

Table 5-2

**Subsurface Soil Analytical Results**  
**Ground Scar at South End of Confidence Course, Parcel 158(7)**  
**Fort McClellan, Calhoun County, Alabama**

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| Parcel<br>Sample Location<br>Sample Number<br>Sample Date<br>Sample Depth (Feet) |       |                  |                   | GSBP-158<br>SI16-SS01<br>16-SS01B<br>8-May-98<br>3-5 |      |      |       | GSBP-158<br>SI16-SS02<br>16-SS02B<br>8-May-98<br>3-5 |      |      |       |
|----------------------------------------------------------------------------------|-------|------------------|-------------------|------------------------------------------------------|------|------|-------|------------------------------------------------------|------|------|-------|
| Parameter                                                                        | Units | BKG <sup>a</sup> | SSSL <sup>b</sup> | Result                                               | Qual | >BKG | >SSSL | Result                                               | Qual | >BKG | >SSSL |
| <b>METALS</b>                                                                    |       |                  |                   |                                                      |      |      |       |                                                      |      |      |       |
| Aluminum                                                                         | mg/kg | 1.36E+04         | 7.80E+03          | 1.97E+04                                             |      | YES  | YES   | 2.04E+04                                             |      | YES  | YES   |
| Arsenic                                                                          | mg/kg | 1.83E+01         | 4.26E-01          | 7.62E+00                                             |      |      | YES   | 1.20E+01                                             |      |      | YES   |
| Barium                                                                           | mg/kg | 2.34E+02         | 5.47E+02          | 4.41E+01                                             |      |      |       | 4.08E+01                                             |      |      |       |
| Beryllium                                                                        | mg/kg | 8.60E-01         | 9.60E+00          | 3.95E-01                                             |      |      |       | 5.40E-01                                             |      |      |       |
| Calcium                                                                          | mg/kg | 6.37E+02         | NA                | 4.88E+02                                             |      |      |       | 3.24E+02                                             |      |      |       |
| Chromium                                                                         | mg/kg | 3.83E+01         | 2.32E+01          | 2.79E+01                                             | J    |      | YES   | 3.48E+01                                             | J    |      | YES   |
| Cobalt                                                                           | mg/kg | 1.75E+01         | 4.68E+02          | 3.48E+00                                             |      |      |       | 2.64E+00                                             |      |      |       |
| Copper                                                                           | mg/kg | 1.94E+01         | 3.13E+02          | 1.28E+01                                             |      |      |       | 2.35E+01                                             |      | YES  |       |
| Iron                                                                             | mg/kg | 4.48E+04         | 2.34E+03          | 3.02E+04                                             |      |      | YES   | 5.28E+04                                             |      | YES  | YES   |
| Lead                                                                             | mg/kg | 3.85E+01         | 4.00E+02          | 1.67E+01                                             |      |      |       | 1.85E+01                                             |      |      |       |
| Magnesium                                                                        | mg/kg | 7.66E+02         | NA                | 4.88E+02                                             |      |      |       | 4.44E+02                                             |      |      |       |
| Manganese                                                                        | mg/kg | 1.36E+03         | 3.63E+02          | 1.32E+02                                             | J    |      |       | 1.46E+02                                             | J    |      |       |
| Mercury                                                                          | mg/kg | 7.00E-02         | 2.33E+00          | 2.44E-01                                             |      | YES  |       | 6.96E-02                                             |      |      |       |
| Nickel                                                                           | mg/kg | 1.29E+01         | 1.54E+02          | 8.36E+00                                             |      |      |       | 1.01E+01                                             |      |      |       |
| Potassium                                                                        | mg/kg | 7.11E+02         | NA                | 4.07E+02                                             |      |      |       | 5.76E+02                                             |      |      |       |
| Silver                                                                           | mg/kg | 2.40E-01         | 3.91E+01          | 2.56E-01                                             |      | YES  |       | 2.64E-01                                             |      | YES  |       |
| Sodium                                                                           | mg/kg | 7.02E+02         | NA                | 6.62E+01                                             | B    |      |       | 7.44E+01                                             | B    |      |       |
| Vanadium                                                                         | mg/kg | 6.49E+01         | 5.31E+01          | 5.34E+01                                             |      |      | YES   | 7.44E+01                                             |      | YES  | YES   |
| Zinc                                                                             | mg/kg | 3.49E+01         | 2.34E+03          | 2.14E+01                                             |      |      |       | 2.64E+01                                             |      |      |       |
| <b>VOLATILE ORGANIC COMPOUNDS</b>                                                |       |                  |                   |                                                      |      |      |       |                                                      |      |      |       |
| 1,1,1-Trichloroethane                                                            | mg/kg | NA               | 1.55E+03          | 5.10E-03                                             |      |      |       | 1.20E-02                                             |      |      |       |
| 1,1-Dichloroethene                                                               | mg/kg | NA               | 1.05E+00          | ND                                                   |      |      |       | 9.10E-04                                             | J    |      |       |
| 1,2-Dichloroethene                                                               | mg/kg | NA               | 7.00E+01          | ND                                                   |      |      |       | 6.70E-04                                             | J    |      |       |
| Acetone                                                                          | mg/kg | NA               | 7.76E+02          | 6.50E-02                                             |      |      |       | 5.00E-02                                             |      |      |       |
| Benzene                                                                          | mg/kg | NA               | 2.17E+01          | 9.40E-04                                             | J    |      |       | 9.80E-04                                             | J    |      |       |
| Ethylbenzene                                                                     | mg/kg | NA               | 7.77E+02          | 4.20E-03                                             | J    |      |       | 4.00E-03                                             | J    |      |       |
| Methylene chloride                                                               | mg/kg | NA               | 8.41E+01          | 2.20E-03                                             | J    |      |       | 5.50E-03                                             |      |      |       |
| Tetrachloroethene                                                                | mg/kg | NA               | 1.21E+01          | 1.40E-02                                             |      |      |       | 1.20E-02                                             |      |      |       |
| Toluene                                                                          | mg/kg | NA               | 1.55E+03          | 2.80E-03                                             | J    |      |       | 2.80E-03                                             | J    |      |       |
| Trichloroethene                                                                  | mg/kg | NA               | 5.72E+01          | 2.10E-03                                             | J    |      |       | 3.20E-03                                             | J    |      |       |
| Xylene, Total                                                                    | mg/kg | NA               | 1.55E+04          | 2.10E-02                                             |      |      |       | 1.70E-02                                             |      |      |       |

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Analyses performed using U.S. Environmental Protection Agency (EPA) SW-846 analytical methods, including Update III methods where applicable.

<sup>a</sup> Bkg - Background. Concentration listed is two times (2x) the arithmetic mean of background metals concentration given in Science Applications International Corporation (1998), *Final Background Metals Survey Report, Fort McClellan, Alabama*, July.

<sup>b</sup> Residential human health site-specific screening level (SSSL) as given in IT Corporation (2000), *Final Human Health and Ecological Screening Values and PAH Background Summary Report, Fort McClellan, Calhoun County, Alabama*, July.

B - Analyte detected in laboratory or field blank at concentration greater than the reporting limit (and greater than zero).

J - Compound was positively identified; the reported value is the estimated concentration.

mg/kg - Milligrams per kilogram.

NA - Not available.

ND - Not detected.

Qual - Data validation qualifier.