**Table B27-2**
**Summary of Chemical Constituents Detected in Subsurface Soil and Rock, March 2000**
**Solid Waste Management Unit B-27**

**Table B27-2 Summary of Chemical Constituents Detected in Subsurface Soil and Rock, March 2000 Solid Waste Management Unit B-27**

| | | | Soil Comparison Criteria | | | | RW-B27-SB01 | | | | RW-B27-SB01 | | | | RW-B27-SB01 | | | | RW-B27-SB01 | | | | RW-B27-SB02 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | | | | | | | RW-B27-SB01 | | | | RW-B27-SB01 | | | | RW-B27-SB01 | | | | RW-B27-SB01 | | | | RW-B27-SB02 | | | |
| **Sample Date** | | | | | | | 3/20/2000 | | | | 3/20/2000 | | | | 3/20/2000 | | | | 3/20/2000 | | | | 3/21/2000 | | | |
| **Sample Type** | | | | | | | N1 | | | | FD1 | | | | N1 | | | | FD1 | | | | N1 | | | |
| **Soil Type** | | | | | | | Soils (Kr) | | | | Soils (Kr) | | | | GR | | | | GR | | | | Soils (Kr) | | | |
| **Beginning Depth** | | | | | | | 5 | | | | 5 | | | | 10.5 | | | | 10.5 | | | | 5 | | | |
| **Ending Depth** | | | | | | | 5.5 | | | | 5.5 | | | | 11 | | | | 11 | | | | 5.5 | | | |
| **Lab ID** | | | | | | | AP90105 / Q1059 | | | | AP90106 | | | | AP90107 / Q1060 | | | | Q1061 | | | | AP90154 / Q1142 | | | |
| | Lab MDL | Lab RL | Background$^a$ Soils (Kr) | Background$^a$ GR | RRS2-GWP (Ind.) | RRS2-SAI (Ind.) | Results | Flags | Dilution | SQL | Results | Flags | Dilution | SQL | Results | Flags | Dilution | SQL | Results | Flags | Dilution | SQL | Results | Flags | Dilution | SQL |
| **SW6010B (mg/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Barium | 0.04 | 1.0 | 186 | 10. | 200 | 59,000 | 152.2 | J | 5 | 5.0 | | | | | **13.4** | **J** | **5** | **5.0** | **19.3** | **J** | **5** | **5.0** | 4.2 | F | 5 | 5.0 |
| Chromium | 0.08 | 20.0 | 40.2 | 8.1 | 10 | 350,000 | 37.3 | F | 5 | 100.0 | | | | | 6.4 | F | 5 | 100.0 | 8.1 | F | 5 | 100.0 | 2.4 | F | 5 | 100.0 |
| Copper | 0.07 | 2.0 | 23.2 | 13.1 | 130 | 74,000 | 13.3 | | 5 | 10.0 | | | | | 5.0 | F | 5 | 10.0 | **16.6** | | **5** | **10.0** | 2.1 | F | 5 | 10.0 |
| Nickel | 0.12 | 2.0 | 35.5 | 6.8 | 200 | 12,000 | 23.9 | | 5 | 10.0 | | | | | 5.8 | F | 5 | 10.0 | 4.3 | F | 5 | 10.0 | 5.0 | F | 5 | 10.0 |
| Zinc | 0.42 | 2.0 | 73.2 | 11.3 | 3,100 | 41,000 | 48.8 | J | 5 | 10.0 | | | | | 10.3 | J | 5 | 10.0 | **17** | **J** | **5** | **10.0** | 8.9 | F | 5 | 10.0 |
| **SW7060A (mg/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arsenic | 0.032 | 0.5 | 19.6 | 3.8 | 5 | 200 | 2.11 | J | 1 | 0.5 | | | | | 1.25 | J | 1 | 0.5 | 0.91 | J | 1 | 0.5 | 2.29 | | 1 | 0.5 |
| **SW7131A (mg/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cadmium | 0.022 | 0.1 | 3.0 | 0.1 | 0.5 | 410 | 0.31 | J | 1 | 0.1 | | | | | 0.02 | R | 1 | 0.1 | 0.02 | F | 1 | 0.1 | 0.04 | F | 1 | 0.1 |
| **SW7421 (mg/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lead | 0.069 | 0.5 | 84.5 | 5.5 | 1.5 | 1,000 | 6.97 | | 5 | 2.5 | | | | | 2.60 | | 1 | 0.5 | 2.73 | | 1 | 0.5 | 2.59 | | 1 | 0.5 |
| **SW7471A (mg/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mercury | 0.024 | 0.1 | 0.77 | 0.1 | 0.2 | 9.6 | 0.024 | U | 1 | 0.1 | | | | | 0.024 | U | 1 | 0.1 | 0.024 | U | 1 | 0.1 | 0.024 | U | 1 | 0.1 |
| **SW8260B (mg/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Benzene | 0.0003 | 0.002 | -- | -- | 0.5 | 1.5 | 0.0004 | F | 1 | 0.002 | | | | | 0.0003 | U | 1 | 0.002 | | | | | 0.0003 | U | 1 | 0.002 |
| Methylene chloride | 0.0007 | 0.005 | -- | -- | 0.5 | 16 | 0.0023 | F | 1 | 0.005 | | | | | 0.0020 | F | 1 | 0.005 | | | | | 0.0009 | F | 1 | 0.005 |
| Naphthalene | 0.001 | 0.02 | -- | -- | 200 | 270 | 0.001 | U | 1 | 0.02 | | | | | 0.001 | U | 1 | 0.02 | | | | | 0.001 | U | 1 | 0.02 |
| Toluene | 0.0003 | 0.005 | -- | -- | 100 | 2,400 | 0.0004 | F | 1 | 0.005 | | | | | 0.0003 | U | 1 | 0.005 | | | | | 0.0003 | U | 1 | 0.005 |
| Trichlorobenzene, 1,2,3- | 0.0008 | 0.004 | -- | -- | NA | NA | 0.0008 | U | 1 | 0.004 | | | | | 0.0008 | U | 1 | 0.004 | | | | | 0.0008 | U | 1 | 0.004 |
| **SW8270C (mg/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.03 | 0.7 | -- | -- | 0.6 | 65 | **2.50** | | **1** | **0.7** | **0.96** | | **1** | **0.7** | 0.13 | F | 1 | 0.7 | | | | | 0.21 | F | 1 | 0.7 |

Tables present all laboratory results for analytes detected above the method detection limit.
Results from all laboratory analysis are presented in Appendix A.
All samples were analyzed by APPL Inc. and O'Brien and Gere Laboratories.
Referenced laboratory package numbers: APPL Inc.: 32255, 32261
O'Brien and Gere: 5054, 5075, 5090
All MS/MSD results are presented in the Data Verification Report, Appendix D.

**Abbreviations and Notes:**
Highlighted and bolded sample concentrations exceed RRS1 and (background) Standards.
Boxed samples indicate results greater than RRS2 Standards.
RRS1 standards are background concentrations for metals and RLs for organic compounds.
a        Background values from Revised Background Report, 2002
--        No risk reduction standard or background level available
DL        Dilution
FD1        Field Duplicate
GR        Glen Rose
GWP-Ind    Soil MSC based on groundwater protection
Kr        Krum Complex
MDL        Method Detection Limit
N1        Environmental Sample
NA        Not Available
RL        Reporting Limit
SAI-Ind    Soil MSC for industrial use based on inhalation, ingestion, and dermal contact
SQL        Sample Quantitation Limit

**Data Qualifiers:**
B-The analyte was found in an associated blank, as well as in the sample.
F- The analyte was positively identified, but the associated numerical value is below the RL.
J - The analyte was positively identified, the quantitation is an estimation.
M - A matrix effect was present.

**Table B27-2**
**Summary of Chemical Constituents Detected in Subsurface Soil and Rock, March 2000**
**Solid Waste Management Unit B-27**

Table B27-2 Summary of Chemical Constituents

| | | | | | | | Sample ID | RW-B27-SB02 | | | | RW-B27-SB03 | | | | RW-B27-SB03 | | | | RW-B27-SB03 | | | | RW-B27-SB03 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Sample Date | 3/21/2000 | | | | 3/21/2000 | | | | 3/21/2000 | | | | 3/21/2000 | | | | 3/21/2000 | | | |
| | | | | | | | Sample Type | N1 | | | | N1 | | | | FD1 | | | | N1 | | | | N1 | | | |
| | | | | | | | Soil Type | GR | | | | Soils (Kr) | | | | Soils (Kr) | | | | Soils (Kr) | | | | GR | | | |
| | | | | | | | Beginning Depth | 9.5 | | | | 0.5 | | | | 0.5 | | | | 4 | | | | 12.5 | | | |
| | | | | | | | Ending Depth | 10 | | | | 1 | | | | 1 | | | | 4.5 | | | | 13 | | | |
| | | | | | | | Lab ID | AP90155 / Q1143 | | | | AP90156 / Q1144 | | | | AP90157 | | | | AP90158 / Q1145 | | | | AP90159 / Q1146 | | | |
| | | Soil Comparison Criteria | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Lab MDL | Lab RL | Background[a] Soils (*Kr*) | Background[a] *GR* | RRS2-GWP (Ind.) | RRS2-SAI (Ind.) | | Results | Flags | Dilution | SQL | Results | Flags | Dilution | SQL | Results | Flags | Dilution | SQL | Results | Flags | Dilution | SQL | Results | Flags | Dilution | SQL |
| **SW6010B (mg/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Barium | 0.04 | 1.0 | 186 | 10. | 200 | 59,000 | | 8.2 | J | 1 | 1.0 | 93.4 | J | 1 | 1 | | | | | 158.4 | J | 1 | 1.0 | 3.5 | J | 1 | 1.0 |
| Chromium | 0.08 | 20.0 | 40.2 | 8.1 | 10 | 350,000 | | 5.8 | F | 1 | 20.0 | 24.0 | | 1 | 20 | | | | | 38.1 | | 1 | 20.0 | 2.0 | F | 1 | 20.0 |
| Copper | 0.07 | 2.0 | 23.2 | 13.1 | 130 | 74,000 | | 3.7 | | 1 | 2.0 | 10.0 | | 1 | 2 | | | | | 47.8 | | 1 | 2.0 | 2.0 | | 1 | 2.0 |
| Nickel | 0.12 | 2.0 | 35.5 | 6.8 | 200 | 12,000 | | 3.2 | | 1 | 2.0 | 14.7 | | 1 | 2 | | | | | 15.1 | | 1 | 2.0 | 3.4 | | 1 | 2.0 |
| Zinc | 0.42 | 2.0 | 73.2 | 11.3 | 3,100 | 41,000 | | 10.6 | B | 1 | 2.0 | 33.7 | B | 1 | 2 | | | | | 128.4 | B | 1 | 2.0 | 6.9 | B | 1 | 2.0 |
| **SW7060A (mg/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arsenic | 0.032 | 0.5 | 19.6 | 3.8 | 5 | 200 | | 1.39 | | 1 | 0.5 | 3.56 | | 1 | 0.5 | | | | | 4.22 | | 1 | 0.5 | 1.83 | | 1 | 0.5 |
| **SW7131A (mg/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cadmium | 0.022 | 0.1 | 3.0 | 0.1 | 0.5 | 410 | | 0.02 | U | 1 | 0.1 | 0.28 | | 1 | 0.1 | | | | | 2.28 | | 5 | 0.5 | 0.02 | U | 1 | 0.1 |
| **SW7421 (mg/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lead | 0.069 | 0.5 | 84.5 | 5.5 | 1.5 | 1,000 | | 3.30 | | 1 | 0.5 | 15.09 | M | 5 | 2.5 | | | | | 210.00 | | 100 | 50 | 3.19 | | 1 | 0.5 |
| **SW7471A (mg/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mercury | 0.024 | 0.1 | 0.77 | 0.1 | 0.2 | 9.6 | | 0.024 | U | 1 | 0.1 | 0.024 | U | 1 | 0.1 | | | | | 0.09 | F | 1 | 0.1 | 0.024 | U | 1 | 0.1 |
| **SW8260B (mg/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Benzene | 0.0003 | 0.002 | -- | -- | 0.5 | 1.5 | | 0.0003 | U | 1 | 0.002 | 0.0003 | U | 1 | 0.002 | 0.0003 | U | 1 | 0.002 | 0.0003 | U | 1 | 0.002 | 0.0003 | U | 1 | 0.002 |
| Methylene chloride | 0.0007 | 0.005 | -- | -- | 0.5 | 16 | | 0.0007 | U | 1 | 0.005 | 0.0007 | U | 1 | 0.005 | 0.0010 | F | 1 | 0.005 | 0.0014 | F | 1 | 0.005 | 0.0007 | U | 1 | 0.005 |
| Naphthalene | 0.001 | 0.02 | -- | -- | 200 | 270 | | 0.002 | F | 1 | 0.02 | 0.001 | U | 1 | 0.02 | 0.001 | U | 1 | 0.02 | 0.001 | U | 1 | 0.02 | 0.001 | U | 1 | 0.02 |
| Toluene | 0.0003 | 0.005 | -- | -- | 100 | 2,400 | | 0.0003 | U | 1 | 0.005 | 0.0007 | F | 1 | 0.005 | 0.0009 | F | 1 | 0.005 | 0.0003 | U | 1 | 0.005 | 0.0003 | U | 1 | 0.005 |
| Trichlorobenzene, 1,2,3- | 0.0008 | 0.004 | -- | -- | NA | NA | | 0.0012 | F | 1 | 0.004 | 0.0008 | U | 1 | 0.004 | 0.0008 | U | 1 | 0.004 | 0.0008 | U | 1 | 0.004 | 0.0008 | U | 1 | 0.004 |
| **SW8270C (mg/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.03 | 0.7 | -- | -- | 0.6 | 65 | | 1.80 | | 1 | 0.7 | 0.03 | U | 1 | 0.7 | | | | | 0.03 | U | 1 | 0.7 | 2.90 | | 1 | 0.7 |

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FD1   Field Duplicate
GR   Glen Rose
GWP-Ind   Soil MSC based on groundwater protection
Kr    Krum Complex
MDL   Method Detection Limit
N1    Environmental Sample
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RL    Reporting Limit
SAI-Ind   Soil MSC for industrial use based on inhalation, ingestion, and dermal contact
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