

Table 1
Toxic Substances Monitoring Program
Preliminary Summary of 1999 Data: Trace Elements in Fish and Clams (ppm, wet weight)

| Station Number | Station Name | Species Code | Tissue | Sample Date | Arsenic | Cadmium | Chromium | Copper | Lead | Mercury | Nickel | Selenium | Silver | Zinc |
|----------------|---------------------------------|--------------|--------|-------------|---------|---------|----------|---------|---------|---------|--------|----------|---------|-------|
| 111.63.## | Lk Pillsbury/Horsepasture Gulch | LMB | F | 06/15/99 | NA | NA | NA | NA | NA | 1.370 | NA | NA | NA | NA |
| 111.63.## | Lk Pillsbury/Horsepasture Gulch | LMB | F | 06/15/99 | 0.063 | <0.0020 | NA | NA | NA | 1.160 | 0.0150 | 0.359 | NA | NA |
| 111.63.## | Lk Pillsbury/Horsepasture Gulch | LMB | F | 06/15/99 | NA | NA | NA | NA | NA | 1.180 | NA | NA | NA | NA |
| 111.63.## | Lk Pillsbury/Horsepasture Gulch | LMB | F | 06/15/99 | NA | NA | NA | NA | NA | 1.460 | NA | NA | NA | NA |
| 111.63.## | Lk Pillsbury/Horsepasture Gulch | LMB | L | 06/15/99 | NA | NA | 0.090 | 21.6000 | 0.0170 | NA | NA | NA | 0.0450 | 29.70 |
| 111.63.#A | Lake Pillsbury/Dam | RBT | F | 05/16/00 | 0.217 | <0.0020 | NA | NA | NA | 0.048 | 0.0130 | 0.273 | NA | NA |
| 111.63.#A | Lake Pillsbury/Dam | RBT | L | 05/16/00 | NA | NA | 0.215 | 43.5000 | 0.0030 | NA | NA | NA | 0.0310 | 18.30 |
| 111.63.13 | Lake Pillsbury/Eel River Arm | LMB | F | 05/15/99 | NA | NA | NA | NA | NA | 1.360 | NA | NA | NA | NA |
| 111.63.13 | Lake Pillsbury/Eel River Arm | BG | F | 06/15/99 | NA | NA | NA | NA | NA | 0.847 | NA | NA | NA | NA |
| 111.63.13 | Lake Pillsbury/Eel River Arm | LMB | F | 06/15/99 | NA | NA | NA | NA | NA | 1.600 | NA | NA | NA | NA |
| 111.63.13 | Lake Pillsbury/Eel River Arm | LMB | F | 06/15/99 | NA | NA | NA | NA | NA | 1.530 | NA | NA | NA | NA |
| 111.63.13 | Lake Pillsbury/Eel River Arm | LMB | F | 06/15/99 | 0.041 | <0.0020 | NA | NA | NA | 1.550 | 0.0150 | 0.339 | NA | NA |
| 111.63.13 | Lake Pillsbury/Eel River Arm | LMB | F | 06/15/99 | NA | NA | NA | NA | NA | 1.370 | NA | NA | NA | NA |
| 111.63.13 | Lake Pillsbury/Eel River Arm | LMB | F | 06/15/99 | NA | NA | NA | NA | NA | 1.480 | NA | NA | NA | NA |
| 111.63.13 | Lake Pillsbury/Eel River Arm | LMB | L | 06/15/99 | NA | NA | 0.063 | 5.2900 | 0.0290 | NA | NA | NA | 0.0280 | 18.80 |
| 111.63.14 | Lake Pillsbury | LMB | F | 06/15/99 | NA | NA | NA | NA | NA | 1.480 | NA | NA | NA | NA |
| 111.63.14 | Lake Pillsbury | LMB | F | 06/15/99 | NA | NA | NA | NA | NA | 1.650 | NA | NA | NA | NA |
| 111.63.14 | Lake Pillsbury | LMB | F | 06/15/99 | 0.065 | <0.0020 | NA | NA | NA | 1.830 | 0.0370 | 0.369 | NA | NA |
| 111.63.14 | Lake Pillsbury | LMB | F | 06/15/99 | NA | NA | NA | NA | NA | 1.430 | NA | NA | NA | NA |
| 111.63.14 | Lake Pillsbury | LMB | F | 06/15/99 | NA | NA | NA | NA | NA | 2.730 | NA | NA | NA | NA |
| 111.63.14 | Lake Pillsbury | LMB | L | 06/15/99 | NA | NA | 0.102 | 29.9000 | 0.0070 | NA | NA | NA | 0.0500 | 31.30 |
| 111.63.14 | Lake Pillsbury | SPM | F | 06/15/99 | NA | NA | NA | NA | NA | 2.370 | NA | NA | NA | NA |
| 111.63.14 | Lake Pillsbury | RBT | F | 06/15/00 | 0.138 | <0.0020 | NA | NA | NA | 0.207 | 0.0160 | 0.345 | NA | NA |
| 111.63.14 | Lake Pillsbury | RBT | F | 06/15/00 | 0.043 | <0.0020 | NA | NA | NA | 0.327 | 0.0190 | 0.301 | NA | NA |
| 111.63.14 | Lake Pillsbury | RBT | L | 06/15/00 | NA | NA | 0.189 | 68.2000 | 0.0060 | NA | NA | NA | 0.2690 | 25.10 |
| 111.63.14 | Lake Pillsbury | RBT | L | 06/15/00 | NA | NA | 0.112 | 24.5000 | <0.0020 | NA | NA | NA | 0.0960 | 8.40 |
| 114.21.10 | Laguna de Santa Rosa/Stony Pt | GSF | F | 11/05/99 | 0.041 | <0.0020 | NA | NA | NA | 0.357 | 0.0190 | 0.234 | NA | NA |
| 114.21.10 | Laguna de Santa Rosa/Stony Pt | GSF | L | 11/05/99 | NA | NA | 0.122 | 1.6200 | <0.0020 | NA | NA | NA | <0.0020 | 15.40 |
| 114.23.00 | Mark West Creek | SPM | W | 11/05/99 | 0.047 | 0.0070 | 0.126 | 1.3900 | 0.0090 | 0.218 | 0.2150 | 0.282 | 0.0040 | 30.10 |
| 114.24.## | Lake Sonoma/Dry Creek Arm | LMB | F | 05/17/00 | 0.136 | <0.0020 | NA | NA | NA | 0.595 | 0.0100 | 0.346 | NA | NA |

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| Station Number | Station Name | Species Code | Tissue | Sample Date | Arsenic | Cadmium | Chromium | Copper | Lead | Mercury | Nickel | Selenium | Silver | Zinc |
|----------------|---------------------------|--------------|--------|-------------|---------|---------|----------|---------|---------|---------|--------|----------|--------|-------|
| 114.24.## | Lake Sonoma/Dry Creek Arm | LMB | F | 05/17/00 | 0.099 | <0.0020 | NA | NA | NA | 0.501 | 0.0120 | 0.322 | NA | NA |
| 114.24.## | Lake Sonoma/Dry Creek Arm | LMB | F | 05/17/00 | 0.150 | <0.0020 | NA | NA | NA | 0.513 | 0.3140 | 0.364 | NA | NA |
| 114.24.## | Lake Sonoma/Dry Creek Arm | LMB | L | 05/17/00 | NA | NA | 0.188 | 23.5000 | <0.0020 | NA | NA | NA | 0.1580 | 24.20 |
| 114.24.## | Lake Sonoma/Dry Creek Arm | LMB | L | 05/17/00 | NA | NA | 0.199 | 10.5000 | <0.0020 | NA | NA | NA | 0.0240 | 22.30 |
| 114.24.## | Lake Sonoma/Dry Creek Arm | LMB | L | 05/17/00 | NA | NA | 0.228 | 10.2000 | <0.0020 | NA | NA | NA | 0.0480 | 21.10 |
| 114.24.12 | Lake Sonoma | LMB | F | 05/18/00 | 0.125 | <0.0020 | NA | NA | NA | 0.461 | 0.0140 | 0.304 | NA | NA |
| 114.24.12 | Lake Sonoma | LMB | F | 05/18/00 | 0.171 | <0.0020 | NA | NA | NA | 0.559 | 0.0070 | 0.389 | NA | NA |
| 114.24.12 | Lake Sonoma | LMB | F | 05/18/00 | 0.185 | <0.0020 | NA | NA | NA | 0.840 | 0.0100 | 0.359 | NA | NA |
| 114.24.12 | Lake Sonoma | LMB | L | 05/18/00 | NA | NA | 0.161 | 8.6500 | <0.0020 | NA | NA | NA | 0.0430 | 18.80 |
| 114.24.12 | Lake Sonoma | LMB | L | 05/18/00 | NA | NA | 0.132 | 30.6000 | 0.0140 | NA | NA | NA | 0.2100 | 30.40 |
| 114.24.12 | Lake Sonoma | LMB | L | 05/18/00 | NA | NA | 0.138 | 7.4500 | <0.0020 | NA | NA | NA | 0.0230 | 20.80 |
| 114.32.## | Lake Mendocino/across | LMB | F | 05/17/00 | 0.036 | <0.0020 | NA | NA | NA | 0.651 | 0.0110 | 0.199 | NA | NA |
| 114.32.## | Lake Mendocino/across | LMB | F | 05/17/00 | 0.068 | <0.0020 | NA | NA | NA | 0.346 | 0.0120 | 0.250 | NA | NA |
| 114.32.## | Lake Mendocino/across | LMB | F | 05/17/00 | 0.095 | <0.0020 | NA | NA | NA | 0.517 | 0.0190 | 0.277 | NA | NA |
| 114.32.## | Lake Mendocino/across | LMB | L | 05/17/00 | NA | NA | 0.097 | 11.4000 | <0.0020 | NA | NA | NA | 0.0520 | 19.50 |
| 114.32.## | Lake Mendocino/across | LMB | L | 05/17/00 | NA | NA | 0.120 | 19.7000 | <0.0020 | NA | NA | NA | 0.0830 | 23.60 |
| 114.32.## | Lake Mendocino/across | LMB | L | 05/17/00 | NA | NA | 0.085 | 13.5000 | 0.0100 | NA | NA | NA | 0.0450 | 24.20 |
| 201.12.## | Soulajule | LMB | F | 05/02/00 | NA | NA | NA | NA | NA | 1.030 | NA | NA | NA | NA |
| 201.12.## | Soulajule | LMB | F | 05/02/00 | NA | NA | NA | NA | NA | 0.812 | NA | NA | NA | NA |
| 201.12.## | Soulajule | LMB | F | 05/02/00 | NA | NA | NA | NA | NA | 0.405 | NA | NA | NA | NA |
| 206.60.## | San Pablo Reservoir | BCR | F | 04/17/00 | NA | NA | NA | NA | NA | 0.146 | NA | NA | NA | NA |
| 206.60.## | San Pablo Reservoir | BCR | F | 04/17/00 | NA | NA | NA | NA | NA | 0.129 | NA | NA | NA | NA |
| 206.60.## | San Pablo Reservoir | BCR | F | 04/17/00 | NA | NA | NA | NA | NA | 0.152 | NA | NA | NA | NA |
| 206.60.## | San Pablo Reservoir | CP | F | 04/17/00 | NA | NA | NA | NA | NA | 0.197 | NA | NA | NA | NA |
| 206.60.## | San Pablo Reservoir | CP | F | 04/17/00 | NA | NA | NA | NA | NA | 0.185 | NA | NA | NA | NA |
| 206.60.## | San Pablo Reservoir | CP | F | 04/17/00 | NA | NA | NA | NA | NA | 0.182 | NA | NA | NA | NA |
| 206.60.## | San Pablo Reservoir | CCF | F | 04/17/00 | NA | NA | NA | NA | NA | 0.131 | NA | NA | NA | NA |
| 206.60.## | San Pablo Reservoir | CCF | F | 04/17/00 | NA | NA | NA | NA | NA | 0.114 | NA | NA | NA | NA |
| 206.60.## | San Pablo Reservoir | CCF | F | 04/17/00 | NA | NA | NA | NA | NA | 0.062 | NA | NA | NA | NA |
| 3##.##.#D | Gabilan Creek | TFC | W | 04/29/99 | 1.670 | 0.5600 | 4.330 | 13.3000 | 0.0650 | <0.015 | 0.5160 | 0.592 | 0.0190 | 13.00 |

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| 304.10.00 | Waddell Creek Lagoon | STB | W | 10/05/99 | 0.346 | 0.0220 | 0.200 | 2.7200 | 0.0120 | 0.053 | 0.3220 | 0.851 | 0.0340 | 34.90 |
| 305.10.## | Pajaro R/Pajaro | RCH | W | 10/07/99 | 0.143 | 0.0220 | 0.071 | 1.3800 | 0.0030 | <0.015 | 0.1320 | 0.844 | 0.0050 | 37.10 |
| 305.10.## | Pajaro R/Pajaro | RCH | W | 10/07/99 | 0.132 | 0.0250 | 0.143 | 1.3700 | 0.0170 | 0.060 | 0.1720 | 0.828 | 0.0040 | 35.30 |
| 306.00.05 | Elkhorn Sl/u/s Elkhorn Rd Brg | TFC | W | 04/29/99 | 1.970 | 0.6060 | 7.120 | 25.5000 | 0.0620 | 0.028 | 0.8240 | 0.683 | 0.0360 | 15.60 |
| 307.00.01 | Carmel Lagoon | STB | W | 10/06/99 | 0.515 | 0.1780 | 0.150 | 6.5200 | 0.0570 | 0.093 | 0.4320 | 1.110 | 0.0560 | 72.20 |
| 308.00.0# | Big Sur River Lagoon | STB | W | 10/06/99 | 0.154 | 0.0480 | 0.205 | 1.6500 | 0.0320 | <0.015 | 0.2300 | 1.090 | 0.0040 | 30.40 |
| 309.10.## | Salinas Rec Canal 5 | TFC | W | 04/29/99 | 1.160 | 0.3290 | 2.430 | 7.9300 | 0.0170 | <0.015 | 0.2420 | 0.331 | 0.0130 | 8.27 |
| 309.10.00 | Salinas R Lagoon | STB | W | 10/07/99 | 0.378 | 0.1010 | 0.383 | 2.4100 | 0.0450 | 0.058 | 0.4630 | 0.588 | <0.0020 | 33.20 |
| 309.10.10 | Alisal Sl/West Salinas | TFC | W | 04/29/99 | 1.310 | 0.3230 | 2.550 | 8.7000 | 0.0200 | <0.015 | 0.3760 | 0.461 | 0.0160 | 11.30 |
| 309.10.17 | Salinas Rec Canal/Airport Rd | TFC | W | 04/29/99 | 2.840 | 1.3800 | 9.770 | 29.5000 | 0.3370 | <0.015 | 1.2600 | 0.943 | 0.0430 | 24.50 |
| 310.12.00 | Arroyo de la Cruz | STB | W | 10/06/99 | 0.094 | 0.0250 | 0.251 | 1.7400 | 0.0100 | <0.015 | 0.2490 | 0.408 | <0.0020 | 19.30 |
| 310.13.## | Pico Creek Lagoon | PCP | W | 09/22/99 | 0.282 | 0.0380 | 0.166 | 1.3700 | 0.0110 | 0.180 | 0.2720 | 0.313 | 0.0050 | 12.80 |
| 310.13.00 | San Simeon Creek Lagoon | STB | W | 09/22/99 | 0.314 | 0.0380 | 0.291 | 3.7600 | 0.0130 | 0.177 | 0.4710 | 0.354 | 0.0070 | 24.60 |
| 310.14.00 | Santa Rosa Cr Lagoon | STB | W | 09/22/99 | 0.188 | 0.0370 | 0.284 | 3.6300 | 0.0270 | 0.318 | 0.5140 | 1.860 | 0.0080 | 36.00 |
| 310.24.00 | San Luis Obispo Cr Lagoon | SSP | W | 09/22/99 | 0.351 | 0.0190 | 0.167 | 0.9110 | 0.0070 | <0.015 | 0.2610 | 0.429 | 0.0030 | 19.50 |
| 310.31.00 | Arroyo Grande Creek Lagoon | STB | W | 09/22/99 | 0.249 | 0.0830 | 0.405 | 2.1700 | 0.0410 | <0.015 | 0.2870 | 3.180 | 0.0080 | 33.20 |
| 312.10.00 | Santa Maria R/Mouth | STB | W | 09/21/99 | 0.196 | 0.0620 | 0.246 | 2.1900 | 0.0730 | 0.043 | 0.2420 | 0.770 | 0.0090 | 37.90 |
| 314.10.00 | Santa Ynez River Lagoon | STF | F | 09/21/99 | 0.097 | <0.0020 | NA | NA | NA | 0.059 | 0.0110 | 0.474 | NA | NA |
| 314.10.00 | Santa Ynez River Lagoon | STF | L | 09/21/99 | NA | NA | 0.164 | 8.3500 | <0.0020 | NA | NA | NA | 0.0110 | 26.30 |
| 315.34.00 | Carpinteria Marsh | CKF | W | 09/21/99 | 0.525 | 0.0070 | 0.389 | 1.4300 | 0.1240 | <0.015 | 0.3960 | 0.457 | 0.0270 | 24.90 |
| 402.10.05 | Ventura R/d/s OVSD Discharge | AC | F | 08/13/99 | 0.129 | 0.0210 | 0.190 | 2.4000 | 0.0150 | 0.077 | 0.1180 | 3.110 | 0.0180 | 42.90 |
| 402.10.06 | Ventura R/u/s OVSD Discharge | AC | W | 08/13/99 | 0.124 | 0.0740 | 0.111 | 1.8900 | 0.0120 | 0.094 | 0.1360 | 2.680 | 0.0050 | 40.90 |
| 403.11.00 | Santa Clara River Estuary | AC | W | 08/13/99 | 0.126 | 0.0310 | 0.185 | 1.2200 | 0.0110 | 0.041 | 0.1500 | 1.510 | 0.0140 | 36.60 |
| 403.12.06 | Calleguas Creek | BB | F | 08/11/99 | <0.020 | <0.0020 | NA | NA | NA | 0.059 | 0.0120 | 0.258 | NA | NA |
| 403.12.06 | Calleguas Creek | BB | L | 08/11/99 | NA | NA | 0.161 | 14.1000 | 0.0340 | NA | NA | NA | 0.1390 | 22.70 |
| 403.64.03 | Arroyo Conejo/d/s Forks | BB | F | 08/11/99 | 0.033 | <0.0020 | NA | NA | NA | 0.061 | 0.0110 | 0.311 | NA | NA |
| 403.64.03 | Arroyo Conejo/d/s Forks | BB | L | 08/11/99 | NA | NA | 0.179 | 18.3000 | 0.0040 | NA | NA | NA | 0.4040 | 21.50 |
| 403.67.08 | Arroyo Simi/Madera Rd | AC | W | 08/12/99 | 0.226 | 0.0410 | 0.070 | 1.4100 | 0.0320 | 0.045 | 0.1300 | 3.420 | <0.0020 | 35.90 |
| 404.21.04 | Malibu Cr/Tapia Park | AC | W | 09/10/99 | 0.260 | 0.1200 | 0.356 | 1.6400 | 0.0190 | 0.031 | 0.1750 | 1.320 | 0.0190 | 33.50 |
| 404.21.05 | Malibu Cr/u/s Tapia Discharge | LMB | W | 09/10/99 | 0.089 | 0.0520 | 0.293 | 0.4650 | <0.0020 | 0.035 | 0.1760 | 1.100 | <0.0020 | 19.40 |

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| 404.21.07 | Malibou Lake | LMB | F | 08/12/99 | 0.103 | <0.0020 | NA | NA | NA | 0.246 | 0.0090 | 1.280 | NA | NA |
| 404.21.07 | Malibou Lake | LMB | L | 08/12/99 | NA | NA | 0.065 | 9.1100 | 0.0090 | NA | NA | NA | 0.0070 | 19.30 |
| 404.25.01 | Westlake Lake | LMB | F | 08/12/99 | 0.084 | 0.0010 | NA | NA | NA | 0.177 | 0.0090 | 2.020 | NA | NA |
| 404.25.01 | Westlake Lake | LMB | L | 08/12/99 | NA | NA | 0.104 | 149.0000 | 0.0130 | NA | NA | NA | 0.0290 | 45.00 |
| 405.12.03 | Los Angeles River | TL | W | 09/09/99 | 0.493 | 0.0080 | 0.302 | 1.2100 | 0.1340 | <0.015 | 0.4720 | 0.365 | 0.0160 | 25.50 |
| 405.15.04 | San Gabriel River | TL | F | 09/09/99 | 0.290 | <0.0020 | NA | NA | NA | <0.015 | 0.0230 | 0.397 | NA | NA |
| 405.15.04 | San Gabriel River | TL | L | 09/09/99 | NA | NA | 0.086 | 30.3000 | 0.0770 | NA | NA | NA | 1.6600 | 21.40 |
| 405.21.06 | Los Angeles R/Los Feliz Rd | GAM | W | 09/09/99 | 0.054 | 0.0070 | 0.126 | 1.2700 | 0.0120 | <0.015 | 0.1110 | 0.721 | 0.0420 | 33.10 |
| 405.52.01 | Puddingstone Res | LMB | F | 08/10/99 | 0.211 | <0.0020 | NA | NA | NA | 0.371 | 0.0220 | 0.301 | NA | NA |
| 405.52.01 | Puddingstone Res | LMB | L | 08/10/99 | NA | NA | 0.068 | 20.2000 | <0.0020 | NA | NA | NA | 0.0200 | 28.30 |
| 508.10.42 | Sacramento R/Keswick | RBT | F | 12/22/99 | 0.060 | <0.0020 | NA | NA | NA | 0.045 | 0.0230 | 0.306 | NA | NA |
| 508.10.42 | Sacramento R/Keswick | RBT | L | 12/22/99 | NA | NA | 0.222 | 176.0000 | 0.0180 | NA | NA | NA | 0.2170 | 21.80 |
| 511.10.08 | Putah Creek/South Fork | LMB | F | 09/30/99 | NA | NA | NA | NA | NA | 0.478 | NA | NA | NA | NA |
| 511.10.08 | Putah Creek/South Fork | SKR | F | 09/30/99 | NA | NA | NA | NA | NA | 0.185 | NA | NA | NA | NA |
| 531.11.03 | Cosumnes R/Cosumnes R Preserve | LMB | F | 10/20/99 | NA | NA | NA | NA | NA | 1.260 | NA | NA | NA | NA |
| 531.30.02 | Smith Canal/Yosemite Park | LMB | F | 09/22/99 | NA | NA | NA | NA | NA | 0.334 | NA | 0.430 | NA | NA |
| 531.30.91 | Stockton Deep Water Ch | LMB | F | 09/22/99 | NA | NA | NA | NA | NA | 0.493 | NA | 0.440 | NA | NA |
| 541.10.90 | San Joaquin R/Vernalis | LMB | F | 11/01/99 | NA | NA | NA | NA | NA | 0.763 | NA | 0.610 | NA | NA |
| 541.10.94 | San Joaquin R/Pear Slough | LMB | F | 10/25/99 | NA | NA | NA | NA | NA | 0.784 | NA | 0.660 | NA | NA |
| 541.20.94 | San Joaquin R/Landers Avenue | LMB | F | 10/18/99 | NA | NA | NA | NA | NA | 0.671 | NA | 0.830 | NA | NA |
| 544.00.01 | San Joaquin R/Potato Slough | LMB | F | 09/21/99 | NA | NA | NA | NA | NA | 0.323 | NA | 0.380 | NA | NA |
| 544.00.02 | Mokelumne R/d/s Cosumnes River | LMB | F | 09/20/99 | NA | NA | NA | NA | NA | 0.948 | NA | NA | NA | NA |
| 544.00.06 | Mokelumne R/d/s Beaver Slough | LMB | F | 11/03/99 | NA | NA | NA | NA | NA | 0.532 | NA | NA | NA | NA |
| 544.00.09 | White Slough/Lodi | LMB | F | 09/21/99 | NA | NA | NA | NA | NA | 0.335 | NA | 0.210 | NA | NA |
| 544.00.10 | San Joaquin R/Turner Cut | LMB | F | 09/23/99 | NA | NA | NA | NA | NA | 0.373 | NA | 0.360 | NA | NA |
| 544.00.12 | Middle River/Bullfrog | LMB | F | 10/13/99 | NA | NA | NA | NA | NA | 0.227 | NA | 0.490 | NA | NA |
| 544.00.18 | San Joaquin R/HWY 4 | LMB | F | 09/23/99 | NA | NA | NA | NA | NA | 0.772 | NA | 0.460 | NA | NA |
| 544.00.32 | Paradise Cut/Tracy | LMB | F | 10/17/99 | NA | NA | NA | NA | NA | 0.680 | NA | 0.530 | NA | NA |
| 544.00.93 | San Joaquin R/d/s Bowman Rd | LMB | F | 09/22/99 | NA | NA | NA | NA | NA | 0.960 | NA | 0.430 | NA | NA |
| 551.20.00 | Mendota Pool | LMB | F | 05/27/00 | NA | NA | NA | NA | NA | 0.206 | NA | 0.761 | NA | NA |

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| 630.10.07 | East Walker R/Bridgeport | BN | F | 10/20/99 | 0.065 | <0.0020 | NA | NA | NA | 0.060 | 0.0150 | 0.225 | NA | NA |
| 630.10.07 | East Walker R/Bridgeport | BN | L | 10/20/99 | NA | NA | 0.099 | 116.0000 | 0.0290 | NA | NA | NA | 0.7870 | 21.30 |
| 630.30.## | East Walker R/u/s Bridgeport Res | BN | F | 10/18/99 | 0.036 | <0.0020 | NA | NA | NA | 0.039 | 0.0090 | 0.336 | NA | NA |
| 630.30.## | East Walker R/u/s Bridgeport Res | BN | L | 10/18/99 | NA | NA | 0.094 | 67.3000 | <0.0020 | NA | NA | NA | 0.4860 | 23.40 |
| 630.30.#A | Buckeye Cr/u/s/Bridgeport Res | RBT | F | 10/18/99 | 0.093 | <0.0020 | NA | NA | NA | 0.031 | 0.0120 | 0.469 | NA | NA |
| 630.30.#A | Buckeye Cr/u/s/Bridgeport Res | RBT | L | 10/18/99 | NA | NA | 0.128 | 25.2000 | <0.0020 | NA | NA | NA | 0.0980 | 18.20 |
| 630.30.#B | Robinson Cr/u/s Bridgeport Res | BN | F | 10/18/99 | 0.150 | <0.0020 | NA | NA | NA | 0.038 | 0.0100 | 0.683 | NA | NA |
| 630.30.#B | Robinson Cr/u/s Bridgeport Res | BN | L | 10/18/99 | NA | NA | 0.154 | 58.4000 | 0.0050 | NA | NA | NA | 0.4900 | 23.30 |
| 634.10.00 | Upper Truckee R/d/s HWY 50 | RBT | F | 09/16/99 | <0.020 | <0.0020 | NA | NA | NA | 0.053 | 0.0120 | 0.104 | NA | NA |
| 634.10.00 | Upper Truckee R/d/s HWY 50 | RBT | L | 09/16/99 | NA | NA | 0.175 | 14.5000 | 0.0040 | NA | NA | NA | 0.1770 | 23.30 |
| 637.20.## | Gold Run Creek | RBT | F | 10/21/99 | 0.039 | <0.0020 | NA | NA | NA | 0.146 | 0.0180 | 0.112 | NA | NA |
| 637.20.## | Gold Run Creek | RBT | L | 10/21/99 | NA | NA | 0.114 | 13.3000 | <0.0020 | NA | NA | NA | 0.1200 | 27.40 |
| 637.20.25 | Susan R/d/s Piute Creek | BK | F | 10/22/99 | <0.023 | <0.0020 | NA | NA | NA | 1.540 | 0.0340 | 0.116 | NA | NA |
| 637.20.25 | Susan R/d/s Piute Creek | BK | L | 10/22/99 | NA | NA | 0.159 | 36.5000 | <0.0020 | NA | NA | NA | 0.1510 | 28.30 |
| 637.20.31 | Susan R/u/s Susanville | RBT | F | 10/22/99 | <0.023 | <0.0020 | NA | NA | NA | 2.090 | 0.0170 | 0.103 | NA | NA |
| 637.20.31 | Susan R/u/s Susanville | RBT | L | 10/22/99 | NA | NA | 0.156 | 61.4000 | <0.0020 | NA | NA | NA | 0.3690 | 22.30 |
| 715.40.08 | Palo Verde Outfall Drain | LMB | F | 12/07/99 | 0.049 | NA | NA | NA | NA | NA | NA | 0.500 | NA | NA |
| 715.50.90 | Colorado R/u/s Imperial Dam | LMB | F | 12/07/99 | 0.130 | NA | NA | NA | NA | 0.058 | NA | 2.450 | NA | NA |
| 719.47.00 | Coachella Valley Stormwater Ch | TL | W | 12/08/99 | 0.251 | NA | NA | NA | NA | NA | NA | 0.915 | NA | NA |
| 723.10.02 | New R/Westmorland | CP | F | 12/09/99 | 0.118 | NA | NA | NA | NA | NA | NA | 1.460 | NA | NA |
| 723.10.12 | Wiest Lake | LMB | F | 12/06/99 | 0.081 | NA | NA | NA | NA | <0.015 | NA | 1.350 | NA | NA |
| 723.10.21 | Holtville Main Drain | CCF | F | 12/05/99 | <0.020 | NA | NA | NA | NA | NA | NA | 0.529 | NA | NA |
| 723.10.30 | Central Drain | CP | F | 12/05/99 | 0.114 | NA | NA | NA | NA | NA | NA | 2.110 | NA | NA |
| 723.10.31 | South Central Drain | CCF | F | 12/05/99 | 0.050 | NA | NA | NA | NA | NA | NA | 1.020 | NA | NA |
| 728.00.90 | Salton Sea/South | ORC | F | 12/06/99 | 0.642 | NA | NA | NA | NA | NA | NA | 1.820 | NA | NA |
| 801.11.05 | Delhi Channel | GAM | W | 08/05/99 | 0.395 | 0.0060 | 0.068 | 3.0900 | 0.0350 | <0.015 | 0.1360 | 1.540 | 0.0070 | 19.10 |
| 801.11.07 | San Diego Cr/Michelson Dr | PRS | W | 08/05/99 | 0.159 | 0.0250 | 0.056 | 1.1900 | 0.0420 | 0.047 | 0.1250 | 2.400 | <0.0020 | 35.60 |
| 801.11.07 | San Diego Cr/Michelson Dr | PRS | W | 08/05/99 | 0.136 | 0.0330 | 0.093 | 1.2100 | 0.0810 | 0.052 | 0.1300 | 2.420 | 0.0030 | 38.30 |
| 801.11.09 | San Diego Cr/Barranca Pkwy | PRS | W | 08/05/99 | 0.157 | 0.0940 | 0.052 | 1.1900 | 0.0270 | 0.066 | 0.1460 | 1.630 | 0.0040 | 43.50 |
| 801.11.89 | Lower Newport Bay/Rhine Ch | YFC | F | 08/10/99 | 0.731 | <0.0020 | NA | NA | NA | 0.105 | 0.0130 | 0.400 | NA | NA |

L = Liver. F = Filet. W = Whole Body. < = Below Indicated Detection Limit. NA = Not Analyzed.
 Species codes are listed in Table 3.

Table 1
Toxic Substances Monitoring Program
Preliminary Summary of 1999 Data: Trace Elements in Fish and Clams (ppm, wet weight)

| Station Number | Station Name | Species Code | Tissue | Sample Date | Arsenic | Cadmium | Chromium | Copper | Lead | Mercury | Nickel | Selenium | Silver | Zinc |
|----------------|----------------------------------|--------------|--------|-------------|---------|---------|----------|--------|---------|---------|--------|----------|---------|-------|
| 801.11.89 | Lower Newport Bay/Rhine Ch | YFC | L | 08/10/99 | NA | NA | 0.089 | 5.3300 | 0.1290 | NA | NA | NA | 0.0060 | 23.90 |
| 801.11.96 | Peters Canyon Channel | PRS | W | 08/05/99 | 0.179 | 0.0350 | 0.121 | 1.2300 | 0.0300 | 0.048 | 0.1370 | 4.110 | <0.0020 | 45.80 |
| 801.11.96 | Peters Canyon Channel | PRS | W | 08/05/99 | 0.190 | 0.0360 | 0.171 | 1.2900 | 0.0380 | 0.040 | 0.1390 | 4.240 | 0.0030 | 44.70 |
| 801.11.99 | Upper Newport Bay/Newport Dunes | ORC | F | 08/04/99 | 1.300 | <0.0020 | NA | NA | NA | 0.050 | 0.0170 | 0.760 | NA | NA |
| 801.11.99 | Upper Newport Bay/Newport Dunes | ORC | L | 08/04/99 | NA | NA | 0.088 | 6.2600 | 0.0080 | NA | NA | NA | <0.0020 | 18.40 |
| 901.12.## | Aliso Cr/Pacific Park Dr | PRS | W | 08/27/99 | 0.245 | 0.2240 | 0.110 | 1.3000 | 0.0710 | <0.015 | 0.1950 | 1.610 | <0.0020 | 32.50 |
| 902.11.01 | Santa Margarita R/Stuart Mesa Rd | CKF | W | 08/25/99 | 0.221 | 0.0050 | 0.050 | 1.1200 | 0.0320 | <0.015 | 0.1900 | 0.248 | 0.0270 | 28.30 |
| 902.22.03 | Rainbow Creek | GSF | F | 08/26/99 | 0.031 | <0.0020 | NA | NA | NA | 0.051 | 0.0080 | 0.388 | NA | NA |
| 902.22.03 | Rainbow Creek | GSF | L | 08/26/99 | NA | NA | 0.067 | 2.4500 | 0.0100 | NA | NA | NA | <0.0020 | 16.70 |
| 902.32.## | Murrietta Cr/u/s Temecula Cr | BLB | F | 08/26/99 | 0.036 | <0.0020 | NA | NA | NA | 0.059 | 0.0370 | 0.287 | NA | NA |
| 902.32.## | Murrietta Cr/u/s Temecula Cr | BLB | L | 08/26/99 | NA | NA | 0.100 | 9.2500 | 0.0070 | NA | NA | NA | 0.0290 | 19.20 |
| 904.10.## | Loma Alta Cr/College Blvd | GAM | W | 08/26/99 | 0.217 | 0.0220 | 0.236 | 3.6900 | 0.0770 | 0.061 | 0.1990 | 0.371 | 0.0340 | 37.70 |
| 904.21.02 | Buena Vista Lagoon | LMB | F | 08/25/99 | 0.072 | <0.0020 | NA | NA | NA | 0.054 | 0.0100 | 0.392 | NA | NA |
| 904.21.02 | Buena Vista Lagoon | LMB | L | 08/25/99 | NA | NA | 0.122 | 3.8300 | 0.0210 | NA | NA | NA | 0.0060 | 21.90 |
| 904.31.## | Agua Hedionda Cr/El Camino Real | GAM | W | 08/24/99 | 0.386 | 0.0250 | 0.220 | 1.3400 | 0.0380 | <0.015 | 0.1520 | 0.461 | 0.0050 | 25.90 |
| 904.51.03 | San Marcos Cr | LMB | F | 08/24/99 | 0.045 | <0.0020 | NA | NA | NA | 0.046 | 0.0230 | 0.335 | NA | NA |
| 904.51.03 | San Marcos Cr | LMB | L | 08/24/99 | NA | NA | 0.193 | 3.0800 | <0.0020 | NA | NA | NA | <0.0020 | 16.00 |
| 904.61.07 | Escondido Cr/Elfin Forest Park | GSF | F | 08/24/99 | 0.064 | 0.0010 | NA | NA | NA | 0.050 | 0.3410 | 0.496 | NA | NA |
| 904.61.07 | Escondido Cr/Elfin Forest Park | GSF | L | 08/24/99 | NA | NA | 0.070 | 2.4400 | 0.0100 | NA | NA | NA | 0.0050 | 17.30 |
| 907.11.03 | San Diego R/u/s Taylor St | LMB | F | 08/23/99 | 0.096 | <0.0020 | NA | NA | NA | 0.035 | 0.0150 | 0.854 | NA | NA |
| 907.11.03 | San Diego R/u/s Taylor St | LMB | L | 08/23/99 | NA | NA | 0.112 | 5.9400 | 0.0130 | NA | NA | NA | 0.0130 | 23.10 |

L = Liver. F = Filet. W = Whole Body. < = Below Indicated Detection Limit. NA = Not Analyzed.

Species codes are listed in Table 3.

TABLE 2
Toxic Substances Monitoring Program
Preliminary Summary of 1999 Data: Organic Chemicals in Fish and Clams (ppb, wet weight)

| Station Number | Station Name | Species Code | Tissue Type | Sample Date | Aldrin | alpha-Chlor-dene | cis-Chlor-dane | gamma-Chlor-dene | trans-Chlor-dane | cis-Nona-chlor | trans-Nona-chlor | Oxy-chlor-dane | Total Chlor-dane | Chlor-pyrifos | Dacthal |
|----------------|---------------------------------|--------------|-------------|-------------|--------|------------------|----------------|------------------|------------------|----------------|------------------|----------------|------------------|---------------|---------|
| 111.63.## | Lk Pillsbury/Horsepasture Gulch | LMB | F | 06/15/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | ND | <2.0 | <2.0 |
| 111.63.13 | Lake Pillsbury/Eel River Arm | LMB | F | 06/15/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | ND | <2.0 | <2.0 |
| 111.63.14 | Lake Pillsbury | LMB | F | 06/15/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | ND | <2.0 | <2.0 |
| 114.21.10 | Laguna de Santa Rosa/Stony Pt | GSF | F | 11/05/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | 1.1 | <1.0 | 1.1 | <2.0 | <2.0 |
| 114.23.00 | Mark West Creek | SPM | W | 11/05/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | 3.0 | <1.0 | 3.0 | <2.0 | <2.0 |
| 206.60.## | San Pablo Reservoir | CP | F | 04/17/00 | <1.0 | 1.6 | 32.8 | 2.3 | 15.1 | 14.8 | 34.0 | 4.3 | 105.0 | <2.0 | 3.0 |
| 206.60.## | San Pablo Reservoir | BCR | F | 04/17/00 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | 1.7 | <1.0 | 1.7 | <2.0 | <2.0 |
| 206.60.## | San Pablo Reservoir | BCR | F | 04/17/00 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | 1.8 | <1.0 | 1.8 | <2.0 | <2.0 |
| 206.60.## | San Pablo Reservoir | BCR | F | 04/17/00 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | 1.6 | <1.0 | 1.6 | <2.0 | <2.0 |
| 206.60.## | San Pablo Reservoir | CP | F | 04/17/00 | 1.1 | 1.4 | 27.5 | 2.0 | 13.0 | 12.1 | 27.5 | 3.9 | 87.4 | <2.0 | <2.0 |

| Station Number | Dieldrin | o,p' DDD | p,p' DDD | o,p' DDE | p,p' DDE | o,p' DDT | p,p' DDT | p,p' DDMU | p,p' DDMS | Total DDT | Dicofol | Diazinon | Endo-sulfan I | Endo-sulfan II | Endo-sulfan Sulfate | Total Endo-sulfan | Endrin | Ethion |
|----------------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|---------|----------|---------------|----------------|---------------------|-------------------|--------|--------|
| 111.63.## | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <3.0 | <5.0 | <3.0 | NA | ND | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 111.63.13 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <3.0 | <5.0 | <3.0 | NA | ND | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 111.63.14 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <3.0 | <5.0 | <3.0 | NA | ND | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 114.21.10 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <3.0 | <5.0 | <3.0 | NA | ND | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 114.23.00 | <2.0 | <2.0 | 2.2 | <2.0 | 18.1 | <3.0 | <5.0 | <3.0 | NA | 20.3 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 206.60.## | 111.0 | <2.0 | 15.4 | <2.0 | 70.8 | <3.0 | <5.0 | 3.3 | NA | 89.5 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 206.60.## | 5.2 | <2.0 | <2.0 | <2.0 | 3.5 | <3.0 | <5.0 | <3.0 | NA | 3.5 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 206.60.## | 5.3 | <2.0 | <2.0 | <2.0 | 3.6 | <3.0 | <5.0 | <3.0 | NA | 3.6 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 206.60.## | 5.3 | <2.0 | <2.0 | <2.0 | 3.0 | <3.0 | <5.0 | <3.0 | NA | 3.0 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 206.60.## | 62.7 | 2.1 | 14.8 | <2.0 | 58.9 | <3.0 | <5.0 | 3.0 | NA | 78.8 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |

| Station Number | alpha-HCH | beta-HCH | delta-HCH | gamma-HCH (Lindane) | Total HCH | Hepta-chlor | Hepta-chlor-epoxide | Hexa-chloro-benzene | Methoxy-chlor | Oxa-diazon | Ethyl Para-thion | Methyl Para-thion | PCB 1248 | PCB 1254 | PCB 1260 | Total PCB | Toxaphene | Chemical Group A |
|----------------|-----------|----------|-----------|---------------------|-----------|-------------|---------------------|---------------------|---------------|------------|------------------|-------------------|----------|----------|----------|-----------|-----------|------------------|
| 111.63.## | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | ND |
| 111.63.13 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | ND |
| 111.63.14 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | ND |
| 114.21.10 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | 1.1 |
| 114.23.00 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | 0.4 | <5.0 | 4.0 | <2.0 | <4.0 | <25.0 | 22.0 | <10.0 | 22.0 | <20.0 | 3.0 |
| 206.60.## | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | 4.1 | 1.1 | <5.0 | 87.4 | <2.0 | <4.0 | <25.0 | 90.0 | 37.0 | 127.0 | 33.5 | 253.6 |
| 206.60.## | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | 6.9 |
| 206.60.## | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | 7.1 |
| 206.60.## | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | 6.9 |
| 206.60.## | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | 2.7 | 0.8 | <5.0 | 50.3 | <2.0 | <4.0 | <25.0 | 67.0 | 38.0 | 105.0 | 21.0 | 174.9 |

NA Means that the sample was not analyzed for the chemical.

F = Filet.

ND Means that the chemical was not detected.

W = Whole Body.

< Means that the chemical was not detected above the indicated limit of detection.

Species codes are listed in Table 3.

TABLE 2
Toxic Substances Monitoring Program
Preliminary Summary of 1999 Data: Organic Chemicals in Fish and Clams (ppb, wet weight)

| Station Number | Station Name | Species Code | Tissue Type | Sample Date | Aldrin | alpha-Chlor-dene | cis-Chlor-dane | gamma-Chlor-dene | trans-Chlor-dane | cis-Nona-chlor | trans-Nona-chlor | Oxy-chlor-dane | Total Chlor-dane | Chlor-pyrifos | Dacthal |
|----------------|-------------------------------|--------------|-------------|-------------|--------|------------------|----------------|------------------|------------------|----------------|------------------|----------------|------------------|---------------|---------|
| 206.60.## | San Pablo Reservoir | CP | F | 04/17/00 | 1.1 | 1.3 | 33.7 | 2.0 | 14.6 | 16.1 | 31.4 | 4.9 | 104.1 | <2.0 | <2.0 |
| 206.60.## | San Pablo Reservoir | CCF | F | 04/17/00 | 1.2 | 1.3 | 28.2 | 1.9 | 12.6 | 12.0 | 26.2 | 3.1 | 85.3 | <2.0 | 2.3 |
| 206.60.## | San Pablo Reservoir | CCF | F | 04/17/00 | 1.7 | 2.3 | 51.2 | 3.1 | 23.6 | 23.0 | 45.4 | 4.8 | 153.4 | <2.0 | <2.0 |
| 206.60.## | San Pablo Reservoir | CCF | F | 04/17/00 | <1.0 | <1.0 | 9.9 | 1.0 | 4.1 | 3.7 | 11.4 | 1.4 | 31.6 | <2.0 | <2.0 |
| 3##.##.#D | Gabilan Creek | TFC | W | 04/29/99 | <1.0 | <1.0 | 2.1 | <1.0 | <2.0 | <2.0 | 2.8 | <1.0 | 5.0 | 4.0 | 4.8 |
| 304.10.00 | Waddell Creek Lagoon | STB | W | 10/05/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | ND | <2.0 | <2.0 |
| 305.10.## | Pajaro R/Pajaro | RCH | W | 10/07/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | 2.4 | 1.2 | 3.6 | <2.0 | 3.1 |
| 305.10.## | Pajaro R/Pajaro | RCH | W | 10/07/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | 2.5 | 1.2 | 3.7 | <2.0 | 2.9 |
| 306.00.05 | Elkhorn Sl/u/s Elkhorn Rd Brg | TFC | W | 04/29/99 | <1.0 | <1.0 | 6.4 | <1.0 | 4.6 | 2.1 | 6.3 | <1.0 | 19.5 | 3.8 | 11.4 |
| 307.00.01 | Carmel Lagoon | STB | W | 10/06/99 | <1.0 | <1.0 | 3.1 | <1.0 | <2.0 | <2.0 | 6.8 | <1.0 | 9.9 | <2.0 | <2.0 |

| Station Number | Dieldrin | o,p' DDD | p,p' DDD | o,p' DDE | p,p' DDE | o,p' DDT | p,p' DDT | p,p' DDMU | p,p' DDMS | Total DDT | Dicofol | Diazinon | Endo-sulfan I | Endo-sulfan II | Endo-sulfan Sulfate | Total Endo-sulfan | Endrin | Ethion |
|----------------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|---------|----------|---------------|----------------|---------------------|-------------------|--------|--------|
| 206.60.## | 95.2 | 2.1 | 16.3 | <2.0 | 68.5 | <3.0 | <5.0 | 3.3 | NA | 90.2 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 206.60.## | 120.0 | <2.0 | 10.4 | <2.0 | 55.5 | <3.0 | 6.1 | <3.0 | NA | 72.0 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 206.60.## | 110.0 | 2.3 | 17.7 | <2.0 | 93.8 | <3.0 | 12.0 | 3.9 | NA | 129.6 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 206.60.## | 63.1 | <2.0 | 5.1 | <2.0 | 22.4 | <3.0 | <5.0 | <3.0 | NA | 27.5 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 3##.##.#D | 11.9 | 2.6 | 4.7 | 2.5 | 88.3 | 8.1 | 27.2 | <3.0 | NA | 133.4 | NA | 30.5 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 304.10.00 | <2.0 | <2.0 | <2.0 | <2.0 | 8.5 | <3.0 | <5.0 | <3.0 | NA | 8.5 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 305.10.## | 15.0 | 3.3 | 14.7 | <2.0 | 97.4 | <3.0 | <5.0 | 7.2 | NA | 122.6 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 305.10.## | 15.2 | 3.4 | 14.8 | <2.0 | 100.0 | <3.0 | <5.0 | 7.3 | NA | 125.6 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 306.00.05 | 45.9 | 11.8 | 27.1 | 2.9 | 123.0 | 4.1 | 17.9 | 4.1 | NA | 190.9 | NA | <20.0 | 5.8 | <10.0 | 18.7 | 24.5 | 5.3 | <6.0 |
| 307.00.01 | 2.0 | <2.0 | <2.0 | <2.0 | 37.4 | <3.0 | <5.0 | <3.0 | NA | 37.4 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |

| Station Number | alpha-HCH | beta-HCH | delta-HCH | gamma-HCH (Lindane) | Total HCH | Hepta-chlor | Hepta-chlor-epoxide | Hexa-chloro-benzene | Methoxy-chlor | Oxa-diazon | Ethyl Para-thion | Methyl Para-thion | PCB 1248 | PCB 1254 | PCB 1260 | Total PCB | Toxaphene | Chemical Group A |
|----------------|-----------|----------|-----------|---------------------|-----------|-------------|---------------------|---------------------|---------------|------------|------------------|-------------------|----------|----------|----------|-----------|-----------|------------------|
| 206.60.## | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | 4.1 | 0.9 | <5.0 | 73.4 | <2.0 | <4.0 | <25.0 | 80.0 | 41.0 | 121.0 | 34.5 | 239.0 |
| 206.60.## | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | 4.1 | 0.8 | <5.0 | 92.3 | <2.0 | <4.0 | <25.0 | 81.0 | 29.0 | 110.0 | 40.4 | 251.0 |
| 206.60.## | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | 4.4 | 1.1 | <5.0 | 69.0 | <2.0 | <4.0 | <25.0 | 158.0 | 40.0 | 198.0 | 61.1 | 330.6 |
| 206.60.## | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | 2.2 | 0.5 | <5.0 | 42.5 | <2.0 | <4.0 | <25.0 | 28.0 | 15.0 | 43.0 | <20.0 | 96.9 |
| 3##.##.#D | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | 15.3 | <10.0 | 15.3 | 74.8 | 91.7 |
| 304.10.00 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | ND |
| 305.10.## | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | 0.4 | <5.0 | <3.0 | 3.0 | <4.0 | 25.0 | <10.0 | <10.0 | 25.0 | 61.2 | 79.8 |
| 305.10.## | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | 0.4 | <5.0 | 4.9 | 4.7 | <4.0 | <25.0 | <10.0 | <10.0 | ND | 61.2 | 80.1 |
| 306.00.05 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | 6.5 | 0.4 | <5.0 | 27.1 | <2.0 | <4.0 | <25.0 | 32.9 | <10.0 | 32.9 | 204.0 | 305.6 |
| 307.00.01 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | 48.0 | <10.0 | 48.0 | <20.0 | 11.9 |

NA Means that the sample was not analyzed for the chemical.

ND Means that the chemical was not detected.

< Means that the chemical was not detected above the indicated limit of detection.

F = Filet.

W = Whole Body.

Species codes are listed in Table 3.

TABLE 2

Toxic Substances Monitoring Program

Preliminary Summary of 1999 Data: Organic Chemicals in Fish and Clams (ppb, wet weight)

| Station Number | Station Name | Species Code | Tissue Type | Sample Date | Aldrin | alpha-Chlor-dene | cis-Chlor-dane | gamma-Chlor-dene | trans-Chlor-dane | cis-Nona-chlor | trans-Nona-chlor | Oxy-chlor-dane | Total Chlor-dane | Chlor-pyrifos | Dacthal |
|----------------|------------------------------|--------------|-------------|-------------|--------|------------------|----------------|------------------|------------------|----------------|------------------|----------------|------------------|---------------|---------|
| 308.00.0# | Big Sur River Lagoon | STB | W | 10/06/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | ND | <2.0 | <2.0 |
| 309.10.## | Salinas Rec Canal 5 | TFC | W | 04/29/99 | <1.0 | <1.0 | 10.4 | <1.0 | 7.0 | 5.2 | 10.5 | <1.0 | 33.1 | 304.0 | 540.0 |
| 309.10.00 | Salinas R Lagoon | STB | W | 10/07/99 | <1.0 | <1.0 | 4.3 | <1.0 | <2.0 | 3.2 | 7.1 | 2.7 | 17.2 | <2.0 | 11.6 |
| 309.10.10 | Alisal Sl/West Salinas | TFC | W | 04/29/99 | 3.8 | 1.2 | 21.5 | <1.0 | 12.6 | 3.4 | 10.2 | 2.3 | 51.2 | 18.7 | 38.1 |
| 309.10.17 | Salinas Rec Canal/Airport Rd | TFC | W | 04/29/99 | <1.0 | <1.0 | 2.8 | <1.0 | 2.1 | <2.0 | 2.9 | <1.0 | 7.8 | 345.0 | 2901.0 |
| 310.12.00 | Arroyo de la Cruz | STB | W | 10/06/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | ND | <2.0 | <2.0 |
| 310.13.#A | Pico Creek Lagoon | PCP | W | 09/22/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | 1.6 | <1.0 | 1.6 | <2.0 | <2.0 |
| 310.13.00 | San Simeon Creek Lagoon | STB | W | 09/22/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | ND | <2.0 | <2.0 |
| 310.14.00 | Santa Rosa Cr Lagoon | STB | W | 09/22/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | 1.3 | <1.0 | 1.3 | <2.0 | <2.0 |
| 310.24.00 | San Luis Obispo Cr Lagoon | SSP | W | 09/22/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | 2.0 | <1.0 | 2.0 | <2.0 | <2.0 |

| Station Number | Dieldrin | o,p' DDD | p,p' DDD | o,p' DDE | p,p' DDE | o,p' DDT | p,p' DDT | p,p' DDMU | p,p' DDMS | Total DDT | Dicofol | Diazinon | Endo-sulfan I | Endo-sulfan II | Endo-sulfan Sulfate | Total Endo-sulfan | Endrin | Ethion |
|----------------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|---------|----------|---------------|----------------|---------------------|-------------------|--------|--------|
| 308.00.0# | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <3.0 | <5.0 | <3.0 | NA | ND | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 309.10.## | 91.6 | 18.6 | 44.8 | 7.5 | 261.0 | 41.2 | 168.0 | 6.6 | NA | 547.6 | NA | <20.0 | 3.8 | <10.0 | 19.7 | 23.5 | 6.1 | <6.0 |
| 309.10.00 | 57.6 | 12.8 | 42.5 | 2.9 | 311.0 | 8.4 | 48.4 | 18.6 | NA | 444.6 | NA | <20.0 | <2.0 | NA | NA | ND | 2.7 | <6.0 |
| 309.10.10 | 195.0 | 96.5 | 194.0 | 10.9 | 517.0 | 9.4 | 28.2 | 32.4 | NA | 888.4 | NA | <20.0 | <2.0 | <10.0 | <10.0 | ND | 11.0 | <6.0 |
| 309.10.17 | 70.8 | 20.3 | 57.2 | 2.3 | 94.0 | <3.0 | 6.6 | 5.9 | NA | 186.3 | NA | 286.0 | 20.6 | <10.0 | 19.2 | 39.8 | 8.3 | <6.0 |
| 310.12.00 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <3.0 | <5.0 | <3.0 | NA | ND | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 310.13.#A | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <3.0 | <5.0 | <3.0 | NA | ND | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 310.13.00 | <2.0 | <2.0 | <2.0 | <2.0 | 8.1 | <3.0 | <5.0 | <3.0 | NA | 8.1 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 310.14.00 | <2.0 | <2.0 | <2.0 | <2.0 | 4.7 | <3.0 | <5.0 | <3.0 | NA | 4.7 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 310.24.00 | <2.0 | <2.0 | <2.0 | <2.0 | 18.0 | <3.0 | <5.0 | <3.0 | NA | 18.0 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |

| Station Number | alpha-HCH | beta-HCH | delta-HCH | gamma-HCH (Lindane) | Total HCH | Hepta-chlor | Hepta-chlor-epoxide | Hexa-chloro-benzene | Methoxy-chlor | Oxa-diazon | Ethyl Para-thion | Methyl Para-thion | PCB 1248 | PCB 1254 | PCB 1260 | Total PCB | Toxaphene | Chemical Group A |
|----------------|-----------|----------|-----------|---------------------|-----------|-------------|---------------------|---------------------|---------------|------------|------------------|-------------------|----------|----------|----------|-----------|-----------|------------------|
| 308.00.0# | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | ND |
| 309.10.## | <1.0 | <2.0 | <2.0 | 2.8 | 2.8 | <2.0 | 1.4 | 1.3 | <5.0 | 9.2 | 4.8 | <4.0 | <25.0 | 29.6 | <10.0 | 29.6 | 946.0 | 1104.4 |
| 309.10.00 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | 1.1 | 0.7 | <5.0 | <3.0 | 2.5 | <4.0 | <25.0 | 37.0 | <10.0 | 37.0 | 135.0 | 213.7 |
| 309.10.10 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | 1.1 | 0.4 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | 44.1 | <10.0 | 44.1 | 503.0 | 765.1 |
| 309.10.17 | <1.0 | <2.0 | <2.0 | 11.7 | 11.7 | <2.0 | 4.0 | 1.0 | <5.0 | 17.1 | <2.0 | <4.0 | <25.0 | 40.5 | <10.0 | 40.5 | 219.0 | 361.4 |
| 310.12.00 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | ND |
| 310.13.#A | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | 0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | 1.6 |
| 310.13.00 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | ND |
| 310.14.00 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | 0.6 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | 1.3 |
| 310.24.00 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | 56.0 | <10.0 | 56.0 | <20.0 | 2.0 |

NA Means that the sample was not analyzed for the chemical.

ND Means that the chemical was not detected.

< Means that the chemical was not detected above the indicated limit of detection.

F = Filet.

W = Whole Body.

Species codes are listed in Table 3.

TABLE 2
Toxic Substances Monitoring Program
Preliminary Summary of 1999 Data: Organic Chemicals in Fish and Clams (ppb, wet weight)

| Station Number | Station Name | Species Code | Tissue Type | Sample Date | Aldrin | alpha-Chlor-dene | cis-Chlor-dane | gamma-Chlor-dene | trans-Chlor-dane | cis-Nona-chlor | trans-Nona-chlor | Oxy-chlor-dane | Total Chlor-dane | Chlor-pyrifos | Dacthal |
|----------------|------------------------------|--------------|-------------|-------------|--------|------------------|----------------|------------------|------------------|----------------|------------------|----------------|------------------|---------------|---------|
| 310.31.00 | Arroyo Grande Creek Lagoon | STB | W | 09/22/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | 2.3 | 1.2 | 3.5 | 2.3 | 3.2 |
| 312.10.00 | Santa Maria R/Mouth | STB | W | 09/21/99 | <1.0 | <1.0 | 3.4 | <1.0 | <2.0 | 4.3 | 35.9 | <1.0 | 43.6 | 25.8 | 12.6 |
| 314.10.00 | Santa Ynez River Lagoon | STF | F | 09/21/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | ND | <2.0 | <2.0 |
| 315.34.00 | Carpinteria Marsh | CKF | W | 09/21/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | 1.9 | <1.0 | 1.9 | <2.0 | <2.0 |
| 402.10.05 | Ventura R/d/s OVSD Discharge | AC | F | 08/13/99 | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** |
| 402.10.06 | Ventura R/u/s OVSD Discharge | AC | W | 08/13/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | 2.9 | 1.2 | 4.2 | <2.0 | <2.0 |
| 403.11.00 | Santa Clara River Estuary | AC | W | 08/13/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | 1.4 | <1.0 | 1.4 | <2.0 | 6.6 |
| 403.12.06 | Calleguas Creek | BB | F | 08/11/99 | <1.0 | <1.0 | 2.1 | <1.0 | <2.0 | <2.0 | 3.4 | <1.0 | 5.5 | <2.0 | 4.7 |
| 403.64.03 | Arroyo Conejo/d/s Forks | BB | F | 08/11/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | 2.1 | <1.0 | 2.1 | 6.0 | <2.0 |
| 403.67.08 | Arroyo Simi/Madera Rd | AC | W | 08/12/99 | <1.0 | <1.0 | 2.9 | <1.0 | <2.0 | 3.2 | 6.8 | 3.5 | 16.3 | <2.0 | 16.6 |

| Station Number | Dieldrin | o,p' DDD | p,p' DDD | o,p' DDE | p,p' DDE | o,p' DDT | p,p' DDT | p,p' DDMU | p,p' DDMS | Total DDT | Dicofol | Diazinon | Endo-sulfan I | Endo-sulfan II | Endo-sulfan Sulfate | Total Endo-sulfan | Endrin | Ethion |
|----------------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|---------|----------|---------------|----------------|---------------------|-------------------|--------|--------|
| 310.31.00 | 2.8 | 2.9 | 10.0 | <2.0 | 120.0 | <3.0 | 7.6 | 4.2 | NA | 144.7 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 312.10.00 | 188.0 | 204.0 | 803.0 | 23.2 | 5116.0 | 236.0 | 971.0 | 170.0 | NA | 7523.2 | NA | <20.0 | <2.0 | NA | NA | ND | 148.0 | <6.0 |
| 314.10.00 | <2.0 | <2.0 | <2.0 | <2.0 | 3.9 | <3.0 | <5.0 | <3.0 | NA | 3.9 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 315.34.00 | <2.0 | <2.0 | 7.2 | <2.0 | 49.1 | <3.0 | <5.0 | 3.2 | NA | 59.5 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 402.10.05 | *** | *** | *** | *** | *** | *** | *** | *** | NA | *** | NA | *** | *** | *** | *** | *** | *** | *** |
| 402.10.06 | <2.0 | <2.0 | <2.0 | <2.0 | 11.4 | <3.0 | <5.0 | <3.0 | NA | 11.4 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 403.11.00 | <2.0 | <2.0 | 5.8 | <2.0 | 36.8 | <3.0 | <5.0 | <3.0 | NA | 42.6 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 403.12.06 | 3.5 | 2.6 | 14.4 | <2.0 | 208.0 | 5.7 | 42.0 | 3.5 | NA | 276.2 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 403.64.03 | <2.0 | <2.0 | <2.0 | <2.0 | 19.1 | <3.0 | <5.0 | <3.0 | NA | 19.1 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 403.67.08 | 3.7 | <2.0 | 2.1 | <2.0 | 67.4 | <3.0 | <5.0 | <3.0 | NA | 69.5 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |

| Station Number | alpha-HCH | beta-HCH | delta-HCH | gamma-HCH (Lindane) | Total HCH | Hepta-chlor | Hepta-chlor-epoxide | Hexa-chloro-benzene | Methoxy-chlor | Oxa-diazon | Ethyl Parathion | Methyl Parathion | PCB 1248 | PCB 1254 | PCB 1260 | Total PCB | Toxaphene | Chemical Group A |
|----------------|-----------|----------|-----------|---------------------|-----------|-------------|---------------------|---------------------|---------------|------------|-----------------|------------------|----------|----------|----------|-----------|-----------|------------------|
| 310.31.00 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | 2.4 | 0.5 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | 11.0 | <10.0 | 11.0 | 83.1 | 91.9 |
| 312.10.00 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | 1.4 | 9.3 | <3.0 | <2.0 | <4.0 | <25.0 | 248.0 | <10.0 | 248.0 | 7593.0 | 7972.6 |
| 314.10.00 | <1.0 | <2.0 | <2.0 | 1.0 | 1.0 | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | 1.0 |
| 315.34.00 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | 148.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | 1.9 |
| 402.10.05 | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** |
| 402.10.06 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | 0.6 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | 11.0 | <10.0 | 11.0 | <20.0 | 4.2 |
| 403.11.00 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | 3.3 | <4.0 | <25.0 | <10.0 | <10.0 | ND | 77.7 | 79.1 |
| 403.12.06 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | 0.8 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | 30.0 | <10.0 | 30.0 | 424.0 | 433.0 |
| 403.64.03 | <1.0 | <2.0 | <2.0 | 1.3 | 1.3 | <2.0 | <1.0 | 0.6 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | 3.4 |
| 403.67.08 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | 1.4 | <5.0 | 53.0 | <2.0 | <4.0 | <25.0 | 40.0 | <10.0 | 40.0 | 32.9 | 53.0 |

NA Means that the sample was not analyzed for the chemical.
 ND Means that the chemical was not detected.
 < Means that the chemical was not detected above the indicated limit of detection.
 *** Data not yet available.

F = Filet.
 W = Whole Body.
 Species codes are listed in Table 3.

TABLE 2
Toxic Substances Monitoring Program
Preliminary Summary of 1999 Data: Organic Chemicals in Fish and Clams (ppb, wet weight)

| Station Number | Station Name | Species Code | Tissue Type | Sample Date | Aldrin | alpha-Chlor-dene | cis-Chlor-dane | gamma-Chlor-dene | trans-Chlor-dane | cis-Nona-chlor | trans-Nona-chlor | Oxy-chlor-dane | Total Chlor-dane | Chlor-pyrifos | Dacthal |
|----------------|-------------------------------|--------------|-------------|-------------|--------|------------------|----------------|------------------|------------------|----------------|------------------|----------------|------------------|---------------|---------|
| 404.21.04 | Malibu Cr/Tapia Park | AC | W | 09/10/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | 4.2 | 1.1 | 5.3 | <2.0 | <2.0 |
| 404.21.05 | Malibu Cr/u/s Tapia Discharge | LMB | W | 09/10/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | 1.1 | <1.0 | 1.1 | <2.0 | <2.0 |
| 404.21.07 | Malibu Lake | LMB | F | 08/12/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | 2.2 | <1.0 | 2.2 | <2.0 | <2.0 |
| 404.25.01 | Westlake Lake | LMB | F | 08/12/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | 3.0 | <1.0 | 3.0 | <2.0 | <2.0 |
| 405.12.03 | Los Angeles River | TL | W | 09/09/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | 1.8 | <1.0 | 1.8 | <2.0 | <2.0 |
| 405.15.04 | San Gabriel River | TL | F | 09/09/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | ND | <2.0 | <2.0 |
| 405.21.06 | Los Angeles R/Los Feliz Rd | GAM | W | 09/09/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | 3.5 | 2.8 | 6.3 | 2.4 | <2.0 |
| 405.52.01 | Puddingstone Res | LMB | F | 08/10/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | 2.8 | <1.0 | 2.8 | <2.0 | <2.0 |
| 511.10.08 | Putah Creek/South Fork | LMB | F | 09/30/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | 1.7 | <1.0 | 1.7 | 2.1 | 2.0 |
| 511.10.08 | Putah Creek/South Fork | SKR | F | 09/30/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | ND | <2.0 | 2.0 |

| Station Number | Dieldrin | o,p' DDD | p,p' DDD | o,p' DDE | p,p' DDE | o,p' DDT | p,p' DDT | p,p' DDMU | p,p' DDMS | Total DDT | Dicofol | Diazinon | Endo-sulfan I | Endo-sulfan II | Endo-sulfan Sulfate | Total Endo-sulfan | Endrin | Ethion |
|----------------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|---------|----------|---------------|----------------|---------------------|-------------------|--------|--------|
| 404.21.04 | <2.0 | <2.0 | 2.1 | <2.0 | 16.9 | <3.0 | <5.0 | <3.0 | NA | 19.0 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 404.21.05 | <2.0 | <2.0 | <2.0 | <2.0 | 7.1 | <3.0 | <5.0 | <3.0 | NA | 7.1 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 404.21.07 | <2.0 | <2.0 | <2.0 | <2.0 | 5.7 | <3.0 | <5.0 | <3.0 | NA | 5.7 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 404.25.01 | <2.0 | <2.0 | <2.0 | <2.0 | 8.1 | <3.0 | <5.0 | <3.0 | NA | 8.1 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 405.12.03 | 3.7 | <2.0 | 2.4 | <2.0 | 7.3 | <3.0 | <5.0 | <3.0 | NA | 9.6 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 405.15.04 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <3.0 | <5.0 | <3.0 | NA | ND | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 405.21.06 | 6.4 | <2.0 | 4.3 | <2.0 | 16.5 | <3.0 | <5.0 | <3.0 | NA | 20.8 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 405.52.01 | <2.0 | <2.0 | <2.0 | <2.0 | 10.7 | <3.0 | <5.0 | <3.0 | NA | 10.7 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 511.10.08 | <2.0 | 2.6 | 22.0 | <2.0 | 63.9 | <3.0 | 7.2 | 5.2 | NA | 100.9 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 511.10.08 | <2.0 | <2.0 | 2.9 | <2.0 | 10.3 | <3.0 | <5.0 | <3.0 | NA | 13.2 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |

| Station Number | alpha-HCH | beta-HCH | delta-HCH | gamma-HCH (Lindane) | Total HCH | Hepta-chlor | Hepta-chlor-epoxide | Hexa-chloro-benzene | Methoxy-chlor | Oxa-diazon | Ethyl Para-thion | Methyl Para-thion | PCB 1248 | PCB 1254 | PCB 1260 | Total PCB | Toxaphene | Chemical Group A |
|----------------|-----------|----------|-----------|---------------------|-----------|-------------|---------------------|---------------------|---------------|------------|------------------|-------------------|----------|----------|----------|-----------|-----------|------------------|
| 404.21.04 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | 0.5 | <5.0 | 4.7 | <2.0 | <4.0 | <25.0 | 14.0 | <10.0 | 14.0 | <20.0 | 5.3 |
| 404.21.05 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | 1.1 |
| 404.21.07 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | 2.2 |
| 404.25.01 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | 3.0 |
| 405.12.03 | <1.0 | <2.0 | <2.0 | 5.3 | 5.3 | <2.0 | <1.0 | <0.3 | 13.0 | 3.9 | <2.0 | <4.0 | <25.0 | 25.0 | 11.0 | 36.0 | <20.0 | 10.8 |
| 405.15.04 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | ND |
| 405.21.06 | <1.0 | <2.0 | <2.0 | 7.4 | 7.4 | <2.0 | <1.0 | <0.3 | <5.0 | 4.5 | <2.0 | <4.0 | 27.0 | 31.0 | 10.0 | 68.0 | <20.0 | 20.2 |
| 405.52.01 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | 13.0 | <10.0 | 13.0 | <20.0 | 2.8 |
| 511.10.08 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | 19.0 | <10.0 | 19.0 | <20.0 | 1.7 |
| 511.10.08 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | ND |

NA Means that the sample was not analyzed for the chemical.

ND Means that the chemical was not detected.

< Means that the chemical was not detected above the indicated limit of detection.

F = Filet.

W = Whole Body.

Species codes are listed in Table 3.

TABLE 2
Toxic Substances Monitoring Program
Preliminary Summary of 1999 Data: Organic Chemicals in Fish and Clams (ppb, wet weight)

| Station Number | Station Name | Species Code | Tissue Type | Sample Date | Aldrin | alpha-Chlor-dene | cis-Chlor-dane | gamma-Chlor-dene | trans-Chlor-dane | cis-Nona-chlor | trans-Nona-chlor | Oxy-chlor-dane | Total Chlor-dane | Chlor-pyrifos | Dacthal |
|----------------|----------------------------------|--------------|-------------|-------------|--------|------------------|----------------|------------------|------------------|----------------|------------------|----------------|------------------|---------------|---------|
| 634.10.## | Tallac Lagoon | RBT | F | 09/17/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | ND | <2.0 | <2.0 |
| 634.10.#A | Tahoe Keys/Sailing Lagoon Marina | LMB | F | 06/01/00 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | ND | <2.0 | <2.0 |
| 634.10.#B | Tahoe Keys/Sailing Lagoon | LMB | F | 06/01/00 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | ND | <2.0 | 2.0 |
| 634.10.00 | Upper Truckee R/d/s HWY 50 | RBT | F | 09/16/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | ND | <2.0 | <2.0 |
| 635.20.## | Trout Cr/Truckee/d/s Golf Course | BK | F | 10/21/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | ND | <2.0 | <2.0 |
| 637.20.## | Gold Run Creek | RBT | F | 10/21/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | ND | <2.0 | <2.0 |
| 637.20.25 | Susan R/d/s Piute Creek | BK | F | 10/22/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | ND | <2.0 | <2.0 |
| 637.20.31 | Susan R/u/s Susanville | RBT | F | 10/22/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | ND | <2.0 | <2.0 |
| 715.40.08 | Palo Verde Outfall Drain | LMB | F | 12/07/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | ND | <2.0 | <2.0 |
| 715.50.90 | Colorado R/u/s Imperial Dam | LMB | F | 12/07/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | ND | <2.0 | <2.0 |

| Station Number | Dieldrin | o,p' DDD | p,p' DDD | o,p' DDE | p,p' DDE | o,p' DDT | p,p' DDT | p,p' DDMU | p,p' DDMS | Total DDT | Dicofol | Diazinon | Endo-sulfan I | Endo-sulfan II | Endo-sulfan Sulfate | Total Endo-sulfan | Endrin | Ethion |
|----------------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|---------|----------|---------------|----------------|---------------------|-------------------|--------|--------|
| 634.10.## | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <3.0 | <5.0 | <3.0 | NA | ND | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 634.10.#A | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <3.0 | <5.0 | <3.0 | NA | ND | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 634.10.#B | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <3.0 | <5.0 | <3.0 | NA | ND | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 634.10.00 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <3.0 | <5.0 | <3.0 | NA | ND | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 635.20.## | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <3.0 | <5.0 | <3.0 | NA | ND | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 637.20.## | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <3.0 | <5.0 | <3.0 | NA | ND | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 637.20.25 | <2.0 | <2.0 | <2.0 | <2.0 | 11.3 | <3.0 | <5.0 | <3.0 | NA | 11.3 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 637.20.31 | <2.0 | <2.0 | <2.0 | <2.0 | 2.9 | <3.0 | <5.0 | <3.0 | NA | 2.9 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 715.40.08 | <2.0 | <2.0 | <2.0 | <2.0 | 33.2 | <3.0 | <5.0 | <3.0 | NA | 33.2 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 715.50.90 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <3.0 | <5.0 | <3.0 | NA | ND | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |

| Station Number | alpha-HCH | beta-HCH | delta-HCH | gamma-HCH (Lindane) | Total HCH | Hepta-chlor | Hepta-chlor-epoxide | Hexa-chloro-benzene | Methoxy-chlor | Oxa-diazon | Ethyl Para-thion | Methyl Para-thion | PCB 1248 | PCB 1254 | PCB 1260 | Total PCB | Toxaphene | Chemical Group A |
|----------------|-----------|----------|-----------|---------------------|-----------|-------------|---------------------|---------------------|---------------|------------|------------------|-------------------|----------|----------|----------|-----------|-----------|------------------|
| 634.10.## | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | ND |
| 634.10.#A | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | 0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | ND |
| 634.10.#B | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | 0.4 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | 10.0 | <10.0 | 10.0 | 28.8 | 28.8 |
| 634.10.00 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | ND |
| 635.20.## | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | 5.8 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | ND |
| 637.20.## | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | ND |
| 637.20.25 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | 0.4 | <5.0 | 8.7 | 8.7 | <4.0 | <25.0 | 15.0 | <10.0 | 15.0 | <20.0 | ND |
| 637.20.31 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | ND |
| 715.40.08 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | ND |
| 715.50.90 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | ND |

NA Means that the sample was not analyzed for the chemical.

ND Means that the chemical was not detected.

< Means that the chemical was not detected above the indicated limit of detection.

F = Filet.

W = Whole Body.

Species codes are listed in Table 3.

TABLE 2

Toxic Substances Monitoring Program
 Preliminary Summary of 1999 Data: Organic Chemicals in Fish and Clams (ppb, wet weight)

| Station Number | Station Name | Species Code | Tissue Type | Sample Date | Aldrin | alpha-Chlor-dene | cis-Chlor-dane | gamma-Chlor-dene | trans-Chlor-dane | cis-Nona-chlor | trans-Nona-chlor | Oxy-chlor-dane | Total Chlor-dane | Chlor-pyrifos | Dacthal |
|----------------|--------------------------------|--------------|-------------|-------------|--------|------------------|----------------|------------------|------------------|----------------|------------------|----------------|------------------|---------------|---------|
| 719.47.00 | Coachella Valley Stormwater Ch | TL | W | 12/08/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | 1.8 | <1.0 | 1.8 | <2.0 | 3.0 |
| 723.10.02 | New R/Westmorland | CP | F | 12/09/99 | <1.0 | <1.0 | 5.2 | <1.0 | 3.7 | 2.4 | 6.6 | <1.0 | 17.9 | 44.1 | 337.0 |
| 723.10.12 | Wiest Lake | LMB | F | 12/06/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | ND | 5.7 | 3.2 |
| 723.10.21 | Holtville Main Drain | CCF | F | 12/05/99 | <1.0 | <1.0 | 2.1 | <1.0 | <2.0 | 2.3 | 6.9 | <1.0 | 11.3 | <2.0 | 938.0 |
| 723.10.30 | Central Drain | CP | F | 12/05/99 | <1.0 | <1.0 | 21.0 | <1.0 | 23.9 | 12.1 | 25.1 | 3.2 | 85.3 | 177.0 | 945.0 |
| 723.10.31 | South Central Drain | CCF | F | 12/05/99 | <1.0 | <1.0 | 6.6 | <1.0 | 3.4 | 6.3 | 16.2 | 1.4 | 33.8 | 44.0 | 940.0 |
| 728.00.90 | Salton Sea/South | ORC | F | 12/06/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | ND | <2.0 | 3.2 |
| 801.11.05 | Delhi Channel | GAM | W | 08/05/99 | <1.0 | <1.0 | 2.6 | <1.0 | <2.0 | <2.0 | 3.7 | <1.0 | 6.2 | <2.0 | <2.0 |
| 801.11.07 | San Diego Cr/Michelson Dr | PRS | W | 08/05/99 | <1.0 | <1.0 | 4.9 | <1.0 | 3.6 | 2.5 | 6.1 | 2.9 | 19.9 | 3.4 | <2.0 |
| 801.11.07 | San Diego Cr/Michelson Dr | PRS | W | 08/05/99 | <1.0 | <1.0 | 3.7 | <1.0 | 2.9 | 2.2 | 5.2 | 2.3 | 16.4 | 2.9 | <2.0 |

| Station Number | Dieldrin | o,p' DDD | p,p' DDD | o,p' DDE | p,p' DDE | o,p' DDT | p,p' DDT | p,p' DDMU | p,p' DDMS | Total DDT | Dicofol | Diazinon | Endo-sulfan I | Endo-sulfan II | Endo-sulfan Sulfate | Total Endo-sulfan | Endrin | Ethion |
|----------------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|---------|----------|---------------|----------------|---------------------|-------------------|--------|--------|
| 719.47.00 | 3.1 | <2.0 | 6.9 | <2.0 | 277.0 | <3.0 | 15.3 | <3.0 | NA | 299.2 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 723.10.02 | 13.0 | 9.4 | 30.3 | 7.5 | 467.0 | <3.0 | <5.0 | 11.7 | NA | 525.9 | NA | <20.0 | 2.8 | <10.0 | <10.0 | 2.8 | <2.0 | <6.0 |
| 723.10.12 | <2.0 | <2.0 | 2.1 | <2.0 | 36.4 | <3.0 | <5.0 | <3.0 | NA | 38.5 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 723.10.21 | 11.7 | 3.6 | 22.6 | 8.6 | 807.0 | <3.0 | 11.8 | 11.7 | NA | 865.3 | NA | <20.0 | 9.6 | 11.7 | 26.9 | 48.2 | <2.0 | <6.0 |
| 723.10.30 | 96.2 | 75.0 | 176.0 | 33.6 | 3026.0 | 7.1 | 13.9 | 52.8 | NA | 3384.4 | NA | <20.0 | 4.8 | <10.0 | <10.0 | 4.8 | <2.0 | <6.0 |
| 723.10.31 | 72.7 | 20.3 | 41.6 | 18.0 | 2403.0 | 6.8 | 22.8 | 17.0 | NA | 2529.6 | NA | <20.0 | 2.1 | <10.0 | <10.0 | 2.1 | 10.8 | <6.0 |
| 728.00.90 | <2.0 | <2.0 | <2.0 | <2.0 | 78.7 | <3.0 | <5.0 | <3.0 | NA | 78.7 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 801.11.05 | <2.0 | <2.0 | 7.3 | <2.0 | 38.9 | <3.0 | <5.0 | <3.0 | NA | 46.2 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 801.11.07 | 6.4 | 2.7 | 21.6 | <2.0 | 137.0 | <3.0 | <5.0 | 6.4 | NA | 167.7 | NA | 49.1 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 801.11.07 | 5.4 | 2.1 | 18.4 | <2.0 | 128.0 | <3.0 | <5.0 | 5.6 | NA | 154.1 | NA | 42.8 | <2.0 | NA | NA | ND | <2.0 | <6.0 |

| Station Number | alpha-HCH | beta-HCH | delta-HCH | gamma-HCH (Lindane) | Total HCH | Hepta-chlor | Hepta-chlor-epoxide | Hexa-chloro-benzene | Methoxy-chlor | Oxa-diazon | Ethyl Para-thion | Methyl Para-thion | PCB 1248 | PCB 1254 | PCB 1260 | Total PCB | Toxaphene | Chemical Group A |
|----------------|-----------|----------|-----------|---------------------|-----------|-------------|---------------------|---------------------|---------------|------------|------------------|-------------------|----------|----------|----------|-----------|-----------|------------------|
| 719.47.00 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | 12.0 | <10.0 | 12.0 | 27.6 | 32.5 |
| 723.10.02 | <1.0 | <2.0 | <2.0 | 1.2 | 1.2 | <2.0 | <1.0 | 4.4 | <5.0 | <3.0 | <2.0 | <4.0 | 66.0 | 72.0 | 78.0 | 216.0 | 138.0 | 172.9 |
| 723.10.12 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | 117.0 | <10.0 | <10.0 | 117.0 | <20.0 | ND |
| 723.10.21 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | 2.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | 37.0 | <10.0 | 37.0 | 246.0 | 317.2 |
| 723.10.30 | <1.0 | <2.0 | <2.0 | 1.2 | 1.2 | <2.0 | <1.0 | 7.3 | <5.0 | <3.0 | <2.0 | <4.0 | 40.0 | 65.0 | 25.0 | 130.0 | 2196.0 | 2383.6 |
| 723.10.31 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | 3.1 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | 51.0 | <10.0 | 51.0 | 1964.0 | 2083.4 |
| 728.00.90 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | ND |
| 801.11.05 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | 27.0 | <10.0 | 27.0 | <20.0 | 6.2 |
| 801.11.07 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | 1.3 | <5.0 | 188.0 | <2.0 | <4.0 | <25.0 | 40.0 | 11.0 | 51.0 | 67.0 | 93.3 |
| 801.11.07 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | 1.1 | <5.0 | 172.0 | <2.0 | <4.0 | <25.0 | 37.0 | 13.0 | 50.0 | 54.1 | 75.9 |

NA Means that the sample was not analyzed for the chemical.

ND Means that the chemical was not detected.

< Means that the chemical was not detected above the indicated limit of detection.

F = Filet.

W = Whole Body.

Species codes are listed in Table 3.

TABLE 2
Toxic Substances Monitoring Program
Preliminary Summary of 1999 Data: Organic Chemicals in Fish and Clams (ppb, wet weight)

| Station Number | Station Name | Species Code | Tissue Type | Sample Date | Aldrin | alpha-Chlor-dene | cis-Chlor-dane | gamma-Chlor-dene | trans-Chlor-dane | cis-Nona-chlor | trans-Nona-chlor | Oxy-chlor-dane | Total Chlor-dane | Chlor-pyrifos | Dacthal |
|----------------|----------------------------------|--------------|-------------|-------------|--------|------------------|----------------|------------------|------------------|----------------|------------------|----------------|------------------|---------------|---------|
| 801.11.09 | San Diego Cr/Barranca Pkwy | PRS | W | 08/05/99 | <1.0 | <1.0 | 4.2 | <1.0 | 2.3 | 2.3 | 5.7 | 2.1 | 16.6 | <2.0 | <2.0 |
| 801.11.89 | Lower Newport Bay/Rhine Ch | YFC | F | 08/10/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | ND | <2.0 | <2.0 |
| 801.11.96 | Peters Canyon Channel | PRS | W | 08/05/99 | <1.0 | <1.0 | 3.2 | <1.0 | 2.6 | 2.9 | 9.1 | 1.4 | 19.3 | 4.2 | <2.0 |
| 801.11.96 | Peters Canyon Channel | PRS | W | 08/05/99 | <1.0 | <1.0 | 3.3 | <1.0 | 2.8 | 3.2 | 9.8 | 1.5 | 20.7 | 5.2 | <2.0 |
| 801.11.99 | Upper Newport Bay/Newport Dunes | ORC | F | 08/04/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | 1.9 | <1.0 | 1.9 | <2.0 | <2.0 |
| 901.12.## | Aliso Cr/Pacific Park Dr | PRS | W | 08/27/99 | <1.0 | <1.0 | 5.4 | 1.2 | 2.0 | <2.0 | 5.3 | 3.6 | 17.5 | 4.3 | 4.1 |
| 902.11.01 | Santa Margarita R/Stuart Mesa Rd | CKF | W | 08/25/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | ND | <2.0 | <2.0 |
| 902.22.03 | Rainbow Creek | GSF | F | 08/26/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | ND | <2.0 | <2.0 |
| 902.32.## | Murrietta Cr/u/s Temecula Cr | BLB | F | 08/26/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | 2.0 | <1.0 | 2.0 | <2.0 | <2.0 |
| 904.10.## | Loma Alta Cr/College Blvd | GAM | W | 08/26/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | 1.6 | <1.0 | 1.6 | <2.0 | <2.0 |

| Station Number | Dieldrin | o,p' DDD | p,p' DDD | o,p' DDE | p,p' DDE | o,p' DDT | p,p' DDT | p,p' DDMU | p,p' DDMS | Total DDT | Dicofol | Diazinon | Endo-sulfan I | Endo-sulfan II | Endo-sulfan Sulfate | Total Endo-sulfan | Endrin | Ethion |
|----------------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|---------|----------|---------------|----------------|---------------------|-------------------|--------|--------|
| 801.11.09 | 4.1 | 3.2 | 27.0 | <2.0 | 139.0 | <3.0 | <5.0 | 8.9 | NA | 178.1 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 801.11.89 | <2.0 | <2.0 | <2.0 | <2.0 | 22.8 | <3.0 | <5.0 | <3.0 | NA | 22.8 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 801.11.96 | 3.3 | 5.8 | 24.4 | 2.7 | 503.0 | <3.0 | <5.0 | 10.9 | NA | 546.8 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 801.11.96 | 3.4 | 5.8 | 25.8 | 2.8 | 516.0 | 3.1 | <5.0 | 11.4 | NA | 564.9 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 801.11.99 | <2.0 | <2.0 | 6.0 | <2.0 | 54.5 | <3.0 | <5.0 | 3.3 | NA | 63.9 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 901.12.## | 8.8 | <2.0 | <2.0 | <2.0 | 9.4 | <3.0 | <5.0 | <3.0 | NA | 9.4 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 902.11.01 | <2.0 | 2.6 | 4.8 | <2.0 | 15.2 | <3.0 | <5.0 | <3.0 | NA | 22.5 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 902.22.03 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <3.0 | <5.0 | <3.0 | NA | ND | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 902.32.## | <2.0 | <2.0 | <2.0 | <2.0 | 2.9 | <3.0 | <5.0 | <3.0 | NA | 2.9 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 904.10.## | <2.0 | <2.0 | <2.0 | <2.0 | 7.6 | <3.0 | <5.0 | <3.0 | NA | 7.6 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |

| Station Number | alpha-HCH | beta-HCH | delta-HCH | gamma-HCH (Lindane) | Total HCH | Hepta-chlor | Hepta-chlor-epoxide | Hexa-chloro-benzene | Methoxy-chlor | Oxa-diazon | Ethyl Parathion | Methyl Parathion | PCB 1248 | PCB 1254 | PCB 1260 | Total PCB | Toxaphene | Chemical Group A |
|----------------|-----------|----------|-----------|---------------------|-----------|-------------|---------------------|---------------------|---------------|------------|-----------------|------------------|----------|----------|----------|-----------|-----------|------------------|
| 801.11.09 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | 0.7 | <5.0 | 329.0 | <2.0 | <4.0 | <25.0 | 71.0 | 14.0 | 85.0 | 81.4 | 102.1 |
| 801.11.89 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | 39.0 | <10.0 | 39.0 | <20.0 | ND |
| 801.11.96 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | 0.6 | <5.0 | 59.6 | <2.0 | <4.0 | <25.0 | 26.0 | 15.0 | 41.0 | 72.0 | 94.6 |
| 801.11.99 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | 0.6 | <5.0 | 62.7 | <2.0 | <4.0 | <25.0 | 29.0 | 15.0 | 44.0 | 80.5 | 104.6 |
| 901.12.## | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | 21.0 | <10.0 | 21.0 | <20.0 | 1.9 |
| 902.11.01 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | 41.9 | <2.0 | <4.0 | <25.0 | 22.0 | <10.0 | 22.0 | <20.0 | 29.2 |
| 902.22.03 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | 5.2 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | ND |
| 902.32.## | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | ND |
| 904.10.## | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | 4.9 | <2.0 | <4.0 | <25.0 | 21.0 | <10.0 | 21.0 | <20.0 | 1.6 |

NA Means that the sample was not analyzed for the chemical.

ND Means that the chemical was not detected.

< Means that the chemical was not detected above the indicated limit of detection.

F = Filet.

W = Whole Body.

Species codes are listed in Table 3.

TABLE 2

Toxic Substances Monitoring Program

Preliminary Summary of 1999 Data: Organic Chemicals in Fish and Clams (ppb, wet weight)

| Station Number | Station Name | Species Code | Tissue Type | Sample Date | Aldrin | alpha-Chlor-dene | cis-Chlor-dane | gamma-Chlor-dene | trans-Chlor-dane | cis-Nona-chlor | trans-Nona-chlor | Oxy-chlor-dane | Total Chlor-dane | Chlor-pyrifos | Dacthal |
|----------------|---------------------------------|--------------|-------------|-------------|--------|------------------|----------------|------------------|------------------|----------------|------------------|----------------|------------------|---------------|---------|
| 904.21.02 | Buena Vista Lagoon | LMB | F | 08/25/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | ND | <2.0 | <2.0 |
| 904.31.## | Agua Hedionda Cr/El Camino Real | GAM | W | 08/24/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | 4.7 | 2.6 | 7.2 | <2.0 | <2.0 |
| 904.51.03 | San Marcos Cr | LMB | F | 08/24/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | ND | <2.0 | <2.0 |
| 904.61.07 | Escondido Cr/Elfin Forest Park | GSF | F | 08/24/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | ND | <2.0 | <2.0 |
| 907.11.03 | San Diego R/u/s Taylor St | LMB | F | 08/23/99 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | 3.0 | <1.0 | 3.0 | <2.0 | <2.0 |

| Station Number | Dieldrin | o,p' DDD | p,p' DDD | o,p' DDE | p,p' DDE | o,p' DDT | p,p' DDT | p,p' DDMU | p,p' DDMS | Total DDT | Dicofol | Diazinon | Endo-sulfan I | Endo-sulfan II | Endo-sulfan Sulfate | Total Endo-sulfan | Endrin | Ethion |
|----------------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|---------|----------|---------------|----------------|---------------------|-------------------|--------|--------|
| 904.21.02 | <2.0 | <2.0 | <2.0 | <2.0 | 2.2 | <3.0 | <5.0 | <3.0 | NA | 2.2 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 904.31.## | <2.0 | <2.0 | 3.3 | <2.0 | 42.8 | <3.0 | <5.0 | <3.0 | NA | 46.1 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 904.51.03 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <3.0 | <5.0 | <3.0 | NA | ND | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 904.61.07 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <3.0 | <5.0 | <3.0 | NA | ND | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |
| 907.11.03 | <2.0 | <2.0 | <2.0 | <2.0 | 4.8 | <3.0 | <5.0 | <3.0 | NA | 4.8 | NA | <20.0 | <2.0 | NA | NA | ND | <2.0 | <6.0 |

| Station Number | alpha-HCH | beta-HCH | delta-HCH | gamma-HCH (Lindane) | Total HCH | Hepta-chlor | Hepta-chlor-epoxide | Hexa-chloro-benzene | Methoxy-chlor | Oxa-diazon | Ethyl Para-thion | Methyl Para-thion | PCB 1248 | PCB 1254 | PCB 1260 | Total PCB | Toxaphene | Chemical Group A |
|----------------|-----------|----------|-----------|---------------------|-----------|-------------|---------------------|---------------------|---------------|------------|------------------|-------------------|----------|----------|----------|-----------|-----------|------------------|
| 904.21.02 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | ND |
| 904.31.## | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | 7.2 |
| 904.51.03 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | ND |
| 904.61.07 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | <10.0 | <10.0 | ND | <20.0 | ND |
| 907.11.03 | <1.0 | <2.0 | <2.0 | <1.0 | ND | <2.0 | <1.0 | <0.3 | <5.0 | <3.0 | <2.0 | <4.0 | <25.0 | 18.0 | <10.0 | 18.0 | <20.0 | 3.0 |

NA Means that the sample was not analyzed for the chemical.

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F = Filet.

W = Whole Body.

Species codes are listed in Table 3.

TABLE 3
 Toxic Substances Monitoring Program
 1999 Species Code List

Freshwater Fish *

| Species Code | Common Name | Species Name | Family Name |
|--------------|------------------------|----------------------------------|----------------|
| AC | Arroyo Chub | <i>Gila orcutti</i> | Cyprinidae |
| BB | Brown Bullhead | <i>Ameiurus nebulosus</i> | Ictaluridae |
| BCR | Black Crappie | <i>Pomoxis nigromaculatus</i> | Centrarchidae |
| BG | Bluegill | <i>Lepomis macrochirus</i> | Centrarchidae |
| BK | Brook Trout | <i>Salvelinus fontinalis</i> | Salmonidae |
| BLB | Black Bullhead | <i>Ameiurus melas</i> | Ictaluridae |
| BN | Brown Trout | <i>Salmo trutta</i> | Salmonidae |
| CCF | Channel Catfish | <i>Ictalurus punctatus</i> | Ictaluridae |
| CP | Carp | <i>Cyprinus carpio</i> | Cyprinidae |
| GAM | Mosquitofish | <i>Gambusia affinis</i> | Poeciliidae |
| GSF | Green Sunfish | <i>Lepomis cyanellus</i> | Centrarchidae |
| LMB | Largemouth Bass | <i>Micropterus salmoides</i> | Centrarchidae |
| PCP | Prickly Sculpin | <i>Cottus asper</i> | Cottidae |
| PRS | Red Shiner | <i>Cyprinella lutrensis</i> | Cyprinidae |
| RBT | Rainbow Trout | <i>Oncorhynchus mykiss</i> | Salmonidae |
| RCH | California Roach | <i>Hesperoleucus symmetricus</i> | Cyprinidae |
| SKR | Sucker | <i>Catostomus sp.</i> | Catostomidae |
| SPM | Sacramento Pike Minnow | <i>Ptychocheilus grandis</i> | Cyprinidae |
| STB | Threespine Stickleback | <i>Gasterosteus aculeatus</i> | Gasterosteidae |
| TL | Tilapia | <i>Tilapia sp.</i> | Cichlidae |

Marine Fish *

| Species Code | Common Name | Species Name | Family Name |
|--------------|----------------------|-------------------------------|-----------------|
| CKF | California Killifish | <i>Fundulus parvipinnis</i> | Cyprinodontidae |
| ORC | Orangemouth Corvina | <i>Cynoscion xanthalmus</i> | Sciaenidae |
| SSP | Shiner Perch | <i>Cymatogaster aggregata</i> | Embiotocidae |
| STF | Starry Flounder | <i>Platichthys stellatus</i> | Pleuronectidae |
| YFC | Yellowfin Croaker | <i>Umbrina roncadore</i> | Sciaenidae |

Non-Fish

| Species Code | Common Name | Species Name | Family Name |
|--------------|---------------------------|-----------------------------|--------------|
| TFC | Asiatic Clam (transplant) | <i>Corbicula manilensis</i> | Corbiculidae |

* Common and scientific fish names were obtained from Robins, C.R., R.M. Bailey, C.E. Bond, J.R. Brooker, E.A. Lachner, R.N. Lea, and W.B. Scott. 1991. Common and Scientific Names of Fishes from the United States and Canada. American Fisheries Society Special Publication 20, Bethesda, Maryland.