | 368 | \$28,873 |

**Exhibit A.2b
Estuary Verification Study (Track 2)**

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | Total for AllFacilities in the ICR Approval Period | |
|--|--------------------------|--------|--------|-------|-------------------------------|------------------|--------------------|-----------|--------------|-----------------------|--------------|---|----------------|--------------|----------------|--|----------------|
| | Year 1 | Year 2 | Year 3 | Total | Assumed Loaded Hourly Rate \$ | | | | | | Burden (hrs) | Labor Cost | ODCs lump sum* | Total Costs | Burden (hrs.) | Annual Cost | |
| | A | | | | \$99 | \$41 | \$125 | \$64 | \$80 | \$45 | | | | | | | \$23 |
| | A | | | | Level of Effort (hrs) | | | | | | B | C | D | C+D | A*B | A*(C+D) | |
| Perform Statistical Analysis | 0 | 0 | 1 | 1 | 25 | 30 | 15 | 15 | 25 | 0 | 1 | 111 | \$8,562 | | | 111 | \$8,562 |
| Submit Monitoring Results & Study Analysis | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | \$93 | | | 4 | \$93 |
| Record Keeping | 0 | 0 | 1 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 4 | 7 | \$275 | | | 7 | \$275 |
| Totals | 1 | | | | 26 | 32 | 15 | 15 | 25 | 0 | 9 | 122 | \$8,930 | \$540 | \$9,470 | 122 | \$9,470 |

**Exhibit A.2c.1
Initial Biological Monitoring for Impingement (Freshwater)**

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | Total for AllFacilities in the ICR Approval Period | |
|------------------------------|--------------------------|--------|--------|-------|-------------------------------|------------------|--------------------|------------|--------------|-----------------------|--------------|---|-----------------|--------------|-----------------|--|------------------|
| | Year 1 | Year 2 | Year 3 | Total | Assumed Loaded Hourly Rate \$ | | | | | | Burden (hrs) | Labor Cost | ODCs lump sum* | Total Costs | Burden (hrs.) | Annual Cost | |
| | A | | | | \$99 | \$41 | \$125 | \$64 | \$80 | \$45 | | | | | | | \$23 |
| | A | | | | Level of Effort (hrs) | | | | | | B | C | D | C+D | A*B | A*(C+D) | |
| Monthly Sample Collection | 12 | 13 | 14 | 39 | 2 | 0 | 4 | 72 | 0 | 72 | 0 | 150 | \$8,497 | | | 5,850 | \$331,375 |
| Onsite Analysis of Samples | 12 | 13 | 14 | 39 | 4 | 0 | 12 | 72 | 0 | 72 | 0 | 160 | \$9,698 | | | 6,240 | \$378,206 |
| Perform Statistical Analysis | 12 | 13 | 14 | 39 | 8 | 4 | 0 | 0 | 32 | 0 | 0 | 44 | \$3,503 | | | 1,716 | \$136,625 |
| Record Keeping | 12 | 13 | 14 | 39 | 2 | 1 | 1 | 4 | 1 | 0 | 16 | 25 | \$1,072 | | | 975 | \$41,792 |
| Totals | 39 | | | | 16 | 5 | 17 | 148 | 33 | 144 | 16 | 379 | \$22,769 | \$540 | \$23,309 | 14,781 | \$909,059 |

**Exhibit A.2c.2
Reduced Biological Monitoring for Impingement (Freshwater)**

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | Total for AllFacilities in the ICR Approval Period | |
|------------------------------|--------------------------|--------|--------|-------|-------------------------------|------------------|--------------------|-----------|--------------|-----------------------|--------------|---|-----------------|--------------|-----------------|--|--------------------|
| | Year 1 | Year 2 | Year 3 | Total | Assumed Loaded Hourly Rate \$ | | | | | | Burden (hrs) | Labor Cost | ODCs lump sum* | Total Costs | Burden (hrs.) | Annual Cost | |
| | A | | | | \$99 | \$41 | \$125 | \$64 | \$80 | \$45 | | | | | | | \$23 |
| | A | | | | Level of Effort (hrs) | | | | | | B | C | D | C+D | A*B | A*(C+D) | |
| Reduced Sample Collection | 42 | 49 | 54 | 145 | 1 | 0 | 2 | 36 | 0 | 36 | 0 | 75 | \$4,248 | | | 10,875 | \$616,018 |
| Onsite Analysis of Samples | 42 | 49 | 54 | 145 | 2 | 0 | 6 | 36 | 0 | 36 | 0 | 80 | \$4,849 | | | 11,600 | \$703,076 |
| Perform Statistical Analysis | 42 | 49 | 54 | 145 | 4 | 2 | 0 | 0 | 16 | 0 | 0 | 22 | \$1,752 | | | 3,190 | \$253,982 |
| Record Keeping | 42 | 49 | 54 | 145 | 1 | 1 | 1 | 2 | 1 | 0 | 8 | 14 | \$659 | | | 2,030 | \$95,555 |
| Totals | 145 | | | | 8 | 3 | 9 | 74 | 17 | 72 | 8 | 191 | \$11,508 | \$270 | \$11,778 | 27,695 | \$1,707,781 |

**Exhibit A.2d.1
Initial Biological Monitoring for Impingement (Estuary)**

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | Total for AllFacilities in the ICR Approval Period | |
|-------------------------------------|--------------------------|--------|--------|-------|-------------------------------|------------------|--------------------|-----------|--------------|-----------------------|--------------|---|----------------|-------------|---------------|--|----------|
| | Year 1 | Year 2 | Year 3 | Total | Assumed Loaded Hourly Rate \$ | | | | | | Burden (hrs) | Labor Cost | ODCs lump sum* | Total Costs | Burden (hrs.) | Annual Cost | |
| | A | | | | \$99 | \$41 | \$125 | \$64 | \$80 | \$45 | | | | | | | \$23 |
| | A | | | | Level of Effort (hrs) | | | | | | B | C | D | C+D | A*B | A*(C+D) | |
| Monthly Sample Collection | 1 | 2 | 1 | 4 | 2 | 0 | 5 | 94 | 0 | 94 | 0 | 194 | \$10,987 | | | 778 | \$43,946 |
| Handling and Preparation of Samples | 1 | 2 | 1 | 4 | 4 | 0 | 16 | 94 | 0 | 94 | 0 | 207 | \$12,488 | | | 827 | \$49,953 |

December 2011

Renewal of New Facility Rule Information Collection Request

| | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|----------|-----------|----------|-----------|------------|-----------|------------|-----------|------------|-----------------|--------------|-----------------|--------------|------------------|
| Perform Statistical Analysis | 1 | 2 | 1 | 4 | 8 | 4 | 0 | 0 | 42 | 0 | 0 | 54 | \$4,267 | | | 214 | \$17,069 |
| Record Keeping | 1 | 2 | 1 | 4 | 2 | 1 | 1 | 5 | 1 | 0 | 16 | 27 | \$1,210 | | | 107 | \$4,838 |
| Totals | | | | 4 | 16 | 5 | 22 | 192 | 43 | 187 | 16 | 482 | \$28,952 | \$705 | \$29,657 | 1,926 | \$118,627 |

Exhibit A.2d.2

Reduced Biological Monitoring for Impingement (Estuary)

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | Total for All Facilities in the ICR Approval Period | |
|-------------------------------------|--------------------------|--------|--------|-----------|-------------------------------|------------------|--------------------|-----------|--------------|-----------------------|--------------|---|-----------------|--------------|-----------------|---|------------------|
| | Year 1 | Year 2 | Year 3 | Total | Assumed Loaded Hourly Rate \$ | | | | | | Burden (hrs) | Labor Cost | ODCs lump sum* | Total Costs | Burden (hrs.) | Annual Cost | |
| | A | | | | \$99 | \$41 | \$125 | \$64 | \$80 | \$45 | \$23 | B | C | D | C+D | A*B | A*(C+D) |
| | | | | | Level of Effort (hrs) | | | | | | | | | | | | |
| Reduced Sample Collection | 9 | 9 | 10 | 28 | 1 | 0 | 3 | 47 | 0 | 47 | 0 | 98 | \$5,565 | | | 2,744 | \$155,823 |
| Handling and Preparation of Samples | 9 | 9 | 10 | 28 | 2 | 0 | 8 | 47 | 0 | 47 | 0 | 104 | \$6,291 | | | 2,912 | \$176,145 |
| Perform Statistical Analysis | 9 | 9 | 10 | 28 | 4 | 2 | 0 | 0 | 21 | 0 | 0 | 27 | \$2,150 | | | 756 | \$60,189 |
| Record Keeping | 9 | 9 | 10 | 28 | 1 | 1 | 1 | 3 | 1 | 0 | 8 | 15 | \$723 | | | 420 | \$20,236 |
| Totals | | | | 28 | 8 | 3 | 12 | 97 | 22 | 94 | 8 | 244 | \$14,728 | \$353 | \$15,081 | 6,832 | \$422,262 |

Exhibit A.2e.1

Initial Biological Monitoring for Entrainment (Freshwater)

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | Total for All Facilities in the ICR Approval Period | |
|-------------------------------------|--------------------------|--------|--------|-----------|-------------------------------|------------------|--------------------|------------|--------------|-----------------------|--------------|---|-----------------|----------------|-----------------|---|--------------------|
| | Year 1 | Year 2 | Year 3 | Total | Assumed Loaded Hourly Rate \$ | | | | | | Burden (hrs) | Labor Cost | ODCs lump sum* | Total Costs | Burden (hrs.) | Annual Cost | |
| | A | | | | \$99 | \$41 | \$125 | \$64 | \$80 | \$45 | \$23 | B | C | D | C+D | A*B | A*(C+D) |
| | | | | | Level of Effort (hrs) | | | | | | | | | | | | |
| Biweekly Sample Collection | 12 | 13 | 14 | 39 | 4 | 0 | 12 | 156 | 0 | 156 | 0 | 328 | \$18,795 | | | 12,792 | \$732,997 |
| Handling and Preparation of Samples | 12 | 13 | 14 | 39 | 4 | 0 | 12 | 78 | 0 | 78 | 0 | 172 | \$10,347 | | | 6,708 | \$403,549 |
| Perform Statistical Analysis | 12 | 13 | 14 | 39 | 16 | 4 | 0 | 0 | 64 | 0 | 0 | 84 | \$6,841 | | | 3,276 | \$266,791 |
| Recordkeeping | 12 | 13 | 14 | 39 | 2 | 1 | 1 | 8 | 2 | 0 | 16 | 30 | \$1,406 | | | 1,170 | \$54,834 |
| Totals | | | | 39 | 26 | 5 | 25 | 242 | 66 | 234 | 16 | 614 | \$37,389 | \$1,080 | \$38,469 | 23,946 | \$1,500,291 |

Exhibit A.2e.2

Reduced Biological Monitoring for Entrainment (Freshwater)

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | Total for All Facilities in the ICR Approval Period | |
|-------------------------------------|--------------------------|--------|--------|------------|-------------------------------|------------------|--------------------|------------|--------------|-----------------------|--------------|---|-----------------|--------------|-----------------|---|--------------------|
| | Year 1 | Year 2 | Year 3 | Total | Assumed Loaded Hourly Rate \$ | | | | | | Burden (hrs) | Labor Cost | ODCs lump sum* | Total Costs | Burden (hrs.) | Annual Cost | |
| | A | | | | \$99 | \$41 | \$125 | \$64 | \$80 | \$45 | \$23 | B | C | D | C+D | A*B | A*(C+D) |
| | | | | | Level of Effort (hrs) | | | | | | | | | | | | |
| Reduced Sample Collection | 42 | 49 | 54 | 145 | 2 | 0 | 6 | 78 | 0 | 78 | 0 | 164 | \$9,397 | | | 23,780 | \$1,362,623 |
| Handling and Preparation of Samples | 42 | 49 | 54 | 145 | 2 | 0 | 6 | 39 | 0 | 39 | 0 | 86 | \$5,174 | | | 12,470 | \$750,187 |
| Perform Statistical Analysis | 42 | 49 | 54 | 145 | 8 | 2 | 0 | 0 | 32 | 0 | 0 | 42 | \$3,420 | | | 6,090 | \$495,958 |
| Recordkeeping | 42 | 49 | 54 | 145 | 1 | 1 | 1 | 4 | 1 | 0 | 8 | 16 | \$786 | | | 2,320 | \$114,028 |
| Totals | | | | 145 | 13 | 3 | 13 | 121 | 33 | 117 | 8 | 308 | \$18,778 | \$540 | \$19,318 | 44,660 | \$2,801,096 |

Exhibit A.2f.1

Initial Biological Monitoring for Entrainment (Estuary)

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | Total for All Facilities in the ICR Approval Period | | |
|-------------------------------------|--------------------------|--------|--------|-------|-------------------------------|------------------|--------------------|-----------|--------------|-----------------------|--------------|---|----------------|-----------------|----------------|---|--------------|------------------|
| | Year 1 | Year 2 | Year 3 | Total | Assumed Loaded Hourly Rate \$ | | | | | | Burden (hrs) | Labor Cost | ODCs lump sum* | Total Costs | Burden (hrs.) | Annual Cost | | |
| | | | | | \$99 | \$41 | \$125 | \$64 | \$80 | \$45 | | | | | | | \$23 | B |
| | A | | | | Level of Effort (hrs) | | | | | | B | C | D | C+D | A*B | A*(C+D) | | |
| Biweekly Sample Collection | 1 | 2 | 1 | 4 | 4 | 0 | 12 | 203 | 0 | 203 | 0 | 422 | \$23,885 | | | 1,688 | \$95,540 | |
| Handling and Preparation of Samples | 1 | 2 | 1 | 4 | 4 | 0 | 12 | 101 | 0 | 101 | 0 | 218 | \$12,838 | | | 872 | \$51,353 | |
| Perform Statistical Analysis | 1 | 2 | 1 | 4 | 16 | 4 | 0 | 0 | 83 | 0 | 0 | 103 | \$8,353 | | | 412 | \$33,413 | |
| Recordkeeping | 1 | 2 | 1 | 4 | 2 | 1 | 1 | 10 | 3 | 0 | 16 | 33 | \$1,613 | | | 132 | \$6,452 | |
| Totals | | | | | 4 | 26 | 5 | 25 | 314 | 86 | 304 | 16 | 776 | \$46,689 | \$1,245 | \$47,934 | 3,104 | \$191,738 |

Exhibit A.2f.2

Reduced Biological Monitoring for Entrainment (Estuary)

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | Total for All Facilities in the ICR Approval Period | | |
|-------------------------------------|--------------------------|--------|--------|-------|-------------------------------|------------------|--------------------|-----------|--------------|-----------------------|--------------|---|----------------|-----------------|---------------|---|---------------|------------------|
| | Year 1 | Year 2 | Year 3 | Total | Assumed Loaded Hourly Rate \$ | | | | | | Burden (hrs) | Labor Cost | ODCs lump sum* | Total Costs | Burden (hrs.) | Annual Cost | | |
| | | | | | \$99 | \$41 | \$125 | \$64 | \$80 | \$45 | | | | | | | \$23 | B |
| | A | | | | Level of Effort (hrs) | | | | | | B | C | D | C+D | A*B | A*(C+D) | | |
| Reduced Sample Collection | 9 | 9 | 10 | 28 | 2 | 0 | 6 | 102 | 0 | 102 | 0 | 212 | \$11,997 | | | 5,936 | \$335,905 | |
| Handling and Preparation of Samples | 9 | 9 | 10 | 28 | 2 | 0 | 6 | 51 | 0 | 51 | 0 | 110 | \$6,473 | | | 3,080 | \$181,252 | |
| Perform Statistical Analysis | 9 | 9 | 10 | 28 | 8 | 2 | 0 | 0 | 42 | 0 | 0 | 52 | \$4,216 | | | 1,456 | \$118,059 | |
| Recordkeeping | 9 | 9 | 10 | 28 | 1 | 1 | 1 | 5 | 2 | 0 | 8 | 18 | \$930 | | | 504 | \$26,032 | |
| Totals | | | | | 28 | 13 | 3 | 13 | 158 | 44 | 153 | 8 | 392 | \$23,616 | \$623 | \$24,239 | 10,976 | \$678,678 |

Exhibit A.2g

Velocity Monitoring

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | Total for All Facilities in the ICR Approval Period | | |
|------------------------------------|--------------------------|--------|--------|-------|-------------------------------|------------------|--------------------|-----------|--------------|-----------------------|--------------|---|----------------|----------------|---------------|---|---------------|--------------------|
| | Year 1 | Year 2 | Year 3 | Total | Assumed Loaded Hourly Rate \$ | | | | | | Burden (hrs) | Labor Cost | ODCs lump sum* | Total Costs | Burden (hrs.) | Annual Cost | | |
| | | | | | \$99 | \$41 | \$125 | \$64 | \$80 | \$45 | | | | | | | \$23 | B |
| | A | | | | Level of Effort (hrs) | | | | | | B | C | D | C+D | A*B | A*(C+D) | | |
| Monitor Average Through Technology | 64 | 73 | 79 | 216 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 102 | \$4,338 | | | 22,032 | \$936,922 | |
| Analyze Data | 64 | 73 | 79 | 216 | 4 | 40 | 0 | 0 | 0 | 0 | 0 | 44 | \$2,051 | | | 9,504 | \$443,059 | |
| Recordkeeping | 64 | 73 | 79 | 216 | 1 | 8 | 0 | 0 | 0 | 0 | 8 | 17 | \$616 | | | 3,672 | \$133,142 | |
| Totals | | | | | 216 | 7 | 148 | 0 | 0 | 0 | 0 | 8 | 163 | \$7,005 | \$110 | \$7,115 | 35,208 | \$1,536,883 |

Exhibit A.2h

Inspection of Installed Technologies

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | Total for All Facilities in the ICR Approval Period | | |
|---|--------------------------|--------|--------|-------|-------------------------------|------------------|--------------------|-----------|--------------|-----------------------|--------------|---|----------------|-----------------|---------------|---|---------------|------------------|
| | Year 1 | Year 2 | Year 3 | Total | Assumed Loaded Hourly Rate \$ | | | | | | Burden (hrs) | Labor Cost | ODCs lump sum* | Total Costs | Burden (hrs.) | Annual Cost | | |
| | | | | | \$99 | \$41 | \$125 | \$64 | \$80 | \$45 | | | | | | | \$23 | B |
| | A | | | | Level of Effort (hrs) | | | | | | B | C | D | C+D | A*B | A*(C+D) | | |
| Visually Inspect All Installed Technologies | 23 | 27 | 28 | 78 | 24 | 208 | 0 | 0 | 0 | 0 | 0 | 232 | \$10,982 | | | 18,096 | \$856,627 | |
| Recordkeeping | 23 | 27 | 28 | 78 | 3 | 16 | 0 | 0 | 0 | 0 | 2 | 21 | \$1,005 | | | 1,638 | \$78,421 | |
| Totals | | | | | 78 | 27 | 224 | 0 | 0 | 0 | 0 | 2 | 253 | \$11,988 | \$110 | \$12,098 | 19,734 | \$943,628 |

Exhibit A.2i

Yearly Status Report Activities

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | Total for All Facilities in the ICR Approval Period | |
|--------------------------------------|--------------------------|--------|--------|------------|-----------------------|------------------|--------------------|-----------|--------------|-----------------------|-----------|---|-----------------|----------------|-----------------|---|--------------------|
| | Year 1 | Year 2 | Year 3 | Total | \$99 | \$41 | \$125 | \$64 | \$80 | \$45 | \$23 | Burden (hrs) | Labor Cost | ODCs lump sum* | Total Costs | Burden (hrs.) | Annual Cost |
| | A | | | | | | | | | | | | | | | | |
| | | | | | Level of Effort (hrs) | | | | | | | B | C | D | C+D | A*B | A*(C+D) |
| Report on Inspection and Maintenance | 64 | 73 | 79 | 216 | 16 | 16 | 0 | 0 | 0 | 0 | 0 | 32 | \$2,243 | | | 6,912 | \$484,531 |
| Detail Velocity Monitoring Results | 64 | 73 | 79 | 216 | 8 | 16 | 0 | 0 | 0 | 0 | 0 | 24 | \$1,453 | | | 5,184 | \$313,805 |
| Detail Biological Monitoring Results | 64 | 73 | 79 | 216 | 24 | 32 | 4 | 4 | 24 | 0 | 0 | 88 | \$6,363 | | | 19,008 | \$1,374,365 |
| Compile and Submit Report | 64 | 73 | 79 | 216 | 80 | 80 | 0 | 0 | 0 | 0 | 16 | 176 | \$11,589 | | | 38,016 | \$2,503,181 |
| Recordkeeping | 64 | 73 | 79 | 216 | 8 | 12 | 0 | 0 | 0 | 0 | 8 | 28 | \$1,474 | | | 6,048 | \$318,298 |
| Totals | | | | 216 | 136 | 156 | 4 | 4 | 24 | 0 | 24 | 348 | \$23,121 | \$810 | \$23,931 | 75,168 | \$5,169,139 |

Total Burden and Cost for All Annual Activities

| | Burden Per Facility | Cost per Facility | ODCs lump sum* | Total Cost per Facility | Total Burden (hrs.) | Total Annual Cost |
|------------------------------|---------------------|-------------------|----------------|-------------------------|---------------------|-------------------|
| Track 1 Freshwater | 1,757 | 102,272 | 2,650 | 104,922 | | |
| Track 1 Freshwater - Reduced | 1,263 | 72,400 | 1,840 | 74,240 | | |
| Track 1 Estuary | 2,022 | 117,755 | 2,980 | 120,735 | | |
| Track 1 Estuary - Reduced | 1,400 | 80,459 | 2,005 | 82,464 | | |
| Track 2 Freshwater | 1,849 | 108,951 | 3,190 | 112,141 | | |
| Track 2 Freshwater - Reduced | 1,355 | 79,078 | 2,380 | 81,458 | | |
| Track 2 Estuary | 2,144 | 126,685 | 3,520 | 130,205 | | |
| Track 2 Estuary - Reduced | 1,522 | 89,388 | 2,545 | 91,933 | | |
| Totals | | | | | 264,520 | 16,017,525 |

Exhibit A.2j

Facility Annual O&M Costs

| Activity | Facilities (Responses) | | | | Contracted Laboratory Analysis Cost | Operation and Maintenance Costs | ODCs lump sum* | Cost (\$) |
|---|------------------------|----|----|-----|-------------------------------------|---------------------------------|----------------|--------------------|
| Operation of Remote Sensing Device | 41 | 46 | 51 | 138 | | \$215 | | \$37,260 |
| Identify & Enumerate Entrained Freshwater Biota | 54 | 62 | 68 | 184 | \$8,400 | | | \$1,545,600 |
| Identify & Enumerate Entrained Estuary Biota | 10 | 11 | 11 | 32 | \$11,000 | | | \$352,000 |
| Totals | | | | | | | \$55 | \$1,934,860 |

Total Cost for All NPDES Application Activities

| | Total Cost (\$) |
|---------------|---------------------|
| Totals | \$17,952,385 |

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

**Exhibit A.3a
Director Permit Issuance Activities**

| Activity | Directors (Responses) | Senior | Junior | Clerical | Burden Per Permit | Labor Cost per Permit | ODCs lump sum* | Total Cost Per Permit | Total Burden (hrs.) | Total Initial Cost* |
|--|--------------------------|-------------------------------|------------|-----------|-------------------------|-----------------------------|----------------------|-----------------------------|---------------------------|---------------------------|
| | | Technical | Technical | | | | | | | |
| | | Assumed Loaded Hourly Rate \$ | | | | | | | | |
| | A | Level of Effort (hrs) | | | B | C | D | C+D | A*B | A*(C+D) |
| | | 73 | 40 | 28 | | | | | | |
| Reviewing CWIS location and design data | 18 | 6 | 18 | 0 | 24 | \$1,147 | | | 432 | \$20,650 |
| Determine Compliance with Source Waterbody Flow Information | 18 | 2 | 6 | 0 | 8 | \$382 | | | 144 | \$6,883 |
| Review Source Water Baseline Biological Characterization Data | 18 | 20 | 20 | 0 | 40 | \$2,244 | | | 720 | \$40,392 |
| Review Design and Construction Technology Plan (Track 1) | 13 | 24 | 8 | 0 | 32 | \$2,061 | | | 416 | \$26,790 |
| Determine Compliance with CWIS Velocity Requirements (Track 1) | 13 | 2 | 6 | 0 | 8 | \$382 | | | 104 | \$4,971 |
| Determine Compliance with CWIS Flow Reduction Requirements (Track 1) | 13 | 8 | 8 | 0 | 16 | \$898 | | | 208 | \$11,669 |
| Review Comprehensive Demonstration Study Plan (Track 2) | 5 | 16 | 16 | 0 | 32 | \$1,795 | | | 160 | \$8,976 |
| Review Source Water Baseline Biological Characterization Study (Track 2) | 8 | 400 | 50 | 0 | 450 | \$31,055 | | | 3,600 | \$248,440 |
| Review Evaluation of Potential CWIS Effects (Track 2) | 8 | 16 | 16 | 0 | 32 | \$1,795 | | | 256 | \$14,362 |
| Determine Monitoring Frequency | 21 | 2 | 6 | 0 | 8 | \$382 | | | 168 | \$8,030 |
| Determine Record keeping and Reporting Frequency | 21 | 2 | 6 | 0 | 8 | \$382 | | | 168 | \$8,030 |
| Considering Public Comments | 21 | 16 | 16 | 0 | 32 | \$1,795 | | | 672 | \$37,699 |
| Issuing Permit | 21 | 1 | 6 | 1 | 8 | \$338 | | | 168 | \$7,090 |
| Permit Record Keeping | 21 | 1 | 1 | 2 | 4 | \$168 | | | 84 | \$3,528 |
| Totals | 21 | 516 | 183 | 3 | 702 | \$44,825 | \$325 | \$45,150 | 7,300 | \$454,335 |
| Track 1 Totals | | | | | 188 | \$10,180 | \$325 | \$10,505 | | |

| | | | | |
|----------------|-----|----------|-------|----------|
| Track 2 Totals | 646 | \$41,485 | \$325 | \$41,810 |
|----------------|-----|----------|-------|----------|

Exhibit A.3b

Verification Study Review

| Activity | Directors (Responses) | Senior | Junior | Clerical | Burden Per Permit | Labor Cost per Permit | ODCs lump sum* | Total Cost Per Permit | Total Burden (hrs.) | Total Initial Cost |
|--|--------------------------|-------------------------------|-----------|----------|-------------------------|-----------------------------|----------------------|-----------------------------|---------------------------|-----------------------|
| | | Technical | Technical | | | | | | | |
| | | Assumed Loaded Hourly Rate \$ | | | | | | | | |
| | A | 73 | 40 | 28 | B | C | D | C+D | A*B | A*(C+D) |
| | | Level of Effort (hrs) | | | | | | | | |
| Review of Verification Studies | 5 | 2 | 4 | 0 | 6 | \$303 | | | 30 | \$1,517 |
| Permit Modification due to Unfavorable Results | 5 | 4 | 10 | 0 | 14 | \$686 | | | 70 | \$3,429 |
| Record Keeping | 5 | 0 | 0 | 1 | 1 | \$28 | | | 5 | \$140 |
| Totals | 5 | 6 | 14 | 1 | 21 | \$1,017 | \$55 | \$1,072 | 105 | \$5,000 |

Exhibit A.3c

Annual Director Activities

| Activity | Directors (Responses) | Senior | Junior | Clerical | Burden Per Permit | Labor Cost per Permit | ODCs lump sum* | Total Cost Per Permit | Total Burden (hrs.) | Total Annual Cost |
|---|--------------------------|-------------------------------|-----------|----------|-------------------------|-----------------------------|----------------------|-----------------------------|---------------------------|-------------------------|
| | | Technical | Technical | | | | | | | |
| | | Assumed Loaded Hourly Rate \$ | | | | | | | | |
| | A | 73 | 40 | 28 | B | C | D | C+D | A*B | A*(C+D) |
| | | Level of Effort (hrs) | | | | | | | | |
| Review of Yearly Report | 216 | 6 | 12 | 0 | 18 | \$910 | | | 3,888 | \$196,603 |
| Compliance Tracking | 216 | 4 | 12 | 0 | 16 | \$765 | | | 3,456 | \$165,197 |
| Determination on Monitoring Scope Reduction | 216 | 4 | 8 | 0 | 12 | \$607 | | | 2,592 | \$131,069 |
| Record Keeping | 216 | 1 | 2 | 1 | 4 | \$180 | | | 864 | \$38,794 |
| Totals | 216 | 15 | 34 | 1 | 50 | \$2,461 | \$55 | \$2,516 | 10,800 | \$544,000 |

Total Burden and Cost for All Director Activities

| | | | | | Total Burden (hrs.) | Total Initial Cost |
|---------------|--|--|--|--|---------------------------|-----------------------|
| Totals | | | | | 18,100 | \$1,003,335 |

**Exhibit A.4
Federal Burden and Cost Estimates for Activities**

**Exhibit A.4a
Federal Permit Program Oversight Activities**

| Activity | Federal (Responses) | Senior Technical | Junior Technical | Clerical | Burden per permit Review | Labor Cost per Permit Review | ODCs lump sum* | Total Cost per Permit Review | Total Burden (hrs.) | Total Initial Cost * |
|--|------------------------|-------------------------------|---------------------|----------|-----------------------------------|---------------------------------------|----------------------|------------------------------------|---------------------------|-------------------------|
| | | Assumed Loaded Hourly Rate \$ | | | | | | | | |
| | | 73 | 40 | 28 | | | | | | |
| A | Level of Effort (hrs) | | | B | C | D | C+D | A*B | A*(C+D) | |
| Reviewing CWIS location and design data | 18 | 1 | 2 | 0 | 3 | \$152 | | | 54 | \$2,731 |
| Determine Compliance with Source Waterbody Flow Information | 18 | 1 | 3 | 0 | 4 | \$191 | | | 72 | \$3,442 |
| Review Source Water Baseline Biological Characterization Data | 18 | 1 | 2 | 0 | 3 | \$152 | | | 54 | \$2,731 |
| Review Design and Construction Technology Plan (Track 1) | 13 | 1 | 3 | 0 | 4 | \$191 | | | 52 | \$2,486 |
| Determine Compliance with CWIS Velocity Requirements (Track 1) | 13 | 1 | 2 | 0 | 3 | \$152 | | | 39 | \$1,972 |
| Determine Compliance with CWIS Flow Reduction Requirements (Track 1) | 13 | 1 | 2 | 0 | 3 | \$152 | | | 39 | \$1,972 |
| Review Comprehensive Demonstration Study Plan (Track 2) | 5 | 1 | 2 | 0 | 3 | \$152 | | | 15 | \$759 |
| Review Source Water Baseline Biological Characterization Study (Track 2) | 8 | 6 | 12 | 0 | 18 | \$910 | | | 144 | \$7,282 |
| Review Evaluation of Potential CWIS Effects (Track 2) | 8 | 1 | 2 | 0 | 3 | \$152 | | | 24 | \$1,214 |
| Determine Monitoring Frequency | 21 | 1 | 3 | 0 | 4 | \$191 | | | 84 | \$4,015 |
| Permit Record Keeping | 21 | 1 | 1 | 2 | 4 | \$168 | | | 84 | \$3,528 |
| Totals | 21 | 16 | 34 | 2 | 31 | 1,245 | \$55 | \$1,300 | 661 | \$33,285 |
| Track 1 Totals | | | | | 28 | \$1,348 | \$55 | \$1,403 | | |
| Track 2 Totals | | | | | 42 | \$2,067 | \$55 | \$2,122 | | |

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

Facilities [1]

| | Year 1 | Year 2 | Year 3 | Annual Average |
|--|---------------------|---------------------|---------------------|-------------------|
| | 12/2011- 11/2012 | 12/2012- 11/2013 | 12/2013- 11/2014 | |
| Initial NPDES Permit Application Activities | | | | |
| Start-up Activities | 7 | 7 | 4 | 6 |
| Permit Application Activities | 7 | 7 | 4 | 6 |
| Source Waterbody Flow Information | 7 | 7 | 4 | 6 |
| Use Existing Data- Source Water Baseline Biological Characterization Data | 7 | 7 | 4 | 6 |
| CWIS Flow Reduction Requirements (Track 1) | 5 | 5 | 3 | 4 |
| CWIS Velocity Requirements (Track 1) | 5 | 5 | 3 | 4 |
| Design and Construction Technology Plan (Track 1) | 5 | 5 | 3 | 4 |
| Comprehensive Demonstration Study Plan (Track 2) | 2 | 2 | 1 | 2 |
| Freshwater Source Water Baseline Biological Characterization Study (Track 2) | 5 | 3 | 3 | 4 |
| Estuary Source Water Baseline Biological Characterization Study (Track 2) | 1 | 1 | 1 | 1 |
| Profile of Source Water Biota for Characterization Study (Track 2) | 2 | 2 | 1 | 2 |
| Submit Characterization Study (Track 2) | 4 | 1 | 3 | 3 |
| Freshwater Evaluation of Potential CWIS Effects (Track 2) | 4 | 1 | 2 | 2 |
| Estuary Evaluation of Potential CWIS Effects (Track 2) | 0 | 0 | 1 | 0 |
| Verification Monitoring Plan (Track 2) | 2 | 2 | 1 | 2 |
| NPDES Repermitting Activities | | | | |
| Start-up Activities | 12 | 13 | 13 | 13 |
| Permit Application Activities | 12 | 13 | 13 | 13 |
| Source Waterbody Flow Information | 12 | 13 | 13 | 13 |
| Source Water Baseline Biological Characterization Data | 12 | 13 | 13 | 13 |
| CWIS Flow Reduction Requirements (Track 1) | 5 | 10 | 8 | 8 |
| CWIS Velocity Requirements (Track 1) | 5 | 10 | 8 | 8 |
| Design and Construction Technology Plan (Track 1) | 5 | 10 | 8 | 8 |
| Comprehensive Demonstration Study Plan (Track 2) | 7 | 3 | 5 | 5 |
| Freshwater Source Water Baseline Biological Characterization Study (Track 2) | 8 | 8 | 7 | 8 |
| Estuary Source Water Baseline Biological Characterization Study (Track 2) | 4 | 3 | 3 | 3 |
| Profile of Source Water Biota for Characterization Study (Track 2) | 7 | 3 | 5 | 5 |
| Submit Characterization Study (Track 2) | 4 | 6 | 5 | 5 |
| Annual | | | | |
| Freshwater Verification Study (Track 2) | 2 | 1 | 1 | 1 |
| Estuary Verification Study (Track 2) | 0 | 0 | 1 | 0 |
| Initial Biological Monitoring for Impingement (Freshwater) | 12 | 13 | 14 | 13 |
| Reduced Biological Monitoring for Impingement (Freshwater) | 42 | 49 | 54 | 48 |
| Initial Biological Monitoring for Impingement (Estuary) | 1 | 2 | 1 | 1 |
| Reduced Biological Monitoring for Impingement (Estuary) | 9 | 9 | 10 | 9 |
| Initial Biological Monitoring for Entrainment (Freshwater) | 12 | 13 | 14 | 13 |
| Reduced Biological Monitoring for Entrainment (Freshwater) | 42 | 49 | 54 | 48 |
| Initial Biological Monitoring for Entrainment (Estuary) | 1 | 2 | 1 | 1 |
| Reduced Biological Monitoring for Entrainment (Estuary) | 9 | 9 | 10 | 9 |
| Velocity Monitoring | 64 | 73 | 79 | 72 |
| Visual Inspection of Installed Technologies | 23 | 27 | 28 | 26 |
| Yearly Status Report Activities | 64 | 73 | 79 | 72 |
| Respondents | 75 | 82 | 86 | 81 |

Directors [2]

| | Year 1 | Year 2 | Year 3 | Annual Average |
|--|-----------------|-----------------|-----------------|----------------|
| | 12/2011-11/2012 | 12/2012-11/2013 | 12/2013-11/2014 | |
| Director Permit Issuance Activities | | | | |
| Reviewing Facility General Permit Application Information | 7 | 7 | 4 | 6 |
| Review Source Water Baseline Biological Characterization Data | 7 | 7 | 4 | 6 |
| Determine Compliance with Source Waterbody Flow Information | 7 | 7 | 4 | 6 |
| Review Design and Construction Technology Plan (Track 1) | 5 | 5 | 3 | 4 |
| Determine Compliance with CWIS Velocity Requirements (Track 1) | 5 | 5 | 3 | 4 |
| Determine Compliance with CWIS Flow Reduction Requirements (Track 1) | 5 | 5 | 3 | 4 |
| Review Comprehensive Demonstration Study Plan (Track 2) | 2 | 2 | 1 | 2 |
| Review Source Water Baseline Biological Characterization Study (Track 2) | 4 | 1 | 3 | 3 |
| Review Evaluation of Potential CWIS Effects (Track 2) | 4 | 1 | 3 | 3 |
| Determining Facility Requirements and Issuing Permit | 9 | 6 | 6 | 7 |
| Verification Study Review | 2 | 1 | 2 | 2 |
| Director Permit Reissuance Activities | | | | |
| Reviewing Facility General Permit Application Information | 12 | 13 | 13 | 13 |
| Review Source Water Baseline Biological Characterization Data | 12 | 13 | 13 | 13 |
| Determine Compliance with Source Waterbody Flow Information | 12 | 13 | 13 | 13 |
| Review Design and Construction Technology Plan (Track 1) | 5 | 10 | 8 | 8 |
| Determine Compliance with CWIS Velocity Requirements (Track 1) | 5 | 10 | 8 | 8 |
| Determine Compliance with CWIS Flow Reduction Requirements (Track 1) | 5 | 10 | 8 | 8 |
| Review Comprehensive Demonstration Study Plan (Track 2) | 7 | 3 | 5 | 5 |
| Review Source Water Baseline Biological Characterization Study (Track 2) | 4 | 6 | 5 | 5 |
| Determining Facility Requirements and Issuing Permit | 5 | 18 | 20 | 14 |
| Annual Director Activities | | | | |
| Review of Yearly Report | 64 | 73 | 79 | 72 |
| Compliance Tracking | 64 | 73 | 79 | 72 |
| Determination on Monitoring Scope Reduction | 64 | 73 | 79 | 72 |
| Record Keeping | 64 | 73 | 79 | 72 |
| Respondents | 75 | 82 | 86 | 81 |

Sum for Facilities and Directors

| | Year 1 | Year 2 | Year 3 | Annual Average |
|----------------------|-----------------|-----------------|-----------------|----------------|
| | 12/2011-11/2012 | 12/2012-11/2013 | 12/2013-11/2014 | |
| Facilities | 75 | 82 | 86 | 81 |
| Directors | 75 | 82 | 86 | 81 |
| Yearly Total* | 150 | 164 | 172 | 162 |

[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.

* Total does not add due to rounding.

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

Facilities

| | Year 1 | Year 2 | Year 3 | Annual Average |
|--|-----------------|-----------------|-----------------|----------------|
| | 12/2011-11/2012 | 12/2012-11/2013 | 12/2013-11/2014 | |
| Initial Permitting | | | | |
| Start-up Activities | 7 | 7 | 4 | 6 |
| Permit Application Activities | 7 | 7 | 4 | 6 |
| Source Waterbody Flow Information | 7 | 7 | 4 | 6 |
| Use Existing Data- Source Water Baseline Biological Characterization Data | 7 | 7 | 4 | 6 |
| CWIS Flow Reduction Requirements (Track 1) | 5 | 5 | 3 | 4 |
| CWIS Velocity Requirements (Track 1) | 5 | 5 | 3 | 4 |
| Design and Construction Technology Plan (Track 1) | 5 | 5 | 3 | 4 |
| Comprehensive Demonstration Study Plan (Track 2) | 2 | 2 | 1 | 2 |
| Freshwater Source Water Baseline Biological Characterization Study (Track 2) | 5 | 3 | 3 | 4 |
| Estuary Source Water Baseline Biological Characterization Study (Track 2) | 1 | 1 | 1 | 1 |
| Profile of Source Water Biota for Characterization Study (Track 2) | 2 | 2 | 1 | 2 |
| Submit Characterization Study (Track 2) | 4 | 1 | 3 | 3 |
| Freshwater Evaluation of Potential CWIS Effects (Track 2) | 4 | 1 | 2 | 2 |
| Estuary Evaluation of Potential CWIS Effects (Track 2) | 0 | 0 | 1 | 0 |
| Verification Monitoring Plan (Track 2) | 2 | 2 | 1 | 2 |
| NPDES Repermitting Activities | 0 | 0 | 0 | 0 |
| Start-up Activities | 12 | 13 | 13 | 13 |
| Permit Application Activities | 12 | 13 | 13 | 13 |
| Source Waterbody Flow Information | 12 | 13 | 13 | 13 |
| Source Water Baseline Biological Characterization Data | 12 | 13 | 13 | 13 |
| CWIS Flow Reduction Requirements (Track 1) | 5 | 10 | 8 | 8 |
| CWIS Velocity Requirements (Track 1) | 5 | 10 | 8 | 8 |
| Design and Construction Technology Plan (Track 1) | 5 | 10 | 8 | 8 |
| Comprehensive Demonstration Study Plan (Track 2) | 7 | 3 | 5 | 5 |
| Freshwater Source Water Baseline Biological Characterization Study (Track 2) | 8 | 8 | 7 | 8 |
| Estuary Source Water Baseline Biological Characterization Study (Track 2) | 4 | 3 | 3 | 3 |
| Profile of Source Water Biota for Characterization Study (Track 2) | 7 | 3 | 5 | 5 |
| Submit Characterization Study (Track 2) | 4 | 6 | 5 | 5 |
| Annual | 0 | 0 | 0 | 0 |
| Freshwater Verification Study (Track 2) | 2 | 1 | 1 | 1 |
| Estuary Verification Study (Track 2) | 0 | 0 | 1 | 0 |
| Initial Biological Monitoring for Impingement (Freshwater) | 12 | 13 | 14 | 13 |
| Reduced Biological Monitoring for Impingement (Freshwater) | 42 | 49 | 54 | 48 |
| Initial Biological Monitoring for Impingement (Estuary) | 1 | 2 | 1 | 1 |
| Reduced Biological Monitoring for Impingement (Estuary) | 9 | 9 | 10 | 9 |
| Initial Biological Monitoring for Entrainment (Freshwater) | 12 | 13 | 14 | 13 |
| Reduced Biological Monitoring for Entrainment (Freshwater) | 42 | 49 | 54 | 48 |
| Initial Biological Monitoring for Entrainment (Estuary) | 1 | 2 | 1 | 1 |
| Reduced Biological Monitoring for Entrainment (Estuary) | 9 | 9 | 10 | 9 |
| Velocity Monitoring | 64 | 73 | 79 | 72 |
| Visual Inspection of Installed Technologies | 23 | 27 | 28 | 26 |
| Yearly Status Report Activities | 64 | 73 | 79 | 72 |
| Responses | 437 | 480 | 485 | 467 |

Directors

| | Year 1 | Year 2 | Year 3 | Annual Average |
|--|-----------------|-----------------|-----------------|----------------|
| | 12/2011-11/2012 | 12/2012-11/2013 | 12/2013-11/2014 | |
| Director Permit Issuance Activities | | | | |
| Reviewing Facility General Permit Application Information | 7 | 7 | 4 | 6 |
| Review Source Water Baseline Biological Characterization Data | 7 | 7 | 4 | 6 |
| Determine Compliance with Source Waterbody Flow Information | 7 | 7 | 4 | 6 |
| Review Design and Construction Technology Plan (Track 1) | 5 | 5 | 3 | 4 |
| Determine Compliance with CWIS Velocity Requirements (Track 1) | 5 | 5 | 3 | 4 |
| Determine Compliance with CWIS Flow Reduction Requirements (Track 1) | 5 | 5 | 3 | 4 |
| Review Comprehensive Demonstration Study Plan (Track 2) | 2 | 2 | 1 | 2 |
| Review Source Water Baseline Biological Characterization Study (Track 2) | 4 | 1 | 3 | 3 |
| Review Evaluation of Potential CWIS Effects (Track 2) | 4 | 1 | 3 | 3 |
| Determining Facility Requirements and Issuing Permit | 9 | 6 | 6 | 7 |
| Verification Study Review | 2 | 1 | 2 | 2 |
| Director Permit Reissuance Activities | | | | |
| Reviewing Facility General Permit Application Information | 12 | 13 | 13 | 13 |
| Review Source Water Baseline Biological Characterization Data | 12 | 13 | 13 | 13 |
| Determine Compliance with Source Waterbody Flow Information | 12 | 13 | 13 | 13 |
| Review Design and Construction Technology Plan (Track 1) | 5 | 10 | 8 | 8 |
| Determine Compliance with CWIS Velocity Requirements (Track 1) | 5 | 10 | 8 | 8 |
| Determine Compliance with CWIS Flow Reduction Requirements (Track 1) | 5 | 10 | 8 | 8 |
| Review Comprehensive Demonstration Study Plan (Track 2) | 7 | 3 | 5 | 5 |
| Review Source Water Baseline Biological Characterization Study (Track 2) | 4 | 6 | 5 | 5 |
| Determining Facility Requirements and Issuing Permit | 5 | 18 | 20 | 14 |
| Annual Director Activities | | | | |
| Review of Yearly Report | 64 | 73 | 79 | 72 |
| Compliance Tracking | 64 | 73 | 79 | 72 |
| Determination on Monitoring Scope Reduction | 64 | 73 | 79 | 72 |
| Record Keeping | 64 | 73 | 79 | 72 |
| Responses | 380 | 435 | 445 | 420 |

Sum for Facilities and Directors

| | Year 1 | Year 2 | Year 3 | Annual Average |
|----------------------|-----------------|-----------------|-----------------|----------------|
| | 12/2011-11/2012 | 12/2012-11/2013 | 12/2013-11/2014 | |
| Facilities | 437 | 480 | 485 | 467 |
| Directors | 380 | 435 | 445 | 420 |
| Yearly Total* | 817 | 915 | 930 | 887 |

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

Facility Activities

| | Source (Exhibit) | Year 1 | Year 2 | Year 3 | Annual Average |
|--|---------------------|---------------------|---------------------|---------------------|-------------------|
| | | 12/2011- 11/2012 | 12/2012- 11/2013 | 12/2013- 11/2014 | |
| NPDES Permit Application Activities | | | | | |
| Start-up Activities | A1a | 301 | 301 | 172 | 258 |
| Permit Application Activities | A1b | 1,022 | 1,022 | 584 | 876 |
| Source Waterbody Flow Information | A1c | 728 | 728 | 416 | 624 |
| Use Existing Data- Source Water Baseline Biological Characterization Data | A1d | 1,855 | 1,855 | 1,060 | 1,590 |
| CWIS Flow Reduction Requirements (Track 1) | A1e | 540 | 540 | 324 | 468 |
| CWIS Velocity Requirements (Track 1) | A1f | 690 | 690 | 414 | 598 |
| Design and Construction Technology Plan (Track 1) | A1g | 540 | 540 | 324 | 468 |
| Comprehensive Demonstration Study Plan (Track 2) | A1h | 542 | 542 | 271 | 452 |
| Freshwater Source Water Baseline Biological Characterization Study (Track 2) | A1i | 11,098 | 6,659 | 6,659 | 8,138 |
| Estuary Source Water Baseline Biological Characterization Study (Track 2) | A1i | 2,870 | 2,870 | 2,870 | 2,870 |
| Profile of Source Water Biota for Characterization Study (Track 2) | A1i | 746 | 746 | 373 | 622 |
| Submit Characterization Study (Track 2) | A1i | 1,536 | 384 | 1,152 | 1,024 |
| Freshwater Evaluation of Potential CWIS Effects (Track 2) | A1j | 6,504 | 1,626 | 3,252 | 3,794 |
| Estuary Evaluation of Potential CWIS Effects (Track 2) | A1j | 0 | 0 | 1,950 | 650 |
| Verification Monitoring Plan (Track 2) | A1k | 256 | 256 | 128 | 213 |
| NPDES Permit Application Activity Total | | 28,972 | 18,503 | 17,871 | 21,782 |
| NPDES Repermitting Activities | | | | | |
| Start-up Activities | A12a | 156 | 169 | 169 | 165 |
| Permit Application Activities | A12b | 864 | 936 | 936 | 912 |
| Source Waterbody Flow Information | A12c | 372 | 403 | 403 | 393 |
| Source Water Baseline Biological Characterization Data | A12d | 948 | 1,027 | 1,027 | 1,001 |
| CWIS Flow Reduction Requirements (Track 1) | A12e | 540 | 1,080 | 864 | 828 |
| CWIS Velocity Requirements (Track 1) | A12f | 375 | 750 | 600 | 575 |
| Design and Construction Technology Plan (Track 1) | A12g | 215 | 430 | 344 | 330 |
| Comprehensive Demonstration Study Plan (Track 2) | A12h | 560 | 240 | 400 | 400 |
| Freshwater Source Water Baseline Biological Characterization Study (Track 2) | A12i | 10,320 | 10,320 | 9,030 | 9,890 |
| Estuary Source Water Baseline Biological Characterization Study (Track 2) | A12i | 6,720 | 5,040 | 5,040 | 5,600 |
| Profile of Source Water Biota for Characterization Study (Track 2) | A12i | 791 | 339 | 565 | 565 |
| Submit Characterization Study (Track 2) | A12i | 460 | 690 | 575 | 575 |
| NPDES Repermitting Activity Total | | 22,321 | 21,424 | 19,953 | 21,233 |
| Annual Activities | | | | | |
| Freshwater Verification Study (Track 2) | A2a | 184 | 92 | 92 | 123 |
| Estuary Verification Study (Track 2) | A2b | 0 | 0 | 122 | 41 |
| Initial Biological Monitoring for Impingement (Freshwater) | A2c1 | 4,548 | 4,927 | 5,306 | 4,927 |
| Reduced Biological Monitoring for Impingement (Freshwater) | A2c2 | 8,022 | 9,359 | 10,314 | 9,232 |
| Initial Biological Monitoring for Impingement (Estuary) | A2d1 | 482 | 963 | 482 | 642 |
| Reduced Biological Monitoring for Impingement (Estuary) | A2d2 | 2,196 | 2,196 | 2,440 | 2,277 |
| Initial Biological Monitoring for Entrainment (Freshwater) | A2e1 | 7,368 | 7,982 | 8,596 | 7,982 |
| Reduced Biological Monitoring for Entrainment (Freshwater) | A2e2 | 12,936 | 15,092 | 16,632 | 14,887 |
| Initial Biological Monitoring for Entrainment (Estuary) | A2f1 | 776 | 1,552 | 776 | 1,035 |
| Reduced Biological Monitoring for Entrainment (Estuary) | A2f2 | 3,528 | 3,528 | 3,920 | 3,659 |
| Velocity Monitoring | A2g | 10,432 | 11,899 | 12,877 | 11,736 |
| Visual Inspection of Installed Technologies | A2h | 5,819 | 6,831 | 7,084 | 6,578 |
| Yearly Status Report Activities | A2i | 22,272 | 25,404 | 27,492 | 25,056 |
| Annual Activity Yearly Labor Total | | 78,563 | 89,825 | 96,133 | 88,173 |
| Yearly Labor Total | | 129,855 | 129,752 | 133,956 | 131,188 |

Exhibit A.8**Hourly Burden for the ICR Approval Period Year by Year
for Directors and Federal Government****Director Activities**

| | Source (Exhibit) | Year 1 | Year 2 | Year 3 | Annual Average |
|---------------------------------------|---------------------|---------------------|---------------------|---------------------|-------------------|
| | | 12/2011- 11/2012 | 12/2012- 11/2013 | 12/2013- 11/2014 | |
| Director Permit Issuance Activities | A3a | 3,316 | 1,690 | 2,294 | 2,433 |
| Verification Study Review | A3b | 42 | 21 | 42 | 35 |
| Director Permit Reissuance Activities | A13 | 872 | 1,349 | 1,274 | 1,165 |
| Annual Director Activities | A3c | 3,200 | 3,650 | 3,950 | 3,600 |
| Yearly Total | | 7,430 | 6,710 | 7,560 | 7,233 |

Federal Activities

| | Source (Exhibit) | Year 1 | Year 2 | Year 3 | Annual Average |
|---|---------------------|---------------------|---------------------|---------------------|-------------------|
| | | 12/2011- 11/2012 | 12/2012- 11/2013 | 12/2013- 11/2014 | |
| Federal Permit Program Oversight Activities | A4a | 282 | 195 | 184 | 220 |
| Yearly Total | | 282 | 195 | 184 | 220 |

Exhibit A.9

Costs for the ICR Approval Period Year by Year for Facilities

Facility Activities

| | Source (Exhibit) | Year 1 | Year 2 | Year 3 | Annual Average |
|--|---------------------|---------------------|---------------------|---------------------|--------------------|
| | | 12/2011- 11/2012 | 12/2012- 11/2013 | 12/2013- 11/2014 | |
| NPDES Permit Application Activities | | | | | |
| Start-up Activities | A1a | \$19,314 | \$19,314 | \$11,036 | \$16,555 |
| Permit Application Activities | A1b | \$49,503 | \$49,503 | \$28,288 | \$42,431 |
| Source Waterbody Flow Information | A1c | \$30,313 | \$30,313 | \$17,322 | \$25,982 |
| Use Existing Data- Source Water Baseline Biological Characterization | | | | | |
| Data | A1d | \$102,810 | \$102,810 | \$58,748 | \$88,123 |
| CWIS Flow Reduction Requirements (Track 1) | A1e | \$24,383 | \$24,383 | \$14,630 | \$21,132 |
| CWIS Velocity Requirements (Track 1) | A1f | \$35,004 | \$35,004 | \$21,002 | \$30,337 |
| Design and Construction Technology Plan (Track 1) | A1g | \$28,329 | \$28,329 | \$16,997 | \$24,552 |
| Comprehensive Demonstration Study Plan (Track 2) | A1h | \$31,738 | \$31,738 | \$15,869 | \$26,448 |
| Freshwater Source Water Baseline Biological Characterization Study | | | | | |
| (Track 2) | A1i | \$622,958 | \$373,775 | \$373,775 | \$456,836 |
| Estuary Source Water Baseline Biological Characterization Study (Track | | | | | |
| 2) | A1i | \$159,282 | \$159,282 | \$159,282 | \$159,282 |
| Profile of Source Water Biota for Characterization Study (Track 2) | A1i | \$56,939 | \$56,939 | \$28,470 | \$47,450 |
| Submit Characterization Study (Track 2) | A1i | \$93,442 | \$23,360 | \$70,081 | \$62,294 |
| Freshwater Evaluation of Potential CWIS Effects (Track 2) | A1j | \$416,084 | \$104,021 | \$208,042 | \$242,716 |
| Estuary Evaluation of Potential CWIS Effects (Track 2) | A1j | \$0 | \$0 | \$121,414 | \$40,471 |
| Verification Monitoring Plan (Track 2) | A1k | \$15,319 | \$15,319 | \$7,660 | \$12,766 |
| NPDES Permit Application Activity Total | | \$1,685,417 | \$1,054,090 | \$1,152,616 | \$1,297,375 |
| NPDES Repermitting Activities | | | | | |
| Start-up Activities | A12a | \$10,591 | \$11,474 | \$11,474 | \$11,180 |
| Permit Application Activities | A12b | \$44,711 | \$48,437 | \$48,437 | \$47,195 |
| Source Waterbody Flow Information | A12c | \$15,258 | \$16,530 | \$16,530 | \$16,106 |
| Source Water Baseline Biological Characterization Data | A12d | \$53,360 | \$57,807 | \$57,807 | \$56,325 |
| CWIS Flow Reduction Requirements (Track 1) | A12e | \$24,383 | \$48,766 | \$39,013 | \$37,387 |
| CWIS Velocity Requirements (Track 1) | A12f | \$18,744 | \$37,488 | \$29,990 | \$28,741 |
| Design and Construction Technology Plan (Track 1) | A12g | \$11,199 | \$22,398 | \$17,918 | \$17,172 |
| Comprehensive Demonstration Study Plan (Track 2) | A12h | \$32,380 | \$13,877 | \$23,129 | \$23,129 |
| Freshwater Source Water Baseline Biological Characterization Study | | | | | |
| (Track 2) | A12i | \$569,431 | \$569,431 | \$498,252 | \$545,705 |
| Estuary Source Water Baseline Biological Characterization Study (Track | | | | | |
| 2) | A12i | \$368,518 | \$276,388 | \$276,388 | \$307,098 |
| Profile of Source Water Biota for Characterization Study (Track 2) | A12i | \$60,923 | \$26,110 | \$43,517 | \$43,517 |
| Submit Characterization Study (Track 2) | A12i | \$28,201 | \$42,302 | \$35,252 | \$35,252 |
| NPDES Repermitting Activity Total | | \$1,237,699 | \$1,171,007 | \$1,097,706 | \$1,168,804 |
| Annual Activities | | | | | |
| Freshwater Verification Study (Track 2) | A2a | \$13,357 | \$6,678 | \$6,678 | \$8,904 |
| Estuary Verification Study (Track 2) | A2b | \$0 | \$0 | \$8,930 | \$2,977 |
| Initial Biological Monitoring for Impingement (Freshwater) | A2c1 | \$273,230 | \$296,000 | \$318,769 | \$296,000 |
| Reduced Biological Monitoring for Impingement (Freshwater) | A2c2 | \$483,328 | \$563,882 | \$621,421 | \$556,210 |
| Initial Biological Monitoring for Impingement (Estuary) | A2d1 | \$28,952 | \$57,904 | \$28,952 | \$38,602 |
| Reduced Biological Monitoring for Impingement (Estuary) | A2d2 | \$132,555 | \$132,555 | \$147,283 | \$137,464 |
| Initial Biological Monitoring for Entrainment (Freshwater) | A2e1 | \$448,668 | \$486,057 | \$523,446 | \$486,057 |
| Reduced Biological Monitoring for Entrainment (Freshwater) | A2e2 | \$788,672 | \$920,117 | \$1,014,007 | \$907,599 |
| Initial Biological Monitoring for Entrainment (Estuary) | A2f1 | \$46,689 | \$93,379 | \$46,689 | \$62,253 |
| Reduced Biological Monitoring for Entrainment (Estuary) | A2f2 | \$212,544 | \$212,544 | \$236,160 | \$220,416 |
| Velocity Monitoring | A2g | \$448,333 | \$511,380 | \$553,411 | \$504,374 |
| Visual Inspection of Installed Technologies | A2h | \$275,719 | \$323,671 | \$335,658 | \$311,683 |
| Yearly Status Report Activities | A2i | \$1,479,757 | \$1,687,848 | \$1,826,575 | \$1,664,726 |
| Annual Activity Yearly Labor Total | | \$4,631,803 | \$5,292,013 | \$5,667,979 | \$5,197,265 |
| Yearly Labor Total | | \$7,554,920 | \$7,517,110 | \$7,918,301 | \$7,663,444 |

Facility O&M

| | Source (Exhibit) | Year 1 | Year 2 | Year 3 | Annual Average |
|--|---------------------|---------------------|---------------------|---------------------|--------------------|
| | | 12/2011- 11/2012 | 12/2012- 11/2013 | 12/2013- 11/2014 | |
| NPDES Application | | | | | |
| Purchase and Installation of Remote Monitoring Device | A.1k | \$290,000 | \$290,000 | \$174,000 | \$251,333 |
| Purchase & Installation of Pilot Study Technology | A.1j | \$1,140,000 | \$285,000 | \$855,000 | \$760,000 |
| Operation & Maintenance of Pilot Technology | A.1j | \$130,000 | \$32,500 | \$97,500 | \$86,667 |
| Biological Study Laboratory Analysis (Freshwater) | A.1i | \$211,000 | \$126,600 | \$126,600 | \$154,733 |
| Biological Study Laboratory Analysis (Estuary) | A.1i | \$54,867 | \$54,867 | \$54,867 | \$54,867 |
| Pilot Study Entrainment Laboratory Analysis (Freshwater) | A.1j | \$26,000 | \$6,500 | \$13,000 | \$15,167 |
| Pilot Study Entrainment Laboratory Analysis (Estuary) | A.1j | \$0 | \$0 | \$8,400 | \$2,800 |
| Other Direct Costs | A.1a-k | \$49,545 | \$40,645 | \$31,715 | \$40,635 |
| Repermitting | | | | | |
| Biological Study Laboratory Analysis (Freshwater) | A.12i | \$202,400 | \$202,400 | \$177,100 | \$193,967 |
| Biological Study Laboratory Analysis (Estuary) | A.12i | \$131,600 | \$98,700 | \$98,700 | \$109,667 |
| Other Direct Costs | A.12a-i | \$56,500 | \$59,825 | \$56,605 | \$57,643 |
| Annual | | | | | |
| Operation of Remote Sensing Device | A.2f | \$8,815 | \$9,890 | \$10,965 | \$9,890 |
| Identify & Enumerate Entrained Freshwater Biota | A.2f | \$453,600 | \$520,800 | \$571,200 | \$515,200 |
| Identify & Enumerate Entrained Estuary Biota | A.2f | \$110,000 | \$121,000 | \$121,000 | \$117,333 |
| Other Direct Costs | A.2a-f | \$128,930 | \$146,625 | \$157,765 | \$144,440 |
| Equipment Capital Cost Subtotal | | \$1,438,815 | \$584,890 | \$1,039,965 | \$1,021,223 |
| Equipment O&M Cost Subtotal | | \$130,000 | \$32,500 | \$97,500 | \$86,667 |
| Laboratory Analysis Subtotal | | \$1,189,467 | \$1,130,867 | \$1,170,867 | \$1,163,733 |
| Other Direct Costs Subtotal | | \$234,975 | \$247,095 | \$246,085 | \$242,718 |
| Yearly O&M Total | | \$2,993,257 | \$1,995,352 | \$2,554,417 | \$2,514,342 |

Exhibit A.10

**Costs for the ICR Approval Period Year by Year
for Directors and Federal Government**

Director Activities

| | Source (Exhibit) | Year 1 | Year 2 | Year 3 | Annual Average |
|---------------------------------------|---------------------|---------------------|---------------------|---------------------|-------------------|
| | | 12/2011- 11/2012 | 12/2012- 11/2013 | 12/2013- 11/2014 | |
| Director Permit Issuance Activities | A3a | \$205,701 | \$97,953 | \$143,856 | \$149,170 |
| Verification Study Review | A3b | \$2,034 | \$1,017 | \$2,034 | \$1,695 |
| Director Permit Reissuance Activities | A13 | \$52,598 | \$81,360 | \$75,864 | \$69,941 |
| Annual Director Activities | A3c | \$157,530 | \$179,682 | \$194,451 | \$177,221 |
| Yearly Total | | \$417,863 | \$360,013 | \$416,205 | \$398,027 |

Director O&M

| | Source (Exhibit) | Year 1 | Year 2 | Year 3 | Annual Average |
|---|---------------------|---------------------|---------------------|---------------------|-------------------|
| | | 12/2011- 11/2012 | 12/2012- 11/2013 | 12/2013- 11/2014 | |
| Start-Up & NPDES Application | | | | | |
| Other Direct Costs | A3a-b | \$3,035 | \$2,005 | \$2,060 | \$2,367 |
| Annual | | | | | |
| Other Direct Costs | A3c | \$3,520 | \$4,015 | \$4,345 | \$3,960 |
| Yearly O&M Cost Total | | \$6,555 | \$6,020 | \$6,405 | \$6,327 |

Federal Labor Activities

| | Source (Exhibit) | Year 1 | Year 2 | Year 3 | Annual Average |
|---|---------------------|---------------------|---------------------|---------------------|-------------------|
| | | 12/2011- 11/2012 | 12/2012- 11/2013 | 12/2013- 11/2014 | |
| Federal Permit Program Oversight Activities | A4b | 13,719 | 9,456 | 8,955 | \$10,710 |
| Yearly Total | | \$13,719 | \$9,456 | \$8,955 | \$10,710 |

Federal O&M

| | Source (Exhibit) | Year 1 | Year 2 | Year 3 | Annual Average |
|---------------------------------------|---------------------|---------------------|---------------------|---------------------|-------------------|
| | | 12/2011- 11/2012 | 12/2012- 11/2013 | 12/2013- 11/2014 | |
| Federal Permit Program Oversight ODCs | A4a | \$495 | \$330 | \$330 | \$385 |
| Yearly Total | | \$495 | \$330 | \$330 | \$385 |

Exhibit A.11

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

Facilities

| | Source (Exhibit)* | Year 1 | Year 2 | Year 3 | Annual Average | Three Year Total |
|----------------------------|-------------------|---------------------|--------------------|---------------------|---------------------|---------------------|
| | | 12/2011-11/2012 | 12/2012-11/2013 | 12/2013-11/2014 | | |
| Burden (hours) | A7 | 129,855 | 129,752 | 133,956 | 131,188 | 393,564 |
| Respondents (number) | A5 | 75 | 82 | 86 | 81 | 86 |
| Responses (number) | A6 | 437 | 480 | 485 | 467 | 1,402 |
| Costs (labor) | A9 | \$7,554,920 | \$7,517,110 | \$7,918,301 | \$7,663,444 | \$22,990,331 |
| Costs (capital) | A9 | \$1,438,815 | \$584,890 | \$1,039,965 | \$1,021,223 | \$3,063,670 |
| Costs (equipment O&M) | A9 | \$130,000 | \$32,500 | \$97,500 | \$86,667 | \$260,000 |
| Costs (lab analysis) | A9 | \$1,189,467 | \$1,130,867 | \$1,170,867 | \$1,163,733 | \$3,491,200 |
| Costs (other direct costs) | A9 | \$234,975 | \$247,095 | \$246,085 | \$242,718 | \$728,155 |
| Total Costs | | \$10,548,177 | \$9,512,462 | \$10,472,717 | \$10,177,785 | \$30,533,356 |

Directors

| | Source (Exhibit)* | Year 1 | Year 2 | Year 3 | Annual Average | Three Year Total |
|----------------------------|-------------------|------------------|------------------|------------------|------------------|--------------------|
| | | 12/2011-11/2012 | 12/2012-11/2013 | 12/2013-11/2014 | | |
| Burden (hours) | A8 | 7,430 | 6,710 | 7,560 | 7,233 | 21,700 |
| Respondents (number) | A5 | 47 | 47 | 47 | 47 | 47 |
| Responses (number) | A6 | 380 | 435 | 445 | 420 | 1,260 |
| Costs(labor) | A10 | \$417,863 | \$360,013 | \$416,205 | \$398,027 | \$1,194,081 |
| Costs (other direct costs) | A10 | \$6,555 | \$6,020 | \$6,405 | \$6,327 | \$18,980 |
| Total Costs | | \$424,418 | \$366,033 | \$422,610 | \$404,354 | \$1,213,061 |

Federal Government

| | Source (Exhibit) | Year 1 | Year 2 | Year 3 | Annual Average | Three Year Total |
|--------------------|------------------|-----------------|-----------------|-----------------|-----------------|------------------|
| | | 12/2011-11/2012 | 12/2012-11/2013 | 12/2013-11/2014 | | |
| Burden (hours) | A8 | 282 | 195 | 184 | 220 | 661 |
| Costs(labor) | A10 | \$13,719 | \$9,456 | \$8,955 | \$10,710 | \$32,130 |
| Costs (O&M) | A10 | \$495 | \$330 | \$330 | \$385 | \$1,155 |
| Total Costs | | \$14,214 | \$9,786 | \$9,285 | \$11,095 | \$33,285 |

Totals for Respondents (Facilities and Directors)*

| | Annual Average | Three Year Total |
|---|---------------------|---------------------|
| Total Respondent Burden (hours) | 138,421 | 415,264 |
| Total Respondents (number) | 128 | 133 |
| Total Respondent Labor Costs | \$8,061,471 | \$24,184,412 |
| Total Respondent Capital and O&M Cost | \$2,520,668 | \$7,302,005 |
| Total Respondent Cost for All Activities | \$10,582,139 | \$31,746,417 |

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

**Exhibit A.12
Facility Cost and Burden Estimates for NPDES Permit Renewal Activities**

**Exhibit A.12a
Start-up Activities**

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | | Total Burden (hrs.) | Total Initial Cost |
|--------------------------|-------------------------------|-----------|-----------|-----------|-----------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|---|--------------|---------------|-------------|---------------|---------------------|--------------------|
| | Assumed Loaded Hourly Rate \$ | | | | \$99 | \$41 | \$39 | \$125 | \$64 | \$80 | \$45 | \$23 | Burden (hrs) | Labor Cost | Capital Costs | O&M Costs | Total Costs** | | |
| | Year 1 | Year 2 | Year 3 | Total | | | | | | | | | | | | | | | |
| | A | | | | Level of Effort (hrs) | | | | | | | | B | C | D | E | C+D+E | | |
| Read and Understand Rule | 12 | 13 | 13 | 38 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | \$561 | \$0 | \$0 | | 304 | \$21,310 |
| Mobilization/Planning | 12 | 13 | 13 | 38 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | \$182 | \$0 | \$0 | | 114 | \$6,901 |
| Training | 12 | 13 | 13 | 38 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | \$140 | \$0 | \$0 | | 76 | \$5,328 |
| Other Direct Costs | 12 | 13 | 13 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$55 | | - | \$2,090 |
| Totals | 12 | 13 | 13 | 38 | | | | | | | | | 13 | \$883 | \$0 | \$55 | \$938 | 494 | \$35,629 |

**Exhibit A.12b
Permit Application Activities**

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | | Total Burden (hrs.) | Total Initial Cost |
|--|-------------------------------|-----------|-----------|-----------|-----------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|---|----------------|---------------|--------------|----------------|---------------------|--------------------|
| | Assumed Loaded Hourly Rate \$ | | | | \$99 | \$41 | \$39 | \$125 | \$64 | \$80 | \$45 | \$23 | Burden (hrs) | Labor Cost | Capital Costs | O&M Costs | Total Costs** | | |
| | Year 1 | Year 2 | Year 3 | Total | | | | | | | | | | | | | | | |
| | A | | | | Level of Effort (hrs) | | | | | | | | B | C | D | E | C+D+E | | |
| Detailed Source Water Body Characterization | 12 | 13 | 13 | 38 | 1 | 5 | 12 | 0 | 0 | 0 | 0 | 0 | 18 | \$768 | \$0 | \$0 | | 684 | \$29,176 |
| Description of CWIS Configuration and Location | 12 | 13 | 13 | 38 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | \$80 | \$0 | \$0 | | 76 | \$3,036 |
| Facility Water Balance Diagram | 12 | 13 | 13 | 38 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | \$179 | \$0 | \$0 | | 114 | \$6,791 |
| Operational Characteristics Narrative | 12 | 13 | 13 | 38 | 12 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 42 | \$2,428 | \$0 | \$0 | | 1,596 | \$92,249 |
| Submit Materials for Review by State | 12 | 13 | 13 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | \$70 | \$0 | \$0 | | 114 | \$2,656 |
| Recordkeeping | 12 | 13 | 13 | 38 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 4 | \$202 | \$0 | \$0 | | 152 | \$7,676 |
| Other Direct Costs | 12 | 13 | 13 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$540 | | - | \$20,520 |
| Totals | 12 | 13 | 13 | 38 | | | | | | | | | 72 | \$3,726 | \$0 | \$540 | \$4,266 | 2,736 | \$162,104 |

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.12c
Source Waterbody Flow Information**

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | | Total Burden (hrs.) | Total Initial Cost |
|--|-------------------------------|-----------|-----------|-----------|-----------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|---|----------------|---------------|--------------|----------------|---------------------|--------------------|
| | Assumed Loaded Hourly Rate \$ | | | | \$99 | \$41 | \$39 | \$125 | \$64 | \$80 | \$45 | \$23 | Burden (hrs) | Labor Cost | Capital Costs | O&M Costs | Total Costs** | | |
| | Year 1 | Year 2 | Year 3 | Total | | | | | | | | | | | | | | | |
| | A | | | | Level of Effort (hrs) | | | | | | | | B | C | D | E | C+D+E | | |
| Gather Information Characterizing Flow | 12 | 13 | 13 | 38 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | \$414 | \$0 | \$0 | | 380 | \$15,732 |
| Perform Engineering Calculations | 12 | 13 | 13 | 38 | 2 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | \$612 | \$0 | \$0 | | 456 | \$23,241 |
| Submit Data and Analysis for Review | 12 | 13 | 13 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 | \$117 | \$0 | \$0 | | 190 | \$4,427 |
| Recordkeeping | 12 | 13 | 13 | 38 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | \$129 | \$0 | \$0 | | 152 | \$4,917 |
| Other Direct Costs | 12 | 13 | 13 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$110 | | - | \$4,180 |
| Totals | 12 | 13 | 13 | 38 | | | | | | | | | 31 | \$1,272 | \$0 | \$110 | \$1,382 | 1,178 | \$52,497 |

Exhibit A.12d

Source Water Baseline Biological Characterization Data

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | | Total Burden (hrs.) | Total Initial Cost |
|--|--------------------------|-----------|-----------|-----------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|---|----------------|---------------|--------------|----------------|---------------------|--------------------|
| | | | | | Assumed Loaded Hourly Rate \$ | | | | | | | | Burden (hrs) | Labor Cost | Capital Costs | O&M Costs | Total Costs** | | |
| | Year 1 | Year 2 | Year 3 | Total | \$99 | \$41 | \$39 | \$125 | \$64 | \$80 | \$45 | \$23 | | | | | | B | C |
| | A | | | | Level of Effort (hrs) | | | | | | | | B | C | D | E | C+D+E | A*B | A*(C+D+E) |
| Identify Available Data and Document Efforts | 12 | 13 | 13 | 38 | 12 | 24 | 0 | 0 | 0 | 0 | 0 | 2 | 38 | \$2,226 | \$0 | \$0 | \$0 | 1,444 | \$84,580 |
| Compile and Analyze Existing Data | 12 | 13 | 13 | 38 | 10 | 18 | 6 | 0 | 0 | 0 | 0 | 1 | 35 | \$1,988 | \$0 | \$0 | \$0 | 1,330 | \$75,525 |
| Submit Data for Review by State | 12 | 13 | 13 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | \$47 | \$0 | \$0 | \$0 | 76 | \$1,771 |
| Recordkeeping | 12 | 13 | 13 | 38 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | \$187 | \$0 | \$0 | \$0 | 152 | \$7,098 |
| Other Direct Costs | 12 | 13 | 13 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$810 | \$0 | - | \$30,780 |
| Totals | 12 | 13 | 13 | 38 | | | | | | | | | 79 | \$4,447 | \$0 | \$810 | \$5,257 | 3,002 | \$199,755 |

Exhibit A.12e

CWIS Flow Reduction Requirements (Track 1)

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | | Total Burden (hrs.) | Total Initial Cost |
|--|--------------------------|-----------|----------|-----------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|---|----------------|---------------|--------------|----------------|---------------------|--------------------|
| | | | | | Assumed Loaded Hourly Rate \$ | | | | | | | | Burden (hrs) | Labor Cost | Capital Costs | O&M Costs | Total Costs** | | |
| | Year 1 | Year 2 | Year 3 | Total | \$99 | \$41 | \$39 | \$125 | \$64 | \$80 | \$45 | \$23 | | | | | | B | C |
| | A | | | | Level of Effort (hrs) | | | | | | | | B | C | D | E | C+D+E | A*B | A*(C+D+E) |
| Develop Narrative | 5 | 10 | 8 | 23 | 8 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | \$1,453 | \$0 | \$0 | \$0 | 552 | \$33,414 |
| Perform Engineering Calculations | 5 | 10 | 8 | 23 | 4 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | \$892 | \$0 | \$0 | \$0 | 368 | \$20,516 |
| Document Minimization of Blow Down and Flows Not | 5 | 10 | 8 | 23 | 0 | 40 | 0 | 0 | 0 | 0 | 0 | 6 | 46 | \$1,796 | \$0 | \$0 | \$0 | 1,058 | \$41,303 |
| Submit Data and Analysis for Review | 5 | 10 | 8 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | \$186 | \$0 | \$0 | \$0 | 184 | \$4,287 |
| Recordkeeping | 5 | 10 | 8 | 23 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 8 | 14 | \$550 | \$0 | \$0 | \$0 | 322 | \$12,641 |
| Other Direct Costs | 5 | 10 | 8 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$435 | \$0 | - | \$10,005 |
| Totals | 5 | 10 | 8 | 23 | | | | | | | | | 108 | \$4,877 | \$0 | \$435 | \$5,312 | 2,484 | \$122,167 |

Exhibit A.12f

CWIS Velocity Requirements (Track 1)

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | | Total Burden (hrs.) | Total Initial Cost |
|-------------------------------------|--------------------------|-----------|----------|-----------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|---|----------------|---------------|----------------|----------------|---------------------|--------------------|
| | | | | | Assumed Loaded Hourly Rate \$ | | | | | | | | Burden (hrs) | Labor Cost | Capital Costs | O&M Costs | Total Costs** | | |
| | Year 1 | Year 2 | Year 3 | Total | \$99 | \$41 | \$39 | \$125 | \$64 | \$80 | \$45 | \$23 | | | | | | B | C |
| | A | | | | Level of Effort (hrs) | | | | | | | | B | C | D | E | C+D+E | A*B | A*(C+D+E) |
| Develop Narrative | 5 | 10 | 8 | 23 | 5 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | \$908 | \$0 | \$0 | \$0 | 345 | \$20,884 |
| Perform Engineering Calculations | 5 | 10 | 8 | 23 | 8 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 40 | \$2,115 | \$0 | \$0 | \$0 | 920 | \$48,650 |
| Submit Data and Analysis for Review | 5 | 10 | 8 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | \$186 | \$0 | \$0 | \$0 | 184 | \$4,287 |
| Revise Based on State review | 5 | 10 | 8 | 23 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | \$306 | \$0 | \$0 | \$0 | 138 | \$7,033 |
| Recordkeeping | 5 | 10 | 8 | 23 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 6 | \$233 | \$0 | \$0 | \$0 | 138 | \$5,368 |
| Other Direct Costs | 5 | 10 | 8 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$1,080 | \$0 | - | \$24,840 |
| Totals | 5 | 10 | 8 | 23 | | | | | | | | | 75 | \$3,749 | \$0 | \$1,080 | \$4,829 | 1,725 | \$111,062 |

**Exhibit A.12g
Design and Construction Technology Plan (Track 1)**

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | | Total Burden (hrs.) | Total Initial Cost |
|---------------------------------------|--------------------------|-----------|----------|-----------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|---|----------------|---------------|-------------|----------------|---------------------|--------------------|
| | Year 1 | Year 2 | Year 3 | Total | Assumed Loaded Hourly Rate \$ | | | | | | | | Burden (hrs) | Labor Cost | Capital Costs | O&M Costs | Total Costs** | A*B | A*(C+D+E) |
| | \$99 | \$41 | \$39 | \$125 | \$64 | \$80 | \$45 | \$23 | | | | | | | | | | | |
| | A | | | | Level of Effort (hrs) | | | | | | | | B | C | D | E | C+D+E | A*B | A*(C+D+E) |
| Delineate Hydraulic Zone of Influence | 5 | 10 | 8 | 23 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 5 | \$259 | \$0 | \$0 | 115 | \$5,948 | |
| Develop Narrative Description | 5 | 10 | 8 | 23 | 5 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | \$908 | \$0 | \$0 | 345 | \$20,884 | |
| Perform Engineering Calculations | 5 | 10 | 8 | 23 | 3 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | \$793 | \$0 | \$0 | 345 | \$18,244 | |
| Submit Data and Analysis for Review | 5 | 10 | 8 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | \$70 | \$0 | \$0 | 69 | \$1,608 | |
| Recordkeeping | 5 | 10 | 8 | 23 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 5 | \$210 | \$0 | \$0 | 115 | \$4,832 | |
| Other Direct Costs | 5 | 10 | 8 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$55 | - | \$1,265 | |
| Totals | 5 | 10 | 8 | 23 | | | | | | | | | 43 | \$2,240 | \$0 | \$55 | \$2,295 | 989 | \$52,780 |

**Exhibit A.12h
Comprehensive Demonstration Study Plan (Track 2)**

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | | Total Burden (hrs.) | Total Initial Cost |
|--|--------------------------|----------|----------|-----------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|---|----------------|---------------|--------------|----------------|---------------------|--------------------|
| | Year 1 | Year 2 | Year 3 | Total | Assumed Loaded Hourly Rate \$ | | | | | | | | Burden (hrs) | Labor Cost | Capital Costs | O&M Costs | Total Costs** | A*B | A*(C+D+E) |
| | \$99 | \$41 | \$39 | \$125 | \$64 | \$80 | \$45 | \$23 | | | | | | | | | | | |
| | A | | | | Level of Effort (hrs) | | | | | | | | B | C | D | E | C+D+E | A*B | A*(C+D+E) |
| Description of Historical Studies that will be Used | 7 | 3 | 5 | 15 | 6 | 12 | 0 | 0 | 0 | 0 | 0 | 1 | 19 | \$1,113 | \$0 | \$0 | 285 | \$16,694 | |
| Description of Proposed and/or Implemented Technologies | 7 | 3 | 5 | 15 | 2 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | \$446 | \$0 | \$0 | 120 | \$6,690 | |
| Develop Baseline Biological Characterization Sampling Plan | 7 | 3 | 5 | 15 | 12 | 18 | 2 | 2 | 0 | 0 | 0 | 1 | 35 | \$2,282 | \$0 | \$0 | 525 | \$34,229 | |
| Submit Data and Plans for Review | 7 | 3 | 5 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | \$93 | \$0 | \$0 | 60 | \$1,398 | |
| Revise Based on State Review | 7 | 3 | 5 | 15 | 2 | 5 | 1 | 0 | 0 | 0 | 0 | 1 | 9 | \$466 | \$0 | \$0 | 135 | \$6,996 | |
| Recordkeeping | 7 | 3 | 5 | 15 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 5 | \$225 | \$0 | \$0 | 75 | \$3,380 | |
| Other Direct Costs | 7 | 3 | 5 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$810 | - | \$12,150 | |
| Totals | 7 | 3 | 5 | 15 | | | | | | | | | 80 | \$4,626 | \$0 | \$810 | \$5,436 | 1,200 | \$81,536 |

**Exhibit A.12i
Source Water Baseline Biological Characterization Study (Track 2)**

| Activity | Facilities (Respondents) | | | | Facility Manager | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period | | | | | Total Burden (hrs.) | Total Initial Cost |
|---|--------------------------|--------|--------|----------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|---|------------------|-----------------|----------------|------------------|---------------------|--------------------|
| | Year 1 | Year 2 | Year 3 | Total | Assumed Loaded Hourly Rate \$ | | | | | | | | Burden (hrs) | Labor Cost | Capital Costs | O&M Costs | Total Costs** | A*B | A*(C+D+E) |
| | \$99 | \$41 | \$39 | \$125 | \$64 | \$80 | \$45 | \$23 | | | | | | | | | | | |
| | A | | | | Level of Effort (hrs) | | | | | | | | B | C | D | E | C+D+E | A*B | A*(C+D+E) |
| Implement Freshwater Sampling | 8 | 8 | 7 | 8 | 2 | 16 | 0 | 36 | 1248 | 20 | 1248 | 10 | 2580 | \$142,358 | \$0 | \$0 | 29,670 | \$1,637,115 | |
| Other Direct Costs for Implement Freshwater Sampling | 8 | 8 | 7 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$3,400 | - | \$39,100 | |
| Implement Estuary Sampling | 4 | 3 | 3 | 4 | 3 | 30 | 0 | 48 | 2457 | 30 | 2457 | 15 | 5040 | \$276,388 | \$0 | \$0 | 16,800 | \$921,294 | |
| Other Direct Costs for Implement Estuary Sampling | 4 | 3 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$8,400 | - | \$28,000 | |
| Biological Study Laboratory Analysis (Freshwater) | 8 | 8 | 7 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$50,600 | - | \$581,900 | |
| Biological Study Laboratory Analysis (Estuary) | 4 | 3 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$98,700 | - | \$329,000 | |
| Profile of Source Water Biota | 7 | 3 | 5 | 15 | 10 | 6 | 0 | 10 | 18 | 0 | 6 | 2 | 52 | \$3,951 | \$0 | \$0 | 780 | \$59,268 | |
| Identification of Critical Species | 7 | 3 | 5 | 15 | 10 | 6 | 0 | 6 | 12 | 0 | 0 | 1 | 35 | \$2,777 | \$0 | \$0 | 525 | \$41,648 | |
| Description of Additional Stresses | 7 | 3 | 5 | 15 | 5 | 3 | 0 | 5 | 9 | 0 | 3 | 1 | 26 | \$1,976 | \$0 | \$0 | 390 | \$29,634 | |
| Write Study based on Results and Submit for Review by | 4 | 6 | 5 | 15 | 24 | 48 | 0 | 5 | 2 | 2 | 0 | 2 | 83 | \$5,319 | \$0 | \$0 | 1,245 | \$79,779 | |
| Recordkeeping | 4 | 6 | 5 | 15 | 2 | 4 | 0 | 2 | 0 | 0 | 0 | 7 | 15 | \$777 | \$0 | \$0 | 225 | \$11,657 | |
| Finalize study based on State review | 4 | 6 | 5 | 15 | 5 | 10 | 0 | 0 | 0 | 0 | 0 | 2 | 17 | \$955 | \$0 | \$0 | 255 | \$14,319 | |
| Freshwater Totals | | | | 8 | | | | | | | | | 2,808 | \$158,111 | \$50,600 | \$3,400 | \$212,111 | 32,291 | \$2,440,108 |
| Marine Totals | | | | 4 | | | | | | | | | 5,268 | \$292,142 | \$98,700 | \$8,400 | \$399,242 | 17,599 | \$1,332,605 |

Total Burden and Costs for All NPDES Application Activities

| | | | | | | | | | | | | Total Burden (hrs.) | Total Initial Cost |
|---------------|--|--|--|--|--|--|--|--|--|--|--|---------------------|--------------------|
| Totals | | | | | | | | | | | | 63,698 | \$4,590,242 |

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

**Exhibit A.13
Director Burden and Cost Estimates for Permit Renewal**

**Exhibit A.13
Director Permit Reissuance Activities**

| Activity | Senior | Junior | Clerical | Burden Per Permit | Labor Cost per Permit | ODCs lump sum* | Total Cost Per Permit |
|--|-----------------------|-----------|----------------|-------------------------|-----------------------------|----------------------|-----------------------------|
| | Technical | Technical | Hourly Rate \$ | | | | |
| | 73 | 40 | 28 | | | | |
| | Level of Effort (hrs) | | | B | C | D | C+D |
| Reviewing CWIS location and design data | 2 | 5 | 0 | 7 | \$344 | | |
| Determine Compliance with Source Waterbody Flow Information | 1 | 2 | 0 | 2 | \$115 | | |
| Review Source Water Baseline Biological Characterization Data | 6 | 6 | 0 | 12 | \$673 | | |
| Review Design and Construction Technology Plan (Track 1) | 7 | 2 | 0 | 10 | \$618 | | |
| Determine Compliance with CWIS Velocity Requirements (Track 1) | 1 | 2 | 0 | 2 | \$115 | | |
| Determine Compliance with CWIS Flow Reduction Requirements (Track 1) | 2 | 2 | 0 | 5 | \$269 | | |
| Review Comprehensive Demonstration Study Plan (Track 2) | 5 | 5 | 0 | 10 | \$539 | | |
| Review Source Water Baseline Biological Characterization Study (Track 2) | 80 | 15 | 0 | 95 | \$6,409 | | |
| Determine Monitoring Frequency | 1 | 2 | 0 | 2 | \$115 | | |
| Determine Record keeping and Reporting Frequency | 1 | 2 | 0 | 2 | \$115 | | |
| Considering Public Comments | 5 | 5 | 0 | 10 | \$539 | | |
| Issuing Permit | 0 | 2 | 0 | 2 | \$101 | | |
| Permit Record Keeping | 0 | 0 | 1 | 1 | \$50 | | |
| Totals | 110 | 50 | 0 | 160 | \$10,001 | \$325 | \$10,326 |
| Track 1 Totals | | | | 55 | \$3,054 | \$325 | \$3,379 |
| Track 2 Totals | | | | 143 | \$8,999 | \$325 | \$9,324 |