

Summary of Studies on Cr(VI) Reduction by Calcium Polysulfide

Type of Study	RM mol-CaS _x / mol Cr(VI)	Initial Cr(VI) (mg/L)	% Cr(VI) removal	Initial pH	Final pH	Reference
Bench Scale Synthetic water (4 hours)	8.3 to 3.33	2.7 to 13.4	100	-	-	Graham et al., 2006
Bench Scale Synthetic water (4 hours)	1.67	26.8	98	-	-	Graham et al., 2006
Groundwater	1.8	45	100	7.7	9.1	Freedman et al., 2005
Bench Scale Synthetic water (4 hours)	1.66	67 to 134	100 to 50	-	-	Graham et al., 2006
CORP (TCLP)						
1 hour	2	103	70.6	9	9.59	Moon et al., 2008
1 month	2	103	99.9	9	10.24	
18 months	2	103	95.7	9	10.82	
CORP (TCLP)						
1 month	3	103	100	9.7	10.20	Wazne et al., 2007b
	3	165	100	9.5	10.16	
CORP (TCLP)						
1 hour	2	165	87.3	9	9.99	Moon et al., 2008
1 month	2	165	99.99	9	10.28	
18 months	2	165	97.1	9	10.22	
CORP Solution						
(1 mM NaCl)	2.3	180 to 220	100 to 77	10.7 to 9.4	between (8-12.5)	Graham et al., 2006
	2.3	30 to 180	100	12.1 to 10.7		
	0.88	20 to 200	100	12.0 to 10.9		
	1.4	30 to 200	100	12.8 to 11		
Groundwater Total Cr = 3550	1.31	3425	100	9.91	-	Graham et al., 2006

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