



## ***Sorbed Metals Test Report***

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|---|---|---|

| <b>Analysis</b>        | <b>Value Found</b> |
|------------------------|--------------------|
| <b>Element</b>         | <b>--mg/kg--</b>   |
| <b>Zinc (Zn)</b>       | 261.8 mg/kg        |
| <b>Copper (Cu)</b>     | 40.8 mg/kg         |
| <b>Arsenic (As)</b>    | 3.4 mg/kg          |
| <b>Selenium</b>        | 2.4 mg/kg          |
| <b>Lead (Pb)</b>       | 196.5 mg/kg        |
| <b>Nickel (Ni)</b>     | 32.7 mg/kg         |
| <b>Chromium (Cr)</b>   | 51.3 mg/kg         |
| <b>Cadmium (Cd)</b>    | 25.7 mg/kg         |
| <b>Molybdenum (Mo)</b> | 0.8 mg/kg          |

**USEPA heavy metals threshold for soil screening levels\***

| Element        | --mg/kg-- |
|----------------|-----------|
| Arsenic (As)   | 25        |
| Cadmium (Cd)   | 39        |
| Chromium (Cr)  | 100       |
| Lead (Pb)      | 400       |
| Nickel (Ni)    | 1600      |
| Selenium (Se)  | 20        |
| Zinc (Zn)      | 23,600    |
| Barium (Ba)    | 2000      |
| Silver (Ag)    | 100       |
| Manganese (Mn) | 7,000     |
| Cobalt (Co)    | 10        |

\* This information is just a general guidance. Contact your local Environmental Protection Authority for specific recommendations

Source: USEPA

**References:**

<http://www.epa.gov/superfund/health/conmedia/soil/index.htm>

[http://www.epa.gov/Region5/cleanup/bautsch/pdfs/bgm\\_fs\\_201009.pdf](http://www.epa.gov/Region5/cleanup/bautsch/pdfs/bgm_fs_201009.pdf)

[http://rais.ornl.gov/documents/eco-ssl\\_selenium.pdf](http://rais.ornl.gov/documents/eco-ssl_selenium.pdf)

**For State specific heavy metals regulations refer to your state's department of environmental quality**

<http://www.epa.gov/osw/hazard/wastetypes/universal/statespf.htm#ma>

<http://rais.ornl.gov/documents/ecossl.pdf>

**Other**

<http://lqma.ifas.ufl.edu/Publication/Saba-06a.pdf>

[http://www.berkeley.edu/news/media/releases/2005/02/01\\_plantremediation.shtml](http://www.berkeley.edu/news/media/releases/2005/02/01_plantremediation.shtml)