

## 1205 NORTH TANCAHUA STREET



CORPUS CHRISTI, TEXAS 78401-1409 • (512) 882-5411

DATE August 25, 1989  
CLIENT NO. 17011900  
JOB NO. 890078  
REPORT NO. 88945-1W  
LABORATORY NO. \_\_\_\_\_

REPORTED TO: **Same**

| Analysis No.         | 8096  | 8097  | 8098  |
|----------------------|-------|-------|-------|
| Sample I.D.          | TPI   | TGI   | API   |
| Zinc, mg/L           | 6.76  | 0.023 | 0.249 |
| Lead, mg/L           | 0.082 | 0.2   | 0.006 |
| Chromium, mg/L       | 0.011 | 0.02  | 0.006 |
| Barium, mg/L         | 1.78  | 0.65  | 0.89  |
| Oil and Grease, mg/L | 5     | <1    | 69    |

| RECEIVED        |     |     |     |      |
|-----------------|-----|-----|-----|------|
| Padre Island NS |     |     |     |      |
|                 | INF | ACT | INT | DATE |
| SUPT.           |     |     |     |      |
| A.O.            |     |     |     |      |
| C.R.            |     |     |     |      |
| C.I.            |     |     |     |      |
| ✓ E.S.          |     |     |     |      |
| ✓ F.M.          |     |     |     |      |

Respectfu

AL Bell  
Chemist

AB:rf

Respectfully submitted,

A1 Bell  
Chemist

AB:rf



8:28 A.M

*Locally Owned and Operated*

# Estimated Detection Limits of Selected Metals

Standards Methods

Tb 305: I  
p. 181

Zinc

$$40 \mu\text{g/L} = .04 \text{ mg/L}$$

$$\mu = \text{micro} = 10^{-6}$$

Lead

$$40 \mu\text{g/L} = .04 \text{ mg/L}$$

$$m = \text{milli} = 10^{-3}$$

Chromium

$$7 \mu\text{g/L} = .007 \text{ mg/L}$$

Barium

$$2 \mu\text{g/L} = .002 \text{ mg/L}$$

Oil & Grease . 2 mg/L (p. 498)

Writing to the

# 2-11 WATER QUALITY CRITERIA SUMMARY

U.S. Environmental Protection Agency  
Office of Water Regulations and Standards  
Standards Branch (WH-585)  
401 M Street S.W.  
Washington, D.C. 20460  
update 1.0  
September 2, 1986

|                                      | PRIORITY<br>POLLUTANT | CARCINOGEN | CONCENTRATIONS IN $\mu\text{g/L}$                        |                                             | UNITS PER LITER             |                            |                                   | DATE<br>REFERENCE |
|--------------------------------------|-----------------------|------------|----------------------------------------------------------|---------------------------------------------|-----------------------------|----------------------------|-----------------------------------|-------------------|
|                                      |                       |            | FRESH<br>ACUTE<br>CRITERIA                               | FRESH<br>CHRONIC<br>CRITERIA                | WATER AND<br>FISH INGESTION | FISH CONSUMP-<br>TION ONLY | DRINKING<br>WATER,<br>H.C.L., 1.2 |                   |
| ACENAPHTHENE                         | Y                     | N          | *1,700.                                                  | *520.                                       |                             |                            |                                   |                   |
| ACROLEIN                             | Y                     | N          | *68.                                                     | *21.                                        |                             |                            |                                   |                   |
| ACRYLONITRILE                        | Y                     | Y          | *7,550.                                                  | *2,600.                                     | 320. $\mu\text{g}$          | 780. $\mu\text{g}$         |                                   | 1980 FR           |
| ALDRIN                               | Y                     | Y          | 3.0                                                      |                                             | 0.058 $\mu\text{g}^{**}$    | 0.65 $\mu\text{g}^{**}$    |                                   | 1980 FR           |
|                                      |                       |            |                                                          |                                             | 0.074 $\mu\text{g}^{**}$    | 0.079 $\mu\text{g}^{**}$   |                                   | 1980 FR           |
| ALKALINITY                           | N                     | N          |                                                          | 20,000.                                     |                             |                            |                                   |                   |
| AMMONIA                              | N                     | N          | CRITERIA ARE                                             | PH AND TEMPERATURE DEPENDENT - SEE DOCUMENT |                             |                            |                                   | 1976 RB           |
| ANTIMONY                             | Y                     | N          | *9,000.                                                  | *1,600.                                     | 146. $\mu\text{g}$          | 45,000. $\mu\text{g}$      |                                   | 1985 FR           |
| ARSENIC                              | Y                     | Y          |                                                          |                                             | 2.2 $\text{ng}^{**}$        | 17.5 $\text{ng}^{**}$      | 0.05 $\text{mg}$                  | 1980 FR           |
| ARSENIC (PENT)                       | Y                     | Y          | *850.                                                    | *48.                                        |                             |                            |                                   | 1985 FR           |
| ARSENIC (TRI)                        | Y                     | Y          | 360.                                                     | 190.                                        |                             |                            |                                   | 1980 FR           |
| ASBESTOS                             | Y                     | Y          |                                                          |                                             | 30 $\text{f/L}^{**}$        |                            |                                   | 1986 FR           |
| BACTERIA                             | N                     | N          | FOR PRIMARY RECREATION AND SHELLFISH USES - SEE DOCUMENT |                                             |                             |                            |                                   |                   |
|                                      |                       |            |                                                          |                                             |                             |                            | <1/100ml                          |                   |
| BARIUM                               | N                     | N          |                                                          |                                             | 1. $\text{mg}$              |                            | 1.0 $\text{mg}$                   | 1976 RB           |
| BENZENE                              | Y                     | Y          | *5,300.                                                  |                                             | 0.66 $\mu\text{g}^{**}$     | 40. $\mu\text{g}^{**}$     |                                   | 1980 FR           |
| BENZIDINE                            | Y                     | Y          | *2,500.                                                  |                                             | 0.12 $\mu\text{g}^{**}$     | 0.53 $\mu\text{g}^{**}$    |                                   | 1980 FR           |
| BERYLLIUM                            | Y                     | Y          | *130.                                                    | *5.3                                        | 6.8 $\text{ng}^{**}$        | 117. $\text{ng}^{**}$      |                                   | 1980 FR           |
| BHC                                  | Y                     | N          | *100.                                                    |                                             |                             |                            |                                   |                   |
| CADMIUM                              | Y                     | N          | 3.9+                                                     | 1.1+                                        | 10. $\mu\text{g}$           |                            | 0.010 $\text{mg}$                 | 1980 FR           |
| CARBON TETRACHLORIDE                 | Y                     | Y          | *35,200.                                                 |                                             | 0.4 $\mu\text{g}^{**}$      | 6.94 $\mu\text{g}^{**}$    |                                   | 1985 FR           |
| CHLORDANE                            | Y                     | Y          | 2.4                                                      | 0.0043                                      | 0.46 $\text{ng}^{**}$       | 0.48 $\text{ng}^{**}$      |                                   | 1980 FR           |
| CHLORINATED BENZENES                 | Y                     | Y          | *250.                                                    | *50.                                        | 488 $\mu\text{g}$           |                            |                                   | 1980 FR           |
| CHLORINATED NAPHTHALENES             | Y                     | N          | *1,600.                                                  |                                             |                             |                            |                                   | 1980 FR           |
| CHLORINE                             | N                     | N          | 19.                                                      | 11.                                         |                             |                            |                                   | 1985 FR           |
| CHLOROALKYL ETHERS                   | Y                     | N          | *238,000.                                                |                                             |                             |                            |                                   | 1980 FR           |
| CHLOROETHYL BIS-2                    | Y                     | Y          |                                                          |                                             | 0.03 $\mu\text{g}^{**}$     | 1.36 $\mu\text{g}^{**}$    |                                   | 1980 FR           |
| CHLOROFORM                           | Y                     | Y          | *28,900.                                                 | *1,240.                                     | 0.19 $\mu\text{g}^{**}$     | 15.7 $\mu\text{g}^{**}$    |                                   | 1980 FR           |
| CHLOROISOPROPYL (BIS-2)              | Y                     | N          |                                                          |                                             | 34.7 $\mu\text{g}$          | 4.36 $\text{mg}$           |                                   | 1980 FR           |
| CHLOROMETHYL ETHER (BIS)             | Y                     | N          |                                                          |                                             | 0.00000376 $\text{ng}^{**}$ | 0.00184 $\mu\text{g}^{**}$ |                                   | 1980 FR           |
| CHLOROPHENOL 2                       | Y                     | N          | *4,380.                                                  | *2,000.                                     |                             |                            |                                   | 1980 FR           |
| CHLOROPHENOL 4                       | N                     | N          |                                                          |                                             |                             |                            |                                   | 1980 FR           |
| CHLOROPHENOXY HERBICIDES (2,4,5,-TP) | N                     | N          |                                                          |                                             | 10. $\mu\text{g}$           |                            |                                   | 1980 FR           |
| CHLOROPHENOXY HERBICIDES (2,4-D)     | N                     | N          |                                                          |                                             | 100. $\mu\text{g}$          |                            |                                   | 1976 RB           |
| CHLORO-4 METHYL-3 PHENOL             | N                     | N          | *30                                                      |                                             |                             |                            |                                   |                   |
| CHROMIUM (HEX)                       | Y                     | N          | 16.                                                      | 11.                                         | 50. $\mu\text{g}$           |                            | 0.05 $\text{mg}$                  | 1980 FR           |
| CHROMIUM (TRI)                       | N                     | N          | 1,700. +                                                 | 210. +                                      | 170. $\text{mg}$            | 3,433. $\text{mg}$         | 0.05 $\text{mg}$                  | 1985 FR           |
| COLOR                                | N                     | N          | NARRATIVE STATEMENT - SEE DOCUMENT                       |                                             |                             |                            |                                   | 1976 RB           |
| COPPER                               | Y                     | N          | 18. +                                                    | 12. +                                       |                             |                            |                                   | 1985 FR           |
| CYANIDE                              | Y                     | N          | 22.                                                      | 5.2                                         | 200. $\mu\text{g}$          |                            |                                   | 1985 FR           |
| DDT                                  | Y                     | Y          | 1.1                                                      | 0.001                                       | 0.024 $\text{ng}^{**}$      | 0.024 $\text{ng}^{**}$     |                                   | 1980 FR           |
| DDT METABOLITE (DDE)                 | Y                     | Y          | *1,050.                                                  |                                             |                             |                            |                                   | 1980 FR           |
| DDT METABOLITE (TDE)                 | Y                     | Y          | *0.06                                                    |                                             |                             |                            |                                   | 1980 FR           |
| DEMETON                              | Y                     | N          |                                                          | 0.1                                         |                             |                            |                                   | 1976 RB           |
| DIBUTYL PHTHALATE                    | Y                     | N          |                                                          |                                             | 35. $\text{mg}$             | 154. $\text{mg}$           |                                   | 1980 FR           |
| DICHLOROBENZENES                     | Y                     | N          | *1,120.                                                  | *763.                                       | 400. $\mu\text{g}$          | 2.6 $\text{mg}$            |                                   | 1980 FR           |
| DICHLOROBENZIDINE                    | Y                     | Y          |                                                          |                                             | 0.01 $\mu\text{g}^{**}$     | 0.02 $\mu\text{g}^{**}$    |                                   | 1980 FR           |
| DICHLOROETHANE 1,2                   | Y                     | Y          | *118,000.                                                | *20,000.                                    | 0.94 $\mu\text{g}^{**}$     | 243. $\mu\text{g}^{**}$    |                                   | 1980 FR           |
| DICHLOROETHYLENES                    |                       |            |                                                          |                                             | 0.033 $\mu\text{g}^{**}$    | 1.85 $\mu\text{g}^{**}$    |                                   | 1980 FR           |
| DICHLOROPHENOL 2,4                   |                       |            |                                                          |                                             | 1.09 $\text{mg}$            |                            |                                   | 1980 FR           |
| DICHLOROPROPANE                      |                       |            |                                                          |                                             |                             |                            |                                   |                   |
| DICHLOROPROPENE                      |                       |            |                                                          |                                             |                             |                            |                                   | 1980 FR           |
| DIELDRIN                             |                       |            |                                                          |                                             |                             |                            |                                   | 1980 FR           |
| DIETHYL PHTHALATE                    |                       |            |                                                          |                                             |                             |                            |                                   | 1980 FR           |
| DIMETHYL PHENOL 2,4                  |                       |            |                                                          |                                             |                             |                            |                                   | 1980 FR           |
| DIMETHYL PHTHALATE                   |                       |            |                                                          |                                             |                             |                            |                                   | 1980 FR           |
| DINITROTOLUENE 2,4                   |                       |            |                                                          |                                             |                             |                            |                                   | 1980 FR           |
| DINITROPHENOLS                       |                       |            |                                                          |                                             |                             |                            |                                   | 1980 FR           |
| DINITROTOLUENE                       |                       |            |                                                          |                                             |                             |                            |                                   | 1980 FR           |
| DINITRO-O-CRESOL 2,4                 |                       |            |                                                          |                                             |                             |                            |                                   | 1980 FR           |
| DIOXIN (2,3,7,8-TCDD)                |                       |            |                                                          |                                             |                             |                            |                                   | 1980 FR           |
| DIPHENYLHYDRAZINE                    |                       |            |                                                          |                                             |                             | 0.00014 $\text{ng}^{**}$   |                                   | 1980 FR           |
| DIPHENYLHYDRAZINE 1,2                |                       |            |                                                          |                                             |                             |                            |                                   | 1980 FR           |
| DI-2-ETHYLHEXYL PHTHALATE            |                       |            |                                                          |                                             |                             |                            |                                   | 1980 FR           |
| ENDOSULFAM                           |                       |            |                                                          |                                             |                             |                            |                                   | 1980 FR           |
| ENDRIN                               |                       |            |                                                          |                                             |                             |                            | 0.0002 $\text{mg}$                | 1980 FR           |
| ETHYLBENZENE                         |                       |            |                                                          |                                             |                             |                            |                                   | 1980 FR           |
| FLUORANTHENE                         |                       |            |                                                          |                                             |                             |                            |                                   | 1980 FR           |
| GASES, TOTAL DISSOLVED               |                       |            |                                                          |                                             |                             |                            |                                   | 1976 RB           |
| GUTHION                              |                       |            |                                                          |                                             |                             |                            |                                   | 1976 RB           |
| HALOETHERS                           |                       |            |                                                          |                                             |                             |                            |                                   | 1980 FR           |
| HALOMETHANES                         |                       |            |                                                          |                                             |                             |                            |                                   | 1980 FR           |
| HEPTACHLOR                           |                       |            |                                                          |                                             |                             | 15.7 $\mu\text{g}^{**}$    |                                   | 1980 FR           |
| HEXACHLOROETHANE                     |                       |            |                                                          |                                             |                             | 0.29 $\text{ng}^{**}$      |                                   | 1980 FR           |
|                                      |                       |            |                                                          |                                             |                             | 8.74 $\mu\text{g}$         |                                   | 1980 FR           |
| HEXACHLOROBENZENE                    | Y                     | N          |                                                          |                                             |                             |                            |                                   | 1980 FR           |
| HEXACHLOROBUTADIENE                  | Y                     | Y          | *90.                                                     |                                             |                             | 0.74 $\text{ng}^{**}$      |                                   | 1980 FR           |
| HEXACHLOROCYCLOHEXANE (LINDANE)      | Y                     | Y          | 2.0                                                      | 0.08                                        |                             | 50. $\mu\text{g}^{**}$     |                                   | 1980 FR           |
| HEXACHLOROCYCLOHEXANE - ALPHA        | Y                     | Y          |                                                          |                                             | 9.2 $\text{ng}^{**}$        | 31. $\text{ng}^{**}$       | 0.004 $\text{mg}$                 | 1980 FR           |
| HEXACHLOROCYCLOHEXANE - BETA         | Y                     | Y          |                                                          |                                             |                             |                            |                                   | 1980 FR           |
| HEXACHLOROCYCLOHEXANE - GAMMA        | Y                     | Y          |                                                          |                                             | 16.3 $\text{ng}^{**}$       | 54.7 $\text{ng}^{**}$      |                                   | 1980 FR           |
| HEXACHLOROCYCLOHEXANE - TECHNICAL    | Y                     | Y          |                                                          |                                             | 18.6 $\text{ng}^{**}$       | 62.5 $\text{ng}^{**}$      |                                   | 1980 FR           |
| HEXACHLOROCYCLOPENTADIENE            | Y                     | N          | *7.                                                      | *5.2                                        | 12.3 $\text{ng}^{**}$       | 41.4 $\text{ng}^{**}$      |                                   | 1980 FR           |

- Min. detectable level  
- EPA rgmts.

This chart came  
from NPS Handbook  
for Monitoring Mineral  
Operations & Security  
Compliance

E-12  
Table 27. AL  
FIS  
CONT

# WATER QUALITY CRITERIA SUMMARY

U.S. Environmental Protection Agency  
Office of Water Regulations and Standards  
Standards Branch (WH-585)  
401 M Street S.W.  
Washington, D.C. 20460  
update 1.0  
September 2, 1986

|                                   | PRIORITY<br>POLLUTANT | CARCINOGEN | CONCENTRATIONS IN $\mu\text{g/L}$                      |                              | UNITS PER LITER             |                            |                                            | DATE/<br>REFERENCE |
|-----------------------------------|-----------------------|------------|--------------------------------------------------------|------------------------------|-----------------------------|----------------------------|--------------------------------------------|--------------------|
|                                   |                       |            | FRESH<br>ACUTE<br>CRITERIA                             | FRESH<br>CHRONIC<br>CRITERIA | WATER AND<br>FISH INGESTION | FISH CONSUMP-<br>TION ONLY | DRINKING<br>WATER<br>M.C.L. <sup>1,2</sup> |                    |
| IRON                              | N                     | N          |                                                        | 1,000.                       | 0.3mg                       |                            |                                            | 1976 RB            |
| ISOPHORONE                        | Y                     | N          | *117,000.                                              |                              | 5.2mg                       |                            |                                            | 1980 FR            |
| LEAD                              | Y                     | N          | 82.*                                                   | 3.2*                         | 50. $\mu\text{g}$           | 520.mg                     |                                            | 1985 FR            |
| MALATHION                         | N                     | N          |                                                        | 0.01                         |                             |                            | 0.05mg                                     | 1985 FR            |
| MANGANESE                         |                       |            |                                                        |                              |                             |                            |                                            | 1976 RB            |
| MERCURY                           | N                     | N          |                                                        |                              | 50. $\mu\text{g}$           | 100. $\mu\text{g}$         |                                            | 1976 RB            |
| METHOXYCHLOR                      | Y                     | N          | 2.4                                                    | 0.012                        | 144.ng                      | 146.ng                     | 0.002mg                                    | 1985 FR            |
| MIREX                             | N                     | N          |                                                        | 0.03                         | 100. $\mu\text{g}$          |                            | 0.1mg                                      | 1976 RB            |
| MONOCHLOROBENZENE                 |                       |            |                                                        | 0.001                        |                             |                            |                                            | 1976 RB            |
| NAPHTHALENE                       | Y                     | N          |                                                        |                              | 488. $\mu\text{g}$          |                            |                                            | 1980 FR            |
| NICKEL                            | Y                     | N          | *2,300.                                                | *620.                        | 13.4 $\mu\text{g}$          | 100. $\mu\text{g}$         |                                            | 1980 FR            |
| NITRATES                          | Y                     | N          | 1,800.*                                                | 96.*                         | 10.mg                       |                            | 10.mg                                      | 1980 FR            |
| NITROBENZENE                      | Y                     | N          | *27,000.                                               |                              | 19.8mg                      |                            |                                            | 1976 RB            |
| NITROPHENOLS                      | Y                     | N          | *230.                                                  |                              |                             |                            |                                            | 1980 FR            |
| NITROSAMINES                      | Y                     | Y          | *5,850.                                                | *150.                        | 0.8ng**                     | 1240.ng**                  |                                            | 1980 FR            |
| NITROSODIBUTYLAMINE N             | Y                     | Y          |                                                        |                              | 6.4ng**                     | 587.ng**                   |                                            | 1980 FR            |
| NITROSODIETHYLAMINE N             | Y                     | Y          |                                                        |                              | 0.8ng**                     | 1,240.ng**                 |                                            | 1980 FR            |
| NITROSODIMETHYLAMINE N            | Y                     | Y          |                                                        |                              | 1.4ng**                     | 16,000.ng**                |                                            | 1980 FR            |
| NITROSODIPHENYLAMINE N            | Y                     | Y          |                                                        |                              | 4,900.ng**                  | 16,100.ng**                |                                            | 1980 FR            |
| NITROSOPYRROLIDINE N              | Y                     | Y          |                                                        |                              | 16.ng**                     | 91,900.ng**                |                                            | 1980 FR            |
| OIL AND GREASE                    | N                     | N          | NARRATIVE STATEMENT - SEE DOCUMENT                     |                              |                             |                            |                                            | 1976 RB            |
| OXYGEN DISSOLVED                  | N                     | N          | WARMWATER AND COLDWATER CRITERIA MATRIX - SEE DOCUMENT |                              |                             |                            |                                            | 1986 FR            |
| PARATHION                         | N                     | N          |                                                        | 0.04                         |                             |                            |                                            | 1976 RB            |
| PCBs                              | Y                     | Y          | 2.0                                                    | 0.014                        | 0.079ng**                   | 0.079ng**                  |                                            | 1980 FR            |
| PENTACHLORINATED ETHANES          | Y                     | N          | *7,240.                                                | *1,100.                      |                             |                            |                                            | 1980 FR            |
| PENTACHLOROBENZENE                | Y                     | N          |                                                        |                              | 74. $\mu\text{g}$           | 85. $\mu\text{g}$          |                                            | 1980 FR            |
| PENTACHLOROPHENOL                 | Y                     | N          | *55.                                                   | *3.2                         | 1.01mg                      |                            |                                            | 1980 FR            |
| PH                                | N                     | N          |                                                        | 6.5-9                        |                             |                            |                                            | 1976 RB            |
| PHENOL                            | Y                     | N          | *10,200.                                               | *2,560.                      | 3.5mg                       |                            |                                            | 1980 FR            |
| PHOSPHORUS ELEMENTAL              | N                     | N          |                                                        |                              |                             |                            |                                            | 1976 RB            |
| PHYTATE ESTERS                    | Y                     | N          | *940.                                                  | *3.                          |                             |                            |                                            | 1980 FR            |
| POLYNUCLEAR AROMATIC HYDROCARBONS | Y                     | Y          |                                                        |                              | 2.8ng**                     | 31.1ng**                   |                                            | 1980 FR            |
| SELENIUM                          | Y                     | N          | 260.                                                   | 35.                          | 10. $\mu\text{g}$           |                            |                                            | 1980 FR            |
| SILVER                            | Y                     | N          | 4.1*                                                   | 0.12                         | 50. $\mu\text{g}$           |                            | 0.01mg                                     | 1980 FR            |
| SOLIDS DISSOLVED AND SALINITY     | N                     | N          |                                                        |                              | 250.mg                      |                            | 0.05mg                                     | 1980 FR            |
| SOLIDS SUSPENDED AND TURBIDITY    | N                     | N          | NARRATIVE STATEMENT - SEE DOCUMENT                     |                              |                             |                            |                                            | 1976 RB            |
| SULFIDE-HYDROGEN SULFIDE          | N                     | N          |                                                        | 2.                           |                             |                            |                                            | 1976 RB            |
| TEMPERATURE                       | N                     | N          | SPECIES DEPENDENT CRITERIA - SEE DOCUMENT              |                              |                             |                            |                                            | 1976 RB            |
| TETRACHLORINATED ETHANES          | Y                     | N          | *9,320                                                 |                              | 38. $\mu\text{g}$           | 48. $\mu\text{g}$          |                                            | 1980 FR            |
| TETRACHLOROBENZENE 1,2,4,5        | Y                     | N          |                                                        |                              |                             |                            |                                            | 1980 FR            |
| TETRACHLOROETHANE 1,1,2,2         | Y                     | Y          |                                                        |                              |                             |                            |                                            | 1980 FR            |
| TETRACHLOROETHANES                | Y                     | Y          | *9,320.                                                | *2,400.                      | 0.17 $\mu\text{g}$ **       | 10.7 $\mu\text{g}$ **      |                                            | 1980 FR            |
| TETRACHLOROETHYLENE               | Y                     | Y          | *5,280.                                                | *840.                        | 0.8 $\mu\text{g}$ **        | 8.85 $\mu\text{g}$ **      |                                            | 1980 FR            |
| TETRACHLOROPHENOL 2,3,5,6         | Y                     | N          |                                                        |                              |                             |                            |                                            | 1980 FR            |
| THALLIUM                          | Y                     | N          | *1,400.                                                | *40.                         | 13. $\mu\text{g}$           | 48. $\mu\text{g}$          |                                            | 1980 FR            |
| TOLUENE                           | Y                     | N          | *17,500.                                               |                              | 14.3mg                      | 424.mg                     |                                            | 1980 FR            |
| TOXAPHENE                         | Y                     | Y          | 1.6                                                    | 0.013                        | 0.71ng**                    | 0.73ng**                   | 0.005mg                                    | 1980 FR            |
| TRICHLORINATED ETHANES            | Y                     | Y          | *18,000.                                               |                              |                             |                            |                                            | 1980 FR            |
| TRICHLOROETHANE 1,1,1             | Y                     | N          |                                                        |                              | 18.4mg                      | 1.03g                      |                                            | 1980 FR            |
| TRICHLOROETHANE 1,1,2             | Y                     | Y          |                                                        |                              | 0.6 $\mu\text{g}$ **        | 41.8 $\mu\text{g}$ **      |                                            | 1980 FR            |
| TRICHLOROETHYLENE                 | Y                     | Y          | *45,000.                                               | *21,900.                     | 2.7 $\mu\text{g}$ **        | 80.7 $\mu\text{g}$ **      |                                            | 1980 FR            |
| TRICHLOROPHENOL 2,4,5             | Y                     | N          |                                                        |                              | 2,600. $\mu\text{g}$        |                            |                                            | 1980 FR            |
| TRICHLOROPHENOL 2,4,6             | N                     | Y          |                                                        | *970.                        | 1.2 $\mu\text{g}$ **        | 3.6 $\mu\text{g}$ **       |                                            | 1980 FR            |
| VINYL CHLORIDE                    | Y                     | Y          |                                                        |                              | 2. $\mu\text{g}$ **         | 525. $\mu\text{g}$ **      |                                            | 1980 FR            |
| ZINC                              | Y                     | N          | 320.*                                                  | 47.                          |                             |                            |                                            | 1980 FR            |

g = grams  
mg = milligrams  
 $\mu\text{g}$  = micrograms  
ng = nanograms  
f = fibers

Y = YES  
N = NO  
+ = HARDNESS DEPENDENT CRITERIA (100 mg/L used)  
\* = INSUFFICIENT DATA TO DEVELOP CRITERIA. VALUE PRESENTED IS THE L.O.E.L. - LOWEST OBSERVED EFFECT LEVEL.  
\*\* = HUMAN HEALTH CRITERIA FOR CARCINOGENS REPORTED FOR THREE RISK LEVELS. VALUE PRESENTED IS THE 10-6 RISK LEVEL.

FR = FEDERAL REGISTER  
RB = QUALITY CRITERIA FOR WATER, 1974 (REDBOOK)  
M.C.L. = MAXIMUM CONTAMINANT LEVEL

NOTE: This chart is for general information; please use criteria documents or detailed summaries in "Quality Criteria for Water 1986" for regulatory purposes.

<sup>1</sup> These criteria concentration levels are identical to the drinking water standards set forth in the EPA Interim Primary Drinking Water Regulations as required by the Safe Drinking Water Act. The listed values are applicable to situations in which untreated stream water is consumed by humans.

<sup>2</sup> The following parameters not included in this summary are also part of the interim Regulations. Their M.C.L.s are in parentheses: fluoride (4 mg/L); turbidity (1-5 NTU); total trihalomethanes (0.1 mg/L); gross alpha (15 pci/L); and radium 226 + radium 228 (5 pci/L).

