Media Disposal Guidelines

Sorbster® Deployed Media

Sorbster® adsorbent medias are utilized to remove unwanted and often hazardous contaminants from industrial waters. Typically these contaminants are heavy metals present at trace levels (parts per billion). Multiple trace metals will be removed simultaneously by Sorbster® media as water flows through the media. Sorbster® media functions by covalently bonding the metals throughout its high porosity and surface area. Once bonded, the metals are permanently attached and do not leach back off (see TCLP and California WET test results for Sorbster® media, which show no release of adsorbed toxic metals and compounds.)

Media Disposal After Test:

Perform TCLP test if concerned about metals release to confirm non-hazardous disposal

Media components are stable so even if the media is pulverized by removal procedure, i.e. a vacuum truck, the fragments should still pass the TCLP.

Wet used Sorbster® media poses no heating exotherm, no odor release, or contaminant release risks.

	Arsenic mg/L	Barium mg/L	Cadmium mg/L	Chromium mg/L	Lead mg/L	Mercury μg/L	Selenium mg/L	Silver mg/L
RCRA TCLP Limit Value	5.0	100.0	1.0	5.0	5.0	200.0	1.0	5.0
20 x TCLP Limit (Rule of 20)	100	2000	20	100	100	4000	20	100
Midwestern Power Plant FGD Water	<0.05	0.132	<0.05	0.019	<0.05	0.27	0.057	<0.05
Eastern Coal Mine Pond, Se-1 Media	<0.05	0.044	<0.05	<0.05	<0.05	0.26	<0.05	<0.05
Eastern Coal Mine Pond, Si-1 Media	<0.05	0.570	0.010	0.011	<0.05	0.29	0.022	<0.05
Western Truck Stop Wastewater	0.018	0.378	<0.05	<0.05	<0.05	<1.5	<0.05	<0.05
Midwestern Iron Mine Wastewater	0.021	0.025	<0.05	<0.05	<0.05	0.24	<0.05	<0.05
Midwestern Chemical Plant	<0.05	0.034	<0.05	0.033	<0.05	<3.0	<0.05	<0.05

metals analysis by SPARCEDC/RDLEA and mercury by SPA TR79A/265.3 methods								
Metal	STLC Limit, mg/L	Sorbster® Se-1/MM-1, mg/L	Sorbster* SI-1, mg/L <0.05					
Antimony	15	<0.05						
Arsenic	5	<0.05	<0.05					
Rarium	100	0.052	0.689					
Beryllium	0.75	0.006	0.025					
Cadmium	1	<0.05	0.042					
Chromium	5	0.075	0.067					
Cobalt	80	0.032	1.76					
Copper	25	0.090	0.702 <0.05					
Lead	5	<0.05						
Mercury	0.2	<0.075	<0.075					
Molybdenum	350	0.022	0.038					
Nickel	20	0.066	2.38					
Selenium	1	<0.05	0.066					
Silver	5	0.022	0.012					
Thallium	7	<0.05	0.109					
Vanadium	24	<0.05	<0.05					
Zinc	250	0.54	12.3					