DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

U. S. Geological Survey
Open-File Report 84-25
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# Table 2:- Chemical analyses of samples from the Brewer mine drainage tunnel

Fifty-nine (59) Samples from Chesterfield County, South Carolina

| Field No. | Tag No. | Hg (ppm) | Te (ppm) | Au (ppm) | % F | U (ppm) |
|---|---|---|---|---|---|---|
| 13-HB-10 | AEY-859 | <1.0 | <10 | <.05 | 0.097 | 1.9 |
| 11 | AEY-801 | " | " | <.05 | .075 | 1.7 |
| 12 | 802 | " | " | .07,.1 | .066 | 1.5 |
| 13 | 803 | " | " | <.05 | .073 | 1.5 |
| 14 | 804 | " | " | .09,.1 | .003 | 1.8 |
| 15 | 805 | " | " | <.05 | .18 | 1.6 |
| 16 | 806 | " | " | <.05 | .22 | 1.6 |
| 17 | 807 | " | " | .4,.4 | .044 | 1.8 |
| 18 | 808 | " | " | .3,.3 | .034 | 1.5 |
| 19 | 809 | " | " | .08,.09 | .071 | 1.4 |
| 20 | 810 | " | " | .2,.2 | .026 | 1.0 |
| 21 | 811 | " | " | .1,.1 | .36 | 1.6 |
| 22 | 812 | " | " | <.05 | .40 | 1.7 |
| 23 | 813 | " | " | <.05 | .11 | 1.1 |
| 24 | 814 | " | " | .08,.1 | .11 | 1.2 |
| 25 | 815 | " | " | <.05 | .12 | 1.2 |
| 26 | 816 | <1.0 | <10 | <.05 | .86 | 1.4 |
| 13-HB-27 | AEY-817 | <1.0 | <10 | <.05 | 0.35 | 1.5 |
| 28 | 818 | " | " | .06,.09 | .002 | 1.1 |
| 29 | 819 | " | 17 | .2,.2 | .14 | 1.8 |
| 30 | 820 | " | 10 | <.05 | .011 | 1.3 |
| 31 | 821 | " | <10 | .1,.1 | .027 | 1.9 |
| 32 | 822 | " | " | .08,.09 | .11 | 1.3 |
| 33 | 823 | " | " | .2,.1 | .007 | 1.0 |
| 34 | 824 | " | " | <.05 | ..11 | 1.9 |
| 35 | 825 | " | 14 | .3,.3 | .14 | 1.0 |
| 36 | 826 | " | <10 | <.05 | .039 | 1.5 |
| 37 | 827 | " | 11 | <.05 | .25 | 1.1 |
| 38 | 828 | " | <10 | .1,.2 | .072 | 1.9 |
| 39 | 829 | " | " | .09,.1 | .020 | 1.0 |
| 40 | 830 | " | " | <.05 | .090 | 1.0 |
| 41 | 831 | " | 13 | .1,.1 | .11 | 1.5 |
| 42 | 832 | " | <10 | .5,.5 | .11 | 1.3 |
| 43 | 833 | " | " | .1,.2 | .038 | 0.9 |
| 44 | 834 | " | " | .2,.3 | .052 | 2.5 |
| 45 | 835 | <1.0 | <10 | .2,.2 | .41 | 1.2 |
| 13-HB-46 | AEY-836 | <1.0 | <10 | <.05 | 0.26 | 0.8 |
| 47 | 837 | " | " | .1,.1 | .14 | 0.7 |
| 48 | 838 | " | " | .07,.1 | .11 | 0.8 |
| 49 | 839 | " | " | .07,.07 | .060 | 1.0 |
| 50 | 840 | " | " | .08,.1 | .31 | 1.3 |
| 51 | 841 | 1.5 | " | .8,.8 | .70 | 1.0 |
| 52 | 842 | <1.0 | 16 | 1.1,1.0 | 6.6 | 1.9 |
| 53 | 843 | " | <10 | .2,.2 | 4.7 | 1.4 |
| 54 | 844 | " | " | .4,.4 | 19.2 | 1.4 |
| 55 | 845 | " | " | .2,.2 | 12.5 | 1.3 |
| 56 | 846 | " | " | .2,.1 | 6.0 | 1.1 |
| 57 | 847 | " | 33 | .4,.6 | 5.1 | 1.3 |
| 58 | 848 | " | 16 | .4,.5 | 1.5 | 1.3 |
| 59 | 849 | " | <10 | .2,.3 | .48 | 1.8 |
| 60 | 850 | " | " | .1,.08 | 30 | 1.1 |
| 61 | AEY-851 | " | " | .7,.7 | 1.5 | 1.8 |
| 62 | 852 | " | " | .1,.2 | .51 | 1.1 |
| 63 | 853 | " | " | .1,.1 | 4.0 | 1.7 |
| 13-HB-64 | AEY-854 | <1.0 | 12 | .2,.1 | .82 | 1.1 |
| 65 | 855 | " | 11 | .4,.4 | .20 | 1.7 |
| 66 | 856 | <1.0 | <10 | .1,.08 | .80 | 1.4 |
| 67 | 857 | 1.8 | " | .4,.4 | .37 | 1.3 |
| 68 | 858 | <1.0 | " | 1.4,1.2,2.1 | .44 | 1.1 |

**Note:**

Gold was determined by a combined fire assay-atomic absorption technique.
Those samples yielding a positive result were reanalyzed. All results are reported. Analyst: L. Mei

Mercury was determined by a combined penfield-dithizone technique. Analyst: J.J. Warr

Tellurium was determined by atomic absorption spectroscopy after extraction into MIBK from $Br_2$-HBr. Analyst: F.W. Brown

Uranium was determined fluorimetrically: Analyst: J. Budinsky

Fluoride was determined volumetrically using a fluoride specific-ion electrode to detect the endpoint after distillation as fluosilicic acid. Analyst: J. Budinsky

Geochemical samples from the Brewer mine Chesterfield Co, South Carolina
by Henry Bell
1983

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards.