

APPENDIX R

**Summary of 1987-93 Data
PAHs in Mussels, Clams, and Sediment
(ppb, wet weight)**

APPENDIX R

State Mussel Watch Program

Summary of 1987-93 Data: PAHs in Mussels, Clams, and Sediment (ppb, wet weight)

| Station Number | Station Name | Sample Type* | Sample Date | Total PAH | Anthracene | Anthracene, benz(a) | Anthracene, dibenz(a,h) | Biphenyl | Chrysene | Fluoranthene |
|----------------|---------------------------|--------------|-------------|-----------|------------|---------------------|-------------------------|----------|----------|--------------|
| 2.0 | Crescent City/STP Outfall | RCM | 02/23/90 | 25.0 | ND | ND | ND | ND | ND | ND |
| 2.0 | Crescent City/STP Outfall | RCM | 02/27/90 | 10.0 | ND | ND | ND | ND | ND | 0.81 |
| 2.0 | Crescent City/STP Outfall | RCM | 03/12/92 | 4.8 | ND | ND | ND | ND | ND | ND |
| 3.0 | Crescent City/Control | RCM | 02/23/90 | 14.0 | ND | ND | ND | ND | ND | ND |
| 3.0 | Crescent City/Control | RCM | 02/27/90 | 4.1 | ND | ND | ND | ND | ND | ND |
| 3.0 | Crescent City/Control | RCM | 03/12/92 | 10.5 | ND | ND | ND | ND | ND | ND |
| 10.0 | Trinidad Head | RCM | 09/28/89 | 20.0 | ND | ND | ND | ND | ND | ND |
| 10.0 | Trinidad Head | RCM | 09/18/90 | 4.3 | ND | ND | ND | ND | ND | ND |
| 10.0 | Trinidad Head | RCM | 10/08/91 | 5.8 | ND | ND | ND | ND | ND | ND |
| 10.0 | Trinidad Head | RCM | 10/22/92 | 6.2 | ND | ND | ND | ND | ND | ND |

| Station Number | Fluoranthene, benzo(b) | Fluoranthene, benzo(k) | Fluorene | Naphthalene | Naphthalene, 1-methyl | Naphthalene, 2-methyl | Naphthalene, 2,6-dimethyl | Naphthalene, 2,3,5-trimethyl | Naphthene, ace |
|----------------|------------------------|------------------------|----------|-------------|-----------------------|-----------------------|---------------------------|------------------------------|----------------|
| 2.0 | ND | NA | ND | 15.00 | ND | 10.00 | ND | ND | ND |
| 2.0 | ND | ND | ND | 4.86 | 1.13 | 1.78 | ND | ND | ND |
| 2.0 | ND | ND | ND | 2.70 | ND | 2.10 | ND | ND | ND |
| 3.0 | ND | NA | ND | 14.00 | ND | ND | ND | ND | ND |
| 3.0 | ND | ND | ND | 3.18 | ND | ND | ND | ND | ND |
| 3.0 | ND | ND | ND | 3.30 | ND | 5.20 | ND | ND | ND |
| 10.0 | ND | NA | ND | 10.00 | ND | 10.00 | ND | ND | ND |
| 10.0 | ND | ND | ND | 2.33 | ND | 1.97 | ND | ND | ND |
| 10.0 | ND | ND | ND | 2.50 | ND | 3.30 | ND | ND | ND |
| 10.0 | ND | ND | ND | 3.10 | ND | 3.10 | ND | ND | ND |

| Station Number | Naphthylene, ace | Perylene | Perylene, benzo(ghi) | Phenanthrene | Phenanthrene, 1-methyl | Pyrene | Pyrene, benzo(a) | Pyrene, benzo(e) | Pyrene, indeno(1,2,3-cd) |
|----------------|------------------|----------|----------------------|--------------|------------------------|--------|------------------|------------------|--------------------------|
| 2.0 | ND | ND | ND | ND | ND | ND | NA | ND | ND |
| 2.0 | ND | ND | ND | 1.46 | ND | ND | ND | ND | ND |
| 2.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 3.0 | ND | ND | ND | ND | ND | ND | NA | ND | ND |
| 3.0 | ND | ND | ND | 0.95 | ND | ND | ND | ND | ND |
| 3.0 | ND | ND | ND | 2.00 | ND | ND | ND | ND | ND |
| 10.0 | ND | ND | ND | ND | ND | ND | NA | ND | ND |
| 10.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 10.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 10.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |

* RCM = Resident California Mussel
 RBM = Resident Bay Mussel
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 ND = Not Detected

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APPENDIX R (continued)

State Mussel Watch Program

Summary of 1987-93 Data: PAHs in Mussels, Clams, and Sediment (ppb, wet weight)

| Station Number | Station Name | Sample Type* | Sample Date | Total PAH | Anthracene | Anthracene, benz(a) | Anthracene, dibenz(a,h) | Biphenyl | Chrysene | Fluoranthene |
|----------------|-------------------|--------------|-------------|-----------|------------|---------------------|-------------------------|----------|----------|--------------|
| 95.0 | McDaniel Slough | SED | 09/18/90 | 0.5 | ND | ND | ND | ND | 0.25 | 0.10 |
| 95.0 | McDaniel Slough | SED | 10/08/91 | 402.6 | 5.00 | 17.00 | ND | 9.60 | 33.00 | 38.00 |
| 100.0 | Mad River Slough | SED | 09/18/90 | 0.2 | ND | ND | ND | ND | 0.03 | 0.05 |
| 100.0 | Mad River Slough | TCM | 02/27/91 | 10.5 | ND | ND | ND | ND | ND | 1.59 |
| 100.0 | Mad River Slough | SED | 10/08/91 | 675.7 | 9.20 | 17.00 | ND | 17.00 | 24.00 | 91.00 |
| 100.5 | Arcata Dock | SED | 09/18/90 | ND | ND | ND | ND | ND | ND | ND |
| 101.0 | Samoa Bridge/West | TCM | 02/27/91 | 29.4 | ND | ND | ND | ND | 1.12 | 5.21 |
| 102.0 | Samoa Bridge/East | TCM | 02/27/91 | 20.6 | ND | ND | ND | ND | ND | 2.72 |
| 102.0 | Samoa Bridge/East | TCM | 02/25/92 | 73.4 | ND | ND | ND | ND | 2.30 | 6.40 |
| 103.0 | Eureka Channel | TCM | 02/27/91 | 34.6 | 2.34 | ND | ND | ND | ND | 6.84 |

| Station Number | Fluoranthene, benzo(b) | Fluoranthene, benzo(k) | Fluorene | Naphthalene | Naphthalene, 1-methyl | Naphthalene, 2-methyl | Naphthalene, 2,6-dimethyl | Naphthalene, 2,3,5-trimethyl | Naphthene, ace |
|----------------|------------------------|------------------------|----------|-------------|-----------------------|-----------------------|---------------------------|------------------------------|----------------|
| 95.0 | ND | NA | ND | ND | ND | ND | ND | ND | 0.04 |
| 95.0 | 15.00 | 7.30 | 9.10 | 24.00 | 11.00 | 25.00 | 14.00 | 7.20 | 4.20 |
| 100.0 | ND | NA | ND | ND | ND | ND | ND | ND | ND |
| 100.0 | ND | ND | ND | 2.07 | ND | 2.07 | ND | ND | ND |
| 100.0 | 25.00 | 8.30 | 34.00 | 46.00 | 32.00 | 45.00 | 32.00 | 17.00 | 14.00 |
| 100.5 | ND | NA | ND | ND | ND | ND | ND | ND | ND |
| 101.0 | ND | ND | 1.67 | 2.79 | ND | 2.79 | ND | ND | ND |
| 102.0 | ND | ND | 1.44 | 4.16 | ND | 2.72 | ND | ND | ND |
| 102.0 | ND | ND | 3.10 | 10.00 | 7.60 | 24.00 | 3.20 | ND | ND |
| 103.0 | ND | ND | ND | 3.96 | ND | 3.42 | ND | ND | ND |

| Station Number | Naphthylene, ace | Perylene | Perylene, benzo(ghi) | Phenanthrene | Phenanthrene, 1-methyl | Pyrene | Pyrene, benzo(a) | Pyrene, benzo(e) | Pyrene, indeno(1,2,3-cd) |
|----------------|------------------|----------|----------------------|--------------|------------------------|--------|------------------|------------------|--------------------------|
| 95.0 | ND | ND | ND | 0.03 | ND | 0.11 | ND | ND | ND |
| 95.0 | 3.90 | 9.60 | 20.00 | 56.00 | 13.00 | 47.00 | 7.90 | 18.00 | 7.80 |
| 100.0 | ND | ND | ND | 0.03 | ND | 0.04 | ND | ND | ND |
| 100.0 | ND | ND | ND | 3.02 | ND | 1.75 | ND | ND | ND |
| 100.0 | 7.80 | 28.00 | 17.00 | 94.00 | 28.00 | 70.00 | ND | 13.00 | 6.40 |
| 100.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 101.0 | ND | ND | ND | 10.42 | ND | 5.39 | ND | ND | ND |
| 102.0 | ND | ND | ND | 6.24 | ND | 3.36 | ND | ND | ND |
| 102.0 | ND | ND | ND | 10.00 | ND | 6.80 | ND | ND | ND |
| 103.0 | ND | ND | ND | 11.88 | ND | 6.12 | ND | ND | ND |

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APPENDIX R (continued)

State Mussel Watch Program

Summary of 1987-93 Data: PAHs in Mussels, Clams, and Sediment (ppb, wet weight)

| Station Number | Station Name | Sample Type* | Sample Date | Total PAH | Anthracene | Anthracene, benz(a) | Anthracene, dibenz(a,h) | Biphenyl | Chrysene | Fluoranthene |
|----------------|--------------------|--------------|-------------|-----------|------------|---------------------|-------------------------|----------|----------|--------------|
| 103.0 | Eureka Channel | TCM | 02/17/93 | 44.7 | ND | ND | ND | ND | ND | 5.00 |
| 103.3 | E Street | TCM | 02/27/91 | 96.5 | 3.17 | 1.67 | ND | ND | 4.01 | 18.37 |
| 103.3 | E Street | TCM | 02/25/92 | 42.5 | ND | ND | ND | ND | ND | 7.60 |
| 103.7 | Eda Dock | TCM | 02/27/91 | 53.4 | ND | ND | ND | ND | 2.05 | 10.74 |
| 104.0 | Eureka STP/Outfall | TCM | 02/23/90 | ND | ND | ND | ND | ND | ND | ND |
| 104.0 | Eureka STP/Outfall | TCM | 02/27/91 | 12.9 | 2.06 | ND | ND | ND | ND | ND |
| 104.0 | Eureka STP/Outfall | TCM | 02/25/92 | 31.0 | ND | ND | ND | ND | ND | 3.80 |
| 104.5 | Eureka STP/Control | TCM | 02/23/90 | ND | ND | ND | ND | ND | ND | ND |
| 104.5 | Eureka STP/Control | TCM | 02/27/91 | 6.6 | ND | ND | ND | ND | ND | ND |
| 104.5 | Eureka STP/Control | TCM | 02/25/92 | 9.0 | ND | ND | ND | ND | ND | ND |

| Station Number | Fluoranthene, benzo(b) | Fluoranthene, benzo(k) | Fluorene | Naphthalene | Naphthalene, 1-methyl | Naphthalene, 2-methyl | Naphthalene, 2,6-dimethyl | Naphthalene, 2,3,5-trimethyl | Naphthene, ace |
|----------------|------------------------|------------------------|----------|-------------|-----------------------|-----------------------|---------------------------|------------------------------|----------------|
| 103.0 | ND | ND | 2.90 | 4.90 | 3.00 | 8.20 | ND | 2.70 | ND |
| 103.3 | ND | ND | 2.84 | 4.68 | 1.67 | 4.84 | ND | 3.01 | 2.17 |
| 103.3 | ND | ND | 3.60 | 5.20 | ND | 7.00 | ND | ND | ND |
| 103.7 | ND | ND | 2.21 | 3.32 | ND | 5.85 | 3.16 | ND | ND |
| 104.0 | ND | NA | ND | ND | ND | ND | ND | ND | ND |
| 104.0 | ND | ND | ND | 3.37 | ND | 2.06 | ND | ND | ND |
| 104.0 | ND | ND | ND | 2.90 | 2.20 | 5.20 | ND | ND | ND |
| 104.5 | ND | NA | ND | ND | ND | ND | ND | ND | ND |
| 104.5 | ND | ND | ND | 3.49 | ND | 2.32 | ND | ND | ND |
| 104.5 | ND | ND | ND | 2.10 | ND | 3.50 | ND | ND | ND |

| Station Number | Naphthylene, ace | Perylene | Perylene, benzo(ghi) | Phenanthrene | Phenanthrene, 1-methyl | Pyrene | Pyrene, benzo(a) | Pyrene, benzo(e) | Pyrene, indeno(1,2,3-cd) |
|----------------|------------------|----------|----------------------|--------------|------------------------|--------|------------------|------------------|--------------------------|
| 103.0 | ND | ND | ND | 12.00 | ND | 6.00 | ND | ND | ND |
| 103.3 | ND | ND | ND | 25.05 | 5.68 | 18.37 | ND | 1.00 | ND |
| 103.3 | ND | ND | ND | 11.00 | ND | 8.10 | ND | ND | ND |
| 103.7 | ND | ND | ND | 15.33 | 2.05 | 8.69 | ND | ND | ND |
| 104.0 | ND | ND | ND | ND | ND | ND | NA | ND | ND |
| 104.0 | ND | ND | ND | 4.11 | 1.31 | ND | ND | ND | ND |
| 104.0 | ND | ND | ND | 11.00 | 2.20 | 3.70 | ND | ND | ND |
| 104.5 | ND | ND | ND | ND | ND | ND | NA | ND | ND |
| 104.5 | ND | ND | ND | 0.83 | ND | ND | ND | ND | ND |
| 104.5 | ND | ND | ND | 3.40 | ND | ND | ND | ND | ND |

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APPENDIX R (continued)

State Mussel Watch Program

Summary of 1987-93 Data: PAHs in Mussels, Clams, and Sediment (ppb, wet weight)

| Station Number | Station Name | Sample Type* | Sample Date | Total PAH | Anthracene | Anthracene, benz(a) | Anthracene, dibenz(a,h) | Biphenyl | Chrysene | Fluoranthene |
|----------------|---------------------------|--------------|-------------|-----------|------------|---------------------|-------------------------|----------|----------|--------------|
| 106.0 | Fields Landing | SED | 09/18/90 | ND | ND | ND | ND | ND | ND | ND |
| 106.0 | Fields Landing | TCM | 02/27/91 | 22.2 | ND | ND | ND | ND | ND | 3.04 |
| 159.0 | Russian River West Fork | TFC | 03/06/92 | 8.1 | ND | ND | ND | ND | ND | 2.30 |
| 160.0 | Lake Mendocino | RFC | 11/30/89 | 22.0 | ND | ND | ND | ND | ND | ND |
| 165.0 | Russian River Below Ukiah | TFC | 03/20/90 | ND | ND | ND | ND | ND | ND | ND |
| 165.0 | Russian River Below Ukiah | TFC | 03/06/92 | 10.7 | ND | ND | ND | ND | 3.90 | ND |
| 175.0 | Big Sulfur Creek | TFC | 03/30/93 | 15.9 | ND | ND | 1.20 | ND | ND | 3.40 |
| 190.0 | Estero Americano | RCM | 02/06/90 | ND | ND | ND | ND | ND | ND | ND |
| 190.0 | Estero Americano | RCM | 01/29/91 | 7.9 | ND | ND | ND | ND | ND | ND |
| 190.0 | Estero Americano | RCM | 03/05/92 | ND | ND | ND | ND | ND | ND | ND |

| Station Number | Fluoranthene, benzo(b) | Fluoranthene, benzo(k) | Fluorene | Naphthalene | Naphthalene, 1-methyl | Naphthalene, 2-methyl | Naphthalene, 2,6-dimethyl | Naphthalene, 2,3,5-trimethyl | Naphthene, ace |
|----------------|------------------------|------------------------|----------|-------------|-----------------------|-----------------------|---------------------------|------------------------------|----------------|
| 106.0 | ND | NA | ND | ND | ND | ND | ND | ND | ND |
| 106.0 | ND | ND | 1.44 | 3.52 | ND | 2.72 | ND | ND | ND |
| 159.0 | ND | ND | ND | 2.30 | ND | 3.50 | ND | ND | ND |
| 160.0 | ND | NA | ND | 11.00 | ND | 11.00 | ND | ND | ND |
| 165.0 | ND | NA | ND | ND | ND | ND | ND | ND | ND |
| 165.0 | ND | ND | ND | 2.80 | ND | 4.00 | ND | ND | ND |
| 175.0 | ND | ND | ND | 1.80 | ND | 1.60 | ND | ND | ND |
| 190.0 | ND | NA | ND | ND | ND | ND | ND | ND | ND |
| 190.0 | ND | ND | ND | 5.04 | ND | 2.16 | ND | ND | ND |
| 190.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |

| Station Number | Naphthylene, ace | Perylene | Perylene, benzo(ghi) | Phenanthrene | Phenanthrene, 1-methyl | Pyrene | Pyrene, benzo(a) | Pyrene, benzo(e) | Pyrene, indeno(1,2,3-cd) |
|----------------|------------------|----------|----------------------|--------------|------------------------|--------|------------------|------------------|--------------------------|
| 106.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 106.0 | ND | ND | ND | 8.80 | ND | 2.72 | ND | ND | ND |
| 159.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 160.0 | ND | ND | ND | ND | ND | ND | NA | ND | ND |
| 165.0 | ND | ND | ND | ND | ND | ND | NA | ND | ND |
| 165.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 175.0 | ND | ND | ND | 4.70 | ND | 3.20 | ND | ND | ND |
| 190.0 | ND | ND | ND | ND | ND | ND | NA | ND | ND |
| 190.0 | ND | ND | ND | 0.72 | ND | ND | ND | ND | ND |
| 190.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |

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APPENDIX R (continued)

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Summary of 1987-93 Data: PAHs in Mussels, Clams, and Sediment (ppb, wet weight)

| Station Number | Station Name | Sample Type* | Sample Date | Total PAH | Anthracene | Anthracene, benz(a) | Anthracene, dibenz(a,h) | Biphenyl | Chrysene | Fluoranthene |
|----------------|---------------------------------|--------------|-------------|-----------|------------|---------------------|-------------------------|----------|----------|--------------|
| 202.0 | Bodega Head | RCM | 08/14/87 | ND | ND | ND | ND | ND | ND | ND |
| 202.0 | Bodega Head | RCM | 08/24/88 | ND | ND | ND | ND | ND | ND | ND |
| 202.0 | Bodega Head | RCM | 08/28/89 | ND | ND | ND | ND | ND | ND | ND |
| 202.0 | Bodega Head | RCM | 11/14/89 | 52.0 | ND | ND | ND | ND | ND | ND |
| 202.0 | Bodega Head | RCM | 08/22/90 | 5.1 | ND | ND | ND | ND | ND | ND |
| 202.0 | Bodega Head | RCM | 08/28/91 | 10.7 | ND | ND | ND | ND | ND | ND |
| 202.0 | Bodega Head | RCM | 09/01/92 | 8.0 | ND | ND | ND | ND | ND | ND |
| 203.0 | Tomales Bay | RBM | 01/29/91 | 7.0 | ND | ND | ND | ND | ND | 1.92 |
| 203.0 | Tomales Bay | RBM | 12/30/91 | 18.3 | ND | ND | ND | ND | ND | 5.00 |
| 205.0 | Bodega Harbor/Spud Point Marina | TCM | 01/29/91 | 246.5 | ND | 3.95 | ND | ND | 9.78 | 54.52 |

| Station Number | Fluoranthene, benzo(b) | Fluoranthene, benzo(k) | Fluorene | Naphthalene | Naphthalene, 1-methyl | Naphthalene, 2-methyl | Naphthalene, 2,6-dimethyl | Naphthalene, 2,3,5-trimethyl | Naphthene, ace |
|----------------|------------------------|------------------------|----------|-------------|-----------------------|-----------------------|---------------------------|------------------------------|----------------|
| 202.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 202.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 202.0 | ND | NA | ND | ND | ND | ND | ND | ND | ND |
| 202.0 | ND | NA | ND | 16.00 | 11.00 | 15.00 | 10.00 | ND | ND |
| 202.0 | ND | ND | ND | 3.34 | ND | 1.81 | ND | ND | ND |
| 202.0 | ND | ND | ND | 4.80 | ND | 5.90 | ND | ND | ND |
| 202.0 | ND | ND | ND | 3.60 | ND | 4.40 | ND | ND | ND |
| 203.0 | ND | ND | ND | 1.56 | ND | ND | ND | ND | ND |
| 203.0 | ND | ND | ND | 3.00 | ND | 2.10 | ND | ND | ND |
| 205.0 | 3.95 | ND | 4.32 | 6.20 | 4.14 | 10.34 | 5.26 | 14.29 | 2.82 |

| Station Number | Naphthylene, ace | Perylene | Perylene, benzo(ghi) | Phenanthrene | Phenanthrene, 1-methyl | Pyrene | Pyrene, benzo(a) | Pyrene, benzo(e) | Pyrene, indeno(1,2,3-cd) |
|----------------|------------------|----------|----------------------|--------------|------------------------|--------|------------------|------------------|--------------------------|
| 202.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 202.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 202.0 | ND | ND | ND | ND | ND | ND | NA | ND | ND |
| 202.0 | ND | ND | ND | ND | ND | ND | NA | ND | ND |
| 202.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 202.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 202.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 203.0 | ND | ND | ND | 2.16 | ND | 1.32 | ND | ND | ND |
| 203.0 | ND | ND | ND | 4.80 | ND | 3.40 | ND | ND | ND |
| 205.0 | ND | ND | ND | 58.28 | 16.54 | 48.88 | ND | 3.20 | ND |

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Summary of 1987-93 Data: PAHs in Mussels, Clams, and Sediment (ppb, wet weight)

| Station Number | Station Name | Sample Type* | Sample Date | Total PAH | Anthracene | Anthracene, benz(a) | Anthracene, dibenz(a,h) | Biphenyl | Chrysene | Fluoranthene |
|----------------|------------------------------------|--------------|-------------|-----------|------------|---------------------|-------------------------|----------|----------|--------------|
| 205.0 | Bodega Harbor/Spud Point Marina | TCM | 01/10/92 | 167.9 | ND | 5.00 | ND | ND | 8.80 | 38.00 |
| 207.0 | Point Reyes | RCM | 01/29/91 | 4.1 | ND | ND | ND | ND | ND | ND |
| 290.0 | Russian River/near Moscow | TFC | 03/30/93 | 14.8 | ND | ND | ND | ND | ND | 4.60 |
| 294.2 | Windsor Creek/Mark West Station Rd | TFC | 04/07/92 | ND | ND | ND | ND | ND | ND | ND |
| 295.1 | Santa Rosa Fl Con Ch/Willowside Rd | TFC | 03/20/90 | 120.0 | ND | ND | ND | ND | ND | ND |
| 295.1 | Santa Rosa Fl Con Ch/Willowside Rd | TFC | 01/30/91 | 70.7 | ND | 3.36 | ND | ND | 18.48 | 7.64 |
| 295.2 | Laguna de Santa Rosa/Stony Point | TFC | 03/20/90 | ND | ND | ND | ND | ND | ND | ND |
| 295.2 | Laguna de Santa Rosa/Stony Point | TFC | 01/30/91 | 57.9 | ND | 1.85 | ND | ND | 10.79 | 13.08 |
| 295.3 | Mark West Creek/Wholer Road | TFC | 03/20/90 | ND | ND | ND | ND | ND | ND | ND |
| 295.3 | Mark West Creek/Wholer Road | TFC | 04/07/92 | ND | ND | ND | ND | ND | ND | ND |

| Station Number | Fluoranthene, benzo(b) | Fluoranthene, benzo(k) | Fluorene | Naphthalene | Naphthalene, 1-methyl | Naphthalene, 2-methyl | Naphthalene, 2,6-dimethyl | Naphthalene, 2,3,5-trimethyl | Naphthene, ace |
|----------------|------------------------|------------------------|----------|-------------|-----------------------|-----------------------|---------------------------|------------------------------|----------------|
| 205.0 | 4.60 | ND | 3.70 | 3.40 | 2.20 | 9.80 | 4.40 | ND | ND |
| 207.0 | ND | ND | ND | 4.13 | ND | ND | ND | ND | ND |
| 290.0 | ND | ND | ND | 1.70 | ND | 1.80 | ND | ND | ND |
| 294.2 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 295.1 | ND | NA | ND | ND | ND | ND | ND | ND | ND |
| 295.1 | 4.54 | 3.36 | ND | 1.85 | ND | ND | ND | ND | ND |
| 295.2 | ND | NA | ND | ND | ND | ND | ND | ND | ND |
| 295.2 | ND | 1.09 | ND | 2.83 | ND | ND | ND | ND | ND |
| 295.3 | ND | NA | ND | ND | ND | ND | ND | ND | ND |
| 295.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND |

| Station Number | Naphthylene, ace | Perylene | Perylene, benzo(ghi) | Phenanthrene | Phenanthrene, 1-methyl | Pyrene | Pyrene, benzo(a) | Pyrene, benzo(e) | Pyrene, indeno(1,2,3-cd) |
|----------------|------------------|----------|----------------------|--------------|------------------------|--------|------------------|------------------|--------------------------|
| 205.0 | ND | ND | ND | 34.00 | 13.00 | 37.00 | ND | 4.00 | ND |
| 207.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 290.0 | ND | ND | ND | 3.60 | ND | 3.10 | ND | ND | ND |
| 294.2 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 295.1 | ND | ND | ND | ND | ND | ND | NA | 120.00 | ND |
| 295.1 | ND | ND | ND | 2.44 | 1.60 | 16.80 | 5.04 | 5.63 | ND |
| 295.2 | ND | ND | ND | ND | ND | ND | NA | ND | ND |
| 295.2 | ND | ND | ND | 4.69 | 2.29 | 18.53 | ND | 2.72 | ND |
| 295.3 | ND | ND | ND | ND | ND | ND | NA | ND | ND |
| 295.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND |

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 RBM = Resident Bay Mussel
 TCM = Transplanted California Mussel

TCM = Transplanted Fresh Water Clam
 RFC = Resident Fresh Water Clam
 SED = Sediment

NA = Not Analyzed
 ND = Not Detected

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APPENDIX R (continued)

State Mussel Watch Program

Summary of 1987-93 Data: PAHs in Mussels, Clams, and Sediment (ppb, wet weight)

| Station Number | Station Name | Sample Type* | Sample Date | Total PAH | Anthracene | Anthracene, benz(a) | Anthracene, dibenz(a,h) | Biphenyl | Chrysene | Fluoranthene |
|----------------|-------------------------------|--------------|-------------|-----------|------------|---------------------|-------------------------|----------|----------|--------------|
| 295.4 | Russian River/Wholer Bridge | TFC | 03/20/90 | ND | ND | ND | ND | ND | ND | ND |
| 295.4 | Russian River/Wholer Bridge | TFC | 01/30/91 | 29.4 | ND | ND | ND | ND | 4.32 | 5.31 |
| 295.4 | Russian River/Wholer Bridge | TFC | 04/07/92 | 22.3 | ND | ND | ND | ND | 4.30 | 6.10 |
| 295.5 | Russian River/Hacienda Bridge | TFC | 03/20/90 | ND | ND | ND | ND | ND | ND | ND |
| 295.5 | Russian River/Hacienda Bridge | TFC | 04/07/92 | ND | ND | ND | ND | ND | ND | ND |
| 297.0 | Putah Creek | RFC | 12/05/89 | 26.0 | ND | ND | ND | ND | ND | ND |
| 302.0 | Point Pinole | TCM | 01/16/91 | 18.0 | ND | ND | ND | ND | 1.41 | 2.16 |
| 302.0 | Point Pinole | TCM | 12/27/91 | 31.4 | 2.60 | 2.00 | ND | ND | 2.80 | 5.10 |
| 302.0 | Point Pinole | TCM | 01/20/93 | 15.1 | ND | ND | ND | ND | 1.10 | 2.00 |
| 302.4 | Castro Cove Bridge | TCM | 01/18/88 | 1793.0 | 315.00 | ND | ND | ND | 157.00 | 186.00 |

| Station Number | Fluoranthene, benzo(b) | Fluoranthene, benzo(k) | Fluorene | Naphthalene | Naphthalene, 1-methyl | Naphthalene, 2-methyl | Naphthalene, 2,6-dimethyl | Naphthalene, 2,3,5-trimethyl | Naphthene, ace |
|----------------|------------------------|------------------------|----------|-------------|-----------------------|-----------------------|---------------------------|------------------------------|----------------|
| 295.4 | ND | NA | ND | ND | ND | ND | ND | ND | ND |
| 295.4 | ND | ND | ND | 4.32 | ND | ND | ND | ND | ND |
| 295.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 295.5 | ND | NA | ND | ND | ND | ND | ND | ND | ND |
| 295.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 297.0 | ND | NA | ND | 14.00 | ND | 12.00 | ND | ND | ND |
| 302.0 | ND | 0.75 | ND | 5.55 | ND | ND | ND | ND | ND |
| 302.0 | 2.40 | ND | ND | 2.10 | ND | 2.30 | ND | ND | ND |
| 302.0 | 0.90 | ND | ND | 3.50 | 1.20 | 1.80 | ND | ND | ND |
| 302.4 | 358.00 | 143.00 | ND | ND | ND | ND | ND | ND | ND |

| Station Number | Naphthylene, ace | Perylene | Perylene, benzo(ghi) | Phenanthrene | Phenanthrene, 1-methyl | Pyrene | Pyrene, benzo(a) | Pyrene, benzo(e) | Pyrene, indeno(1,2,3-cd) |
|----------------|------------------|----------|----------------------|--------------|------------------------|--------|------------------|------------------|--------------------------|
| 295.4 | ND | ND | ND | ND | ND | ND | NA | ND | ND |
| 295.4 | ND | ND | ND | 2.97 | 1.26 | 9.90 | ND | 1.35 | ND |
| 295.4 | ND | ND | ND | 2.90 | ND | 7.00 | ND | 2.00 | ND |
| 295.5 | ND | ND | ND | ND | ND | ND | NA | ND | ND |
| 295.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 297.0 | ND | ND | ND | ND | ND | ND | NA | ND | ND |
| 302.0 | ND | ND | ND | 2.26 | ND | 4.14 | 1.03 | 0.66 | ND |
| 302.0 | ND | ND | 2.20 | 3.70 | ND | 6.20 | ND | ND | ND |
| 302.0 | ND | ND | ND | 2.00 | ND | 2.60 | ND | ND | ND |
| 302.4 | ND | ND | ND | 215.00 | ND | ND | 133.00 | 286.00 | ND |

* RCM = Resident California Mussel
 RBM = Resident Bay Mussel
 TCM = Transplanted California Mussel

TCM = Transplanted Fresh Water Clam
 RFC = Resident Fresh Water Clam
 SED = Sediment

NA = Not Analyzed
 ND = Not Detected

APPENDIX R (continued)

State Mussel Watch Program

Summary of 1987-93 Data: PAHs in Mussels, Clams, and Sediment (ppb, wet weight)

| Station Number | Station Name | Sample Type* | Sample Date | Total PAH | Anthracene | Anthracene, benz(a) | Anthracene, dibenz(a,h) | Biphenyl | Chrysene | Fluoranthene |
|----------------|-------------------------------|--------------|-------------|-----------|------------|---------------------|-------------------------|----------|----------|--------------|
| 302.4 | Castro Cove Bridge | TCM | 12/29/88 | 3594.2 | 172.80 | 216.00 | ND | ND | 345.60 | 792.00 |
| 302.4 | Castro Cove Bridge | TCM | 03/21/90 | 6313.0 | 630.00 | 400.00 | ND | ND | ND | 1600.00 |
| 303.1 | Santa Fe Channel/Mouth | TCM | 03/22/91 | 377.4 | 10.08 | 21.42 | ND | ND | 25.20 | 88.20 |
| 303.3 | Lauritzen Canal/End | TCM | 03/22/91 | 511.9 | 15.00 | 57.00 | 1.90 | ND | 64.00 | 110.00 |
| 303.4 | Santa Fe Channel/End | TCM | 03/22/91 | 320.5 | ND | 20.80 | ND | ND | 37.70 | 101.40 |
| 304.4 | Serl Intake | TCM | 03/22/91 | 56.4 | ND | 2.04 | ND | ND | 3.21 | 11.53 |
| 306.0 | San Francisco Bay/Fort Baker | TCM | 01/30/91 | 22.9 | 2.05 | ND | ND | ND | 1.37 | 4.45 |
| 306.0 | San Francisco Bay/Fort Baker | TCM | 12/17/91 | 55.5 | ND | 3.20 | ND | ND | 4.20 | 9.80 |
| 306.0 | San Francisco Bay/Fort Baker | TCM | 01/20/93 | 194.4 | 8.00 | 5.90 | ND | ND | 7.70 | 45.00 |
| 307.0 | San Francisco Bay/Treasure Is | TCM | 01/16/91 | 38.6 | 1.45 | 1.61 | ND | ND | 1.93 | 7.89 |

| Station Number | Fluoranthene, benzo(b) | Fluoranthene, benzo(k) | Fluorene | Naphthalene | Naphthalene, 1-methyl | Naphthalene, 2-methyl | Naphthalene, 2,6-dimethyl | Naphthalene, 2,3,5-trimethyl | Naphthene, ace |
|----------------|------------------------|------------------------|----------|-------------|-----------------------|-----------------------|---------------------------|------------------------------|----------------|
| 302.4 | 133.92 | 79.20 | ND | ND | ND | ND | ND | ND | ND |
| 302.4 | 230.00 | NA | 86.00 | 19.00 | ND | 12.00 | 16.00 | ND | ND |
| 303.1 | 11.84 | 6.68 | 9.95 | 6.68 | 1.64 | 4.54 | 1.76 | ND | 7.56 |
| 303.3 | 40.00 | 20.00 | 3.30 | 5.80 | 1.60 | 3.20 | ND | ND | 1.70 |
| 303.4 | 15.60 | 5.85 | 2.21 | 6.37 | 1.17 | 3.25 | ND | 2.47 | ND |
| 304.4 | ND | 2.04 | 1.90 | 4.53 | ND | 1.46 | ND | ND | ND |
| 306.0 | ND | ND | ND | 2.05 | ND | 1.20 | ND | ND | ND |
| 306.0 | 2.60 | ND | 3.00 | 2.10 | ND | 3.40 | ND | ND | ND |
| 306.0 | 4.30 | ND | 6.60 | 2.70 | ND | 3.20 | ND | ND | 5.10 |
| 307.0 | 1.77 | 0.81 | ND | 2.09 | ND | 1.29 | ND | ND | ND |

| Station Number | Naphthylene, ace | Perylene | Perylene, benzo(ghi) | Phenanthrene | Phenanthrene, 1-methyl | Pyrene | Pyrene, benzo(a) | Pyrene, benzo(e) | Pyrene, indeno(1,2,3-cd) |
|----------------|------------------|----------|----------------------|--------------|------------------------|---------|------------------|------------------|--------------------------|
| 302.4 | ND | ND | ND | 748.80 | 158.40 | 777.60 | 76.32 | 93.60 | ND |
| 302.4 | ND | ND | ND | 710.00 | 520.00 | 1800.00 | NA | 290.00 | ND |
| 303.1 | ND | 2.39 | 2.14 | 79.38 | 9.32 | 73.08 | 6.30 | 9.20 | ND |
| 303.3 | ND | 3.80 | 11.00 | 29.00 | 8.80 | 79.00 | 18.00 | 32.00 | 6.80 |
| 303.4 | ND | ND | 1.04 | 31.20 | ND | 71.50 | 4.81 | 14.30 | 0.78 |
| 304.4 | ND | ND | 1.31 | 11.10 | 1.17 | 11.53 | 2.77 | 1.75 | ND |
| 306.0 | ND | ND | ND | 5.81 | ND | 5.99 | ND | ND | ND |
| 306.0 | ND | ND | 2.20 | 14.00 | ND | 11.00 | ND | ND | ND |
| 306.0 | ND | ND | 2.90 | 50.00 | 2.80 | 45.00 | 2.10 | 3.10 | ND |
| 307.0 | ND | ND | ND | 8.21 | ND | 9.02 | 1.29 | 1.29 | ND |

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 RBM = Resident Bay Mussel
 TCM = Transplanted California Mussel

TCM = Transplanted Fresh Water Clam
 RFC = Resident Fresh Water Clam
 SED = Sediment

NA = Not Analyzed
 ND = Not Detected

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APPENDIX R (continued)

State Mussel Watch Program

Summary of 1987-93 Data: PAHs in Mussels, Clams, and Sediment (ppb, wet weight)

| Station Number | Station Name | Sample Type* | Sample Date | Total PAH | Anthracene | Anthracene, benz(a) | Anthracene, dibenz(a,h) | Biphenyl | Chrysene | Fluoranthene |
|----------------|------------------------------------|--------------|-------------|-----------|------------|---------------------|-------------------------|----------|----------|--------------|
| 307.0 | San Francisco Bay/Treasure Is | TCM | 12/17/91 | 124.5 | 7.00 | 6.30 | ND | ND | 7.00 | 22.00 |
| 307.0 | San Francisco Bay/Treasure Is | TCM | 02/01/93 | 505.2 | 16.00 | 13.00 | ND | 1.60 | 10.00 | 130.00 |
| 307.4 | Oakland Inner Hbr/Embarcadero Cove | TCM | 01/30/91 | 114.9 | 6.40 | 5.00 | ND | ND | 12.00 | 27.00 |
| 307.4 | Oakland Inner Hbr/Embarcadero Cove | TCM | 12/17/91 | 244.6 | 8.80 | 16.00 | ND | ND | 21.00 | 62.00 |
| 307.4 | Oakland Inner Hbr/Embarcadero Cove | TCM | 01/20/93 | 92.2 | 1.30 | 4.60 | ND | ND | 6.60 | 19.00 |
| 307.5 | Lake Merritt | RBM | 05/22/92 | 596.3 | 9.80 | 56.00 | 2.30 | ND | 62.00 | 140.00 |
| 307.5 | Lake Merritt | RCM | 03/16/93 | 375.3 | 18.00 | 20.00 | 1.50 | ND | 13.00 | 110.00 |
| 308.0 | San Francisco Bay/Hunter's Point | TCM | 01/16/91 | 16.9 | ND | ND | ND | ND | ND | 4.18 |
| 308.0 | San Francisco Bay/Hunter's Point | TCM | 12/16/91 | 26.3 | ND | ND | ND | ND | 2.40 | 4.50 |
| 308.0 | San Francisco Bay/Hunter's Point | TCM | 02/01/93 | 30.4 | ND | 1.40 | ND | ND | 1.90 | 2.70 |

| Station Number | Fluoranthene, benzo(b) | Fluoranthene, benzo(k) | Fluorene | Naphthalene | Naphthalene, 1-methyl | Naphthalene, 2-methyl | Naphthalene, 2,6-dimethyl | Naphthalene, 2,3,5-trimethyl | Naphthene, ace |
|----------------|------------------------|------------------------|----------|-------------|-----------------------|-----------------------|---------------------------|------------------------------|----------------|
| 307.0 | 3.30 | ND | 5.10 | 2.50 | ND | 6.10 | ND | ND | 2.40 |
| 307.0 | 6.80 | 1.90 | 17.00 | 4.60 | 2.50 | 7.70 | 1.40 | ND | 11.00 |
| 307.4 | 2.90 | 2.60 | 1.80 | 2.90 | ND | 1.90 | ND | ND | ND |
| 307.4 | 13.00 | 3.00 | 4.90 | 2.50 | ND | 3.90 | ND | 4.10 | 2.50 |
| 307.4 | 4.30 | 1.50 | 8.90 | 3.40 | 1.70 | 3.90 | ND | ND | ND |
| 307.5 | 57.00 | 17.00 | 8.90 | 2.90 | 2.20 | 4.90 | ND | ND | 4.80 |
| 307.5 | 23.00 | 7.10 | 6.30 | 3.10 | 1.70 | 3.30 | ND | ND | 3.30 |
| 308.0 | ND | 1.63 | ND | 4.69 | ND | ND | ND | ND | ND |
| 308.0 | 2.60 | ND | ND | ND | ND | ND | ND | ND | ND |
| 308.0 | 2.30 | 0.90 | ND | 4.00 | 1.80 | 2.60 | ND | ND | ND |

| Station Number | Naphthylene, ace | Perylene | Perylene, benzo(ghi) | Phenanthrene | Phenanthrene, 1-methyl | Pyrene | Pyrene, benzo(a) | Pyrene, benzo(e) | Pyrene, indeno(1,2,3-cd) |
|----------------|------------------|----------|----------------------|--------------|------------------------|--------|------------------|------------------|--------------------------|
| 307.0 | ND | ND | 3.30 | 30.00 | ND | 25.00 | 2.10 | 2.40 | ND |
| 307.0 | ND | ND | 3.90 | 130.00 | 6.20 | 130.00 | 2.40 | 7.20 | 2.00 |
| 307.4 | ND | 2.80 | ND | 14.00 | 2.00 | 24.00 | 3.80 | 5.80 | ND |
| 307.4 | ND | ND | 5.60 | 21.00 | 5.20 | 51.00 | 4.60 | 13.00 | 2.50 |
| 307.4 | ND | ND | 4.30 | 4.30 | ND | 23.00 | ND | 5.40 | ND |
| 307.5 | ND | 6.00 | 9.20 | 32.00 | 5.80 | 100.00 | 18.00 | 51.00 | 6.50 |
| 307.5 | ND | 3.20 | 5.10 | 35.00 | 4.20 | 86.00 | 7.20 | 21.00 | 3.30 |
| 308.0 | ND | ND | ND | ND | ND | 6.43 | ND | ND | ND |
| 308.0 | ND | ND | 2.50 | 2.60 | ND | 6.80 | 2.70 | ND | 2.20 |
| 308.0 | ND | ND | 4.00 | 1.50 | ND | 3.90 | 1.60 | 1.80 | ND |

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 RBM = Resident Bay Mussel
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TCM = Transplanted Fresh Water Clam
 RFC = Resident Fresh Water Clam
 SED = Sediment

NA = Not Analyzed
 ND = Not Detected

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APPENDIX R (continued)

State Mussel Watch Program

Summary of 1987-93 Data: PAHs in Mussels, Clams, and Sediment (ppb, wet weight)

| Station Number | Station Name | Sample Type* | Sample Date | Total PAH | Anthracene | Anthracene, benz(a) | Anthracene, dibenz(a,h) | Biphenyl | Chrysene | Fluoranthene |
|----------------|------------------------------------|--------------|-------------|-----------|------------|---------------------|-------------------------|----------|----------|--------------|
| 309.0 | San Mateo Bridge/8B | TCM | 01/16/91 | 15.8 | ND | 0.83 | ND | ND | 1.66 | 3.15 |
| 309.0 | San Mateo Bridge/8B | TCM | 12/16/91 | 37.3 | ND | 2.40 | ND | ND | 3.90 | 4.40 |
| 309.0 | San Mateo Bridge/8B | TCM | 02/01/93 | 31.0 | ND | ND | ND | ND | 1.80 | 2.80 |
| 313.0 | San Francisco Bay/near Redwood Cr | TCM | 01/16/91 | 28.7 | ND | ND | ND | ND | 2.32 | 4.56 |
| 313.0 | San Francisco Bay/Near Redwood Cr | TCM | 12/16/91 | 29.5 | ND | 2.30 | ND | ND | 2.80 | 4.10 |
| 313.0 | San Francisco Bay/near Redwood Cr | TCM | 02/01/93 | 46.3 | ND | 1.70 | ND | ND | 2.40 | 5.30 |
| 321.0 | Dumbarton Bridge/Channel Marker 14 | TCM | 01/16/91 | 33.2 | ND | 1.26 | ND | ND | 2.52 | 4.28 |
| 321.0 | Dumbarton Bridge/Channel Marker 14 | TCM | 12/16/91 | 21.3 | ND | ND | ND | ND | ND | 3.70 |
| 326.0 | Palo Alto/Channel Marker 8 | TCM | 01/16/91 | 31.4 | ND | ND | ND | ND | 2.16 | 5.18 |
| 326.0 | Palo Alto/Channel Marker 8 | TCM | 12/16/91 | 38.4 | ND | ND | ND | ND | 2.90 | 4.30 |

| Station Number | Fluoranthene, benzo(b) | Fluoranthene, benzo(k) | Fluorene | Naphthalene | Naphthalene, 1-methyl | Naphthalene, 2-methyl | Naphthalene, 2,6-dimethyl | Naphthalene, 2,3,5-trimethyl | Naphthene, ace |
|----------------|------------------------|------------------------|----------|-------------|-----------------------|-----------------------|---------------------------|------------------------------|----------------|
| 309.0 | ND | 0.66 | ND | 3.07 | ND | ND | ND | ND | ND |
| 309.0 | 4.30 | ND | ND | ND | ND | ND | ND | ND | ND |
| 309.0 | 2.30 | 2.00 | ND | 4.00 | 1.70 | 2.50 | ND | ND | ND |
| 313.0 | 3.01 | 2.58 | ND | 5.59 | ND | ND | ND | ND | ND |
| 313.0 | 3.30 | ND | ND | ND | ND | ND | ND | ND | ND |
| 313.0 | 4.60 | 1.10 | ND | 2.40 | ND | 1.30 | ND | ND | ND |
| 321.0 | 2.86 | 1.93 | ND | 4.62 | ND | ND | ND | ND | ND |
| 321.0 | 2.30 | ND | ND | 2.60 | ND | 2.20 | ND | ND | ND |
| 326.0 | ND | 1.73 | ND | 2.88 | ND | ND | ND | ND | ND |
| 326.0 | 2.20 | ND | ND | 4.60 | 2.10 | 5.00 | ND | ND | ND |

| Station Number | Naphthylene, ace | Perylene | Perylene, benzo(ghi) | Phenanthrene | Phenanthrene, 1-methyl | Pyrene | Pyrene, benzo(a) | Pyrene, benzo(e) | Pyrene, indeno(1,2,3-cd) |
|----------------|------------------|----------|----------------------|--------------|------------------------|--------|------------------|------------------|--------------------------|
| 309.0 | ND | 1.33 | ND | 0.75 | ND | 4.32 | ND | ND | ND |
| 309.0 | ND | ND | 4.10 | 2.70 | ND | 6.70 | 3.10 | 2.60 | 3.10 |
| 309.0 | ND | ND | 4.30 | 1.20 | ND | 4.10 | 2.00 | 2.30 | ND |
| 313.0 | ND | ND | 1.46 | ND | ND | 7.14 | 2.06 | ND | ND |
| 313.0 | ND | ND | 3.80 | 2.20 | ND | 5.80 | 2.90 | 2.30 | ND |
| 313.0 | ND | 1.10 | 6.10 | 2.00 | ND | 7.80 | 3.90 | 3.50 | 3.10 |
| 321.0 | ND | ND | 1.09 | 1.68 | ND | 6.22 | 3.61 | 3.11 | ND |
| 321.0 | ND | ND | 2.30 | ND | ND | 6.10 | 2.10 | ND | ND |
| 326.0 | ND | ND | ND | 2.45 | ND | 7.92 | 5.76 | 3.31 | ND |
| 326.0 | ND | ND | 2.50 | 3.70 | ND | 6.70 | 2.20 | 2.20 | ND |

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TCM = Transplanted Fresh Water Clam
 RFC = Resident Fresh Water Clam
 SED = Sediment

NA = Not Analyzed
 ND = Not Detected

APPENDIX R (continued)

State Mussel Watch Program

Summary of 1987-93 Data: PAHs in Mussels, Clams, and Sediment (ppb, wet weight)

| Station Number | Station Name | Sample Type* | Sample Date | Total PAH | Anthracene | Anthracene, benz(a) | Anthracene, dibenz(a,h) | Biphenyl | Chrysene | Fluoranthene |
|----------------|----------------------------|--------------|-------------|-----------|------------|---------------------|-------------------------|----------|----------|--------------|
| 326.0 | Palo Alto/Channel Marker 8 | TCM | 02/01/93 | 6.7 | ND | ND | ND | ND | ND | ND |
| 336.0 | J. Fitzgerald | RCM | 01/30/91 | 5.1 | ND | ND | ND | ND | ND | ND |
| 399.5 | San Lorenzo River | SED | 01/14/91 | ND | ND | ND | ND | ND | ND | ND |
| 399.7 | San Lorenzo River/Felton | SED | 12/03/90 | ND | ND | ND | ND | ND | ND | ND |
| 399.7 | San Lorenzo River/Felton | TFC | 02/16/91 | 58.5 | 1.34 | ND | ND | ND | 5.79 | 8.90 |
| 400.8 | Aptos Creek | TFC | 01/31/90 | ND | ND | ND | ND | ND | ND | ND |
| 400.8 | Aptos Creek | RFC | 11/14/90 | 5.9 | ND | ND | ND | ND | ND | 1.26 |
| 400.8 | Aptos Creek | TFC | 12/19/91 | ND | ND | ND | ND | ND | ND | ND |
| 404.0 | Sandholdt Bridge | TCM | 02/04/91 | 168.5 | 3.90 | 6.40 | ND | ND | 10.92 | 37.44 |
| 404.0 | Sandholdt Bridge | TCM | 01/28/92 | 154.5 | 2.90 | ND | ND | 3.50 | 3.30 | 16.00 |

| Station Number | Fluoranthene, benzo(b) | Fluoranthene, benzo(k) | Fluorene | Naphthalene | Naphthalene, 1-methyl | Naphthalene, 2-methyl | Naphthalene, 2,6-dimethyl | Naphthalene, 2,3,5-trimethyl | Naphthene, ace |
|----------------|------------------------|------------------------|----------|-------------|-----------------------|-----------------------|---------------------------|------------------------------|----------------|
| 326.0 | ND | ND | ND | 2.70 | ND | 2.40 | ND | ND | ND |
| 336.0 | ND | ND | ND | 3.09 | ND | 2.00 | ND | ND | ND |
| 399.5 | ND | NA | ND | ND | ND | ND | ND | ND | ND |
| 399.7 | ND | NA | ND | ND | ND | ND | ND | ND | ND |
| 399.7 | 3.56 | ND | ND | 4.98 | 1.25 | 2.94 | ND | ND | ND |
| 400.8 | ND | NA | ND | ND | ND | ND | ND | ND | ND |
| 400.8 | ND | ND | ND | 2.88 | ND | ND | ND | ND | ND |
| 400.8 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 404.0 | 1.09 | 0.62 | 9.52 | 6.55 | 1.72 | 8.11 | ND | ND | 2.50 |
| 404.0 | ND | ND | 11.00 | 7.70 | 5.70 | 22.00 | 7.70 | 7.60 | 7.60 |

| Station Number | Naphthylene, ace | Perylene | Perylene, benzo(ghi) | Phenanthrene | Phenanthrene, 1-methyl | Pyrene | Pyrene, benzo(a) | Pyrene, benzo(e) | Pyrene, indeno(1,2,3-cd) |
|----------------|------------------|----------|----------------------|--------------|------------------------|--------|------------------|------------------|--------------------------|
| 326.0 | ND | ND | ND | 1.60 | ND | ND | ND | ND | ND |
| 336.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 399.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 399.7 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 399.7 | ND | 1.34 | ND | 4.18 | 4.01 | 16.02 | 2.05 | 2.14 | ND |
| 400.8 | ND | ND | ND | ND | ND | ND | NA | ND | ND |
| 400.8 | ND | ND | ND | ND | 1.80 | ND | ND | ND | ND |
| 400.8 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 404.0 | ND | 1.09 | ND | 40.56 | 1.72 | 32.76 | 1.56 | 2.03 | ND |
| 404.0 | ND | ND | ND | 38.00 | 5.50 | 16.00 | ND | ND | ND |

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 TCM = Transplanted California Mussel

TCM = Transplanted Fresh Water Clam
 RFC = Resident Fresh Water Clam
 SED = Sediment

NA = Not Analyzed
 ND = Not Detected

R-12

APPENDIX R (continued)

State Mussel Watch Program

Summary of 1987-93 Data: PAHs in Mussels, Clams, and Sediment (ppb, wet weight)

| Station Number | Station Name | Sample Type* | Sample Date | Total PAH | Anthracene | Anthracene, benz(a) | Anthracene, dibenz(a,h) | Biphenyl | Chrysene | Fluoranthene |
|----------------|------------------|--------------|-------------|-----------|------------|---------------------|-------------------------|----------|----------|--------------|
| 404.0 | Sandholdt Bridge | TCM | 02/01/93 | 116.5 | 3.30 | 3.20 | ND | ND | 3.70 | 22.00 |
| 414.0 | Pacific Grove | RCM | 02/08/90 | ND | ND | ND | ND | ND | ND | ND |
| 414.0 | Pacific Grove | RCM | 02/14/91 | 7.3 | ND | ND | ND | ND | ND | ND |
| 414.0 | Pacific Grove | RCM | 01/31/92 | ND | ND | ND | ND | ND | ND | ND |
| 414.0 | Pacific Grove | RCM | 02/12/93 | 2.8 | ND | ND | ND | ND | ND | ND |
| 425.6 | Lake San Antonio | RFC | 08/15/89 | ND | ND | ND | ND | ND | ND | ND |
| 425.6 | Lake San Antonio | TFC | 05/25/92 | 38.0 | ND | ND | ND | ND | ND | 4.00 |
| 426.5 | Cayucos Pier | TCM | 02/25/91 | 230.7 | 5.43 | 2.91 | ND | 0.58 | 6.21 | 62.08 |
| 430.0 | Montana De Oro | RCM | 11/14/90 | 4.6 | ND | ND | ND | ND | ND | ND |
| 430.0 | Montana De Oro | RCM | 02/25/91 | 6.5 | ND | ND | ND | ND | ND | ND |

| Station Number | Fluoranthene, benzo(b) | Fluoranthene, benzo(k) | Fluorene | Naphthalene | Naphthalene, 1-methyl | Naphthalene, 2-methyl | Naphthalene, 2,6-dimethyl | Naphthalene, 2,3,5-trimethyl | Naphthene, ace |
|----------------|------------------------|------------------------|----------|-------------|-----------------------|-----------------------|---------------------------|------------------------------|----------------|
| 404.0 | ND | ND | 6.20 | 3.20 | 2.90 | 7.40 | ND | 1.80 | 6.60 |
| 414.0 | ND | NA | ND | ND | ND | ND | ND | ND | ND |
| 414.0 | ND | ND | ND | 4.28 | ND | 1.78 | ND | ND | ND |
| 414.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 414.0 | ND | ND | ND | 1.50 | ND | 1.30 | ND | ND | ND |
| 425.6 | ND | NA | ND | ND | ND | ND | ND | ND | ND |
| 425.6 | ND | ND | ND | 3.10 | 3.90 | 10.00 | 5.50 | ND | ND |
| 426.5 | 0.58 | 0.58 | 6.98 | 4.27 | 1.75 | 4.66 | ND | ND | 6.01 |
| 430.0 | ND | ND | ND | 4.62 | ND | ND | ND | ND | ND |
| 430.0 | ND | ND | ND | 5.04 | ND | 1.44 | ND | ND | ND |

| Station Number | Naphthylene, ace | Perylene | Perylene, benzo(ghi) | Phenanthrene | Phenanthrene, 1-methyl | Pyrene | Pyrene, benzo(a) | Pyrene, benzo(e) | Pyrene, indeno(1,2,3-cd) |
|----------------|------------------|----------|----------------------|--------------|------------------------|--------|------------------|------------------|--------------------------|
| 404.0 | ND | ND | ND | 35.00 | 2.20 | 19.00 | ND | ND | ND |
| 414.0 | ND | ND | ND | ND | ND | ND | NA | ND | ND |
| 414.0 | ND | ND | ND | ND | ND | ND | ND | 1.19 | ND |
| 414.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 414.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 425.6 | ND | ND | ND | ND | ND | ND | NA | ND | ND |
| 425.6 | ND | ND | ND | 3.80 | ND | 7.70 | ND | ND | ND |
| 426.5 | ND | ND | ND | 65.96 | 6.40 | 56.26 | ND | ND | ND |
| 430.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 430.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |

* RCM = Resident California Mussel
 RBM = Resident Bay Mussel
 TCM = Transplanted California Mussel

TCM = Transplanted Fresh Water Clam
 RFC = Resident Fresh Water Clam
 SED = Sediment

NA = Not Analyzed
 ND = Not Detected

APPENDIX R (continued)

State Mussel Watch Program

Summary of 1987-93 Data: PAHs in Mussels, Clams, and Sediment (ppb, wet weight)

| Station Number | Station Name | Sample Type* | Sample Date | Total PAH | Anthracene | Anthracene, benz(a) | Anthracene, dibenz(a,h) | Biphenyl | Chrysene | Fluoranthene |
|----------------|-------------------|--------------|-------------|-----------|------------|---------------------|-------------------------|----------|----------|--------------|
| 430.0 | Montana De Oro | RCM | 12/03/91 | 6.5 | ND | ND | ND | ND | ND | ND |
| 430.0 | Montana De Oro | RCM | 02/25/92 | 16.8 | ND | ND | ND | ND | ND | 4.70 |
| 430.2 | Montana De Oro 1 | TCM | 11/14/90 | 3.6 | ND | ND | ND | ND | ND | ND |
| 430.2 | Montana De Oro 1 | TCM | 12/04/91 | 2.4 | ND | ND | ND | ND | ND | ND |
| 430.4 | Montana De Oro 2 | TCM | 11/14/90 | 4.0 | ND | ND | ND | ND | ND | ND |
| 434.0 | Diablo Cove/South | RCM | 02/26/91 | 4.7 | ND | ND | ND | ND | ND | ND |
| 434.0 | Diablo Cove/South | RCM | 02/26/92 | 2.7 | ND | ND | ND | ND | ND | ND |
| 435.0 | Intake Cove | RCM | 02/26/91 | 4.2 | ND | ND | ND | ND | ND | ND |
| 435.0 | Intake Cove | RCM | 02/26/92 | 2.3 | ND | ND | ND | ND | ND | ND |
| 437.0 | Point San Luis | RCM | 02/25/91 | 4.9 | ND | ND | ND | ND | ND | ND |

| Station Number | Fluoranthene, benzo(b) | Fluoranthene, benzo(k) | Fluorene | Naphthalene | Naphthalene, 1-methyl | Naphthalene, 2-methyl | Naphthalene, 2,6-dimethyl | Naphthalene, 2,3,5-trimethyl | Naphthene, ace |
|----------------|------------------------|------------------------|----------|-------------|-----------------------|-----------------------|---------------------------|------------------------------|----------------|
| 430.0 | ND | ND | ND | 3.00 | ND | 3.50 | ND | ND | ND |
| 430.0 | ND | ND | ND | 2.10 | ND | 2.10 | ND | ND | ND |
| 430.2 | ND | ND | ND | 3.61 | ND | ND | ND | ND | ND |
| 430.2 | ND | ND | ND | ND | ND | 2.40 | ND | ND | ND |
| 430.4 | ND | ND | ND | 3.99 | ND | ND | ND | ND | ND |
| 434.0 | ND | ND | ND | 1.95 | ND | 1.20 | ND | ND | ND |
| 434.0 | ND | ND | ND | ND | ND | 2.70 | ND | ND | ND |
| 435.0 | 1.05 | ND | ND | 2.25 | ND | ND | ND | ND | ND |
| 435.0 | ND | ND | ND | ND | ND | 2.30 | ND | ND | ND |
| 437.0 | ND | ND | ND | 2.88 | ND | 0.90 | ND | ND | ND |

| Station Number | Naphthylene, ace | Perylene | Perylene, benzo(ghi) | Phenanthrene | Phenanthrene, 1-methyl | Pyrene | Pyrene, benzo(a) | Pyrene, benzo(e) | Pyrene, indeno(1,2,3-cd) |
|----------------|------------------|----------|----------------------|--------------|------------------------|--------|------------------|------------------|--------------------------|
| 430.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 430.0 | ND | ND | ND | 3.60 | ND | 4.30 | ND | ND | ND |
| 430.2 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 430.2 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 430.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 434.0 | ND | 1.50 | ND | ND | ND | ND | ND | ND | ND |
| 434.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 435.0 | ND | ND | ND | ND | ND | ND | ND | 0.90 | ND |
| 435.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 437.0 | ND | ND | ND | ND | ND | ND | 1.08 | ND | ND |

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 SED = Sediment

NA = Not Analyzed
 ND = Not Detected

APPENDIX R (continued)

State Mussel Watch Program

Summary of 1987-93 Data: PAHs in Mussels, Clams, and Sediment (ppb, wet weight)

| Station Number | Station Name | Sample Type* | Sample Date | Total PAH | Anthracene | Anthracene, benz(a) | Anthracene, dibenz(a,h) | Biphenyl | Chrysene | Fluoranthene |
|----------------|----------------------------------|--------------|-------------|-----------|------------|---------------------|-------------------------|----------|----------|--------------|
| 437.0 | Point San Luis | RCM | 02/26/92 | 7.1 | ND | ND | ND | ND | ND | ND |
| 443.0 | Diablo Cove/South/Transplant | TCM | 02/26/91 | 6.7 | ND | ND | ND | ND | ND | ND |
| 443.0 | Diablo Cove/South/Transplant | TCM | 02/26/92 | 96.6 | 4.50 | 5.00 | 4.40 | ND | 5.60 | 6.50 |
| 443.1 | Diablo Cove/S/Transplant/Shallow | TCM | 02/26/91 | 4.5 | ND | ND | ND | ND | ND | ND |
| 444.0 | Intake Cove/Transplant | TCM | 02/26/91 | 518.0 | 1.62 | ND | ND | 1.98 | ND | 3.78 |
| 444.0 | Intake Cove/Transplant | TCM | 02/26/92 | 69.1 | ND | ND | ND | 6.20 | ND | ND |
| 445.0 | San Luis Harbor/Transplant | TCM | 02/25/91 | 1061.6 | 19.53 | 197.40 | ND | 1.47 | 29.40 | 273.00 |
| 445.0 | San Luis Harbor/Transplant | TCM | 02/25/92 | 1879.6 | 32.00 | 50.00 | ND | 4.80 | 67.00 | 540.00 |
| 480.0 | Lake Isabella | RFC | 02/09/93 | 15.9 | ND | ND | 1.30 | ND | ND | 3.00 |
| 506.1 | Port Hueneme/Wharf B | TCM | 01/25/88 | 2530.0 | ND | ND | ND | ND | ND | 895.00 |

| Station Number | Fluoranthene, benzo(b) | Fluoranthene, benzo(k) | Fluorene | Naphthalene | Naphthalene, 1-methyl | Naphthalene, 2-methyl | Naphthalene, 2,6-dimethyl | Naphthalene, 2,3,5-trimethyl | Naphthene, ace |
|----------------|------------------------|------------------------|----------|-------------|-----------------------|-----------------------|---------------------------|------------------------------|----------------|
| 437.0 | ND | ND | ND | 2.30 | ND | 2.50 | ND | ND | ND |
| 443.0 | ND | ND | ND | 3.78 | ND | 2.31 | ND | ND | ND |
| 443.0 | 5.70 | 5.30 | 3.40 | 3.00 | 3.10 | 3.20 | 2.20 | 2.90 | 2.30 |
| 443.1 | ND | ND | ND | 2.72 | ND | 1.76 | ND | ND | ND |
| 444.0 | ND | ND | ND | 59.40 | 108.00 | 234.00 | 73.80 | 17.10 | 1.44 |
| 444.0 | ND | ND | 3.10 | 9.80 | 11.00 | 32.00 | ND | 2.40 | ND |
| 445.0 | 9.87 | 3.15 | 15.12 | 6.93 | 4.62 | 15.54 | 4.20 | 5.67 | 14.49 |
| 445.0 | 41.00 | 10.00 | 50.00 | 4.90 | 6.10 | 15.00 | 10.00 | 19.00 | 33.00 |
| 480.0 | ND | ND | ND | 2.30 | 1.60 | 3.80 | ND | ND | ND |
| 506.1 | 276.00 | 109.00 | ND | ND | ND | ND | ND | ND | ND |

| Station Number | Naphthylene, ace | Perylene | Perylene, benzo(ghi) | Phenanthrene | Phenanthrene, 1-methyl | Pyrene | Pyrene, benzo(a) | Pyrene, benzo(e) | Pyrene, indeno(1,2,3-cd) |
|----------------|------------------|----------|----------------------|--------------|------------------------|--------|------------------|------------------|--------------------------|
| 437.0 | ND | ND | ND | 2.30 | ND | ND | ND | ND | ND |
| 443.0 | ND | ND | ND | ND | ND | ND | ND | 0.63 | ND |
| 443.0 | 2.00 | ND | 4.50 | 5.40 | 6.20 | 6.50 | 4.70 | 5.20 | 5.00 |
| 443.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 444.0 | ND | ND | ND | 7.20 | 3.24 | 6.48 | ND | ND | ND |
| 444.0 | ND | ND | ND | 2.30 | ND | 2.30 | ND | ND | ND |
| 445.0 | ND | ND | ND | 165.90 | 10.50 | 273.00 | 0.84 | 10.92 | ND |
| 445.0 | ND | 6.60 | ND | 410.00 | 32.00 | 500.00 | 9.90 | 32.00 | 6.30 |
| 480.0 | ND | ND | ND | 1.40 | ND | 2.50 | ND | ND | ND |
| 506.1 | ND | ND | ND | 447.00 | ND | 671.00 | ND | 132.00 | ND |

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 SED = Sediment

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 ND = Not Detected

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APPENDIX R (continued)

State Mussel Watch Program

Summary of 1987-93 Data: PAHs in Mussels, Clams, and Sediment (ppb, wet weight)

| Station Number | Station Name | Sample Type* | Sample Date | Total PAH | Anthracene | Anthracene, benz(a) | Anthracene, dibenz(a,h) | Biphenyl | Chrysene | Fluoranthene |
|----------------|------------------------------------|--------------|-------------|-----------|------------|---------------------|-------------------------|----------|----------|--------------|
| 506.2 | Port Hueneme/Wharf 1 | TCM | 01/25/88 | 1161.0 | ND | ND | ND | ND | ND | 551.00 |
| 506.3 | Port Hueneme/Entrance | TCM | 01/25/88 | 987.0 | ND | ND | ND | ND | ND | 471.00 |
| 601.0 | LA Harbor/National Steel | TCM | 12/28/87 | 332.0 | ND | ND | ND | ND | ND | 166.00 |
| 602.8 | LA Harbor/Berth 49 | TCM | 12/28/87 | ND | ND | ND | ND | ND | ND | ND |
| 603.0 | LA Harbor/Berth 151 | TCM | 12/28/87 | 706.0 | ND | ND | ND | ND | ND | 328.00 |
| 603.0 | LA Harbor/Berth 151 | TCM | 12/19/88 | 461.9 | ND | ND | ND | ND | ND | 238.40 |
| 605.0 | LA Harbor/Cabrillo Pier | TCM | 12/19/88 | ND | ND | ND | ND | ND | ND | ND |
| 616.0 | LA Harbor/Consolidated Slip | TCM | 12/19/88 | 142.6 | ND | ND | ND | ND | ND | 49.60 |
| 621.0 | LA Harbor/Berth 120 | TCM | 12/23/90 | 354.9 | ND | 13.53 | ND | ND | 28.29 | 71.34 |
| 715.0 | Huntington Harbour/Warner Ave Brdg | TCM | 01/06/93 | 53.0 | ND | 1.70 | ND | ND | 4.40 | 13.00 |

| Station Number | Fluoranthene, benzo(b) | Fluoranthene, benzo(k) | Fluorene | Naphthalene | Naphthalene, 1-methyl | Naphthalene, 2-methyl | Naphthalene, 2,6-dimethyl | Naphthalene, 2,3,5-trimethyl | Naphthene, ace |
|----------------|------------------------|------------------------|----------|-------------|-----------------------|-----------------------|---------------------------|------------------------------|----------------|
| 506.2 | 211.00 | ND | ND | ND | ND | ND | ND | ND | ND |
| 506.3 | 167.00 | ND | ND | ND | ND | ND | ND | ND | ND |
| 601.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 602.8 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 603.0 | 139.00 | ND | ND | ND | ND | ND | ND | ND | ND |
| 603.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 605.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 616.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 621.0 | 27.06 | 18.45 | ND | 3.32 | 1.23 | ND | ND | ND | 2.21 |
| 715.0 | 2.50 | ND | ND | 2.50 | 1.20 | 2.30 | ND | ND | ND |

| Station Number | Naphthylene, ace | Perylene | Perylene, benzo(ghi) | Phenanthrene | Phenanthrene, 1-methyl | Pyrene | Pyrene, benzo(a) | Pyrene, benzo(e) | Pyrene, indeno(1,2,3-cd) |
|----------------|------------------|----------|----------------------|--------------|------------------------|--------|------------------|------------------|--------------------------|
| 506.2 | ND | ND | ND | ND | ND | 399.00 | ND | ND | ND |
| 506.3 | ND | ND | ND | ND | ND | 349.00 | ND | ND | ND |
| 601.0 | ND | ND | ND | ND | ND | 166.00 | ND | ND | ND |
| 602.8 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 603.0 | ND | ND | ND | ND | ND | 239.00 | ND | ND | ND |
| 603.0 | ND | ND | ND | ND | ND | 223.50 | ND | ND | ND |
| 605.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 616.0 | ND | ND | ND | ND | ND | 93.00 | ND | ND | ND |
| 621.0 | ND | 4.55 | 3.94 | 9.10 | 2.34 | 119.31 | 10.33 | 38.13 | 1.72 |
| 715.0 | ND | ND | 2.70 | 2.70 | ND | 17.00 | ND | 3.00 | ND |

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NA = Not Analyzed
 ND = Not Detected

APPENDIX R (continued)

State Mussel Watch Program

Summary of 1987-93 Data: PAHs in Mussels, Clams, and Sediment (ppb, wet weight)

| Station Number | Station Name | Sample Type* | Sample Date | Total PAH | Anthracene | Anthracene, benz(a) | Anthracene, dibenz(a,h) | Biphenyl | Chrysene | Fluoranthene |
|----------------|----------------------------------|--------------|-------------|-----------|------------|---------------------|-------------------------|----------|----------|--------------|
| 719.1 | Santa Ana River/Prado Dam | TFC | 03/17/93 | 191.7 | 2.10 | 8.10 | ND | ND | 12.00 | 37.00 |
| 724.0 | Newport Bay/Highway 1 Bridge | TCM | 01/05/93 | 24.3 | ND | 0.90 | ND | ND | 2.40 | 4.20 |
| 725.0 | Newport Bay/Crows Nest | TCM | 01/05/93 | 12.1 | ND | ND | ND | ND | ND | 2.40 |
| 726.4 | Newport Bay/Rhine Channel/End | TCM | 01/05/93 | 80.4 | 1.40 | 3.10 | ND | 0.90 | 5.30 | 9.90 |
| 727.0 | Garden Grove/Wintersburg Channel | TFC | 03/17/93 | 210.2 | ND | 3.70 | ND | 1.80 | 12.00 | 34.00 |
| 728.4 | Upper Newport Bay/MacArthur | TFC | 03/07/88 | ND | ND | ND | ND | ND | ND | ND |
| 728.4 | Upper Newport Bay/MacArthur | TFC | 12/20/88 | 30.6 | ND | 30.60 | ND | ND | ND | ND |
| 728.4 | Upper Newport Bay/MacArthur | TFC | 03/17/93 | 72.9 | ND | ND | 1.20 | ND | 1.20 | 13.00 |
| 728.7 | Upper Newport Bay/Drain 4 | TFC | 03/17/93 | 164.1 | ND | 2.20 | ND | 2.70 | 2.70 | 29.00 |
| 744.1 | San Onofre 1 | TCM | 01/30/89 | ND | ND | ND | ND | ND | ND | ND |

| Station Number | Fluoranthene, benzo(b) | Fluoranthene, benzo(k) | Fluorene | Naphthalene | Naphthalene, 1-methyl | Naphthalene, 2-methyl | Naphthalene, 2,6-dimethyl | Naphthalene, 2,3,5-trimethyl | Naphthene, ace |
|----------------|------------------------|------------------------|----------|-------------|-----------------------|-----------------------|---------------------------|------------------------------|----------------|
| 719.1 | 7.90 | 2.90 | 6.40 | 2.70 | 3.10 | 4.00 | 2.10 | 6.20 | ND |
| 724.0 | ND | ND | ND | 3.40 | 1.20 | 3.40 | ND | ND | ND |
| 725.0 | ND | 1.10 | ND | 2.60 | ND | 1.60 | ND | ND | ND |
| 726.4 | 2.60 | 2.20 | 8.10 | 8.60 | 2.80 | 11.00 | ND | ND | 1.40 |
| 727.0 | 5.30 | ND | 4.40 | 7.30 | 8.30 | 15.00 | 5.10 | 5.00 | ND |
| 728.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 728.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 728.4 | ND | ND | 2.70 | 3.30 | 3.10 | 5.40 | ND | 2.10 | ND |
| 728.7 | 3.10 | ND | 6.20 | 3.30 | ND | 19.00 | 3.70 | 7.10 | ND |
| 744.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND |

| Station Number | Naphthylene, ace | Perylene | Perylene, benzo(ghi) | Phenanthrene | Phenanthrene, 1-methyl | Pyrene | Pyrene, benzo(a) | Pyrene, benzo(e) | Pyrene, indeno(1,2,3-cd) |
|----------------|------------------|----------|----------------------|--------------|------------------------|--------|------------------|------------------|--------------------------|
| 719.1 | ND | 2.00 | 3.50 | 23.00 | 11.00 | 42.00 | 5.90 | 7.20 | 2.60 |
| 724.0 | ND | ND | ND | 1.30 | ND | 6.20 | ND | 1.30 | ND |
| 725.0 | ND | ND | ND | 1.20 | ND | 3.20 | ND | ND | ND |
| 726.4 | ND | ND | ND | 12.00 | ND | 9.00 | ND | 2.10 | ND |
| 727.0 | ND | 1.70 | 2.00 | 16.00 | 10.00 | 72.00 | ND | 6.60 | ND |
| 728.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 728.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 728.4 | ND | ND | 1.20 | 12.00 | 5.10 | 21.00 | ND | 1.60 | ND |
| 728.7 | ND | ND | 1.40 | 23.00 | 14.00 | 43.00 | ND | 3.70 | ND |
| 744.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND |

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NA = Not Analyzed
 ND = Not Detected

APPENDIX R (continued)

State Mussel Watch Program

Summary of 1987-93 Data: PAHs in Mussels, Clams, and Sediment (ppb, wet weight)

| Station Number | Station Name | Sample Type* | Sample Date | Total PAH | Anthracene | Anthracene, benz(a) | Anthracene, dibenz(a,h) | Biphenyl | Chrysene | Fluoranthene |
|----------------|--------------|--------------|-------------|-----------|------------|---------------------|-------------------------|----------|----------|--------------|
| 744.1 | San Onofre 1 | TCM | 03/12/91 | 5.4 | ND | ND | ND | ND | ND | ND |
| 744.1 | San Onofre 1 | TCM | 03/25/92 | ND | ND | ND | ND | ND | ND | ND |
| 744.2 | San Onofre 2 | TCM | 03/12/91 | 5.2 | ND | ND | ND | ND | ND | ND |
| 744.2 | San Onofre 2 | TCM | 03/25/92 | 2.0 | ND | ND | ND | ND | ND | ND |
| 744.3 | San Onofre 3 | TCM | 03/12/91 | 16.2 | ND | ND | ND | ND | ND | ND |
| 744.3 | San Onofre 3 | TCM | 03/25/92 | ND | ND | ND | ND | ND | ND | ND |
| 744.4 | San Onofre 4 | TCM | 03/12/91 | 5.3 | ND | ND | ND | ND | ND | ND |
| 744.4 | San Onofre 4 | TCM | 03/25/92 | ND | ND | ND | ND | ND | ND | ND |
| 744.5 | San Onofre 5 | TCM | 03/12/91 | 3.9 | ND | ND | ND | ND | ND | ND |
| 744.5 | San Onofre 5 | TCM | 03/25/92 | ND | ND | ND | ND | ND | ND | ND |

| Station Number | Fluoranthene, benzo(b) | Fluoranthene, benzo(k) | Fluorene | Naphthalene | Naphthalene, 1-methyl | Naphthalene, 2-methyl | Naphthalene, 2,6-dimethyl | Naphthalene, 2,3,5-trimethyl | Naphthene, ace |
|----------------|------------------------|------------------------|----------|-------------|-----------------------|-----------------------|---------------------------|------------------------------|----------------|
| 744.1 | ND | ND | ND | 3.93 | ND | 1.51 | ND | ND | ND |
| 744.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 744.2 | ND | ND | ND | 3.50 | ND | ND | ND | ND | ND |
| 744.2 | ND | ND | ND | ND | ND | 2.00 | ND | ND | ND |
| 744.3 | ND | ND | ND | 16.17 | ND | ND | ND | ND | ND |
| 744.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 744.4 | ND | ND | ND | 4.12 | ND | ND | ND | ND | ND |
| 744.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 744.5 | ND | ND | ND | 3.86 | ND | ND | ND | ND | ND |
| 744.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |

| Station Number | Naphthylene, ace | Perylene | Perylene, benzo(ghi) | Phenanthrene | Phenanthrene, 1-methyl | Pyrene | Pyrene, benzo(a) | Pyrene, benzo(e) | Pyrene, indeno(1,2,3-cd) |
|----------------|------------------|----------|----------------------|--------------|------------------------|--------|------------------|------------------|--------------------------|
| 744.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 744.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 744.2 | ND | ND | ND | ND | ND | ND | ND | 1.68 | ND |
| 744.2 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 744.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 744.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 744.4 | ND | ND | ND | 1.14 | ND | ND | ND | ND | ND |
| 744.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 744.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 744.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |

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NA = Not Analyzed
 ND = Not Detected

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APPENDIX R (continued)

State Mussel Watch Program

Summary of 1987-93 Data: PAHs in Mussels, Clams, and Sediment (ppb, wet weight)

| Station Number | Station Name | Sample Type* | Sample Date | Total PAH | Anthracene | Anthracene, benz(a) | Anthracene, dibenz(a,h) | Biphenyl | Chrysene | Fluoranthene |
|----------------|------------------------------------|--------------|-------------|-----------|------------|---------------------|-------------------------|----------|----------|--------------|
| 744.6 | San Onofre 6 | TCM | 03/12/91 | 6.3 | ND | ND | ND | ND | ND | ND |
| 744.6 | San Onofre 6 | TCM | 03/25/92 | ND | ND | ND | ND | ND | ND | ND |
| 882.5 | San Diego Bay/NASSCO Pier 12 | TCM | 12/22/87 | 486.4 | ND | ND | ND | ND | ND | 204.80 |
| 882.7 | San Diego Bay/Sampson Street Pier | TCM | 01/05/93 | 470.1 | 11.00 | 28.00 | ND | ND | 35.00 | 180.00 |
| 882.8 | San Diego Bay/KELCO Pier | TCM | 12/21/91 | 1944.1 | 49.00 | 150.00 | 7.20 | 3.00 | 150.00 | 520.00 |
| 882.8 | San Diego Bay/KELCO Pier | TCM | 12/21/91 | 2709.2 | 97.00 | 180.00 | 6.30 | 7.20 | 190.00 | 720.00 |
| 883.4 | San Diego Bay/Continental Maritime | TCM | 01/05/93 | 491.1 | 12.00 | 26.00 | ND | ND | 28.00 | 190.00 |
| 883.6 | San Diego Bay/7th Street Channel | TCM | 12/22/87 | 1790.0 | ND | ND | ND | ND | 156.00 | 704.00 |
| 883.6 | San Diego Bay/7th Street Channel | TCM | 12/21/88 | 4139.5 | 376.00 | 75.00 | ND | ND | ND | 1094.40 |
| 883.6 | San Diego Bay/7th Street Channel | SED | 11/27/90 | 2.1 | 0.08 | 0.51 | ND | ND | 0.24 | 0.21 |

| Station Number | Fluoranthene, benzo(b) | Fluoranthene, benzo(k) | Fluorene | Naphthalene | Naphthalene, 1-methyl | Naphthalene, 2-methyl | Naphthalene, 2,6-dimethyl | Naphthalene, 2,3,5-trimethyl | Naphthene, ace |
|----------------|------------------------|------------------------|----------|-------------|-----------------------|-----------------------|---------------------------|------------------------------|----------------|
| 744.6 | ND | ND | ND | 6.29 | ND | ND | ND | ND | ND |
| 744.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 882.5 | 128.00 | ND | ND | ND | ND | ND | ND | ND | ND |
| 882.7 | 29.00 | 7.40 | 3.80 | 3.10 | 1.90 | 3.60 | ND | ND | 4.80 |
| 882.8 | 130.00 | 20.00 | 31.00 | 2.70 | 3.30 | 13.00 | 8.90 | 14.00 | 36.00 |
| 882.8 | 170.00 | 35.00 | 53.00 | 4.40 | 9.30 | 33.00 | 14.00 | 13.00 | 55.00 |
| 883.4 | 23.00 | 6.10 | 5.60 | 1.60 | ND | 2.70 | ND | ND | 6.00 |
| 883.6 | 126.00 | ND | ND | ND | ND | ND | ND | ND | ND |
| 883.6 | 119.70 | 78.66 | ND | ND | ND | ND | ND | ND | ND |
| 883.6 | 0.31 | ** | ND | ND | ND | ND | ND | ND | ND |

| Station Number | Naphthylene, ace | Perylene | Perylene, benzo(ghi) | Phenanthrene | Phenanthrene, 1-methyl | Pyrene | Pyrene, benzo(a) | Pyrene, benzo(e) | Pyrene, indeno(1,2,3-cd) |
|----------------|------------------|----------|----------------------|--------------|------------------------|---------|------------------|------------------|--------------------------|
| 744.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 744.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 882.5 | ND | ND | ND | ND | ND | 153.00 | ND | ND | ND |
| 882.7 | ND | 3.50 | 8.30 | 23.00 | 2.80 | 86.00 | 7.60 | 26.00 | 5.30 |
| 882.8 | ND | 20.00 | 28.00 | 140.00 | 27.00 | 390.00 | 40.00 | 140.00 | 21.00 |
| 882.8 | ND | 24.00 | 33.00 | 290.00 | 32.00 | 540.00 | 43.00 | 130.00 | 30.00 |
| 883.4 | ND | 3.20 | 4.80 | 38.00 | 3.20 | 110.00 | 6.00 | 22.00 | 2.90 |
| 883.6 | ND | ND | ND | ND | ND | 541.00 | 129.00 | 134.00 | ND |
| 883.6 | ND | ND | ND | 598.50 | 167.58 | 1470.60 | 159.03 | ND | ND |
| 883.6 | ND | 0.17 | ND | 0.07 | ND | 0.21 | 0.30 | ND | ND |

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 RBM = Resident Bay Mussel RFC = Resident Fresh Water Clam ND = Not Detected
 TCM = Transplanted California Mussel SED = Sediment ** = sediment values for Fluoranthene, benzo(k) are included in Fluoranthene, benzo(b).

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APPENDIX R (continued)

State Mussel Watch Program

Summary of 1987-93 Data: PAHs in Mussels, Clams, and Sediment (ppb, wet weight)

| Station Number | Station Name | Sample Type* | Sample Date | Total PAH | Anthracene | Anthracene, benz(a) | Anthracene, dibenz(a,h) | Biphenyl | Chrysene | Fluoranthene |
|----------------|------------------------------------|--------------|-------------|-----------|------------|---------------------|-------------------------|----------|----------|--------------|
| 883.6 | San Diego Bay/7th Street Channel | SED | 08/31/91 | 4325.5 | 45.00 | 230.00 | 67.00 | ND | 600.00 | 180.00 |
| 887.0 | San Diego Bay/Evans Street | SED | 09/07/90 | 6.8 | 0.18 | 1.34 | 0.02 | ND | 0.65 | 0.91 |
| 887.0 | San Diego Bay/Evans Street | TCM | 12/22/90 | 1428.7 | 52.65 | 69.03 | 2.22 | 0.70 | 95.94 | 468.00 |
| 887.0 | San Diego Bay/Evans Street | TCM | 12/21/91 | 2046.0 | 53.00 | 100.00 | 3.40 | 2.60 | 120.00 | 670.00 |
| 887.0 | San Diego Bay/Evans Street | TCM | 01/05/93 | 1199.2 | 29.00 | 63.00 | ND | 1.00 | 69.00 | 433.50 |
| 888.0 | San Diego Bay/Coronado Bridge | TCM | 12/21/91 | 3745.4 | 81.00 | 280.00 | 8.60 | 3.70 | 320.00 | 1000.00 |
| 894.0 | SD Bay/Harbor Is/E Basin/Storm Dr | TCM | 12/22/87 | ND | ND | ND | ND | ND | ND | ND |
| 894.0 | SD Bay/Harbor Is/E Basin/Storm Dr | TCM | 12/21/88 | ND | ND | ND | ND | ND | ND | ND |
| 897.5 | Commercial Basin/North Harbor Dr | TCM | 12/22/87 | 583.0 | ND | ND | ND | ND | ND | 376.00 |
| 899.0 | San Diego Bay/Shelter Is/Fshg Pier | TCM | 12/21/91 | 231.1 | 7.40 | 12.00 | ND | ND | 15.00 | 71.00 |

| Station Number | Fluoranthene, benzo(b) | Fluoranthene, benzo(k) | Fluorene | Naphthalene | Naphthalene, 1-methyl | Naphthalene, 2-methyl | Naphthalene, 2,6-dimethyl | Naphthalene, 2,3,5-trimethyl | Naphthene, ace |
|----------------|------------------------|------------------------|----------|-------------|-----------------------|-----------------------|---------------------------|------------------------------|----------------|
| 883.6 | 720.00 | 310.00 | 10.00 | 7.50 | 2.60 | 5.50 | 2.30 | ND | 2.60 |
| 887.0 | 0.93 | ** | 0.04 | ND | ND | ND | ND | ND | ND |
| 887.0 | 37.44 | 46.80 | 19.89 | 3.51 | 3.16 | 9.48 | 12.87 | 15.21 | 18.72 |
| 887.0 | 110.00 | 19.00 | 38.00 | 2.70 | 3.40 | 8.40 | 5.60 | 6.90 | 31.00 |
| 887.0 | 64.00 | 17.00 | 23.00 | 3.20 | 2.10 | 5.80 | ND | ND | 11.00 |
| 888.0 | 290.00 | 65.00 | 57.00 | 3.90 | 5.90 | 13.00 | 11.00 | 6.30 | 55.00 |
| 894.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 894.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 897.5 | 104.00 | ND | ND | ND | ND | ND | ND | ND | ND |
| 899.0 | 7.00 | 5.50 | ND | 3.20 | ND | 10.00 | 2.00 | 2.90 | 5.80 |

| Station Number | Naphthylene, ace | Perylene | Perylene, benzo(ghi) | Phenanthrene | Phenanthrene, 1-methyl | Pyrene | Pyrene, benzo(a) | Pyrene, benzo(e) | Pyrene, indeno(1,2,3-cd) |
|----------------|------------------|----------|----------------------|--------------|------------------------|--------|------------------|------------------|--------------------------|
| 883.6 | 15.00 | 96.00 | 260.00 | 56.00 | 16.00 | 360.00 | 590.00 | 470.00 | 280.00 |
| 887.0 | ND | 0.10 | ND | 0.19 | 0.19 | 1.02 | 0.47 | 0.49 | 0.27 |
| 887.0 | ND | 17.55 | 15.21 | 128.70 | 24.57 | 292.50 | 24.57 | 63.18 | 6.79 |
| 887.0 | ND | 13.00 | 26.00 | 190.00 | 42.00 | 450.00 | 25.00 | 110.00 | 16.00 |
| 887.0 | 1.70 | 8.30 | 15.00 | 91.00 | 9.20 | 263.50 | 17.00 | 63.00 | 8.90 |
| 888.0 | ND | 31.00 | 54.00 | 310.00 | 52.00 | 690.00 | 81.00 | 290.00 | 37.00 |
| 894.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 894.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 897.5 | ND | ND | ND | ND | ND | ND | ND | 103.00 | ND |
| 899.0 | ND | 5.30 | ND | 29.00 | ND | 46.00 | 2.40 | 6.60 | ND |

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 RBM = Resident Bay Mussel RFC = Resident Fresh Water Clam ND = Not Detected
 TCM = Transplanted California Mussel SED = Sediment ** = sediment values for Fluoranthene, benzo(k) are included in Fluoranthene, benzo(b).

APPENDIX R (continued)

State Mussel Watch Program

Summary of 1987-93 Data: PAHs in Mussels, Clams, and Sediment (ppb, wet weight)

| Station Number | Station Name | Sample Type* | Sample Date | Total PAH | Anthracene | Anthracene, benz(a) | Anthracene, dibenz(a,h) | Biphenyl | Chrysene | Fluoranthene |
|----------------|------------------------------------|--------------|-------------|-----------|------------|---------------------|-------------------------|----------|----------|--------------|
| 899.2 | San Diego Bay/Shelter Island | TCM | 01/05/93 | 114.7 | 1.20 | 1.70 | ND | ND | 3.50 | 38.00 |
| 899.4 | San Diego Bay/Shelter Is/Fuel Dock | TCM | 12/22/87 | ND | ND | ND | ND | ND | ND | ND |
| 901.0 | San Diego Bay/Degausing Station | SED | 09/07/90 | 0.0369 | ND | ND | ND | ND | 0.04 | ND |
| 901.0 | San Diego Bay/Degausing Station | TCM | 12/21/91 | 1492.4 | 54.00 | 35.00 | ND | 2.50 | 35.00 | 530.00 |
| 904.0 | Imperial Beach/Pier | RCM | 12/22/90 | 957.8 | 22.88 | 14.96 | ND | 2.29 | 36.96 | 246.40 |

| Station Number | Fluoranthene, benzo(b) | Fluoranthene, benzo(k) | Fluorene | Naphthalene | Naphthalene, 1-methyl | Naphthalene, 2-methyl | Naphthalene, 2,6-dimethyl | Naphthalene, 2,3,5-trimethyl | Naphthene, ace |
|----------------|------------------------|------------------------|----------|-------------|-----------------------|-----------------------|---------------------------|------------------------------|----------------|
| 899.2 | 3.00 | 2.60 | 9.90 | 3.40 | 1.60 | 3.50 | 15.00 | 2.00 | ND |
| 899.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 901.0 | ND | NA | ND | ND | ND | ND | ND | ND | ND |
| 901.0 | 20.00 | 4.40 | 43.00 | 3.90 | 5.10 | 23.00 | 11.00 | 17.00 | 22.00 |
| 904.0 | 5.63 | 6.69 | 36.96 | 11.44 | 2.46 | 28.16 | 4.40 | 3.87 | 14.61 |

| Station Number | Naphthylene, ace | Perylene | Perylene, benzo(ghi) | Phenanthrene | Phenanthrene, 1-methyl | Pyrene | Pyrene, benzo(a) | Pyrene, benzo(e) | Pyrene, indeno(1,2,3-cd) |
|----------------|------------------|----------|----------------------|--------------|------------------------|--------|------------------|------------------|--------------------------|
| 899.2 | ND | ND | ND | 4.30 | 4.90 | 17.00 | ND | 3.10 | ND |
| 899.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 901.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 901.0 | ND | 2.80 | 3.00 | 310.00 | 24.00 | 320.00 | 5.00 | 19.00 | 2.70 |
| 904.0 | ND | ND | ND | 264.00 | 15.49 | 228.80 | 4.22 | 7.57 | ND |

* RCM = Resident California Mussel TCM = Transplanted Fresh Water Clam NA = Not Analyzed
 RBM = Resident Bay Mussel RFC = Resident Fresh Water Clam ND = Not Detected
 TCM = Transplanted California Mussel SED = Sediment