

**Calculation of Cohen's Adjustment  
Natural Log of Arsenic Concentrations  
Detected in Crawford and Bexar Stony Soils  
Camp Stanley Storage Activity, Texas**

Sample ID	Arsenic Concentrations (mg/kg)	Natural log of Arsenic Concentrations (mg/kg)	
BKGR-SS4	26	3.26	
BKGR-SS11	20	3.00	
BKGR-SS12	4.4	1.48	
BKGR-SS14	3.4	1.22	
BKGR-SS18	5.3	1.67	
BKGR-SS22	4	1.39	
BKGR-SS23	1.25	0.22	U
BKGR-SS24	1.25	0.22	U
BKGR-SS25	1.2	0.18	U
BKGR-SS31	1.25	0.22	U
<b>Distribution</b>		<b>Lognormal</b>	
Mean of Detects (X)	NA	1.44	
Variance of Detects (V)	NA	0.03	
Average Detection Limit (DL)	NA	0.21	
h	NA	0.40	
y	NA	0.02	
lambda	NA	0.6017	
Adjusted Mean (X*) (of ln)	NA	0.702	
Adjusted Standard Deviation (S*) (of ln)	NA	0.965	

mean of Detects= mean of all samples where contaminants were detected

Variance of Detects =

$h = (n-m)/n$  where  $n = \#$  of samples,  $m = \#$  of samples above detection limit

$y = V / (X-DL)(X-DL)$

lambda = Interpolated from values in Appendix B, Table 7 of *Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities* (EPA, 1989)

$X^* = X - \lambda(X-DL)$

$S^* = \text{SQRT}(V + (\lambda((X - DL)(X-DL)))$