

Grumman Aerospace Corporation - Plant 2 - Phase II Site Assessment

**COMPARISON OF SOIL CLEANUP LEVELS**

| Chemical/Constituent   | USEPA Draft Soil Screening Guidance (Residential) |                    | NJDEP               |                         | MADEP               |                    |                    | CTDEP               |                               | NYSDEC Rec. Cleanup Objectives (mg/kg) | Recommended Commercial/Industrial Cleanup Levels (mg/kg) |
|------------------------|---------------------------------------------------|--------------------|---------------------|-------------------------|---------------------|--------------------|--------------------|---------------------|-------------------------------|----------------------------------------|----------------------------------------------------------|
|                        | Ingestion (mg/kg)                                 | Inhalation (mg/kg) | Residential (mg/kg) | Non-Residential (mg/kg) | Residential (mg/kg) | Commercial (mg/kg) | Industrial (mg/kg) | Residential (mg/kg) | Industrial/Commercial (mg/kg) |                                        |                                                          |
| Arsenic                | 0.4                                               | 380                | 20                  | 20                      | 30                  | 30                 | 30                 | 10                  | 10                            | 7.5 or SB                              | 10                                                       |
| Beryllium              | 0.1                                               | 690                | 1                   | 1                       | 0.4                 | 0.8                | 3                  | 2                   | 2                             | 0.16 or SB                             | 1                                                        |
| Cadmium                | 39                                                | 920                | 1                   | 100                     | 30                  | 80                 | 80                 | 34                  | 1,000                         | 1 or SB                                | 80                                                       |
| Chromium (Total)       | --                                                | --                 | --                  | --                      | 1,000               | 2,500              | 5,000              | --                  | --                            | 10 or SB                               | 2,500                                                    |
| Chromium (III)         | --                                                | --                 | 78,000              | --                      | 1,000               | 2,500              | 5,000              | 3,900               | 51,000                        | --                                     | 2,500                                                    |
| Chromium (VI)          | 390                                               | 140                | 130                 | 190                     | 200                 | 600                | 1,000              | 100                 | 100                           | --                                     | 100                                                      |
| Copper                 | --                                                | --                 | 600                 | 600                     | --                  | --                 | --                 | 2,500               | 76,000                        | 25 or SB                               | 600                                                      |
| Mercury                | 23                                                | 23                 | 14                  | 270                     | 10                  | 60                 | 60                 | 20                  | 610                           | 0.1                                    | 60                                                       |
| Nickel                 | 1,600                                             | --                 | 250                 | 2,400                   | 300                 | 700                | 700                | 1,400               | 41,000                        | 13 or SB                               | 700                                                      |
| Selenium               | 390                                               | --                 | 63                  | 3,100                   | 300                 | 2,500              | 2,500              | 340                 | 10,000                        | 2 or SB                                | 2,500                                                    |
| Zinc                   | 23,000                                            | --                 | 1,500               | 1,500                   | 2,500               | 2,500              | 5,000              | 20,000              | 610,000                       | 20 or SB                               | 1,500                                                    |
| TPH                    | --                                                | --                 | --                  | 10,000                  | 500                 | 2,500              | 5,000              | 500                 | 2,500                         | 100                                    | 2,500                                                    |
| Acetone                | 7,800                                             | 62,000             | 1,000               | 1,000                   | 500                 | 1,000              | 2,500              | 500                 | 1,000                         | 0.2                                    | 1,000                                                    |
| 1,1-Dichloroethane     | 7,800                                             | 980                | 570                 | 1,000                   | 100                 | 500                | 500                | 500                 | 1,000                         | 0.2                                    | 500                                                      |
| 1,2-Dichloroethane     | 7                                                 | 0.3                | 6                   | 24                      | 10                  | 20                 | 60                 | 6.7                 | 63                            | 0.1                                    | 20                                                       |
| Methylene Chloride     | 85                                                | 7                  | 49                  | 210                     | 100                 | 200                | 700                | 82                  | 760                           | 0.1                                    | 200                                                      |
| Trichloroethene        | 58                                                | 3                  | 23                  | 54                      | 70                  | 100                | 500                | 56                  | 520                           | 0.7                                    | 50                                                       |
| Benzo(a)anthracene     | 0.9                                               | --                 | 0.9                 | 4                       | 0.7                 | 1                  | 4                  | 1                   | 7.8                           | 0.224 or MDL                           | 1                                                        |
| Benzo(b)fluoranthene   | 0.9                                               | --                 | --                  | --                      | 0.7                 | 1                  | 4                  | 1                   | 7.8                           | 1.1                                    | 1                                                        |
| Benzo(k)fluoranthene   | 9                                                 | --                 | 0.9                 | 4                       | 7                   | 10                 | 40                 | 8.4                 | 78                            | 1.1                                    | 4                                                        |
| Benzo(a)pyrene         | 0.09                                              | --                 | 0.66                | 0.66                    | 0.7                 | 0.7                | 0.7                | 1                   | 1                             | 0.061 or MDL                           | 0.7                                                      |
| Chrysene               | 88                                                | --                 | 9                   | 40                      | 7                   | 10                 | 40                 | --                  | --                            | 0.4                                    | 10                                                       |
| Dibenzo(a,h)anthracene | 0.09                                              | --                 | 0.66                | 0.66                    | 0.7                 | 0.7                | 0.8                | --                  | --                            | 0.014 or MDL                           | 0.7                                                      |
| Fluoranthene           | 3,100                                             | --                 | 2,300               | 10,000                  | 900                 | 2,000              | 5,000              | 1,000               | 2,500                         | 50                                     | 2,000                                                    |
| Indeno(1,2,3-cd)pyrene | 0.9                                               | --                 | 0.9                 | 4                       | 0.7                 | 1                  | 4                  | --                  | --                            | 3.2                                    | 1                                                        |
| 2-Methylphenol         | 3,900                                             | --                 | 2,800               | 10,000                  | --                  | --                 | --                 | --                  | --                            | 0.100 or MDL                           | 2,000                                                    |
| Phenanthracene         | --                                                | --                 | --                  | --                      | 1,000               | 2,500              | 2,500              | --                  | --                            | 50                                     | 2,500                                                    |
| Phenol                 | 47,000                                            | --                 | 10,000              | 10,000                  | 500                 | 1,000              | 2,500              | 1,000               | 2,500                         | 0.03 or MDL                            | 1,000                                                    |
| Pyrene                 | --                                                | --                 | 1,700               | 10,000                  | 700                 | 2,000              | 5,000              | 1,000               | 2,500                         | 50                                     | 2,000                                                    |

**Notes:**

-- : No Standard or Guideline

SB : Soil Backgr

MD : Method De

10/1/94