



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

<b>Prepared For:</b> Philip B. Stark Depart of Stat, # 3860 Berkeley, CA 94720	<b>Alternate Address:</b>	<b>Sample Information:</b>
Phone: 510-394-5077		Sample ID: 11:18
Email: <a href="mailto:pbstark@berkeley.edu">pbstark@berkeley.edu</a>		Order Number: 291
		Lab Number: M140721-104
		Received: 7/25/2014
		Reported: 7/24/2014

<b>Analysis</b>	<b>Value Found</b>
<b>Element</b>	<b>--mg/kg--</b>
<b>Zinc (Zn)</b>	243.4 mg/kg
<b>Copper (Cu)</b>	38.6 mg/kg
<b>Arsenic (As)</b>	N/A
<b>Selenium</b>	N/A
<b>Lead (Pb)</b>	359.7 mg/kg
<b>Nickel (Ni)</b>	30.5 mg/kg
<b>Chromium (Cr)</b>	35.5 mg/kg
<b>Cadmium (Cd)</b>	0.7 mg/kg
<b>Molybdenum (Mo)</b>	N/A

**USEPA heavy metals threshold for soil cleanup and landuse decisions**

Element	Level Requiring Clean-up* --mg/kg--
Arsenic (As)	25
Cadmium (Cd)	70
Chromium (Cr)	230
Lead (Pb)	400
Nickel (Ni)	1600
Selenium (Se)	2
Zinc (Zn)	23,600

\* 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)