

**Table B.2**  
**Calculation of Parametric Tolerance Limits**  
**Metals Concentrations Detected All Soils**  
**Camp Stanley Storage Activity, Texas**

Sample ID	Lognormal Distribution								
	Arsenic (ln mg/kg)	Barium (ln mg/kg)	Cadmium (ln mg/kg)	Chromium (ln mg/kg)	Copper (ln mg/kg)	Lead (ln mg/kg)	Mercury (ln mg/kg)	Nickel (ln mg/kg)	Zinc (ln mg/kg)
BKGR-SS1	3.04	4.29	-0.48	2.91	2.07	4.03	-3.22	3.33	3.54
BKGR-SS2	3.26	4.33	-0.53	2.72	1.77	3.89	-3.91	3.37	3.01
BKGR-SS3	3.00	4.24	-0.51	2.79	2.13	3.87	-3.00	3.26	3.08
BKGR-SS4	3.26	4.89	-0.40	3.38	2.65	3.58	-3.51	3.47	3.72
BKGR-SS5	3.00	3.50	-0.51	1.57	1.76	3.91	-3.51	3.09	2.76
BKGR-SS6	2.76	4.72	-0.49	3.19	2.33	3.58	-3.22	3.18	3.42
BKGR-SS7	2.48	3.71	-0.49	2.16	1.44	3.89	-3.22	3.22	2.53
BKGR-SS8	2.40	3.01	-0.60	1.55	1.39	3.89	-3.22	3.16	2.01
BKGR-SS9	3.22	4.17	-0.53	2.60	2.84	4.52	-3.51	3.19	4.50
BKGR-SS10	1.55	3.24	-0.62	2.12	1.57	3.87	-0.26	3.22	3.43
BKGR-SS11	1.10	4.61	1.34	1.96	2.76	3.33	-3.91	3.17	3.73
BKGR-SS12	1.46	4.51	0.74	2.64	2.74	2.94	-3.91	2.95	4.10
BKGR-SS13	1.48	3.22	1.28	1.96	2.27	2.01	-3.91	2.81	3.46
BKGR-SS14	1.46	3.53	1.28	2.10	2.56	2.94	-3.91	2.61	3.40
BKGR-SS15	1.73	3.68	-2.12	2.39	2.23	2.78	-3.91	2.00	2.44
BKGR-SS16	1.67	4.11	1.10	2.94	2.19	2.94	-3.91	1.90	2.54
BKGR-SS17	1.39	4.34	1.44	2.40	2.44	2.77	-3.91	2.71	3.52
BKGR-SS18	1.53	4.61	0.96	2.83	2.51	2.71	-3.91	2.62	3.43
BKGR-SS19	1.53	2.94	1.28	0.96	1.47	1.67	-3.91	1.61	2.43
BKGR-SS20	1.61	4.17	1.34	1.74	2.23	2.28	-3.91	2.56	3.26
BKGR-SS21	1.57	3.09	1.28	0.92	2.13	2.19	-3.91	2.23	2.97
BKGR-SS22	0.99	4.13	1.34	1.72	1.80	2.30	-3.91	1.60	2.22
BKGR-SS23	1.65	3.58	1.28	1.41	2.44	1.70	-3.91	2.58	3.39
BKGR-SS24	1.57	4.51	1.39	1.93	1.72	2.56	-3.91	1.60	2.21
BKGR-SS25	1.69	4.36	1.34	1.69	2.65	1.86	-3.91	2.35	3.44
BKGR-SS26	0.96	3.61	1.34	1.81	1.85	2.56	-3.91	1.69	2.64
BKGR-SS27	1.57	3.33	1.28	1.46	2.32	1.79	-3.91	2.32	3.25
BKGR-SS28	1.53	2.48	1.22	1.19	1.88	1.93	-3.91	2.20	2.87
BKGR-SS29	1.48	2.56	1.22	0.88	2.42	1.67	-3.91	2.50	3.15
BKGR-SS30	1.48	2.89	1.22	1.06	1.14	1.99	-3.91	1.15	1.99
BKGR-SS31	1.65	3.76	1.34	2.15	2.31	2.07	-3.91	2.47	3.07
BKGR-SS32	1.61	3.71	1.34	1.87	1.50	2.48	-3.91	1.54	2.11
BKGR-SS33	1.61	3.81	1.34	1.36	1.56	2.00	-3.91	1.85	2.10
BKGR-SS34	1.57	3.00	1.28	0.88	2.63	1.70	-3.91	2.89	3.57
BKGR-SS35	1.61	3.66	1.34	1.28	1.92	2.16	-3.91	2.43	3.07
BKGR-SS36	1.68	3.29	-1.71	1.53	1.80	2.61	-4.61	1.50	2.48
BKGR-SS37	2.45	4.62	-1.35	3.13	2.70	3.77	-3.22	3.06	3.83
BKGR-SS38	1.95	4.36	-1.39	3.02	2.44	3.95	-3.51	2.43	3.53
BKGR-SS40	1.94	4.56	-1.56	3.17	2.67	3.08	-2.81	2.76	3.56
BKGR-SS41	2.30	4.52	-0.87	3.20	2.62	3.16	-3.22	2.97	3.96
BKGR-SS42	1.33	2.74	-1.90	1.48	1.07	2.83	-3.91	1.32	2.44
BKGR-SS43	1.61	2.97	-2.21	1.95	1.33	2.15	-3.51	1.61	2.33
BKGR-SS44	1.68	3.52	-1.83	2.23	1.64	2.49	-4.61	2.00	3.82
BKGR-SS45	2.41	4.41	-0.87	3.10	2.59	3.21	-2.81	2.88	3.90
BKGR-SS46	1.96	4.29	-1.61	2.66	1.98	2.35	-4.61	2.36	3.10
BKGR-SS47	1.47	3.25	-2.21	1.69	1.51	3.16	-4.61	1.41	2.45
BKGR-SS48	2.29	4.59	-0.78	3.16	2.71	4.59	-4.61	2.77	3.78
BKGR-SS49	1.82	4.02	-1.47	2.68	2.31	3.34	-4.61	2.36	3.00
BKGR-SS50	1.68	3.05	-1.97	1.86	1.67	2.50	-4.61	1.68	2.26
BKGR-SS51	1.75	3.75	-1.90	2.52	3.29	3.16	-4.61	2.06	2.97
BKGR-SS52	2.53	4.52	-1.31	2.76	2.75	4.10	-2.04	2.71	3.45
BKGR-SS53	1.55	3.56	-1.24	2.04	1.88	3.46	-3.91	1.69	2.92
BKGR-SS54	0.97	4.35	-1.31	2.13	2.03	2.88	-3.91	2.10	3.29
BKGR-SS55	1.68	4.39	-1.47	1.99	1.50	2.43	-4.61	2.18	2.56
BKGR-SS56	1.82	4.21	-1.77	2.17	1.69	2.45	-4.61	2.11	2.81
BKGR-SS57	1.97	4.77	-1.17	3.21	2.97	5.36	-1.61	2.86	4.59
BKGR-SS58	1.62	4.31	-1.66	2.72	2.55	3.04	-4.61	2.48	3.40
BKGR-SS59	1.89	4.34	-1.47	3.02	2.44	2.63	-4.61	2.73	3.38
BKGR-SS61	1.92	4.66	-1.56	3.26	2.68	3.05	-3.22	2.97	3.70
BKGR-SS62	1.93	5.60	-1.71	2.84	2.32	3.17	-3.00	3.22	3.10
BKGR-SS63	1.97	4.10	-1.77	2.73	2.28	3.14	-3.22	2.23	2.83
BKGR-SS64	1.77	4.00	-1.77	2.52	2.11	3.38	-3.22	2.01	3.03
BKGR-SS65	1.92	3.94	-1.90	2.45	2.60	2.74	-3.51	2.00	2.86
BKGR-SS66	1.46	4.41	-1.66	2.81	2.34	2.95	-3.91	2.13	3.24
BKGR-SS67	0.75	3.52	-2.30	1.70	1.48	2.82	-3.51	1.18	1.95
BKGR-SS68	1.34	4.45	-1.71	2.96	2.25	3.08	-3.91	2.22	3.10
BKGR-SS69	1.35	4.81	-1.61	3.32	2.69	3.78	-3.22	2.68	3.44
BKGR-SS70	1.16	3.30	-2.04	1.86	1.88	2.59	-3.51	1.48	2.41
BKGR-SS71	2.31	4.53	-1.61	3.37	2.81	3.41	-3.22	2.85	3.47
BKGR-SS72	1.83	3.42	-1.83	2.27	1.87	2.44	-3.51	2.08	2.99
BKGR-SS73	2.29	4.03	-1.66	2.63	2.16	3.72	-3.22	2.14	3.28
BKGR-SS74	2.05	4.80	-1.39	3.53	2.88	3.21	-0.53	3.12	3.76
BKGR-SS75	1.96	4.02	-1.51	2.71	2.00	3.82	-2.53	2.06	4.16
BKGR-SS76	2.25	4.99	-1.51	3.55	2.78	3.00	-3.22	3.08	3.63
BKGR-SS77	2.41	4.25	-1.47	2.86	2.73	2.64	-2.12	2.53	3.52
BKGR-SS78	2.01	3.62	-1.27	1.90	1.77	2.67	-1.11	1.93	2.73
BKGR-SS79	1.75	2.92	-2.21	1.69	1.79	2.78	-3.51	1.45	2.32
BKGR-SS80	1.59	4.43	-1.47	2.87	2.82	3.15	-3.00	2.46	3.61
Mean (ln mg/kg)	1.44	3.96	--	2.30	2.18	2.96	--	2.39	3.12
Standard Deviation (ln mg/kg)	0.78	0.65	--	0.71	0.49	0.75	--	0.60	0.60
Coefficient of Variation	0.54	0.16	--	0.31	0.23	0.25	--	0.25	0.19
Distributional Assumption	~Lognormal	Lognormal	None	~Lognormal	Lognormal	Lognormal	None	Lognormal	Lognormal
Shapiro Wilk Test Result	p=0.0321	p=0.0541	p<0.0001	p=0.0446	p=0.0985	p=0.1385	p<0.0001	p=0.0637	p=0.2584
Number of samples	78	78	78	78	78	78	78	78	78
K Tolerance Factor	1.966	1.966	--	1.966	1.966	1.966	--	1.966	1.966
Upper Tolerance Limit (ln mg/kg)	2.97	5.23	1.10	3.69	3.14	4.44	-0.26	3.57	4.29
<b>Upper Tolerance Limit (mg/kg)</b>	<b>19.6</b>	<b>186.0</b>	<b>3.0</b>	<b>40.2</b>	<b>23.2</b>	<b>84.5</b>	<b>0.77</b>	<b>35.5</b>	<b>73.2</b>

Note: Qualifiers have been removed from all positive detections