APPENDIX C

CALCULATION OF BACKGROUND CONCENTRATIONS IN AIR

Table C-1. Summary of Background Statistics

Statistic	Chloroform	1,1-DCA	1,2-DCA	PCE	TCE	VC	1,2-DCB	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Freon 113	1,1,1-TCA
Summary of measured concentrations												
# of samples	183	201	175	289	289	289	201	215	239	176	183	251
# of sample dates	77	91	143	163	163	163	91	93	117	87	77	140
# of distinct detected results	17	11	38	54	67	7	3	3	29	7	19	25
% non-detect	53%	86%	55%	24%	40%	95%	97%	97%	66%	90%	1%	44%
Minimum (nondetects only)	0.080 U	0.042 U	0.044 U	0.068 U	0.043 U	0.013 U	0.063 U	0.026 U	0.026 U	0.056 U	0.25 U	0.13 U
Maximum (nondetects only)	0.83 U	4.0 U	0.69 U	1.2 U	0.91 U	0.77 U	1.0 U	0.67 U	0.67 U	1.3 U	1.1 U	0.93 U
Minimum (detects only)	0.13	0.085	0.016	0.078	0.028	0.32	0.51	0.016	0.012	0.011	0.14	0.10
Maximum (detects only)	2.0	2.2	0.073	6.6	9.9	2.7	7.5	0.16	0.68	0.020	62	22
Summary of daily average concentrations												
Minimum (nondetect)	0.080 U	0.042 U	0.044 U	0.068 U	0.043 U	0.013 U	0.063 U	0.026 U	0.026 U	0.056 U	0.50 U	0.16 U
Maximum (detect)	0.57	0.60	0.12	1.4	6.7	1.5	0.92	0.065	0.17	0.020	8.2	3.3
Median (nondetects at half DL)	0.11	0.043	0.070	0.15	0.14	0.021	0.14	0.021	0.045	0.030	0.46	0.14
Arithmetic mean (nondetects at half DL)	0.14	0.076	0.10	0.24	0.39	0.15	0.14	0.031	0.052	0.084	0.59	0.20
Geometric mean (nondetects at half DL)	0.10	0.058	0.076	0.17	0.18	0.043	0.13	0.025	0.042	0.043	0.50	0.16
Nondetects included at half the detection limit												
Normal distribution (detects only)	No	No	No	No	No	Yes	Yes	Yes	No	Yes	No	No
Lognormal distribution (detects only)	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	No	No
95th Percentile [b]	0.31	0.22	0.070	0.63	1.8	0.38	0.29	0.035	0.079	0.020	2.0	0.70
95% UCL on 95th percentile ($UTL_{95,95}$) [b]	0.34	0.24	0.074	0.68	2.0	0.41	0.32	0.038	0.086	0.021	2.3	0.76
Nondetects imputed [a]												
Normal distribution	No	No	No	No	No	No	No	No	No	No	No	No
Lognormal distribution	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No
95th Percentile [c]	0.42	0.23	0.070	0.75	1.8	0.30	0.23	0.038	0.084	0.020	0.62	0.33
95% UCL on 95th percentile ($UTL_{95,95}$) [c]	0.56	0.28	0.073	0.97	2.5	0.38	0.31	0.043	0.10	0.020	0.69	0.69
Compare site sample results to												
95th Percentile [a,c]	0.42	0.23	0.070	0.75	1.8	0.30	0.23	0.038	0.084	0.0202	0.62	0.33
95% UCL on 95th percentile ($UTL_{95,95}$) [a,c]	0.56	0.28	0.073	0.97	2.5	0.38	0.31	0.043	0.10	0.0204	0.69	0.69

Notes:

All concentrations are reported in $\mu g/m^3$, rounded to two significant figures

[a] - Nondetected values were imputed in ProUCL 4.0 using regression on the order statistics, assuming a lognormal distribution

[b] - 95th percentiles and 95th UTLs were calculated using nonparametric methods based on the Kaplan-Meier parameter estimates

[c] - 95th percentiles and 95th UTLs were calculated using nonparametric methods

Table C-2. Measured concentrations in background and reference samples

Location	Date	Chloroform	1,1-DCA	1,2-DCA	PCE	TCE	VC	1,2-DCB	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Freon 113	1,1,1-TCA
B258	06/30/03		0.083 *U*	0.029	0.15	0.24	0.020 *U*	0.28 *U*	0.041 *U*	0.019	0.057 *U*		0.21
B258	07/02/03		0.085 *U*	0.034	0.11	0.43	0.021 *U*	0.28 *U*	0.042 *U*	0.016	0.058 *U*		0.18
B258	07/08/03		0.085 *U*	0.036	0.078	0.30	0.021 *U*	0.28 *U*	0.041 *U*	0.012	0.058 *U*		0.26
B258	07/11/03		0.085 *U*	0.037	0.078	0.26	0.021 *U*	0.28 *U*	0.042 *U*	0.058 *U*	0.058 *U*		0.19
B258	07/16/03		0.084 *U*	0.029	0.15	0.16	0.021 *U*	0.28 *U*	0.041 *U*	0.022	0.058 *U*		0.18
B258	07/17/03		0.083 *U*	0.036	0.15	0.45	0.020 *U*	0.28 *U*	0.041 *U*	0.013	0.057 *U*		0.18
B258	07/23/03		0.084 *U*	0.042	0.12	0.35	0.021 *U*	0.28 *U*	0.041 *U*	0.058 *U*	0.058 *U*		0.50
B258	07/24/03		0.084 *U*	0.036	0.11	0.44	0.021 *U*	0.28 *U*	0.041 *U*	0.057 *U*	0.057 *U*		0.19
B258	07/29/03		0.084 *U*	0.031	0.099	0.038	0.021 *U*	0.28 *U*	0.041 *U*	0.058 *U*	0.058 *U*		0.19
B258	08/01/03		0.084 *U*	0.032	0.47	0.10	0.021 *U*	0.28 *U*	0.016	0.058 *U*	0.058 *U*		0.14
B258	08/04/03		0.084 *U*	0.016	0.11	0.031	0.021 *U*	0.28 *U*	0.041 *U*	0.058 *U*	0.058 *U*		0.12
B258	08/07/03		0.084 *U*	0.026	0.18	0.35	0.021 *U*	0.28 *U*	0.041 *U*	0.018	0.058 *U*		0.19
B258	08/13/03		0.084 *U*	0.027	0.099	0.15	0.021 *U*	0.28 *U*	0.041 *U*	0.058 *U*	0.058 *U*		0.18
B258	08/15/03		0.084 *U*	0.029	0.15	0.062	0.021 *U*	0.28 *U*	0.041 *U*	0.021	0.058 *U*		0.20
B258	08/19/03		0.084 *U*	0.024	0.13	0.056	0.021 *U*	0.28 *U*	0.041 *U*	0.057 *U*	0.057 *U*		0.18
B258	08/21/03		0.084 *U*	0.023	0.084	0.032	0.021 *U*	0.28 *U*	0.041 *U*	0.057 *U*	0.057 *U*		0.17
B258	08/25/03		0.082 *U*	0.020	0.090	0.051	0.020 *U*	0.27 *U*	0.040 *U*	0.056 *U*	0.056 *U*		0.11
B258	08/28/03		0.085 *U*	0.020	0.078	0.13	0.021 *U*	0.28 *U*	0.041 *U*	0.058 *U*	0.058 *U*		0.16
B258	09/02/03		0.084 *U*	0.022	0.084	0.12	0.021 *U*	0.28 *U*	0.041 *U*	0.057 *U*	0.057 *U*		0.11
B258	09/04/03		0.084 *U*	0.021	0.11	0.16	0.021 *U*	0.28 *U*	0.041 *U*	0.036	0.058 *U*		0.12
B258	09/10/03		0.084 *U*	0.028	0.20	0.22	0.021 *U*	0.28 *U*	0.041 *U*	0.049	0.058 *U*		0.19
B258	09/15/03		0.084 *U*	0.032	0.20	6.7	0.021 *U*	0.28 *U*	0.041 *U*	0.058 *U*	0.058 *U*		0.16
B258	09/17/03		0.084 *U*	0.028	0.23	4.9	0.021 *U*	0.28 *U*	0.041 *U*	0.062	0.057 *U*		0.20
B258	09/23/03		0.083 *U*	0.025	0.098	5.5	0.021 *U*	0.28 *U*	0.041 *U*	0.057 *U*	0.057 *U*		0.15
B258	09/26/03		0.085 *U*	0.026	0.078	0.090	0.021 *U*	0.28 *U*	0.041 *U*	0.058 *U*	0.058 *U*		0.16
B258	12/22/03		0.087 *U*	0.039	0.41	2.7	0.021 *U*	0.29 *U*	0.042 *U*	0.040	0.014		0.19
B258	12/29/03		0.086 *U*	0.047	0.17	1.9	0.021 *U*	0.29 *U*	0.042 *U*	0.025	0.059 *U*		0.16
B258	01/07/04		0.086 *U*	0.038	0.17	2.4	0.021 *U*	0.29 *U*	0.042 *U*	0.059 *U*	0.059 *U*		0.16
B258	01/09/04		0.086 *U*	0.043	0.23	1.3	0.021 *U*	0.29 *U*	0.042 *U*	0.022	0.059 *U*		0.17
B258	01/13/04		0.088 *U*	0.043	0.33	1.5	0.022 *U*	0.29 *U*	0.043 *U*	0.056	0.012		0.20
B258	01/15/04		0.087 *U*	0.048	0.20	2.5	0.021 *U*	0.29 *U*	0.043 *U*	0.060 *U*	0.060 *U*		0.19
B258	01/20/04		0.087 *U*	0.044	0.47	2.0	0.021 *U*	0.29 *U*	0.043 *U*	0.051	0.060 *U*		0.20
B258	01/22/04		0.088 *U*	0.062	0.41	0.70	0.022 *U*	0.30 *U*	0.043 *U*	0.082	0.019		0.23
B258	01/26/04		0.088 *U*	0.057	0.16	0.51	0.022 *U*	0.29 *U*	0.043 *U*	0.060 *U*	0.060 *U*		0.18
B258	01/28/04		0.088 *U*	0.044 *U*	0.73	0.55	0.022 *U*	0.29 *U*	0.043 *U*	0.047	0.060 *U*		0.19
B258	02/03/04		0.087 *U*	0.040	0.17	0.47	0.021 *U*	0.29 *U*	0.043 *U*	0.013	0.060 *U*		0.16
B258	02/06/04		0.088 *U*	0.042	0.38	0.64	0.022 *U*	0.29 *U*	0.043 *U*	0.043	0.060 *U*		0.15
B258	02/10/04		0.088 *U*	0.048	0.43	0.58	0.022 *U*	0.29 *U*	0.043 *U*	0.11	0.015		0.21
B258	02/12/04		0.087 *U*	0.043	0.30	0.63	0.021 *U*	0.29 *U*	0.042 *U*	0.047	0.020		0.19
B258	02/18/04		0.086 *U*	0.065	0.17	0.55	0.021 *U*	0.29 *U*	0.042 *U*	0.016	0.059 *U*		0.24
B258	02/20/04		0.087 *U*	0.043	0.22	0.49	0.021 *U*	0.29 *U*	0.042 *U*	0.025	0.012		0.18
B258	02/23/04		0.086 *U*	0.056	0.12	0.42	0.021 *U*	0.29 *U*	0.042 *U*	0.059 *U*	0.059 *U*		0.19
B258	02/25/04		0.085 *U*	0.051	0.10	0.30	0.021 *U*	0.29 *U*	0.042 *U*	0.059 *U*	0.059 *U*		0.18
B258	03/02/04		0.086 *U*	0.056	0.12	0.30	0.021 *U*	0.29 *U*	0.042 *U*	0.016	0.059 *U*		0.20
B258	03/04/04		0.087 *U*	0.056	0.15	0.37	0.021 *U*	0.29 *U*	0.042 *U*	0.028	0.059 *U*		0.23
B258	03/08/04		0.085 *U*	0.055	0.51	0.56	0.021 *U*	0.28 *U*	0.041 *U*	0.083	0.017		0.28
B258	03/11/04		0.085 *U*	0.051	0.26	0.56	0.021 *U*	0.28 *U*	0.042 *U*	0.042	0.011		0.22

Table C-2. (Cont.)

Location	Date	Chloroform	1,1-DCA	1,2-DCA	PCE	TCE	VC	1,2-DCB	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Freon 113	1,1,1-TCA
B258	03/17/04		0.084 *U*	0.041	0.40	0.51	0.021 *U*	0.28 *U*	0.041 *U*	0.045	0.012		0.23
B258	03/19/04		0.085 *U*	0.051	0.21	0.40	0.021 *U*	0.29 *U*	0.042 *U*	0.037	0.059 *U*		0.23
B258	03/22/04		0.086 *U*	0.042	0.079	0.28	0.021 *U*	0.29 *U*	0.042 *U*	0.059 *U*	0.059 *U*		0.18
B258	03/24/04		0.086 *U*	0.073	0.14	0.23	0.021 *U*	0.29 *U*	0.042 *U*	0.013	0.059 *U*		0.20
B258	03/30/04		0.086 *U*	0.052	0.14	0.25	0.021 *U*	0.29 *U*	0.042 *U*	0.015	0.059 *U*		0.21
B258	04/01/04		0.085 *U*	0.051	0.079	0.22	0.021 *U*	0.29 *U*	0.042 *U*	0.059 *U*	0.059 *U*		0.18
B258	04/06/04		0.086 *U*	0.069	0.17	0.29	0.021 *U*	0.29 *U*	0.042 *U*	0.019	0.059 *U*		0.25
B258	04/08/04		0.086 *U*	0.060	0.12	0.31	0.021 *U*	0.29 *U*	0.042 *U*	0.023	0.059 *U*		0.20
B258	04/13/04		0.086 *U*	0.048	0.11	0.097	0.021 *U*	0.29 *U*	0.042 *U*	0.014	0.059 *U*		0.15
B258	04/16/04		0.19	0.042	0.12	0.080	0.021 *U*	0.29 *U*	0.042 *U*	0.059	0.059 *U*		0.14
B258	04/19/04		0.32	0.047	0.072 *U*	0.054	0.021 *U*	0.29 *U*	0.042 *U*	0.059 *U*	0.059 *U*		0.16
B258	04/22/04		0.13	0.085 *U*	0.23	0.18	0.021 *U*	0.29 *U*	0.042 *U*	0.10	0.059 *U*		0.17
B258	04/28/04		0.28	0.036	0.18	0.078	0.021 *U*	0.28 *U*	0.041 *U*	0.058 *U*	0.058 *U*		0.19
B258	05/03/04		0.21	0.032	0.15	0.073	0.021 *U*	0.28 *U*	0.041 *U*	0.058 *U*	0.058 *U*		0.18
B258	05/05/04		0.10	0.035	0.11	0.062	0.021 *U*	0.29 *U*	0.042 *U*	0.058 *U*	0.058 *U*		0.17
B258	05/11/04		0.17	0.036	0.11	0.063	0.021 *U*	0.29 *U*	0.042 *U*	0.055	0.059 *U*		0.16
B258	05/19/04		0.19	0.039	0.079	0.028	0.021 *U*	0.29 *U*	0.042 *U*	0.059 *U*	0.059 *U*		0.10
B258	06/02/04		0.25	0.046	0.11	0.040	0.021 *U*	0.28 *U*	0.041 *U*	0.058 *U*	0.058 *U*		0.17
B258	06/04/04		0.085	0.037	0.15	0.046	0.021 *U*	0.28 *U*	0.042 *U*	0.014	0.058 *U*		0.13
B258	06/10/04		0.17	0.085 *U*	0.19	0.079	0.021 *U*	0.28 *U*	0.042 *U*	0.058 *U*	0.058 *U*		0.17
B258	06/17/04		0.15	0.084 *U*	0.13	0.061	0.021 *U*	0.28 *U*	0.041 *U*	0.057 *U*	0.057 *U*		0.19
B258	09/07/04			0.15 *U*	0.26	0.24	0.046 *U*			0.15 *U*			
B258	09/09/04			0.15 *U*	0.26 *U*	0.051 *U*	0.050 *U*			0.15 *U*			
B258	09/14/04			0.13 *U*	0.50	0.44	0.042 *U*			0.13 *U*			
B258	09/16/04			0.14 *U*	0.23 *U*	0.23	0.042 *U*			0.13 *U*			
B258	09/21/04			0.14 *U*	0.49	0.46	0.045 *U*			0.14 *U*			
B258	09/23/04			0.14 *U*	0.42	0.54	0.042 *U*			0.13 *U*			
B258	09/28/04			0.14 *U*	0.24 *U*	0.32	2.7			0.14 *U*			
B258	09/30/04			0.14 *U*	0.24 *U*	0.24	1.8			0.14 *U*			
B258	10/05/04			0.14 *U*	0.31	0.30	0.38			0.14 *U*			
B258	10/07/04			0.14 *U*	0.24 *U*	0.28	0.32			0.14 *U*			
B258	10/12/04			0.13 *U*	0.45	0.48	0.042 *U*			0.13 *U*			
B258	10/14/04			0.14 *U*	0.67	0.61	0.60			0.14 *U*			
B258	10/19/04			0.13 *U*	0.21 *U*	0.18	0.32			0.12 *U*			
B258	10/21/04			0.15 *U*	0.29	0.24	0.51			0.14 *U*			
B258	10/26/04			0.13 *U*	0.26	0.24	0.043 *U*			0.13 *U*			
B258	10/28/04			0.14 *U*	0.27	0.23	0.044 *U*			0.14 *U*			
B258	07/12/05			0.15 *U*	0.25 *U*	0.049 *U*	0.048 *U*			0.14 *U*			
B258	07/14/05			0.14 *U*	0.24 *U*	0.047 *U*	0.045 *U*			0.14 *U*			
B258	07/19/05			0.14 *U*	0.23 *U*	0.046 *U*	0.045 *U*			0.14 *U*			
B258	07/21/05			0.14 *U*	0.23 *U*	0.045 *U*	0.043 *U*			0.13 *U*			
B258	09/27/05			0.14 *U*	0.99	0.045 *U*	0.043 *U*			0.13 *U*			
B258	09/29/05			0.14 *U*	0.97	0.31	0.042 *U*			0.13 *U*			
B258	01/03/06			0.13 *U*	0.57	0.043 *U*	0.041 *U*			0.13 *U*			
B258	01/05/06			0.13 *U*	0.88	0.24	0.041 *U*			0.13 *U*			
ENCINAL	05/06/03	0.17 *U*	0.14 *U*		0.24 *U*	0.19 *U*	0.044 *U*	0.21 *U*	0.069 *U*	0.14 *U*	0.69 *U*	0.34	0.27
ENCINAL	05/10/03	0.12 *U*	0.043 *U*		0.12 *U*	0.093 *U*	0.014 *U*	0.06 *U*	0.026 *U*	0.026 *U*	0.11 *U*	0.62	0.13 *U*

Table C-2. (Cont.)

Location	Date	Chloroform	1,1-DCA	1,2-DCA	PCE	TCE	VC	1,2-DCB	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Freon 113	1,1,1-TCA
ENCINAL	05/13/03	0.23	0.13 *U*		0.23	0.18 *U*	0.043 *U*	0.20 *U*	0.066 *U*	0.13 *U*	0.66 *U*	0.49	0.18 *U*
ENCINAL	05/17/03	0.23 *U*	0.26 *U*		0.70 *U*	0.55 *U*	0.081 *U*	0.38 *U*	0.16 *U*	0.16 *U*	0.63 *U*	1.1 *U*	2.2
ENCINAL	09/27/03	0.16 *U*	0.13 *U*		0.22 *U*	0.18 *U*	0.042 *U*	0.20 *U*	0.065 *U*	0.13 *U*	0.65 *U*	0.65	0.18 *U*
ENCINAL	10/02/03	0.17 *U*	0.14 *U*		0.24 *U*	0.19 *U*	0.044 *U*	0.21 *U*	0.069 *U*	0.14 *U*	0.69 *U*	0.60	0.19 *U*
ENCINAL	10/04/03	0.17 *U*	0.14 *U*		0.23 *U*	0.18 *U*	0.044 *U*	0.20 *U*	0.068 *U*	0.14 *U*	0.68 *U*	0.44	0.19 *U*
ENCINAL	10/07/03	0.21	0.14 *U*		0.71	0.19 *U*	0.044 *U*	0.21 *U*	0.069 *U*	0.14 *U*	0.69 *U*	0.46	0.19 *U*
MOFFETT10	05/06/03	0.17 *U*	0.14 *U*		0.23 *U*	0.18 *U*	0.044 *U*	0.20 *U*	0.068 *U*	0.14 *U*	0.68 *U*	0.32	0.28
MOFFETT10	05/10/03	0.22 *U*	0.082 *U*		0.67 *U*	0.18 *U*	0.026 *U*	0.12 *U*	0.050 *U*	0.050 *U*	0.20 *U*	0.67	0.25 *U*
MOFFETT10	05/13/03	0.18 *U*	0.15 *U*		0.25 *U*	0.20 *U*	0.046 *U*	0.22 *U*	0.072 *U*	0.14 *U*	0.72 *U*	0.49	0.20 *U*
MOFFETT10	05/17/03	0.13	0.042 *U*		0.12 *U*	0.091 *U*	0.013 *U*	0.06 *U*	0.026 *U*	0.026 *U*	0.10 *U*	0.49	0.13 *U*
MOFFETT10	09/27/03	0.17 *U*	0.14 *U*		0.23 *U*	0.18 *U*	0.044 *U*	0.20 *U*	0.068 *U*	0.14 *U*	0.68 *U*	0.51	0.19 *U*
MOFFETT10	10/02/03	0.17 *U*	0.14 *U*		0.23 *U*	0.18 *U*	0.044 *U*	0.20 *U*	0.068 *U*	0.14 *U*	0.68 *U*	0.57	0.19 *U*
MOFFETT10	10/04/03	0.16 *U*	0.13 *U*		0.23 *U*	0.18 *U*	0.043 *U*	0.20 *U*	0.066 *U*	0.13 *U*	0.66 *U*	0.44	0.18 *U*
MOFFETT10	10/07/03	0.25	0.14 *U*		0.40	0.19 *U*	0.044 *U*	0.21 *U*	0.069 *U*	0.14 *U*	0.69 *U*	0.50	0.19 *U*
REFMOFFETT	05/05/03	0.17 *U*	0.14 *U*		0.23 *U*	0.18 *U*	0.044 *U*	0.20 *U*	0.068 *U*	0.14 *U*	0.68 *U*	0.75	0.27
REFMOFFETT	05/09/03	0.12 *U*	0.045 *U*		0.37 *U*	0.097 *U*	0.014 *U*	0.07 *U*	0.028 *U*	0.028 *U*	0.11 *U*	0.65	0.14
REFMOFFETT	05/12/03	0.23	0.13 *U*		0.26	0.18 *U*	0.043 *U*	0.20 *U*	0.066 *U*	0.13 *U*	0.66 *U*	0.26 *U*	0.28
REFMOFFETT	05/16/03	0.12 *U*	0.043 *U*		0.12 *U*	0.092 *U*	0.014 *U*	0.06 *U*	0.026 *U*	0.026 *U*	0.11 *U*	0.51	0.13 *U*
REFMOFFETT	09/03/03	0.26 *U*	0.20 *U*	0.20 *U*	0.34 *U*	0.26 *U*	0.14 *U*	0.30 *U*	0.20 *U*	0.20 *U*		0.54	0.28 *U*
REFMOFFETT	09/10/03	0.37	0.20 *U*	0.20 *U*	0.27	0.31	0.14 *U*	0.30 *U*	0.20 *U*	0.20 *U*		0.55	0.16
REFMOFFETT	09/24/03	0.15 *U*	0.12 *U*		0.20 *U*	0.16 *U*	0.039 *U*	0.18 *U*	0.060 *U*	0.12 *U*	0.60 *U*	0.53	0.16 *U*
REFMOFFETT	09/26/03	0.16 *U*	0.13 *U*		0.22 *U*	0.17 *U*	0.041 *U*	0.19 *U*	0.064 *U*	0.13 *U*	0.64 *U*	0.70	0.18 *U*
REFMOFFETT	10/01/03	0.16 *U*	0.13 *U*		0.23 *U*	0.18 *U*	0.043 *U*	0.20 *U*	0.066 *U*	0.13 *U*	0.66 *U*	0.52	0.18 *U*
REFMOFFETT	10/03/03	0.17	0.12 *U*		0.21 *U*	0.17 *U*	0.039 *U*	0.18 *U*	0.061 *U*	0.12 *U*	0.61 *U*	0.64	0.17 *U*
REFMOFFETT	10/06/03	0.27	0.13 *U*		0.31	0.18 *U*	0.042 *U*	0.20 *U*	0.065 *U*	0.13 *U*	0.65 *U*	0.48	0.18 *U*
REFMVPUB	05/05/03	0.24	0.15 *U*		0.25 *U*	0.20 *U*	0.046 *U*	0.22 *U*	0.072 *U*	0.14 *U*	0.72 *U*	0.48	0.25
REFMVPUB	05/12/03	0.25	0.14 *U*		0.23 *U*	0.18 *U*	0.044 *U*	0.20 *U*	0.068 *U*	0.14 *U*	0.68 *U*	0.44	0.19 *U*
REFMVPUB	05/16/03	0.32 *U*	0.12 *U*		0.32 *U*	0.26 *U*	0.037 *U*	0.18 *U*	0.072 *U*	0.072 *U*	0.29 *U*	0.52	0.36 *U*
REFMVPUB	09/03/03	0.14	0.20 *U*	0.20 *U*	0.34 *U*	0.26 *U*	0.14 *U*	0.30 *U*	0.20 *U*	0.20 *U*		0.59	0.14
REFMVPUB	09/10/03	0.78	0.20 *U*	0.20 *U*	0.30	0.26 *U*	0.14 *U*	0.30 *U*	0.20 *U*	0.20 *U*		0.54	0.17
REFMVPUB	09/24/03	0.36	0.16 *U*		0.28 *U*	0.22 *U*	0.052 *U*	0.24 *U*	0.081 *U*	0.16 *U*	0.81 *U*	0.63	0.22 *U*
REFMVPUB	09/26/03	0.18	0.13 *U*		0.22 *U*	0.17 *U*	0.041 *U*	0.72	0.064 *U*	0.13 *U*	0.64 *U*	0.66	0.18 *U*
REFMVPUB	10/01/03	0.20	0.14 *U*		0.23 *U*	0.18 *U*	0.044 *U*	0.20 *U*	0.068 *U*	0.14 *U*	0.68 *U*	0.53	0.19 *U*
REFMVPUB	10/03/03	0.32	0.12 *U*		0.21 *U*	0.17 *U*	0.039 *U*	0.18 *U*	0.061 *U*	0.12 *U*	0.61 *U*	0.50	0.17 *U*
REFMVPUB	10/06/03	0.46	0.14 *U*		0.59	0.22	0.045 *U*	0.21 *U*	0.070 *U*	0.23	0.70 *U*	0.50	0.19 *U*
REFNEC	04/30/03			0.20 *U*	0.34 *U*	0.26 *U*	0.14 *U*		0.20 *U*	0.20 *U*			
REFNEC	05/01/03			0.20 *U*	0.34 *U*	0.26 *U*	0.14 *U*		0.20 *U*	0.20 *U*			
REFNEC	05/05/03	0.16 *U*	0.13 *U*		0.23 *U*	0.18 *U*	0.043 *U*	0.20 *U*	0.066 *U*	0.13 *U*	0.66 *U*	0.26 *U*	0.28
REFNEC	05/09/03	0.24 *U*	0.087 *U*		0.24 *U*	0.19 *U*	0.027 *U*	0.13 *U*	0.053 *U*	0.053 *U*	0.21 *U*	0.70	6.7
REFNEC	05/12/03	0.20	0.14 *U*		0.23 *U*	0.18 *U*	0.044 *U*	0.20 *U*	0.068 *U*	0.14 *U*	0.68 *U*	0.49	0.19 *U*
REFNEC	05/16/03	0.65	0.089 *U*		0.73 *U*	0.19 *U*	0.028 *U*	0.13 *U*	0.16 *U*	0.054 *U*	0.22 *U*	0.71	22
REFNEC	09/24/03	0.16 *U*	0.13 *U*		0.23 *U*	0.18 *U*	0.043 *U*	0.20 *U*	0.066 *U*	0.13 *U*	0.66 *U*	0.55	0.18 *U*
REFNEC	10/01/03	0.16 *U*	0.13 *U*		0.22 *U*	0.18 *U*	0.042 *U*	0.20 *U*	0.065 *U*	0.13 *U*	0.65 *U*	0.55	0.18 *U*
REFNEC	10/03/03	0.20	0.13 *U*		0.22 *U*	0.18 *U*	0.042 *U*	0.20 *U*	0.065 *U*	0.13 *U*	0.65 *U*	0.48	0.18 *U*
REFNEC	10/06/03	0.31	0.13 *U*		0.37	0.17 *U*	0.041 *U*	0.51	0.064 *U*	0.13 *U*	0.64 *U*	0.47	0.18 *U*
REFOFFICE	04/30/03			0.20 *U*	0.34 *U*	0.26 *U*	0.14 *U*		0.20 *U*	0.20 *U*			
REFOFFICE	05/01/03			0.20 *U*	0.34 *U*	0.26 *U*	0.14 *U*		0.20 *U*	0.20 *U*			

Table C-2. (Cont.)

Location	Date	Chloroform	1,1-DCA	1,2-DCA	PCE	TCE	VC	1,2-DCB	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Freon 113	1,1,1-TCA
REFOFFICE	05/05/03	0.16 *U*	0.13 *U*		0.22 *U*	0.18 *U*	0.042 *U*	0.20 *U*	0.065 *U*	0.13 *U*	0.65 *U*	0.75	0.29
REFOFFICE	05/09/03	0.12 *U*	0.043 *U*		0.12 *U*	0.093 *U*	0.014 *U*	0.064 *U*	0.026 *U*	0.026 *U*	0.11 *U*	0.57	0.13 *U*
REFOFFICE	05/12/03	0.21 *U*	0.17 *U*		0.29 *U*	0.23 *U*	0.055 *U*	0.26 *U*	0.085 *U*	0.17 *U*	0.85 *U*	0.46	0.24 *U*
REFOFFICE	05/16/03	0.24 *U*	0.090 *U*		0.24 *U*	0.19 *U*	0.028 *U*	0.13 *U*	0.055 *U*	0.055 *U*	0.22 *U*	0.64	0.27 *U*
REFOFFICE	09/03/03	0.24 *U*	0.20 *U*	0.20 *U*	0.34 *U*	0.26 *U*	0.14 *U*	0.30 *U*	0.20 *U*	0.20 *U*		0.54	0.28 *U*
REFOFFICE	09/10/03	0.49	0.20 *U*	0.20 *U*	0.35	0.26 *U*	0.14 *U*	0.30 *U*	0.20 *U*	0.20 *U*		62	0.18
REFOFFICE	09/24/03	0.18	0.11 *U*		0.19 *U*	0.15 *U*	0.036 *U*	0.17 *U*	0.056 *U*	0.11 *U*	0.56 *U*	0.60	0.18
REFOFFICE	09/26/03	0.15 *U*	0.12 *U*		0.21 *U*	0.17 *U*	0.039 *U*	0.18 *U*	0.061 *U*	0.12 *U*	0.61 *U*	0.45	0.17 *U*
REFOFFICE	10/01/03	0.16 *U*	0.13 *U*		0.22 *U*	0.18 *U*	0.042 *U*	0.20 *U*	0.065 *U*	0.13 *U*	0.65 *U*	0.55	0.18 *U*
REFOFFICE	10/03/03	0.20	0.13 *U*		0.21 *U*	0.50	0.040 *U*	0.19 *U*	0.062 *U*	0.12 *U*	0.62 *U*	0.43	0.17 *U*
REFOFFICE	10/06/03	0.29	0.13 *U*		0.44	0.17 *U*	0.041 *U*	0.19 *U*	0.065	0.15	0.64 *U*	0.48	0.18 *U*
REFRES	04/30/03			0.20 *U*	0.18	0.26 *U*	0.14 *U*		0.20 *U*	0.20 *U*			
REFRES	05/01/03			0.20 *U*	0.34 *U*	0.26 *U*	0.14 *U*		0.20 *U*	0.20 *U*			
REFRES	05/05/03	0.19	0.13 *U*		0.23 *U*	0.18 *U*	0.043 *U*	0.20 *U*	0.066 *U*	0.13 *U*	0.66 *U*	0.80	0.73
REFRES	05/09/03	0.25 *U*	0.091 *U*		0.25 *U*	0.20 *U*	0.029 *U*	0.14 *U*	0.056 *U*	0.056 *U*	0.22 *U*	0.83	2.9
REFRES	05/12/03	0.28	0.13 *U*		0.22 *U*	0.18 *U*	0.042 *U*	0.20 *U*	0.065 *U*	0.13 *U*	0.65 *U*	0.25 *U*	0.36
REFRES	05/16/03	0.30 *U*	0.11 *U*		0.30 *U*	0.23 *U*	0.034 *U*	0.16 *U*	0.067 *U*	0.067 *U*	0.27 *U*	0.58	3.3
REFRES	09/03/03	0.26 *U*	0.20 *U*	0.20 *U*	0.34 *U*	0.26 *U*	0.14 *U*	0.30 *U*	0.20 *U*	0.20 *U*		0.39	0.28 *U*
REFRES	09/10/03	0.59	0.20 *U*	0.20 *U*	0.34	0.26 *U*	0.14 *U*	0.30 *U*	0.20 *U*	0.20 *U*		0.60	0.18
REFRES	09/26/03	0.16 *U*	0.13 *U*		0.23 *U*	0.18 *U*	0.043 *U*	0.20 *U*	0.066 *U*	0.13 *U*	0.66 *U*	0.50	0.18 *U*
REFRES	10/01/03	0.26	0.13 *U*		0.21 *U*	0.17 *U*	0.040 *U*	0.19 *U*	0.062 *U*	0.12 *U*	0.62 *U*	0.53	0.17 *U*
REFRES	10/06/03	0.70	0.12 *U*		6.6	0.16 *U*	0.039 *U*	0.18 *U*	0.060 *U*	0.12 *U*	0.60 *U*	0.46	0.16 *U*
REFSLATER	04/30/03			0.20 *U*	0.34 *U*	0.26 *U*	0.14 *U*		0.20 *U*	0.20 *U*			
REFSLATER	05/01/03			0.20 *U*	0.34 *U*	0.15	0.14 *U*		0.20 *U*	0.20 *U*			
REFSLATER	05/05/03	0.17 *U*	0.14 *U*		0.23 *U*	0.18 *U*	0.044 *U*	0.20 *U*	0.068 *U*	0.14 *U*	0.68 *U*	0.75	0.28
REFSLATER	05/09/03	0.15 *U*	0.056 *U*		0.46 *U*	0.12 *U*	0.018 *U*	0.083 *U*	0.034 *U*	0.034 *U*	0.14 *U*	0.62	0.17 *U*
REFSLATER	05/12/03	0.21	0.15 *U*		0.26 *U*	0.20 *U*	0.048 *U*	0.23 *U*	0.075 *U*	0.15 *U*	0.75 *U*	0.48	0.21 *U*
REFSLATER	05/16/03	0.21 *U*	0.24 *U*		0.65 *U*	0.51 *U*	0.075 *U*	0.35 *U*	0.15 *U*	0.15 *U*	0.58 *U*	0.34 *U*	0.24 *U*
REFSLATER	09/03/03	0.24 *U*	4.0 *U*	0.20 *U*	0.34 *U*	0.26 *U*	0.14 *U*	0.30 *U*	0.20 *U*	0.20 *U*		0.49	0.28 *U*
REFSLATER	09/10/03	0.54	0.20 *U*	0.20 *U*	0.48	0.26 *U*	0.14 *U*	0.30 *U*	0.20 *U*	0.20 *U*		0.60	0.18
REFSLATER	09/24/03	0.30	0.12 *U*		0.48	0.20	0.039 *U*	0.18 *U*	0.061 *U*	0.12 *U*	0.61 *U*	0.56	0.19
REFSLATER	09/26/03	0.49	0.12 *U*		0.25	0.16 *U*	0.039 *U*	0.18 *U*	0.060 *U*	0.12 *U*	0.60 *U*	0.46	0.16 *U*
REFSLATER	10/01/03	0.17	0.14 *U*		0.24 *U*	0.19 *U*	0.044 *U*	0.21 *U*	0.069 *U*	0.14 *U*	0.69 *U*	0.53	0.19 *U*
REFSLATER	10/03/03	0.24	0.13 *U*		0.23 *U*	0.18 *U*	0.043 *U*	0.20 *U*	0.066 *U*	0.13 *U*	0.66 *U*	0.40	0.18 *U*
REFSLATER	03/11/04	0.28	0.10 *U*		0.28	0.14 *U*	0.070 *U*	0.15 *U*	0.10 *U*	0.10 *U*		0.56	0.15
REFSLATER	03/30/04	0.16	0.10 *U*		0.17 *U*	0.14 *U*	0.070 *U*	0.15 *U*	0.10 *U*	0.10 *U*		0.54	0.14 *U*
REFSLATER	08/10/04	0.15	0.20 *U*		0.34 *U*	0.27 *U*	0.13 *U*	0.30 *U*	0.20 *U*	0.20 *U*		0.58	0.27 *U*
REFSLATER	12/08/04	0.24 *U*	0.20 *U*	0.20 *U*	0.28	0.27 *U*	0.13 *U*	0.30 *U*	0.20 *U*	0.20 *U*		0.34	0.27 *U*
REFSLATER	09/26/06	0.83 *U*	0.69 *U*	0.69 *U*	1.2 *U*	0.91 *U*	0.43 *U*	1.0 *U*	0.67 *U*	0.67 *U*		0.69	0.93 *U*
REFVERNON	04/30/03			0.20 *U*	0.17	0.26 *U*	0.14 *U*		0.20 *U*	0.20 *U*			
REFVERNON	05/01/03			0.20 *U*	0.34 *U*	0.26 *U*	0.14 *U*		0.20 *U*	0.20 *U*			
REFVERNON	05/05/03	0.19	0.14 *U*		0.23 *U*	0.18 *U*	0.044 *U*	0.20 *U*	0.068 *U*	0.14 *U*	0.68 *U*	0.79	0.30
REFVERNON	05/09/03	0.28 *U*	0.10 *U*		0.28 *U*	0.22 *U*	0.033 *U*	0.15 *U*	0.063 *U*	0.063 *U*	0.25 *U*	0.57	0.31 *U*
REFVERNON	09/03/03	0.26 *U*	0.20 *U*	0.20 *U*	0.34 *U*	0.26 *U*	0.14 *U*	0.30 *U*	0.20 *U*	0.20 *U*		0.55	0.28 *U*
REFVERNON	09/10/03	0.49	0.20 *U*	0.20 *U*	0.34	0.26 *U*	0.14 *U*	0.30 *U*	0.20 *U*	0.20 *U*		0.56	0.16
REFVERNON	09/24/03	0.20	0.12 *U*		0.20 *U*	0.16 *U*	0.038 *U*	0.18 *U*	0.059 *U*	0.12 *U*	0.59 *U*	0.54	0.17
REFVERNON	09/26/03	0.19	0.13 *U*		0.23 *U*	0.18 *U*	0.043 *U*	0.20 *U*	0.066 *U*	0.13 *U*	0.66 *U*	0.49	0.18 *U*

Table C-2. (Cont.)

Location	Date	Chloroform	1,1-DCA	1,2-DCA	PCE	TCE	VC	1,2-DCB	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Freon 113	1,1,1-TCA
REFVERNON	10/01/03	0.17	0.13 *U*		0.22 *U*	0.17 *U*	0.041 *U*	0.19 *U*	0.064 *U*	0.13 *U*	0.64 *U*	0.54	0.18 *U*
REFVERNON	10/03/03	0.28	0.13 *U*		0.22 *U*	0.17 *U*	0.041 *U*	0.19 *U*	0.064 *U*	0.13 *U*	0.64 *U*	0.64	0.18 *U*
REFVERNON	10/06/03	0.45	0.13 *U*		0.93	0.18 *U*	0.043 *U*	0.20 *U*	0.066 *U*	0.13 *U*	0.66 *U*	0.46	0.18 *U*
REFWESCOAT	04/30/03			0.20 *U*	0.34 *U*	0.26 *U*	0.14 *U*		0.20 *U*	0.20 *U*			
REFWESCOAT	05/01/03			0.20 *U*	0.34 *U*	0.26 *U*	0.14 *U*		0.20 *U*	0.20 *U*			
REFWESCOAT	05/09/03	0.26 *U*	0.096 *U*		0.78 *U*	0.21 *U*	0.030 *U*	0.14 *U*	0.059 *U*	0.059 *U*	0.23 *U*	0.45	0.29 *U*
REFWESCOAT	05/12/03	0.23	0.14 *U*		0.24 *U*	0.19 *U*	0.044 *U*	0.21 *U*	0.069 *U*	0.14 *U*	0.69 *U*	0.52	0.19 *U*
REFWESCOAT	05/16/03	0.24 *U*	0.090 *U*		0.24 *U*	0.19 *U*	0.028 *U*	0.13 *U*	0.055 *U*	0.055 *U*	0.22 *U*	0.47	0.27 *U*
REFWESCOAT	09/03/03	0.24 *U*	0.20 *U*	0.20 *U*	0.34 *U*	0.26 *U*	0.14 *U*	0.30 *U*	0.20 *U*	0.20 *U*		0.54	0.28 *U*
REFWESCOAT	09/10/03	0.43	0.20 *U*	0.20 *U*	0.30	0.26 *U*	0.14 *U*	0.30 *U*	0.20 *U*	0.20 *U*		0.55	0.16
REFWESCOAT	09/24/03	0.23	0.12 *U*		0.19 *U*	0.15 *U*	0.037 *U*	0.17 *U*	0.057 *U*	0.11 *U*	0.57 *U*	0.54	0.16
REFWESCOAT	09/26/03	0.16 *U*	0.13 *U*		0.22 *U*	0.17 *U*	0.041 *U*	0.19 *U*	0.064 *U*	0.13 *U*	0.64 *U*	0.67	0.18 *U*
REFWESCOAT	10/01/03	0.16	0.13 *U*		0.22 *U*	0.23	0.041 *U*	7.5	0.064 *U*	0.13 *U*	0.64 *U*	0.55	0.18 *U*
REFWESCOAT	10/03/03	0.19	0.13 *U*		0.21 *U*	0.17 *U*	0.040 *U*	0.19 *U*	0.062 *U*	0.12 *U*	0.62 *U*	0.44	0.17 *U*
REFWESCOAT	10/06/03	0.32	0.13 *U*		0.59	9.9	0.043 *U*	0.20 *U*	0.066 *U*	0.68	0.66 *U*	0.43	0.18 *U*
REFWESCOAT	11/10/03	0.25	0.17 *U*		0.45	0.22 *U*	0.054 *U*	0.25 *U*	0.083 *U*	0.17 *U*	0.83 *U*	0.61	0.23 *U*
REFWESCOAT	11/11/03	0.43	0.15 *U*		0.41	0.22	0.048 *U*	0.22 *U*	0.074 *U*	0.15 *U*	0.74 *U*	0.64	0.20 *U*
REFWHISMAN	04/30/03			0.20 *U*	0.34 *U*	0.26 *U*	0.14 *U*		0.20 *U*	0.20 *U*			
REFWHISMAN	05/01/03			0.20 *U*	0.34 *U*	0.26 *U*	0.14 *U*		0.20 *U*	0.20 *U*			
REFWHISMAN	05/05/03	0.22 *U*	0.18 *U*		0.31 *U*	0.24 *U*	0.058 *U*	0.27 *U*	0.090 *U*	0.18 *U*	0.90 *U*	0.52	0.27
REFWHISMAN	05/09/03	0.25 *U*	0.091 *U*		0.74 *U*	0.20 *U*	0.029 *U*	0.14 *U*	0.056 *U*	0.056 *U*	0.22 *U*	0.52	0.28 *U*
REFWHISMAN	05/12/03	0.26	0.14 *U*		0.24 *U*	0.19 *U*	0.044 *U*	0.21 *U*	0.069 *U*	0.14 *U*	0.69 *U*	0.47	0.19 *U*
REFWHISMAN	05/16/03	0.15 *U*	0.056 *U*		0.15 *U*	0.12 *U*	0.018 *U*	0.082 *U*	0.034 *U*	0.034 *U*	0.14 *U*	0.43	0.17 *U*
REFWHISMAN	09/03/03	0.16	0.20 *U*	0.20 *U*	0.34 *U*	0.26 *U*	0.14 *U*	0.30 *U*	0.20 *U*	0.20 *U*		0.59	0.14
REFWHISMAN	09/10/03	0.88	0.20 *U*	0.20 *U*	0.43	0.26 *U*	0.14 *U*	0.30 *U*	0.20 *U*	0.20 *U*		0.55	0.16
REFWHISMAN	09/24/03	0.36	0.16 *U*		0.28 *U*	0.22 *U*	0.052 *U*	0.24 *U*	0.081 *U*	0.16 *U*	0.81 *U*	0.53	0.22 *U*
REFWHISMAN	09/26/03	0.16	0.13 *U*		0.21 *U*	0.17 *U*	0.040 *U*	0.19 *U*	0.062 *U*	0.12 *U*	0.62 *U*	0.63	0.17 *U*
REFWHISMAN	10/01/03	0.28	0.13 *U*		0.21 *U*	0.17 *U*	0.040 *U*	0.19 *U*	0.062 *U*	0.12 *U*	0.62 *U*	0.56	0.17 *U*
REFWHISMAN	10/03/03	0.29	0.13 *U*		0.22 *U*	0.18 *U*	0.042 *U*	0.20 *U*	0.065 *U*	0.13 *U*	0.65 *U*	0.45	0.18 *U*
REFWHISMAN	10/06/03	0.55	0.13 *U*		0.41	0.54	0.042 *U*	0.20 *U*	0.065 *U*	0.13 *U*	0.65 *U*	0.69	0.18 *U*
REFWHISMAN	03/11/04	0.28	0.10 *U*		0.30	0.14 *U*	0.070 *U*	0.15 *U*	0.10 *U*	0.10 *U*		0.56	0.15
REFWHISMAN	03/30/04	0.14	0.10 *U*		0.17 *U*	0.14 *U*	0.070 *U*	0.15 *U*	0.10 *U*	0.10 *U*		0.14	0.14 *U*
REFWHISMAN	08/10/04	0.22	0.20 *U*		0.34 *U*	0.27 *U*	0.13 *U*	0.30 *U*	0.20 *U*	0.20 *U*		0.59	0.14
REFWHISMAN	12/08/04	0.24 *U*	0.20 *U*	0.20 *U*	0.24	0.27 *U*	0.13 *U*	0.30 *U*	0.20 *U*	0.20 *U*		0.37	0.27 *U*
SANVERON	05/06/03	0.22 *U*	0.18 *U*		0.30 *U*	0.24 *U*	0.056 *U*	0.26 *U*	0.087 *U*	0.17 *U*	0.87 *U*	0.70	0.24 *U*
SANVERON	05/10/03	0.24 *U*	0.090 *U*		0.25 *U*	0.19 *U*	0.029 *U*	0.13 *U*	0.055 *U*	0.055 *U*	0.22 *U*	0.50	3.1
SANVERON	05/13/03	0.31	0.13 *U*		0.23 *U*	0.18 *U*	0.043 *U*	0.20 *U*	0.066 *U*	0.13 *U*	0.66 *U*	0.26 *U*	0.26
SANVERON	05/17/03	0.23 *U*	0.086 *U*		0.23 *U*	0.18 *U*	0.027 *U*	0.13 *U*	0.052 *U*	0.052 *U*	0.21 *U*	0.62	0.26 *U*
SANVERON	09/27/03	2.0	2.2		0.23 *U*	0.35	0.34	0.20 *U*	0.16	0.23	0.66 *U*	0.43	0.18 *U*
SANVERON	10/02/03	0.17 *U*	0.14 *U*		0.24 *U*	0.19 *U*	0.045 *U*	0.21 *U*	0.070 *U*	0.14 *U*	0.70 *U*	0.60	0.19 *U*
SANVERON	10/04/03	0.19	0.14 *U*		0.23 *U*	0.18 *U*	0.044 *U*	0.20 *U*	0.068 *U*	0.14 *U*	0.68 *U*	0.44	0.19 *U*
SANVERON	10/07/03	0.28	0.15 *U*		0.64	0.20 *U*	0.046 *U*	0.22 *U*	0.072 *U*	0.14 *U*	0.72 *U*	0.50	0.20 *U*
SYLVAN	05/06/03	0.16 *U*	0.13 *U*		0.22 *U*	0.18 *U*	0.042 *U*	0.20 *U*	0.065 *U*	0.13 *U*	0.65 *U*	0.29	0.27
SYLVAN	05/10/03	0.080 *U*	0.089 *U*		0.78	0.19 *U*	0.028 *U*	0.13 *U*	0.054 *U*	0.054 *U*	0.22 *U*	0.52	0.27 *U*
SYLVAN	05/13/03	0.19	0.13 *U*		0.23 *U*	0.18 *U*	0.043 *U*	0.20 *U*	0.066 *U*	0.13 *U*	0.66 *U*	0.52	0.18 *U*
SYLVAN	05/17/03	0.60 *U*	0.22 *U*		0.60 *U*	0.48 *U*	0.070 *U*	0.33 *U*	0.14 *U*	0.14 *U*	0.54 *U*	0.94 *U*	0.67 *U*
SYLVAN	06/09/03	0.32 *U*	0.26 *U*		0.44 *U*	0.60	0.084 *U*	0.39 *U*	0.13 *U*	0.26 *U*	1.3 *U*	0.50 *U*	0.36 *U*

Table C-2. (Cont.)

Location	Date	Chloroform	1,1-DCA	1,2-DCA	PCE	TCE	VC	1,2-DCB	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Freon 113	1,1,1-TCA
SYLVAN	09/27/03	0.16 *U*	0.13 *U*		0.22 *U*	0.18 *U*	0.042 *U*	0.20 *U*	0.065 *U*	0.13 *U*	0.65 *U*	0.68	0.18 *U*
SYLVAN	10/02/03	0.16 *U*	0.13 *U*		2.2	0.18 *U*	0.043 *U*	0.20 *U*	0.066 *U*	0.13 *U*	0.66 *U*	0.59	0.18 *U*
SYLVAN	10/04/03	0.17 *U*	0.14 *U*		0.25	0.19 *U*	0.044 *U*	0.21 *U*	0.069 *U*	0.14 *U*	0.69 *U*	0.65	0.19 *U*
SYLVAN	10/07/03	0.26	0.14 *U*		0.84	0.18 *U*	0.044 *U*	0.20 *U*	0.068 *U*	0.14 *U*	0.68 *U*	0.49	0.19 *U*
Whisman Park - Mtn.View	05/21/04	0.098 *U*		0.40 *U*	1.4	0.27 *U*	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	06/02/04	0.098 *U*		0.40 *U*	0.068 *U*	0.27 *U*	0.77 *U*					0.46	0.27
Whisman Park - Mtn.View	06/22/04	0.24		0.40 *U*	0.14	0.27 *U*	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	06/26/04	0.098 *U*		0.40 *U*	0.068 *U*	0.27	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	07/08/04	0.098 *U*		0.40 *U*	0.068 *U*	0.32	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	07/20/04	0.098 *U*		0.40 *U*	0.068 *U*	0.27	0.77 *U*					0.38	0.27 *U*
Whisman Park - Mtn.View	08/01/04	0.098 *U*		0.40 *U*	0.068 *U*	0.27 *U*	0.77 *U*					0.54	0.27 *U*
Whisman Park - Mtn.View	08/13/04	0.098 *U*		0.40 *U*	0.14	0.27 *U*	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	09/06/04	0.20		0.40 *U*	0.20	0.27 *U*	0.77 *U*					0.54	0.27 *U*
Whisman Park - Mtn.View	09/24/04	0.20		0.40 *U*	0.47	0.27	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	09/28/04	0.098 *U*		0.40 *U*	0.068 *U*	0.27 *U*	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	09/30/04	0.098 *U*		0.40 *U*	0.068 *U*	0.27 *U*	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	10/12/04	0.20		0.40 *U*	0.54	0.32	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	10/24/04	0.098 *U*		0.40 *U*	0.14	0.27 *U*	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	11/05/04	0.098 *U*		0.40 *U*	0.54	0.54	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	11/17/04	0.15		0.40 *U*	0.47	0.27 *U*	0.77 *U*					0.61	0.27 *U*
Whisman Park - Mtn.View	11/29/04	0.098 *U*		0.40 *U*	0.20	0.27 *U*	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	12/11/04	0.15		0.40 *U*	0.27	0.27 *U*	0.77 *U*					0.61	0.27 *U*
Whisman Park - Mtn.View	12/23/04	0.098 *U*		0.40 *U*	0.14	0.27 *U*	0.77 *U*					0.61	0.27 *U*
Whisman Park - Mtn.View	01/04/05	0.098 *U*		0.40 *U*	1.0	0.27 *U*	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	01/16/05	0.098 *U*		0.40 *U*	0.14	0.27 *U*	0.77 *U*					0.54	0.27 *U*
Whisman Park - Mtn.View	01/28/05	0.098 *U*		0.40 *U*	0.14	0.27 *U*	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	02/11/05	0.20		0.40 *U*	0.68	0.27 *U*	0.77 *U*					0.54	0.27 *U*
Whisman Park - Mtn.View	02/21/05	0.098 *U*		0.40 *U*	0.14	0.27 *U*	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	03/05/05	0.24		0.40 *U*	0.14	0.27 *U*	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	04/03/05	0.098 *U*		0.40 *U*	0.068 *U*	0.27 *U*	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	04/10/05	0.15		0.40 *U*	0.20	0.27 *U*	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	04/16/05	0.098 *U*		0.40 *U*	0.068 *U*	0.27 *U*	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	04/22/05	0.20		0.40 *U*	0.34	0.27 *U*	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	05/12/05	0.15		0.40 *U*	0.14	0.27 *U*	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	05/16/05	0.098 *U*		0.40 *U*	0.068 *U*	0.27 *U*	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	05/28/05	0.15		0.40 *U*	0.068 *U*	0.27 *U*	0.77 *U*					0.38	0.27 *U*
Whisman Park - Mtn.View	06/09/05	0.098 *U*		0.40 *U*	0.068 *U*	0.27 *U*	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	06/21/05	0.098 *U*		0.40 *U*	0.068 *U*	0.27 *U*	0.77 *U*					0.38	0.27 *U*
Whisman Park - Mtn.View	07/03/05	0.098 *U*		0.40 *U*	0.068 *U*	0.27 *U*	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	07/15/05	0.098 *U*		0.40 *U*	0.14	0.27 *U*	0.77 *U*					0.38	0.27 *U*
Whisman Park - Mtn.View	07/27/05	0.098 *U*		0.40 *U*	0.14	0.27 *U*	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	08/08/05	0.098 *U*		0.40 *U*	0.14	0.27 *U*	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	08/20/05	0.098 *U*		0.40 *U*	0.068 *U*	0.27 *U*	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	09/01/05	0.098 *U*		0.40 *U*	0.14	0.27 *U*	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	09/13/05	0.098 *U*		0.40 *U*	0.068 *U*	0.27 *U*	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	09/25/05	0.098 *U*		0.40 *U*	0.41	0.27 *U*	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	10/07/05	0.098 *U*		0.40 *U*	0.14	0.27 *U*	0.77 *U*					0.46	0.27 *U*

Table C-2. (Cont.)

Location	Date	Chloroform	1,1-DCA	1,2-DCA	PCE	TCE	VC	1,2-DCB	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Freon 113	1,1,1-TCA
Whisman Park - Mtn.View	10/19/05	0.098 *U*		0.40 *U*	0.068 *U*	0.27 *U*	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	10/31/05	0.15		0.40 *U*	0.61	0.27 *U*	0.77 *U*					0.46	0.27 *U*
Whisman Park - Mtn.View	11/16/05	0.15		0.40 *U*	0.75	0.27 *U*	0.77 *U*					0.54	0.27 *U*
Whisman Park - Mtn.View	11/30/05	0.15		0.40 *U*	0.54	0.27 *U*	0.77 *U*					0.54	0.27 *U*
Whisman Park - Mtn.View	12/06/05	0.15		0.40 *U*	0.75	0.27 *U*	0.77 *U*					0.54	0.27 *U*
Whisman Park - Mtn.View	12/18/05	0.098 *U*		0.40 *U*	0.068 *U*	0.27 *U*	0.77 *U*					0.54	0.27 *U*
Whisman Park - Mtn.View	12/30/05	0.098 *U*		0.40 *U*	0.14	0.27 *U*	0.77 *U*					0.54	0.27 *U*

Note: Concentrations are reported in $\mu g/m^3$ and were averaged for all locations measured on each date.

Table C-3. Daily average concentrations at background and reference locations

Date	Chloroform	1,1-DCA	1,2-DCA	PCE	TCE	VC	1,2-DCB	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Freon 113	1,1,1-TCA
04/30/03			0.20 *U*	0.17	0.26 *U*	0.14 *U*		0.20 *U*	0.20 *U*			
05/01/03			0.20 *U*	0.34 *U*	0.13	0.14 *U*		0.20 *U*	0.20 *U*			
05/05/03	0.13	0.13 *U*		0.22 *U*	0.18 *U*	0.042 *U*	0.20 *U*	0.065 *U*	0.13 *U*	0.65 *U*	0.62	0.33
05/06/03	0.16 *U*	0.13 *U*		0.22 *U*	0.18 *U*	0.042 *U*	0.20 *U*	0.065 *U*	0.13 *U*	0.65 *U*	0.41	0.24
05/09/03	0.12 *U*	0.043 *U*		0.12 *U*	0.093 *U*	0.014 *U*	0.064 *U*	0.026 *U*	0.026 *U*	0.11 *U*	0.61	1.3
05/10/03	0.080 *U*	0.043 *U*		0.33	0.093 *U*	0.014 *U*	0.064 *U*	0.026 *U*	0.026 *U*	0.11 *U*	0.58	0.87
05/12/03	0.22	0.13 *U*		0.14	0.18 *U*	0.042 *U*	0.20 *U*	0.065 *U*	0.13 *U*	0.65 *U*	0.39	0.16
05/13/03	0.21	0.13 *U*		0.15	0.18 *U*	0.043 *U*	0.20 *U*	0.066 *U*	0.13 *U*	0.66 *U*	0.41	0.14
05/16/03	0.18	0.043 *U*		0.12 *U*	0.092 *U*	0.014 *U*	0.064 *U*	0.026 *U*	0.026 *U*	0.11 *U*	0.50	3.3
05/17/03	0.17	0.042 *U*		0.12 *U*	0.091 *U*	0.013 *U*	0.063 *U*	0.026 *U*	0.026 *U*	0.10 *U*	0.53	0.69
06/09/03	0.32 *U*	0.26 *U*		0.44 *U*	0.60	0.084 *U*	0.39 *U*	0.13 *U*	0.26 *U*	1.3 *U*	0.50 *U*	0.36 *U*
06/30/03		0.083 *U*	0.029	0.15	0.24	0.020 *U*	0.28 *U*	0.041 *U*	0.019	0.057 *U*		0.21
07/02/03		0.085 *U*	0.034	0.11	0.43	0.021 *U*	0.28 *U*	0.042 *U*	0.016	0.058 *U*		0.18
07/08/03		0.085 *U*	0.036	0.078	0.30	0.021 *U*	0.28 *U*	0.041 *U*	0.012	0.058 *U*		0.26
07/11/03		0.085 *U*	0.037	0.078	0.26	0.021 *U*	0.28 *U*	0.042 *U*	0.058 *U*	0.058 *U*		0.19
07/16/03		0.084 *U*	0.029	0.15	0.16	0.021 *U*	0.28 *U*	0.041 *U*	0.022	0.058 *U*		0.18
07/17/03		0.083 *U*	0.036	0.15	0.45	0.020 *U*	0.28 *U*	0.041 *U*	0.013	0.057 *U*		0.18
07/23/03		0.084 *U*	0.042	0.12	0.35	0.021 *U*	0.28 *U*	0.041 *U*	0.058 *U*	0.058 *U*		0.50
07/24/03		0.084 *U*	0.036	0.11	0.44	0.021 *U*	0.28 *U*	0.041 *U*	0.057 *U*	0.057 *U*		0.19
07/29/03		0.084 *U*	0.031	0.099	0.038	0.021 *U*	0.28 *U*	0.041 *U*	0.058 *U*	0.058 *U*		0.19
08/01/03		0.084 *U*	0.032	0.47	0.10	0.021 *U*	0.28 *U*	0.016	0.058 *U*	0.058 *U*		0.14
08/04/03		0.084 *U*	0.016	0.11	0.031	0.021 *U*	0.28 *U*	0.041 *U*	0.058 *U*	0.058 *U*		0.12
08/07/03		0.084 *U*	0.026	0.18	0.35	0.021 *U*	0.28 *U*	0.041 *U*	0.018	0.058 *U*		0.19
08/13/03		0.084 *U*	0.027	0.10	0.15	0.021 *U*	0.28 *U*	0.041 *U*	0.058 *U*	0.058 *U*		0.18
08/15/03		0.084 *U*	0.029	0.15	0.062	0.021 *U*	0.28 *U*	0.041 *U*	0.021	0.058 *U*		0.20
08/19/03		0.084 *U*	0.024	0.13	0.056	0.021 *U*	0.28 *U*	0.041 *U*	0.057 *U*	0.057 *U*		0.18
08/21/03		0.084 *U*	0.023	0.084	0.032	0.021 *U*	0.28 *U*	0.041 *U*	0.057 *U*	0.057 *U*		0.17
08/25/03		0.082 *U*	0.020	0.090	0.051	0.020 *U*	0.27 *U*	0.040 *U*	0.056 *U*	0.056 *U*		0.11
08/28/03		0.085 *U*	0.020	0.078	0.13	0.021 *U*	0.28 *U*	0.041 *U*	0.058 *U*	0.058 *U*		0.16
09/02/03		0.084 *U*	0.022	0.084	0.12	0.021 *U*	0.28 *U*	0.041 *U*	0.057 *U*	0.057 *U*		0.11
09/03/03	0.13	0.20 *U*	0.20 *U*	0.34 *U*	0.26 *U*	0.14 *U*	0.30 *U*	0.20 *U*	0.20 *U*		0.53	0.14
09/04/03		0.084 *U*	0.021	0.11	0.16	0.021 *U*	0.28 *U*	0.041 *U*	0.036	0.058 *U*		0.12
09/10/03	0.57	0.084 *U*	0.092	0.33	0.16	0.021 *U*	0.28 *U*	0.041 *U*	0.094	0.058 *U*	8.2	0.17
09/15/03		0.084 *U*	0.032	0.20	6.7	0.021 *U*	0.28 *U*	0.041 *U*	0.058 *U*	0.058 *U*		0.16
09/17/03		0.084 *U*	0.028	0.23	4.9	0.021 *U*	0.28 *U*	0.041 *U*	0.062	0.057 *U*		0.20
09/23/03		0.083 *U*	0.025	0.098	5.5	0.021 *U*	0.28 *U*	0.041 *U*	0.057 *U*	0.057 *U*		0.15
09/24/03	0.22	0.11 *U*		0.16	0.10	0.036 *U*	0.17 *U*	0.056 *U*	0.11 *U*	0.56 *U*	0.56	0.14
09/26/03	0.17	0.085 *U*	0.026	0.12	0.086	0.021 *U*	0.17	0.041 *U*	0.058 *U*	0.058 *U*	0.57	0.096
09/27/03	0.56	0.60		0.22 *U*	0.16	0.10	0.20 *U*	0.065	0.11	0.65 *U*	0.57	0.18 *U*
10/01/03	0.16	0.13 *U*		0.21 *U*	0.10	0.040 *U*	0.92	0.062 *U*	0.12 *U*	0.62 *U*	0.54	0.17 *U*
10/02/03	0.16 *U*	0.13 *U*		0.64	0.18 *U*	0.043 *U*	0.20 *U*	0.066 *U*	0.13 *U*	0.66 *U*	0.59	0.18 *U*
10/03/03	0.24	0.12 *U*		0.21 *U*	0.14	0.039 *U*	0.18 *U*	0.061 *U*	0.12 *U*	0.61 *U*	0.50	0.17 *U*
10/04/03	0.11	0.13 *U*		0.15	0.18 *U*	0.043 *U*	0.20 *U*	0.066 *U*	0.13 *U*	0.66 *U*	0.49	0.18 *U*
10/06/03	0.42	0.12 *U*		1.3	1.4	0.039 *U*	0.15	0.037	0.17	0.60 *U*	0.50	0.16 *U*
10/07/03	0.25	0.14 *U*		0.65	0.18 *U*	0.044 *U*	0.20 *U*	0.068 *U*	0.14 *U*	0.68 *U*	0.49	0.19 *U*
11/10/03	0.25	0.17 *U*		0.45	0.22 *U*	0.054 *U*	0.25 *U*	0.083 *U*	0.17 *U*	0.83 *U*	0.61	0.23 *U*
11/11/03	0.43	0.15 *U*		0.41	0.22	0.048 *U*	0.22 *U*	0.074 *U*	0.15 *U*	0.74 *U*	0.64	0.20 *U*

Table C-3. (Cont.)

Date	Chloroform	1,1-DCA	1,2-DCA	PCE	TCE	VC	1,2-DCB	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Freon 113	1,1,1-TCA
12/22/03		0.087 *U*	0.039	0.41	2.7	0.021 *U*	0.29 *U*	0.042 *U*	0.040	0.014		0.19
12/29/03		0.086 *U*	0.047	0.17	1.9	0.021 *U*	0.29 *U*	0.042 *U*	0.025	0.059 *U*		0.16
01/07/04		0.086 *U*	0.038	0.17	2.4	0.021 *U*	0.29 *U*	0.042 *U*	0.059 *U*	0.059 *U*		0.16
01/09/04		0.086 *U*	0.043	0.23	1.3	0.021 *U*	0.29 *U*	0.042 *U*	0.022	0.059 *U*		0.17
01/13/04		0.088 *U*	0.043	0.33	1.5	0.022 *U*	0.29 *U*	0.043 *U*	0.056	0.012		0.20
01/15/04		0.087 *U*	0.048	0.20	2.5	0.021 *U*	0.29 *U*	0.043 *U*	0.060 *U*	0.060 *U*		0.19
01/20/04		0.087 *U*	0.044	0.47	2.0	0.021 *U*	0.29 *U*	0.043 *U*	0.051	0.060 *U*		0.20
01/22/04		0.088 *U*	0.062	0.41	0.70	0.022 *U*	0.30 *U*	0.043 *U*	0.082	0.019		0.23
01/26/04		0.088 *U*	0.057	0.16	0.51	0.022 *U*	0.29 *U*	0.043 *U*	0.060 *U*	0.060 *U*		0.18
01/28/04		0.088 *U*	0.044 *U*	0.73	0.55	0.022 *U*	0.29 *U*	0.043 *U*	0.047	0.060 *U*		0.19
02/03/04		0.087 *U*	0.040	0.17	0.47	0.021 *U*	0.29 *U*	0.043 *U*	0.013	0.060 *U*		0.16
02/06/04		0.088 *U*	0.042	0.38	0.64	0.022 *U*	0.29 *U*	0.043 *U*	0.043	0.060 *U*		0.15
02/10/04		0.088 *U*	0.048	0.43	0.58	0.022 *U*	0.29 *U*	0.043 *U*	0.11	0.015		0.21
02/12/04		0.087 *U*	0.043	0.30	0.63	0.021 *U*	0.29 *U*	0.042 *U*	0.047	0.020		0.19
02/18/04		0.086 *U*	0.065	0.17	0.55	0.021 *U*	0.29 *U*	0.042 *U*	0.016	0.059 *U*		0.24
02/20/04		0.087 *U*	0.043	0.22	0.49	0.021 *U*	0.29 *U*	0.042 *U*	0.025	0.012		0.18
02/23/04		0.086 *U*	0.056	0.12	0.42	0.021 *U*	0.29 *U*	0.042 *U*	0.059 *U*	0.059 *U*		0.19
02/25/04		0.085 *U*	0.051	0.10	0.30	0.021 *U*	0.29 *U*	0.042 *U*	0.059 *U*	0.059 *U*		0.18
03/02/04		0.086 *U*	0.056	0.12	0.30	0.021 *U*	0.29 *U*	0.042 *U*	0.016	0.059 *U*		0.20
03/04/04		0.087 *U*	0.056	0.15	0.37	0.021 *U*	0.29 *U*	0.042 *U*	0.028	0.059 *U*		0.23
03/08/04		0.085 *U*	0.055	0.51	0.56	0.021 *U*	0.28 *U*	0.041 *U*	0.083	0.017		0.28
03/11/04	0.28	0.085 *U*	0.051	0.28	0.23	0.021 *U*	0.15 *U*	0.042 *U*	0.047	0.011	0.56	0.17
03/17/04		0.084 *U*	0.041	0.40	0.51	0.021 *U*	0.28 *U*	0.041 *U*	0.045	0.012		0.23
03/19/04		0.085 *U*	0.051	0.21	0.40	0.021 *U*	0.29 *U*	0.042 *U*	0.037	0.059 *U*		0.23
03/22/04		0.086 *U*	0.042	0.079	0.28	0.021 *U*	0.29 *U*	0.042 *U*	0.059 *U*	0.059 *U*		0.18
03/24/04		0.086 *U*	0.073	0.14	0.23	0.021 *U*	0.29 *U*	0.042 *U*	0.013	0.059 *U*		0.20
03/30/04	0.15	0.086 *U*	0.052	0.10	0.13	0.021 *U*	0.15 *U*	0.042 *U*	0.038	0.059 *U*	0.34	0.12
04/01/04		0.085 *U*	0.051	0.079	0.22	0.021 *U*	0.29 *U*	0.042 *U*	0.059 *U*	0.059 *U*		0.18
04/06/04		0.086 *U*	0.069	0.17	0.29	0.021 *U*	0.29 *U*	0.042 *U*	0.019	0.059 *U*		0.25
04/08/04		0.086 *U*	0.060	0.12	0.31	0.021 *U*	0.29 *U*	0.042 *U*	0.023	0.059 *U*		0.20
04/13/04		0.086 *U*	0.048	0.11	0.097	0.021 *U*	0.29 *U*	0.042 *U*	0.014	0.059 *U*		0.15
04/16/04		0.19	0.042	0.12	0.080	0.021 *U*	0.29 *U*	0.042 *U*	0.059	0.059 *U*		0.14
04/19/04		0.32	0.047	0.072 *U*	0.054	0.021 *U*	0.29 *U*	0.042 *U*	0.059 *U*	0.059 *U*		0.16
04/22/04		0.13	0.085 *U*	0.23	0.18	0.021 *U*	0.29 *U*	0.042 *U*	0.10	0.059 *U*		0.17
04/28/04		0.28	0.036	0.18	0.078	0.021 *U*	0.28 *U*	0.041 *U*	0.058 *U*	0.058 *U*		0.19
05/03/04		0.21	0.032	0.15	0.073	0.021 *U*	0.28 *U*	0.041 *U*	0.058 *U*	0.058 *U*		0.18
05/05/04		0.10	0.035	0.11	0.062	0.021 *U*	0.29 *U*	0.042 *U*	0.058 *U*	0.058 *U*		0.17
05/11/04		0.17	0.036	0.11	0.063	0.021 *U*	0.29 *U*	0.042 *U*	0.055	0.059 *U*		0.16
05/19/04		0.19	0.039	0.079	0.028	0.021 *U*	0.29 *U*	0.042 *U*	0.059 *U*	0.059 *U*		0.10
05/21/04	0.098 *U*		0.40 *U*	1.4	0.27 *U*	0.77 *U*					0.46	0.27 *U*
06/02/04	0.098 *U*	0.25	0.12	0.070	0.087	0.021 *U*	0.28 *U*	0.041 *U*	0.058 *U*	0.058 *U*	0.46	0.22
06/04/04		0.085	0.037	0.15	0.046	0.021 *U*	0.28 *U*	0.042 *U*	0.014	0.058 *U*		0.13
06/10/04		0.17	0.085 *U*	0.19	0.079	0.021 *U*	0.28 *U*	0.042 *U*	0.058 *U*	0.058 *U*		0.17
06/17/04		0.15	0.084 *U*	0.13	0.061	0.021 *U*	0.28 *U*	0.041 *U*	0.057 *U*	0.057 *U*		0.19
06/22/04	0.24		0.40 *U*	0.14	0.27 *U*	0.77 *U*					0.46	0.27 *U*
06/26/04	0.098 *U*		0.40 *U*	0.068 *U*	0.27	0.77 *U*					0.46	0.27 *U*
07/08/04	0.098 *U*		0.40 *U*	0.068 *U*	0.32	0.77 *U*					0.46	0.27 *U*

Table C-3. (Cont.)

Date	Chloroform	1,1-DCA	1,2-DCA	PCE	TCE	VC	1,2-DCB	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Freon 113	1,1,1-TCA
07/20/04	0.098 *U*		0.40 *U*	0.068 *U*	0.27	0.77 *U*					0.38	0.27 *U*
08/01/04	0.098 *U*		0.40 *U*	0.068 *U*	0.27 *U*	0.77 *U*					0.54	0.27 *U*
08/10/04	0.19	0.20 *U*		0.34 *U*	0.27 *U*	0.13 *U*	0.30 *U*	0.20 *U*	0.20 *U*		0.59	0.14
08/13/04	0.098 *U*		0.40 *U*	0.14	0.27 *U*	0.77 *U*					0.46	0.27 *U*
09/06/04	0.20		0.40 *U*	0.20	0.27 *U*	0.77 *U*					0.54	0.27 *U*
09/07/04			0.15 *U*	0.26	0.24	0.046 *U*			0.15 *U*			
09/09/04			0.15 *U*	0.26 *U*	0.051 *U*	0.050 *U*			0.15 *U*			
09/14/04			0.13 *U*	0.50	0.44	0.042 *U*			0.13 *U*			
09/16/04			0.14 *U*	0.23 *U*	0.23	0.042 *U*			0.13 *U*			
09/21/04			0.14 *U*	0.49	0.46	0.045 *U*			0.14 *U*			
09/23/04			0.14 *U*	0.42	0.54	0.042 *U*			0.13 *U*			
09/24/04	0.20		0.40 *U*	0.47	0.27	0.77 *U*					0.46	0.27 *U*
09/28/04	0.098 *U*		0.14 *U*	0.068 *U*	0.23	1.5			0.14 *U*		0.46	0.27 *U*
09/30/04	0.098 *U*		0.14 *U*	0.068 *U*	0.19	1.1			0.14 *U*		0.46	0.27 *U*
10/05/04			0.14 *U*	0.31	0.30	0.38			0.14 *U*			
10/07/04			0.14 *U*	0.24 *U*	0.28	0.32			0.14 *U*			
10/12/04	0.20		0.13 *U*	0.50	0.40	0.042 *U*			0.13 *U*		0.46	0.27 *U*
10/14/04			0.14 *U*	0.67	0.61	0.60			0.14 *U*			
10/19/04			0.13 *U*	0.21 *U*	0.18	0.32			0.12 *U*			
10/21/04			0.15 *U*	0.29	0.24	0.51			0.14 *U*			
10/24/04	0.098 *U*		0.40 *U*	0.14	0.27 *U*	0.77 *U*					0.46	0.27 *U*
10/26/04			0.13 *U*	0.26	0.24	0.043 *U*			0.13 *U*			
10/28/04			0.14 *U*	0.27	0.23	0.044 *U*			0.14 *U*			
11/05/04	0.098 *U*		0.40 *U*	0.54	0.54	0.77 *U*					0.46	0.27 *U*
11/17/04	0.15		0.40 *U*	0.47	0.27 *U*	0.77 *U*					0.61	0.27 *U*
11/29/04	0.098 *U*		0.40 *U*	0.20	0.27 *U*	0.77 *U*					0.46	0.27 *U*
12/08/04	0.24 *U*	0.20 *U*	0.20 *U*	0.26	0.27 *U*	0.13 *U*	0.30 *U*	0.20 *U*	0.20 *U*		0.36	0.27 *U*
12/11/04	0.15		0.40 *U*	0.27	0.27 *U*	0.77 *U*					0.61	0.27 *U*
12/23/04	0.098 *U*		0.40 *U*	0.14	0.27 *U*	0.77 *U*					0.61	0.27 *U*
01/04/05	0.098 *U*		0.40 *U*	1.0	0.27 *U*	0.77 *U*					0.46	0.27 *U*
01/16/05	0.098 *U*		0.40 *U*	0.14	0.27 *U*	0.77 *U*					0.54	0.27 *U*
01/28/05	0.098 *U*		0.40 *U*	0.14	0.27 *U*	0.77 *U*					0.46	0.27 *U*
02/11/05	0.20		0.40 *U*	0.68	0.27 *U*	0.77 *U*					0.54	0.27 *U*
02/21/05	0.098 *U*		0.40 *U*	0.14	0.27 *U*	0.77 *U*					0.46	0.27 *U*
03/05/05	0.24		0.40 *U*	0.14	0.27 *U*	0.77 *U*					0.46	0.27 *U*
04/03/05	0.098 *U*		0.40 *U*	0.068 *U*	0.27 *U*	0.77 *U*					0.46	0.27 *U*
04/10/05	0.15		0.40 *U*	0.20	0.27 *U*	0.77 *U*					0.46	0.27 *U*
04/16/05	0.098 *U*		0.40 *U*	0.068 *U*	0.27 *U*	0.77 *U*					0.46	0.27 *U*
04/22/05	0.20		0.40 *U*	0.34	0.27 *U*	0.77 *U*					0.46	0.27 *U*
05/12/05	0.15		0.40 *U*	0.14	0.27 *U*	0.77 *U*					0.46	0.27 *U*
05/16/05	0.098 *U*		0.40 *U*	0.068 *U*	0.27 *U*	0.77 *U*					0.46	0.27 *U*
05/28/05	0.15		0.40 *U*	0.068 *U*	0.27 *U*	0.77 *U*					0.38	0.27 *U*
06/09/05	0.098 *U*		0.40 *U*	0.068 *U*	0.27 *U*	0.77 *U*					0.46	0.27 *U*
06/21/05	0.098 *U*		0.40 *U*	0.068 *U*	0.27 *U*	0.77 *U*					0.38	0.27 *U*
07/03/05	0.098 *U*		0.40 *U*	0.068 *U*	0.27 *U*	0.77 *U*					0.46	0.27 *U*
07/12/05			0.15 *U*	0.25 *U*	0.049 *U*	0.048 *U*			0.14 *U*			
07/14/05			0.14 *U*	0.24 *U*	0.047 *U*	0.045 *U*			0.14 *U*			

Table C-3. (Cont.)

Date	Chloroform	1,1-DCA	1,2-DCA	PCE	TCE	VC	1,2-DCB	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Freon 113	1,1,1-TCA
07/15/05	0.098 *U*		0.40 *U*	0.14	0.27 *U*	0.77 *U*					0.38	0.27 *U*
07/19/05			0.14 *U*	0.23 *U*	0.046 *U*	0.045 *U*			0.14 *U*			
07/21/05			0.14 *U*	0.23 *U*	0.045 *U*	0.043 *U*			0.13 *U*			
07/27/05	0.098 *U*		0.40 *U*	0.14	0.27 *U*	0.77 *U*					0.46	0.27 *U*
08/08/05	0.098 *U*		0.40 *U*	0.14	0.27 *U*	0.77 *U*					0.46	0.27 *U*
08/20/05	0.098 *U*		0.40 *U*	0.068 *U*	0.27 *U*	0.77 *U*					0.46	0.27 *U*
09/01/05	0.098 *U*		0.40 *U*	0.14	0.27 *U*	0.77 *U*					0.46	0.27 *U*
09/13/05	0.098 *U*		0.40 *U*	0.068 *U*	0.27 *U*	0.77 *U*					0.46	0.27 *U*
09/25/05	0.098 *U*		0.40 *U*	0.41	0.27 *U*	0.77 *U*					0.46	0.27 *U*
09/27/05			0.14 *U*	0.99	0.045 *U*	0.043 *U*			0.13 *U*			
09/29/05			0.14 *U*	0.97	0.31	0.042 *U*			0.13 *U*			
10/07/05	0.098 *U*		0.40 *U*	0.14	0.27 *U*	0.77 *U*					0.46	0.27 *U*
10/19/05	0.098 *U*		0.40 *U*	0.068 *U*	0.27 *U*	0.77 *U*					0.46	0.27 *U*
10/31/05	0.15		0.40 *U*	0.61	0.27 *U*	0.77 *U*					0.46	0.27 *U*
11/16/05	0.15		0.40 *U*	0.75	0.27 *U*	0.77 *U*					0.54	0.27 *U*
11/30/05	0.15		0.40 *U*	0.54	0.27 *U*	0.77 *U*					0.54	0.27 *U*
12/06/05	0.15		0.40 *U*	0.75	0.27 *U*	0.77 *U*					0.54	0.27 *U*
12/18/05	0.098 *U*		0.40 *U*	0.068 *U*	0.27 *U*	0.77 *U*					0.54	0.27 *U*
12/30/05	0.098 *U*		0.40 *U*	0.14	0.27 *U*	0.77 *U*					0.54	0.27 *U*
01/03/06			0.13 *U*	0.57	0.043 *U*	0.041 *U*			0.13 *U*			
01/05/06			0.13 *U*	0.88	0.24	0.041 *U*			0.13 *U*			
09/26/06	0.83 *U*	0.69 *U*	0.69 *U*	1.2 *U*	0.91 *U*	0.43 *U*	1.0 *U*	0.67 *U*	0.67 *U*		0.69	0.93 *U*

Note: Concentrations are reported in $\mu g/m^3$ and were averaged for all locations measured on each date.
If all results on a given date were nondetect then the minimum detection limit is reported as nondetect
If any results on a given date were detected then all results were averaged, including nondetect results at half the detection limit

Complete ProUCL Output

General Background Statistics for Data Sets with Non-Detects

User Selected Options	
From File	U:\MEWsite-LisaY\RIFScomments_Dec2007\RevisedBackground\ProUCLinput.wst
Full Precision	OFF
Confidence Coefficient	95%
Coverage	95%
Different or Future K Values	1
Number of Bootstrap Operations	10000

Chloroform

General Statistics

Number of Valid Data	77	Number of Detected Data	36
Number of Distinct Detected Data	17	Number of Non-Detect Data	41
		Percent Non-Detects	53.25%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.11	Minimum Detected	-2.207
Maximum Detected	0.57	Maximum Detected	-0.562
Mean of Detected	0.219	Mean of Detected	-1.606
SD of Detected	0.109	SD of Detected	0.389
Minimum Non-Detect	0.08	Minimum Non-Detect	-2.526
Maximum Non-Detect	0.83	Maximum Non-Detect	-0.186

Data with Multiple Detection Limits	Single Detection Limit Scenario	
Note: Data have multiple DLs - Use of KM Method is recommended	Number treated as Non-Detect with Single DL	77
For all methods (except KM, DL/2, and ROS Methods),	Number treated as Detected with Single DL	0
Observations < Largest ND are treated as NDs	Single DL Non-Detect Percentage	100.00%

Background Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.711	Lilliefors Test Statistic	0.868
5% Lilliefors Critical Value	0.935	5% Lilliefors Critical Value	0.935
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.136	Mean (Log Scale)	-2.289
SD	0.116	SD (Log Scale)	0.757
95% UTL 95% Coverage	0.364	95% UTL 95% Coverage	0.449
95% UPL (t)	0.331	95% UPL (t)	0.36
90% Percentile (z)	0.285	90% Percentile (z)	0.267
95% Percentile (z)	0.327	95% Percentile (z)	0.352
99% Percentile (z)	0.406	99% Percentile (z)	0.589
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
		Mean in Original Scale	0.145
		SD in Original Scale	0.103
		Mean in Log Scale	-2.127
		SD in Log Scale	0.615
		95% UTL 95% Coverage	0.399
		95% UPL (t)	0.334

		90% Percentile (z)	0.262
		95% Percentile (z)	0.328
		99% Percentile (z)	0.498
Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	5.505	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.0397		
nu star	396.4		
A-D Test Statistic	2.221	Nonparametric Statistics	
5% A-D Critical Value	0.75	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.18	Mean	0.162
5% K-S Critical Value	0.147	SD	0.0918
Data not Gamma Distributed at 5% Significance Level		SE of Mean	0.0107
		95% KM UTL with 95% Coverage	0.343
Assuming Gamma Distribution		95% KM Chebyshev UPL	0.565
Gamma ROS Statistics with extrapolated Data		95% KM UPL (t)	0.316
Mean	0.222	90% Percentile (z)	0.28
Median	0.217	95% Percentile (z)	0.313
SD	0.09	99% Percentile (z)	0.376
k star	6.04		
Theta star	0.0367		
Nu star	930.2		
95% Percentile of Chisquare (2k)	21.13		
90% Percentile	0.342		
95% Percentile	0.388		
99% Percentile	0.484		

Note: UPL (or upper percentile for gamma distributed data) represents a preferred estimate of BTV

For an Example: KM-UPL may be used when multiple detection limits are present

Note: DL/2 is not a recommended method.

General Background Statistics for Full Data Sets

User Selected Options	
From File	U:\MEWsite-LisaY\RIFScomments_Dec2007\RevisedBackground\ProUCLinput.wst
Full Precision	OFF
Confidence Coefficient	95%
Coverage	95%
Different or Future K Values	1
Number of Bootstrap Operations	10000

LnROS_Chloroform

General Statistics

Total Number of Observations	77	Number of Distinct Observations	57

Raw Statistics		Log-Transformed Statistics	
Minimum	0.0288	Minimum	-3.548
Maximum	0.57	Maximum	-0.562
Second Largest	0.56	Second Largest	-0.58
First Quartile	0.0776	First Quartile	-2.556
Median	0.113	Median	-2.177
Third Quartile	0.185	Third Quartile	-1.688
Mean	0.145	Mean	-2.127
SD	0.103	SD	0.615
Coefficient of Variation	0.715		
Skewness	2.27		

Background Statistics

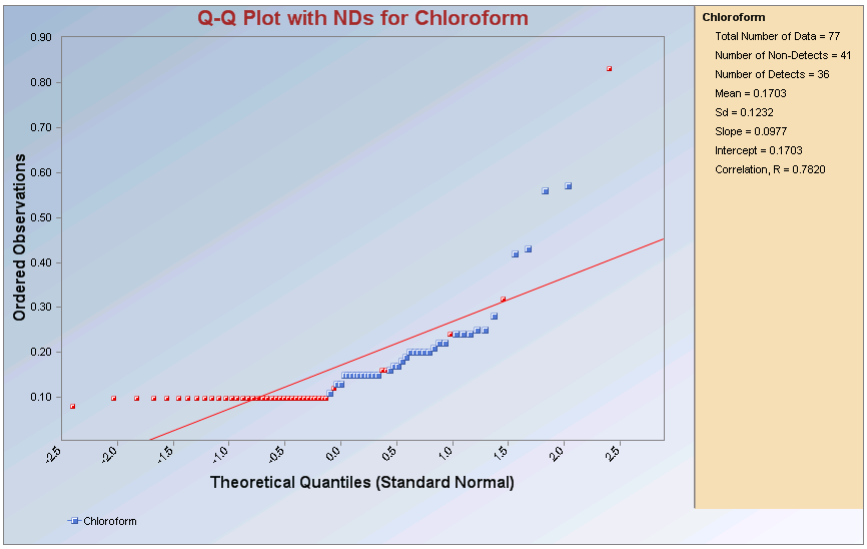
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.181	Lilliefors Test Statistic	0.0744
Lilliefors Critical Value	0.101	Lilliefors Critical Value	0.101
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

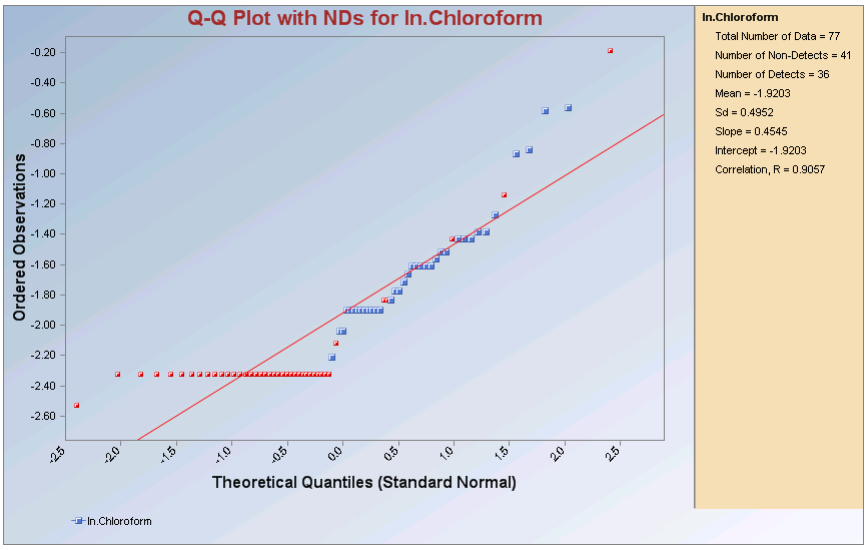
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% UTL with 95% Coverage	0.348	95% UTL with 95% Coverage	0.399
95% UPL (t)	0.318	95% UPL (t)	0.334
90% Percentile (z)	0.277	90% Percentile (z)	0.262
95% Percentile (z)	0.315	95% Percentile (z)	0.328
99% Percentile (z)	0.385	99% Percentile (z)	0.498

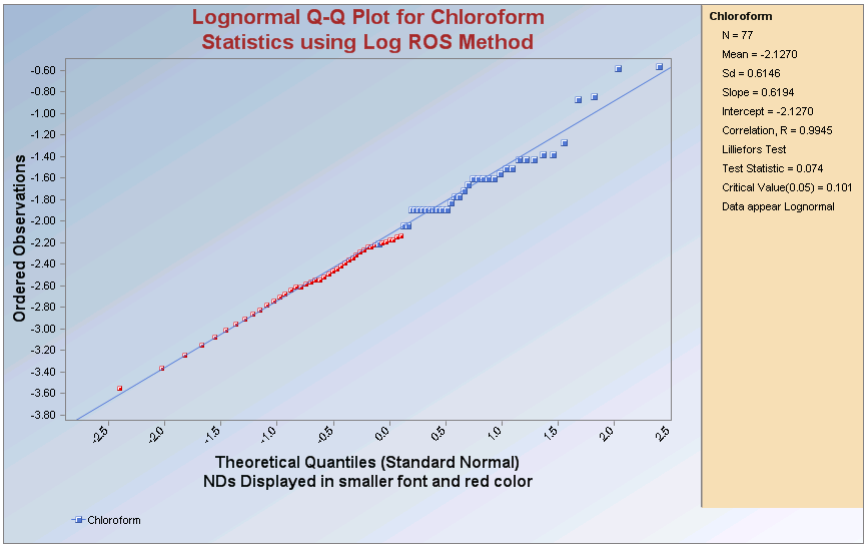
Gamma Distribution Test		Data Distribution Test	
k star	2.636	Data Follow Appr. Gamma Distribution at 5% Significance Level	
Theta Star	0.0549		
nu star	405.9		
A-D Test Statistic	0.822	Nonparametric Statistics	
5% A-D Critical Value	0.76	90% Percentile	0.242
K-S Test Statistic	0.0979	95% Percentile	0.421
5% K-S Critical Value	0.103	99% Percentile	0.57
Data follow Appx. Gamma Distribution at 5% Significance Level			
Assuming Gamma Distribution		95% UTL with 95% Coverage	0.56
90% Percentile	0.264	95% Percentile Bootstrap UTL with 95% Coverage	0.451

				95% Percentile	0.315					95% BCA Bootstrap UTL with 95% Coverage	0.56
				99% Percentile	0.427					95% UPL	0.421
										95% Chebyshev UPL	0.599
										Upper Threshold Limit Based upon IQR	0.346

Note: UPL (or upper percentile for gamma distributed data) represents a preferred estimate of BTV


Q-Q Plot with NDs for Chloroform
Ordered Observations
Theoretical Quantiles (Standard Normal)
Chloroform
Chloroform
Total Number of Data = 77
Number of Non-Detects = 41
Number of Detects = 36
Mean = 0.1703
Sd = 0.1232
Slope = 0.0977
Intercept = 0.1703
Correlation, R = 0.7820


Q-Q Plot with NDs for ln.Chloroform
Ordered Observations
Theoretical Quantiles (Standard Normal)
ln.Chloroform
ln.Chloroform
Total Number of Data = 77
Number of Non-Detects = 41
Number of Detects = 36
Mean = -1.9203
Sd = 0.4952
Slope = 0.4545
Intercept = -1.9203
Correlation, R = 0.9057


Lognormal Q-Q Plot for Chloroform
Statistics using Log ROS Method
Ordered Observations
Theoretical Quantiles (Standard Normal)
NDs Displayed in smaller font and red color
Chloroform
Chloroform
N = 77
Mean = -2.1270
Sd = 0.6146
Slope = 0.6194
Intercept = -2.1270
Correlation, R = 0.9945
Lilliefors Test
Test Statistic = 0.074
Critical Value(0.05) = 0.101
Data appear Lognormal

General Background Statistics for Data Sets with Non-Detects

User Selected Options	
From File	U:\MEWsite-LisaY\RIFScomments_Dec2007\RevisedBackground\ProUCLinput.wst
Full Precision	OFF
Confidence Coefficient	95%
Coverage	95%
Different or Future K Values	1
Number of Bootstrap Operations	10000

11DCA

General Statistics

Number of Valid Data	91	Number of Detected Data	13
Number of Distinct Detected Data	11	Number of Non-Detect Data	78
		Percent Non-Detects	85.71%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.085	Minimum Detected	-2.465
Maximum Detected	0.6	Maximum Detected	-0.511
Mean of Detected	0.219	Mean of Detected	-1.649
SD of Detected	0.133	SD of Detected	0.509
Minimum Non-Detect	0.042	Minimum Non-Detect	-3.17
Maximum Non-Detect	0.69	Maximum Non-Detect	-0.371

Data with Multiple Detection Limits	Single Detection Limit Scenario	
Note: Data have multiple DLs - Use of KM Method is recommended	Number treated as Non-Detect with Single DL	91
For all methods (except KM, DL/2, and ROS Methods),	Number treated as Detected with Single DL	0
Observations < Largest ND are treated as NDs	Single DL Non-Detect Percentage	100.00%

Background Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.787	Lilliefors Test Statistic	0.968
5% Lilliefors Critical Value	0.866	5% Lilliefors Critical Value	0.866
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.0764	Mean (Log Scale)	-2.845
SD	0.0837	SD (Log Scale)	0.634
95% UTL 95% Coverage	0.239	95% UTL 95% Coverage	0.199
95% UPL (t)	0.216	95% UPL (t)	0.168
90% Percentile (z)	0.184	90% Percentile (z)	0.131
95% Percentile (z)	0.214	95% Percentile (z)	0.165
99% Percentile (z)	0.271	99% Percentile (z)	0.254
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
		Mean in Original Scale	0.0566
		SD in Original Scale	0.0843
		Mean in Log Scale	-3.451
		SD in Log Scale	1.012
		95% UTL 95% Coverage	0.225
		95% UPL (t)	0.172

		90% Percentile (z)	0.116
		95% Percentile (z)	0.167
		99% Percentile (z)	0.334
Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	3.135	Data appear Gamma Distributed at 5% Significance Level	
Theta Star	0.0698		
nu star	81.5		
A-D Test Statistic	0.372	Nonparametric Statistics	
5% A-D Critical Value	0.737	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.158	Mean	0.105
5% K-S Critical Value	0.238	SD	0.0677
Data appear Gamma Distributed at 5% Significance Level		SE of Mean	0.00745
		95% KM UTL with 95% Coverage	0.236
Assuming Gamma Distribution		95% KM Chebyshev UPL	0.401
Gamma ROS Statistics with extrapolated Data		95% KM UPL (t)	0.218
Mean	0.2	90% Percentile (z)	0.191
Median	0.189	95% Percentile (z)	0.216
SD	0.0601	99% Percentile (z)	0.262
k star	14.35		
Theta star	0.0139		
Nu star	2612		
95% Percentile of Chisquare (2k)	42.2		
90% Percentile	0.269		
95% Percentile	0.294		
99% Percentile	0.342		

Note: UPL (or upper percentile for gamma distributed data) represents a preferred estimate of BTV

For an Example: KM-UPL may be used when multiple detection limits are present

Note: DL/2 is not a recommended method.

General Background Statistics for Full Data Sets

User Selected Options	
From File	U:\MEWsite-LisaY\RIFScomments_Dec2007\RevisedBackground\ProUCLinput.wst
Full Precision	OFF
Confidence Coefficient	95%
Coverage	95%
Different or Future K Values	1
Number of Bootstrap Operations	10000

LnROS_11DCA

General Statistics

Total Number of Observations	91	Number of Distinct Observations	81

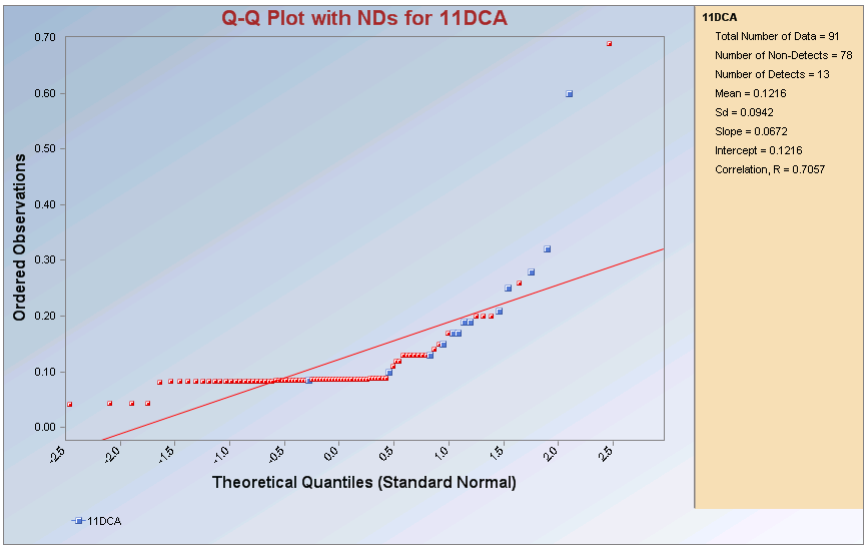
Raw Statistics		Log-Transformed Statistics	
Minimum	0.00412	Minimum	-5.492
Maximum	0.6	Maximum	-0.511
Second Largest	0.32	Second Largest	-1.139
First Quartile	0.0158	First Quartile	-4.145
Median	0.0274	Median	-3.597
Third Quartile	0.0563	Third Quartile	-2.878
Mean	0.0566	Mean	-3.451
SD	0.0843	SD	1.012
Coefficient of Variation	1.489		
Skewness	3.913		

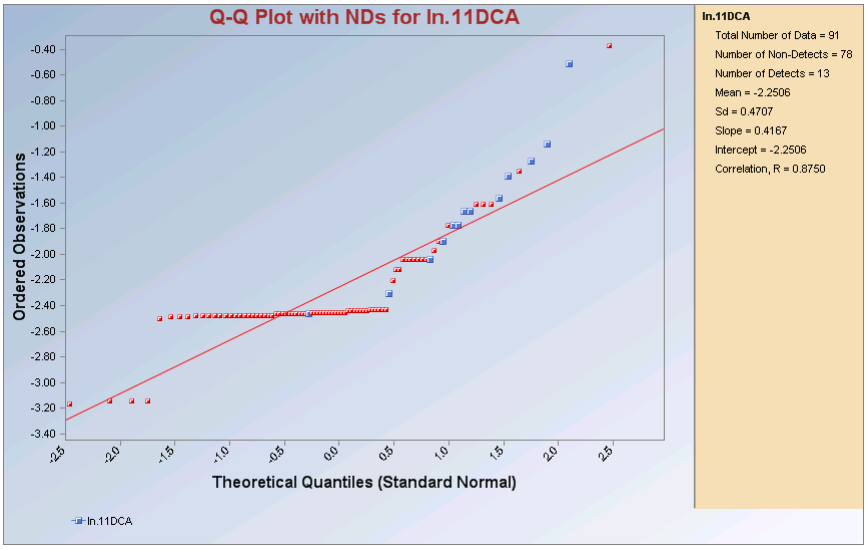
Background Statistics

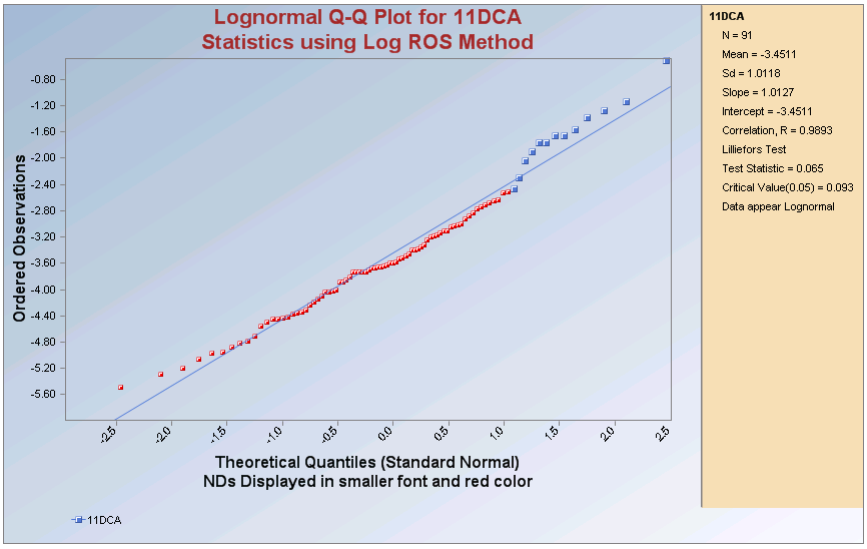
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.267	Lilliefors Test Statistic	0.0655
Lilliefors Critical Value	0.0929	Lilliefors Critical Value	0.0929
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% UTL with 95% Coverage	0.22	95% UTL with 95% Coverage	0.225
95% UPL (t)	0.197	95% UPL (t)	0.172
90% Percentile (z)	0.165	90% Percentile (z)	0.116
95% Percentile (z)	0.195	95% Percentile (z)	0.167
99% Percentile (z)	0.253	99% Percentile (z)	0.334
Gamma Distribution Test		Data Distribution Test	
k star	0.971	Data appear Lognormal at 5% Significance Level	
Theta Star	0.0583		
nu star	176.7		
A-D Test Statistic	3.387	Nonparametric Statistics	
5% A-D Critical Value	0.783	90% Percentile	0.166
K-S Test Statistic	0.149	95% Percentile	0.226
5% K-S Critical Value	0.0965	99% Percentile	0.6
Data not Gamma Distributed at 5% Significance Level			
Assuming Gamma Distribution		95% UTL with 95% Coverage	0.28
90% Percentile	0.131	95% Percentile Bootstrap UTL with 95% Coverage	0.28

				95% Percentile	0.171					95% BCA Bootstrap UTL with 95% Coverage	0.28
				99% Percentile	0.265					95% UPL	0.226
										95% Chebyshev UPL	0.426
										Upper Threshold Limit Based upon IQR	0.117

Note: UPL (or upper percentile for gamma distributed data) represents a preferred estimate of BTV


Q-Q Plot with NDs for 11DCA
Ordered Observations
Theoretical Quantiles (Standard Normal)
11DCA
11DCA
Total Number of Data = 91
Number of Non-Detects = 78
Number of Detects = 13
Mean = 0.1216
Sd = 0.0942
Slope = 0.0672
Intercept = 0.1216
Correlation, R = 0.7057


Q-Q Plot with NDs for ln.11DCA
Ordered Observations
Theoretical Quantiles (Standard Normal)
ln.11DCA
ln.11DCA
Total Number of Data = 91
Number of Non-Detects = 78
Number of Detects = 13
Mean = -2.2506
Sd = 0.4707
Slope = 0.4167
Intercept = -2.2506
Correlation, R = 0.8750


Lognormal Q-Q Plot for 11DCA
Statistics using Log ROS Method
Ordered Observations
Theoretical Quantiles (Standard Normal)
NDs Displayed in smaller font and red color
11DCA
11DCA
N = 91
Mean = -3.4511
Sd = 1.0118
Slope = 1.0127
Intercept = -3.4511
Correlation, R = 0.9893
Lilliefors Test
Test Statistic = 0.065
Critical Value(0.05) = 0.093
Data appear Lognormal

General Background Statistics for Data Sets with Non-Detects

User Selected Options	
From File	U:\MEWsite-LisaY\RIFScomments_Dec2007\RevisedBackground\ProUCLinput.wst
Full Precision	OFF
Confidence Coefficient	95%
Coverage	95%
Different or Future K Values	1
Number of Bootstrap Operations	10000

12DCA

General Statistics

Number of Valid Data	143	Number of Detected Data	64
Number of Distinct Detected Data	38	Number of Non-Detect Data	79
		Percent Non-Detects	55.24%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.016	Minimum Detected	-4.135
Maximum Detected	0.12	Maximum Detected	-2.12
Mean of Detected	0.0424	Mean of Detected	-3.232
SD of Detected	0.0173	SD of Detected	0.375
Minimum Non-Detect	0.044	Minimum Non-Detect	-3.124
Maximum Non-Detect	0.69	Maximum Non-Detect	-0.371

Data with Multiple Detection Limits	Single Detection Limit Scenario	
Note: Data have multiple DLs - Use of KM Method is recommended	Number treated as Non-Detect with Single DL	143
For all methods (except KM, DL/2, and ROS Methods),	Number treated as Detected with Single DL	0
Observations < Largest ND are treated as NDs	Single DL Non-Detect Percentage	100.00%

Background Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.126	Lilliefors Test Statistic	0.0751
5% Lilliefors Critical Value	0.111	5% Lilliefors Critical Value	0.111
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.101	Mean (Log Scale)	-2.577
SD	0.0746	SD (Log Scale)	0.773
95% UTL 95% Coverage	0.241	95% UTL 95% Coverage	0.323
95% UPL (t)	0.225	95% UPL (t)	0.275
90% Percentile (z)	0.197	90% Percentile (z)	0.205
95% Percentile (z)	0.224	95% Percentile (z)	0.271
99% Percentile (z)	0.275	99% Percentile (z)	0.459
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
		Mean in Original Scale	0.0417
		SD in Original Scale	0.0153
		Mean in Log Scale	-3.237
		SD in Log Scale	0.346
		95% UTL 95% Coverage	0.0751
		95% UPL (t)	0.0698

		90% Percentile (z)	0.0612
		95% Percentile (z)	0.0694
		99% Percentile (z)	0.0879
Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	6.898	Data appear Gamma Distributed at 5% Significance Level	
Theta Star	0.00614		
nu star	882.9		
A-D Test Statistic	0.328	Nonparametric Statistics	
5% A-D Critical Value	0.752	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.0752	Mean	0.0421
5% K-S Critical Value	0.112	SD	0.0169
Data appear Gamma Distributed at 5% Significance Level		SE of Mean	0.0021
		95% KM UTL with 95% Coverage	0.0738
Assuming Gamma Distribution		95% KM Chebyshev UPL	0.116
Gamma ROS Statistics with extrapolated Data		95% KM UPL (t)	0.0702
Mean	0.0429	90% Percentile (z)	0.0638
Median	0.043	95% Percentile (z)	0.0699
SD	0.0144	99% Percentile (z)	0.0815
k star	8.277		
Theta star	0.00518		
Nu star	2367		
95% Percentile of Chisquare (2k)	27.01		
90% Percentile	0.0627		
95% Percentile	0.07		
99% Percentile	0.0849		

Note: UPL (or upper percentile for gamma distributed data) represents a preferred estimate of BTV

For an Example: KM-UPL may be used when multiple detection limits are present

Note: DL/2 is not a recommended method.

General Background Statistics for Full Data Sets

User Selected Options	
From File	U:\MEWsite-LisaY\RIFScomments_Dec2007\RevisedBackground\ProUCLinput.wst
Full Precision	OFF
Confidence Coefficient	95%
Coverage	95%
Different or Future K Values	1
Number of Bootstrap Operations	10000

LnROS_12DCA

General Statistics

Total Number of Observations	143	Number of Distinct Observations	109

Raw Statistics		Log-Transformed Statistics	
Minimum	0.016	Minimum	-4.135
Maximum	0.12	Maximum	-2.12
Second Largest	0.092	Second Largest	-2.386
First Quartile	0.0313	First Quartile	-3.466
Median	0.0392	Median	-3.239
Third Quartile	0.0498	Third Quartile	-3.001
Mean	0.0417	Mean	-3.237
SD	0.0153	SD	0.346
Coefficient of Variation	0.367		
Skewness	1.487		

Background Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.105	Lilliefors Test Statistic	0.0387
Lilliefors Critical Value	0.0741	Lilliefors Critical Value	0.0741
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

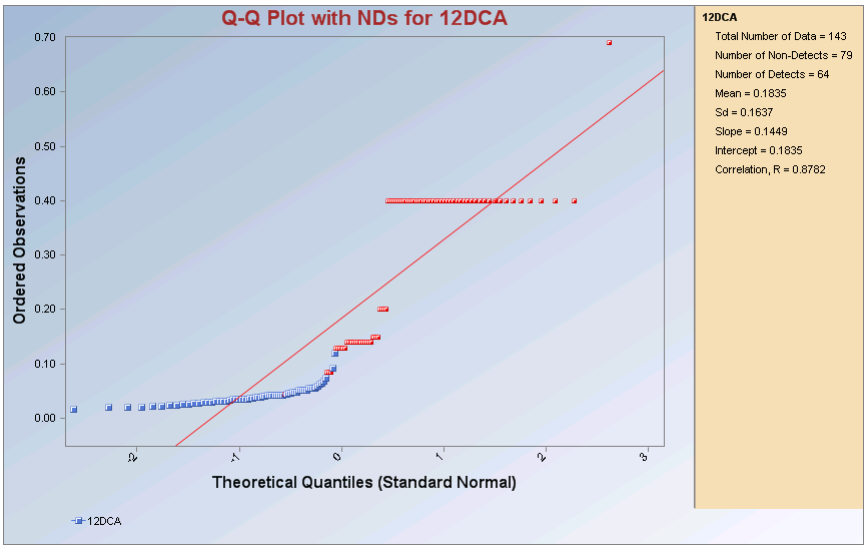
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% UTL with 95% Coverage	0.0704	95% UTL with 95% Coverage	0.0751
95% UPL (t)	0.0671	95% UPL (t)	0.0698
90% Percentile (z)	0.0613	90% Percentile (z)	0.0612
95% Percentile (z)	0.0669	95% Percentile (z)	0.0694
99% Percentile (z)	0.0773	99% Percentile (z)	0.0879

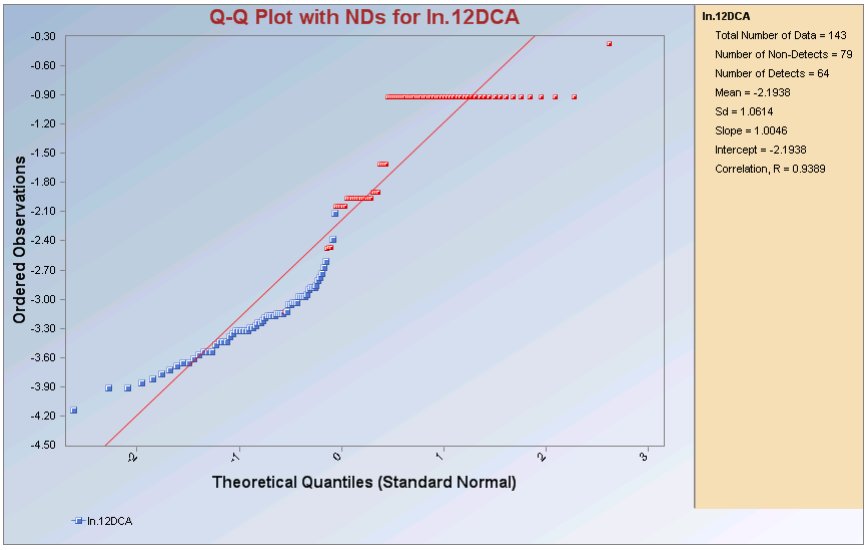
Gamma Distribution Test		Data Distribution Test	
k star	8.274	Data appear Gamma Distributed at 5% Significance Level	
Theta Star	0.00504		
nu star	2366		
A-D Test Statistic	0.275	Nonparametric Statistics	
5% A-D Critical Value	0.753	90% Percentile	0.06
K-S Test Statistic	0.0573	95% Percentile	0.0695
5% K-S Critical Value	0.0784	99% Percentile	0.108
Data appear Gamma Distributed at 5% Significance Level			

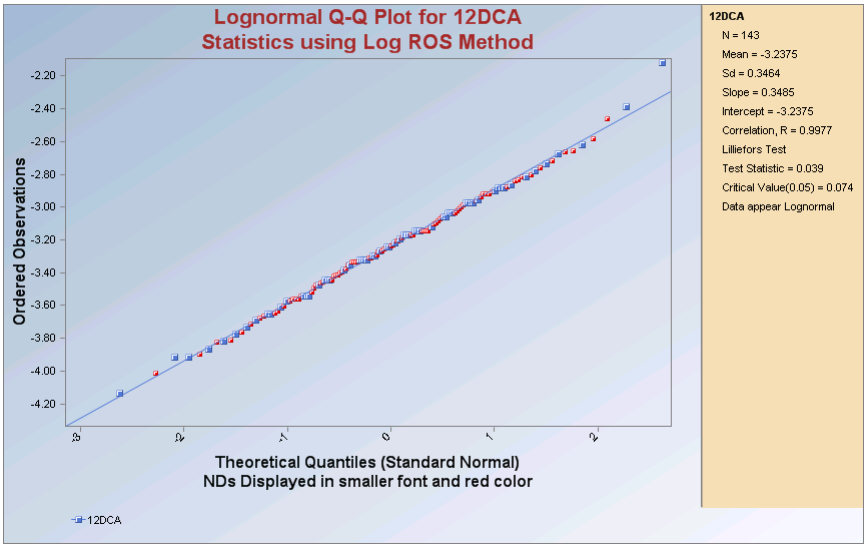
Assuming Gamma Distribution		95% UTL with 95% Coverage	0.073
90% Percentile	0.061	95% Percentile Bootstrap UTL with 95% Coverage	0.073

				95% Percentile	0.0681					95% BCA Bootstrap UTL with 95% Coverage	0.073
				99% Percentile	0.0826					95% UPL	0.0695
										95% Chebyshev UPL	0.109
										Upper Threshold Limit Based upon IQR	0.0775

Note: UPL (or upper percentile for gamma distributed data) represents a preferred estimate of BTV


Q-Q Plot with NDs for 12DCA
Ordered Observations
Theoretical Quantiles (Standard Normal)
12DCA
12DCA
Total Number of Data = 143
Number of Non-Detects = 79
Number of Detects = 64
Mean = 0.1835
Sd = 0.1637
Slope = 0.1449
Intercept = 0.1835
Correlation, R = 0.8782


Q-Q Plot with NDs for ln.12DCA
Ordered Observations
Theoretical Quantiles (Standard Normal)
ln.12DCA
ln.12DCA
Total Number of Data = 143
Number of Non-Detects = 79
Number of Detects = 64
Mean = -2.1938
Sd = 1.0614
Slope = 1.0046
Intercept = -2.1938
Correlation, R = 0.9389


Lognormal Q-Q Plot for 12DCA
Statistics using Log ROS Method
Ordered Observations
Theoretical Quantiles (Standard Normal)
NDs Displayed in smaller font and red color
12DCA
12DCA
N = 143
Mean = -3.2375
Sd = 0.3464
Slope = 0.3485
Intercept = -3.2375
Correlation, R = 0.9977
Lilliefors Test
Test Statistic = 0.039
Critical Value(0.05) = 0.074
Data appear Lognormal

General Background Statistics for Data Sets with Non-Detects

User Selected Options	
From File	U:\MEWsite-LisaY\RIFScomments_Dec2007\RevisedBackground\ProUCLinput.wst
Full Precision	OFF
Confidence Coefficient	95%
Coverage	95%
Different or Future K Values	1
Number of Bootstrap Operations	10000

PCE

General Statistics

Number of Valid Data	163	Number of Detected Data	124
Number of Distinct Detected Data	54	Number of Non-Detect Data	39
		Percent Non-Detects	23.93%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.07	Minimum Detected	-2.659
Maximum Detected	1.4	Maximum Detected	0.336
Mean of Detected	0.289	Mean of Detected	-1.521
SD of Detected	0.252	SD of Detected	0.716
Minimum Non-Detect	0.068	Minimum Non-Detect	-2.688
Maximum Non-Detect	1.2	Maximum Non-Detect	0.182

Data with Multiple Detection Limits	Single Detection Limit Scenario	
Note: Data have multiple DLs - Use of KM Method is recommended	Number treated as Non-Detect with Single DL	161
For all methods (except KM, DL/2, and ROS Methods),	Number treated as Detected with Single DL	2
Observations < Largest ND are treated as NDs	Single DL Non-Detect Percentage	98.77%

Background Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.219	Lilliefors Test Statistic	0.153
5% Lilliefors Critical Value	0.0796	5% Lilliefors Critical Value	0.0796
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.242	Mean (Log Scale)	-1.8
SD	0.24	SD (Log Scale)	0.876
95% UTL 95% Coverage	0.689	95% UTL 95% Coverage	0.841
95% UPL (t)	0.641	95% UPL (t)	0.707
90% Percentile (z)	0.55	90% Percentile (z)	0.508
95% Percentile (z)	0.637	95% Percentile (z)	0.698
99% Percentile (z)	0.801	99% Percentile (z)	1.267
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
		Mean in Original Scale	0.24
		SD in Original Scale	0.238
		Mean in Log Scale	-1.791
		SD in Log Scale	0.839
		95% UTL 95% Coverage	0.793
		95% UPL (t)	0.671

		90% Percentile (z)	0.489
		95% Percentile (z)	0.663
		99% Percentile (z)	1.175
Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	1.887	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.153		
nu star	467.9		
A-D Test Statistic	4.693	Nonparametric Statistics	
5% A-D Critical Value	0.766	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.182	Mean	0.244
5% K-S Critical Value	0.0844	SD	0.235
Data not Gamma Distributed at 5% Significance Level		SE of Mean	0.0186
		95% KM UTL with 95% Coverage	0.682
Assuming Gamma Distribution		95% KM Chebyshev UPL	1.273
Gamma ROS Statistics with extrapolated Data		95% KM UPL (t)	0.635
Mean	0.261	90% Percentile (z)	0.546
Median	0.17	95% Percentile (z)	0.631
SD	0.235	99% Percentile (z)	0.792
k star	0.788		
Theta star	0.331		
Nu star	256.8		
95% Percentile of Chisquare (2k)	5.139		
90% Percentile	0.636		
95% Percentile	0.85		
99% Percentile	1.357		

Note: UPL (or upper percentile for gamma distributed data) represents a preferred estimate of BTV

For an Example: KM-UPL may be used when multiple detection limits are present

Note: DL/2 is not a recommended method.

General Background Statistics for Full Data Sets

User Selected Options	
From File	U:\MEWsite-LisaY\RIFScomments_Dec2007\RevisedBackground\ProUCLinput.wst
Full Precision	OFF
Confidence Coefficient	95%
Coverage	95%
Different or Future K Values	1
Number of Bootstrap Operations	10000

LnROS_PCE

General Statistics

Total Number of Observations	163	Number of Distinct Observations	92

Raw Statistics		Log-Transformed Statistics	
Minimum	0.0201	Minimum	-3.909
Maximum	1.4	Maximum	0.336
Second Largest	1.3	Second Largest	0.262
First Quartile	0.1	First Quartile	-2.303
Median	0.15	Median	-1.897
Third Quartile	0.29	Third Quartile	-1.238
Mean	0.24	Mean	-1.791
SD	0.238	SD	0.839
Coefficient of Variation	0.991		
Skewness	2.294		

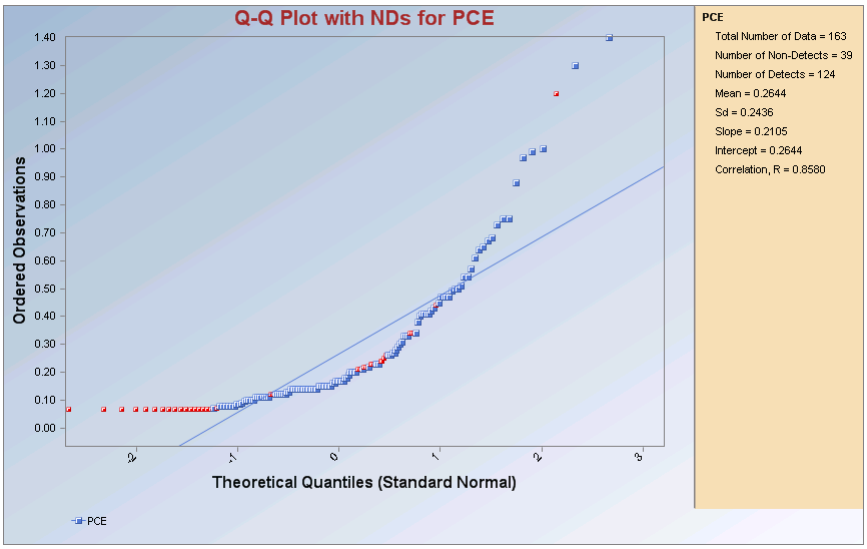
Background Statistics

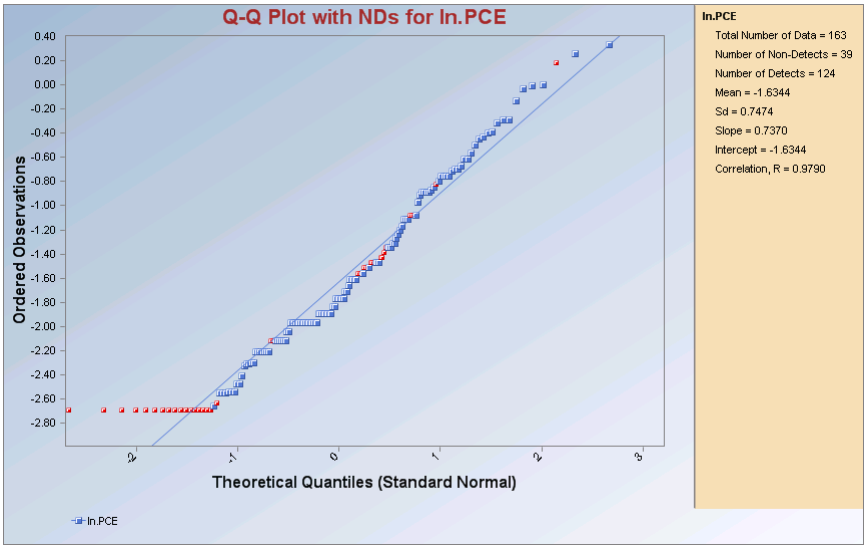
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.247	Lilliefors Test Statistic	0.115
Lilliefors Critical Value	0.0694	Lilliefors Critical Value	0.0694
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% UTL with 95% Coverage	0.683	95% UTL with 95% Coverage	0.793
95% UPL (t)	0.635	95% UPL (t)	0.671
90% Percentile (z)	0.545	90% Percentile (z)	0.489
95% Percentile (z)	0.632	95% Percentile (z)	0.663
99% Percentile (z)	0.794	99% Percentile (z)	1.175

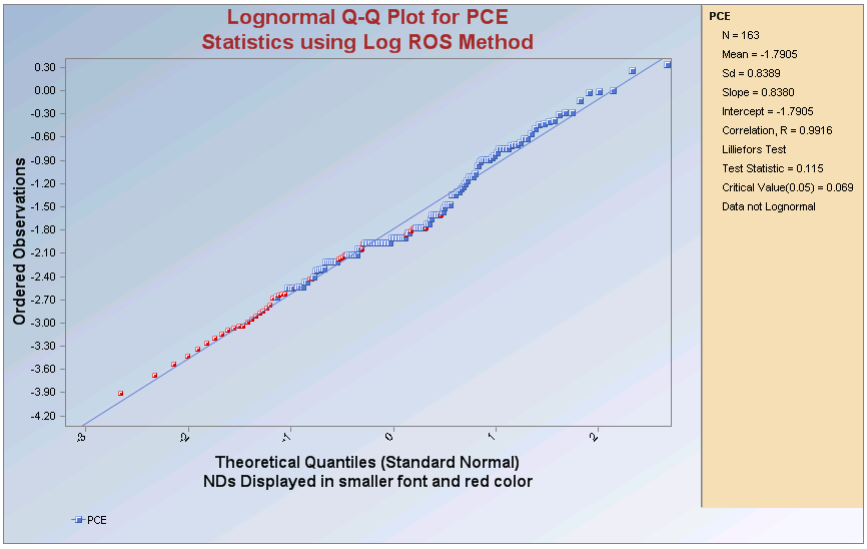
Gamma Distribution Test		Data Distribution Test	
k star	1.494	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.161		
nu star	487.2		
A-D Test Statistic	4.159	Nonparametric Statistics	
5% A-D Critical Value	0.771	90% Percentile	0.54
K-S Test Statistic	0.172	95% Percentile	0.746
5% K-S Critical Value	0.0745	99% Percentile	1.336
Data not Gamma Distributed at 5% Significance Level			
Assuming Gamma Distribution		95% UTL with 95% Coverage	0.97
90% Percentile	0.501	95% Percentile Bootstrap UTL with 95% Coverage	0.954

				95% Percentile	0.626					95% BCA Bootstrap UTL with 95% Coverage	0.937
				99% Percentile	0.91					95% UPL	0.746
										95% Chebyshev UPL	1.281
										Upper Threshold Limit Based upon IQR	0.575

Note: UPL (or upper percentile for gamma distributed data) represents a preferred estimate of BTV


Q-Q Plot with NDs for PCE
Ordered Observations
Theoretical Quantiles (Standard Normal)
PCE
PCE
Total Number of Data = 163
Number of Non-Detects = 39
Number of Detects = 124
Mean = 0.2644
Sd = 0.2436
Slope = 0.2105
Intercept = 0.2644
Correlation, R = 0.8580


Q-Q Plot with NDs for ln.PCE
Ordered Observations
Theoretical Quantiles (Standard Normal)
ln.PCE
ln.PCE
Total Number of Data = 163
Number of Non-Detects = 39
Number of Detects = 124
Mean = -1.6344
Sd = 0.7474
Slope = 0.7370
Intercept = -1.6344
Correlation, R = 0.9790


Lognormal Q-Q Plot for PCE
Statistics using Log ROS Method
Ordered Observations
Theoretical Quantiles (Standard Normal)
NDs Displayed in smaller font and red color
PCE
PCE
N = 163
Mean = -1.7905
Sd = 0.8389
Slope = 0.8380
Intercept = -1.7905
Correlation, R = 0.9916
Lilliefors Test
Test Statistic = 0.115
Critical Value(0.05) = 0.069
Data not Lognormal

General Background Statistics for Data Sets with Non-Detects

User Selected Options	
From File	U:\MEWsite-LisaY\RIFScomments_Dec2007\RevisedBackground\ProUCLinput.wst
Full Precision	OFF
Confidence Coefficient	95%
Coverage	95%
Different or Future K Values	1
Number of Bootstrap Operations	10000

TCE

General Statistics

Number of Valid Data	163	Number of Detected Data	98
Number of Distinct Detected Data	67	Number of Non-Detect Data	65
		Percent Non-Detects	39.88%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.028	Minimum Detected	-3.576
Maximum Detected	6.7	Maximum Detected	1.902
Mean of Detected	0.572	Mean of Detected	-1.313
SD of Detected	1.059	SD of Detected	1.134
Minimum Non-Detect	0.043	Minimum Non-Detect	-3.147
Maximum Non-Detect	0.91	Maximum Non-Detect	-0.0943

Data with Multiple Detection Limits	Single Detection Limit Scenario	
Note: Data have multiple DLs - Use of KM Method is recommended	Number treated as Non-Detect with Single DL	152
For all methods (except KM, DL/2, and ROS Methods),	Number treated as Detected with Single DL	11
Observations < Largest ND are treated as NDs	Single DL Non-Detect Percentage	93.25%

Background Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.352	Lilliefors Test Statistic	0.0998
5% Lilliefors Critical Value	0.0895	5% Lilliefors Critical Value	0.0895
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.391	Mean (Log Scale)	-1.702
SD	0.85	SD (Log Scale)	1.07
95% UTL 95% Coverage	1.971	95% UTL 95% Coverage	1.332
95% UPL (t)	1.802	95% UPL (t)	1.077
90% Percentile (z)	1.481	90% Percentile (z)	0.719
95% Percentile (z)	1.789	95% Percentile (z)	1.06
99% Percentile (z)	2.369	99% Percentile (z)	2.198
Maximum Likelihood Estimate(MLE) Method		Log ROS Method	
Mean	3.683	Mean in Original Scale	0.381
SD	1.762	SD in Original Scale	0.854
95% UTL with 95% Coverage	6.957	95% UTL with 95% Coverage	1.496
		95% BCA UTL with 95% Coverage	2.425
		95% Bootstrap (%) UTL with 95% Coverage	2.485
95% UPL (t)	6.607	95% UPL (t)	1.174

90% Percentile (z)	5.942	90% Percentile (z)	0.741
95% Percentile (z)	6.582	95% Percentile (z)	1.154
99% Percentile (z)	7.783	99% Percentile (z)	2.647
Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	0.77	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.743		
nu star	151		
A-D Test Statistic	4.898	Nonparametric Statistics	
5% A-D Critical Value	0.793	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.194	Mean	0.383
5% K-S Critical Value	0.0938	SD	0.851
Data not Gamma Distributed at 5% Significance Level		SE of Mean	0.0671
		95% KM UTL with 95% Coverage	1.964
Assuming Gamma Distribution		95% KM Chebyshev UPL	4.103
Gamma ROS Statistics with extrapolated Data		95% KM UPL (t)	1.795
Mean	0.568	90% Percentile (z)	1.473
Median	0.414	95% Percentile (z)	1.782
SD	0.826	99% Percentile (z)	2.362
k star	1.187		
Theta star	0.478		
Nu star	387.1		
95% Percentile of Chisquare (2k)	6.699		
90% Percentile	1.254		
95% Percentile	1.602		
99% Percentile	2.402		

Note: UPL (or upper percentile for gamma distributed data) represents a preferred estimate of BTV

For an Example: KM-UPL may be used when multiple detection limits are present

Note: DL/2 is not a recommended method.

General Background Statistics for Full Data Sets

User Selected Options	
From File	U:\MEWsite-LisaY\RIFScomments_Dec2007\RevisedBackground\ProUCLinput.wst
Full Precision	OFF
Confidence Coefficient	95%
Coverage	95%
Different or Future K Values	1
Number of Bootstrap Operations	10000

LnROS_TCE

General Statistics

Total Number of Observations	163	Number of Distinct Observations	128

Raw Statistics		Log-Transformed Statistics	
Minimum	0.00991	Minimum	-4.615
Maximum	6.7	Maximum	1.902
Second Largest	5.5	Second Largest	1.705
First Quartile	0.062	First Quartile	-2.781
Median	0.154	Median	-1.871
Third Quartile	0.3	Third Quartile	-1.204
Mean	0.381	Mean	-1.862
SD	0.854	SD	1.219
Coefficient of Variation	2.244		
Skewness	5.192		

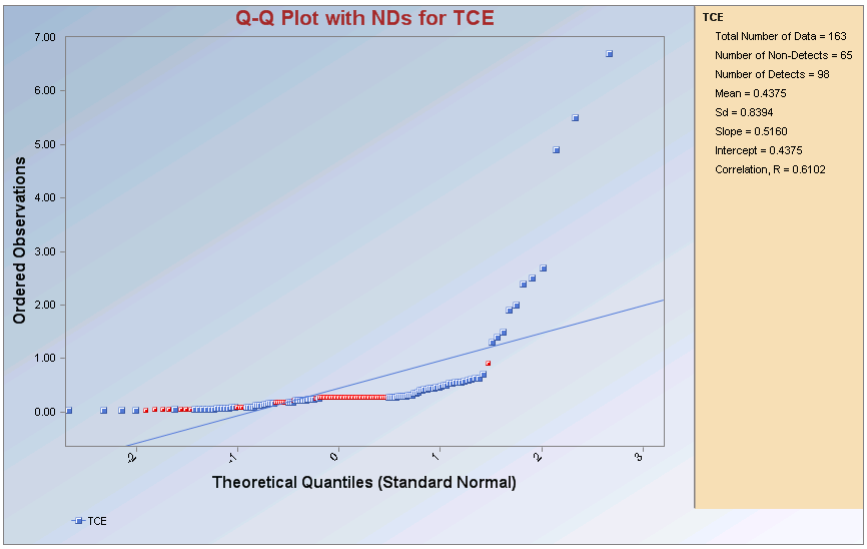
Background Statistics

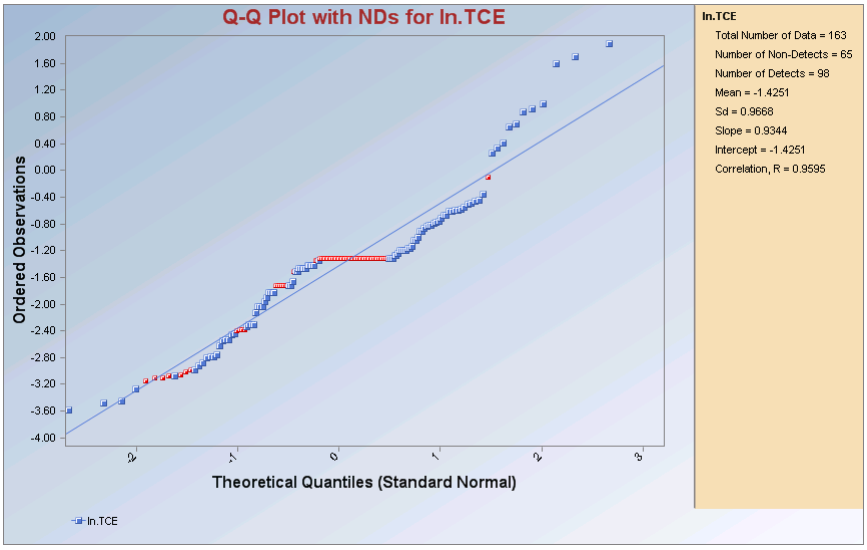
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.332	Lilliefors Test Statistic	0.0524
Lilliefors Critical Value	0.0694	Lilliefors Critical Value	0.0694
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

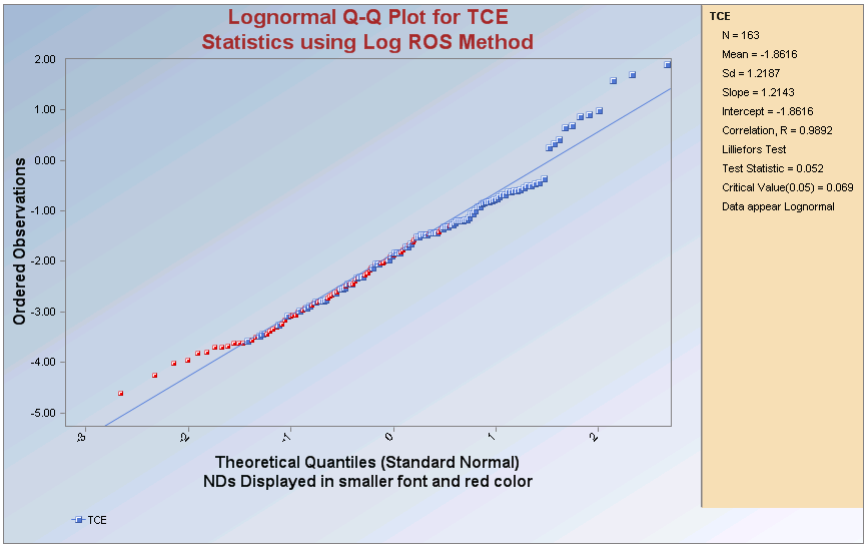
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% UTL with 95% Coverage	1.967	95% UTL with 95% Coverage	1.496
95% UPL (t)	1.798	95% UPL (t)	1.174
90% Percentile (z)	1.475	90% Percentile (z)	0.741
95% Percentile (z)	1.785	95% Percentile (z)	1.154
99% Percentile (z)	2.367	99% Percentile (z)	2.647

Gamma Distribution Test		Data Distribution Test	
k star	0.67	Data appear Lognormal at 5% Significance Level	
Theta Star	0.568		
nu star	218.3		
A-D Test Statistic	7.595	Nonparametric Statistics	
5% A-D Critical Value	0.803	90% Percentile	0.592
K-S Test Statistic	0.168	95% Percentile	1.82
5% K-S Critical Value	0.0765	99% Percentile	5.932
Data not Gamma Distributed at 5% Significance Level			
Assuming Gamma Distribution		95% UTL with 95% Coverage	2.5
90% Percentile	0.965	95% Percentile Bootstrap UTL with 95% Coverage	2.485

				95% Percentile	1.316					95% BCA Bootstrap UTL with 95% Coverage	2.425
				99% Percentile	2.157					95% UPL	1.82
										95% Chebyshev UPL	4.115
										Upper Threshold Limit Based upon IQR	0.657
Note: UPL (or upper percentile for gamma distributed data) represents a preferred estimate of BTV											


Q-Q Plot with NDs for TCE
Ordered Observations
Theoretical Quantiles (Standard Normal)
TCE
TCE
Total Number of Data = 163
Number of Non-Detects = 65
Number of Detects = 98
Mean = 0.4375
Sd = 0.8394
Slope = 0.5160
Intercept = 0.4375
Correlation, R = 0.6102


Q-Q Plot with NDs for ln.TCE
Ordered Observations
Theoretical Quantiles (Standard Normal)
ln.TCE
ln.TCE
Total Number of Data = 163
Number of Non-Detects = 65
Number of Detects = 98
Mean = -1.4251
Sd = 0.9668
Slope = 0.9344
Intercept = -1.4251
Correlation, R = 0.9595


Lognormal Q-Q Plot for TCE
Statistics using Log ROS Method
Ordered Observations
Theoretical Quantiles (Standard Normal)
NDs Displayed in smaller font and red color
TCE
TCE
N = 163
Mean = -1.8616
Sd = 1.2187
Slope = 1.2143
Intercept = -1.8616
Correlation, R = 0.9892
Lilliefors Test
Test Statistic = 0.052
Critical Value(0.05) = 0.069
Data appear Lognormal

General Background Statistics for Data Sets with Non-Detects

User Selected Options	
From File	U:\MEWsite-LisaY\RIFScomments_Dec2007\RevisedBackground\ProUCLinput.wst
Full Precision	OFF
Confidence Coefficient	95%
Coverage	95%
Different or Future K Values	1
Number of Bootstrap Operations	10000

VC

General Statistics

Number of Valid Data	163	Number of Detected Data	8
Number of Distinct Detected Data	7	Number of Non-Detect Data	155
		Percent Non-Detects	95.09%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.1	Minimum Detected	-2.303
Maximum Detected	1.5	Maximum Detected	0.405
Mean of Detected	0.604	Mean of Detected	-0.779
SD of Detected	0.466	SD of Detected	0.834
Minimum Non-Detect	0.013	Minimum Non-Detect	-4.343
Maximum Non-Detect	0.77	Maximum Non-Detect	-0.261

Data with Multiple Detection Limits	Single Detection Limit Scenario	
Note: Data have multiple DLs - Use of KM Method is recommended	Number treated as Non-Detect with Single DL	161
For all methods (except KM, DL/2, and ROS Methods),	Number treated as Detected with Single DL	2
Observations < Largest ND are treated as NDs	Single DL Non-Detect Percentage	98.77%

Warning: There are only 8 Detected Values in this data

Note: It should be noted that even though bootstrap may be performed on this data set

the resulting calculations may not be reliable enough tp draw conclusions

It is recommended to have 10-15 or more distinct observations for accurate and meaningful results.

Background Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.869	Lilliefors Test Statistic	0.955
5% Lilliefors Critical Value	0.818	5% Lilliefors Critical Value	0.818
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.15	Mean (Log Scale)	-3.147
SD	0.217	SD (Log Scale)	1.643
95% UTL 95% Coverage	0.554	95% UTL 95% Coverage	0.909
95% UPL (t)	0.511	95% UPL (t)	0.656
90% Percentile (z)	0.429	90% Percentile (z)	0.353
95% Percentile (z)	0.508	95% Percentile (z)	0.641
99% Percentile (z)	0.656	99% Percentile (z)	1.962

Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
		Mean in Original Scale	0.0491
		SD in Original Scale	0.164
		Mean in Log Scale	-4.796
		SD in Log Scale	1.809
		95% UTL 95% Coverage	0.238
		95% UPL (t)	0.166
		90% Percentile (z)	0.0839
		95% Percentile (z)	0.162
		99% Percentile (z)	0.555
Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	1.316	Data appear Normal at 5% Significance Level	
Theta Star	0.459		
nu star	21.05		
A-D Test Statistic	0.275	Nonparametric Statistics	
5% A-D Critical Value	0.724	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.164	Mean	0.129
5% K-S Critical Value	0.298	SD	0.15
Data appear Gamma Distributed at 5% Significance Level		SE of Mean	0.0131
		95% KM UTL with 95% Coverage	0.407
Assuming Gamma Distribution		95% KM Chebyshev UPL	0.784
Gamma ROS Statistics with extrapolated Data		95% KM UPL (t)	0.377
Mean	0.558	90% Percentile (z)	0.321
Median	0.549	95% Percentile (z)	0.375
SD	0.203	99% Percentile (z)	0.477
k star	7.368		
Theta star	0.0757		
Nu star	2402		
95% Percentile of Chisquare (2k)	24.65		
90% Percentile	0.832		
95% Percentile	0.933		
99% Percentile	1.143		

Note: UPL (or upper percentile for gamma distributed data) represents a preferred estimate of BTV

For an Example: KM-UPL may be used when multiple detection limits are present

Note: DL/2 is not a recommended method.

General Background Statistics for Full Data Sets

User Selected Options	
From File	U:\MEWsite-LisaY\RIFScomments_Dec2007\RevisedBackground\ProUCLinput.wst
Full Precision	OFF
Confidence Coefficient	95%
Coverage	95%
Different or Future K Values	1
Number of Bootstrap Operations	10000

LnROS_VC

General Statistics

Total Number of Observations	163	Number of Distinct Observations	131

Raw Statistics		Log-Transformed Statistics	
Minimum	9.7944E-5	Minimum	-9.231
Maximum	1.5	Maximum	0.405
Second Largest	1.1	Second Largest	0.0953
First Quartile	0.00244	First Quartile	-6.016
Median	0.00694	Median	-4.971
Third Quartile	0.0236	Third Quartile	-3.748
Mean	0.0491	Mean	-4.796
SD	0.164	SD	1.809
Coefficient of Variation	3.338		
Skewness	6.483		

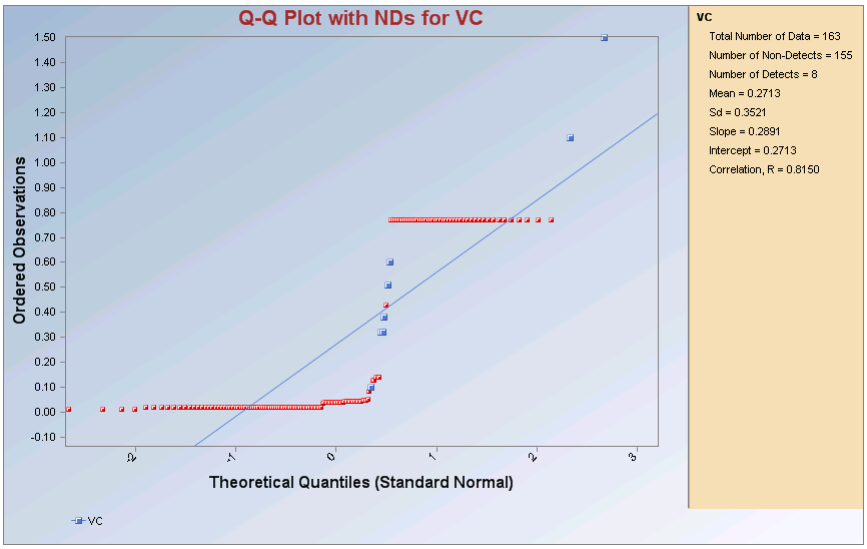
Background Statistics

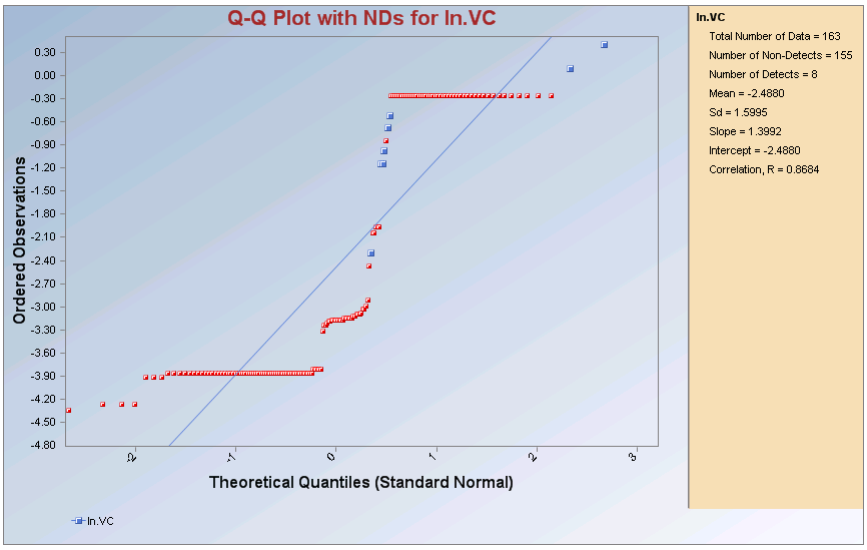
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.382	Lilliefors Test Statistic	0.0452
Lilliefors Critical Value	0.0694	Lilliefors Critical Value	0.0694
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

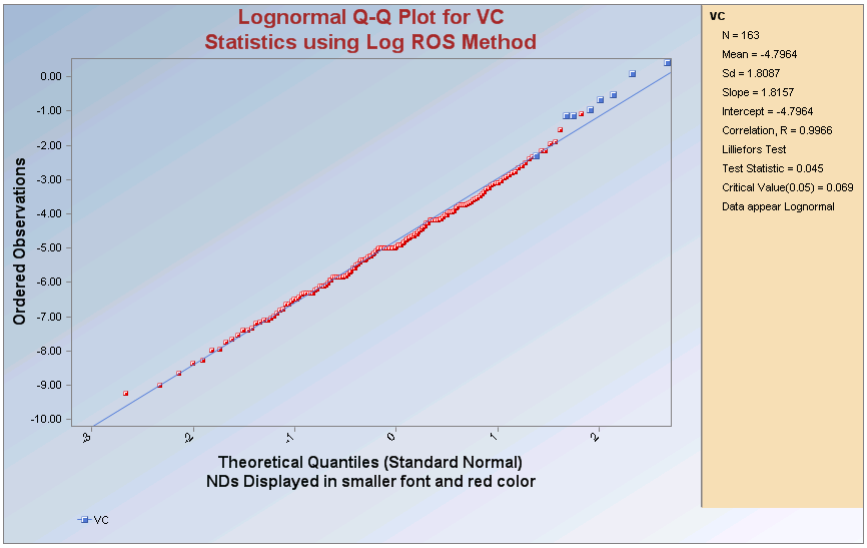
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% UTL with 95% Coverage	0.354	95% UTL with 95% Coverage	0.238
95% UPL (t)	0.321	95% UPL (t)	0.166
90% Percentile (z)	0.259	90% Percentile (z)	0.0839
95% Percentile (z)	0.319	95% Percentile (z)	0.162
99% Percentile (z)	0.431	99% Percentile (z)	0.555

Gamma Distribution Test		Data Distribution Test	
k star	0.37	Data appear Lognormal at 5% Significance Level	
Theta Star	0.133		
nu star	120.8		
A-D Test Statistic	10.1	Nonparametric Statistics	
5% A-D Critical Value	0.851	90% Percentile	0.0873
K-S Test Statistic	0.191	95% Percentile	0.298
5% K-S Critical Value	0.0787	99% Percentile	1.244
Data not Gamma Distributed at 5% Significance Level			
Assuming Gamma Distribution		95% UTL with 95% Coverage	0.38
90% Percentile	0.141	95% Percentile Bootstrap UTL with 95% Coverage	0.374

				95% Percentile	0.21					95% BCA Bootstrap UTL with 95% Coverage	0.371
				99% Percentile	0.385					95% UPL	0.298
										95% Chebyshev UPL	0.766
										Upper Threshold Limit Based upon IQR	0.0553
Note: UPL (or upper percentile for gamma distributed data) represents a preferred estimate of BTV											


Q-Q Plot with NDs for VC
Ordered Observations
Theoretical Quantiles (Standard Normal)
VC
VC
Total Number of Data = 163
Number of Non-Detects = 155
Number of Detects = 8
Mean = 0.2713
Sd = 0.3521
Slope = 0.2891
Intercept = 0.2713
Correlation, R = 0.8150


Q-Q Plot with NDs for ln.VC
Ordered Observations
Theoretical Quantiles (Standard Normal)
ln.VC
ln.VC
Total Number of Data = 163
Number of Non-Detects = 155
Number of Detects = 8
Mean = -2.4880
Sd = 1.5995
Slope = 1.3992
Intercept = -2.4880
Correlation, R = 0.8684


Lognormal Q-Q Plot for VC
Statistics using Log ROS Method
Ordered Observations
Theoretical Quantiles (Standard Normal)
NDs Displayed in smaller font and red color
VC
VC
N = 163
Mean = -4.7964
Sd = 1.8087
Slope = 1.8157
Intercept = -4.7964
Correlation, R = 0.9966
Lilliefors Test
Test Statistic = 0.045
Critical Value(0.05) = 0.069
Data appear Lognormal

General Background Statistics for Data Sets with Non-Detects

User Selected Options	
From File	U:\MEWsite-LisaY\RIFScomments_Dec2007\RevisedBackground\ProUCLinput.wst
Full Precision	OFF
Confidence Coefficient	95%
Coverage	95%
Different or Future K Values	1
Number of Bootstrap Operations	10000

12DCB

General Statistics

Number of Valid Data	91	Number of Detected Data	3
Number of Distinct Detected Data	3	Number of Non-Detect Data	88
		Percent Non-Detects	96.70%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.15	Minimum Detected	-1.897
Maximum Detected	0.92	Maximum Detected	-0.0834
Mean of Detected	0.413	Mean of Detected	-1.251
SD of Detected	0.439	SD of Detected	1.013
Minimum Non-Detect	0.063	Minimum Non-Detect	-2.765
Maximum Non-Detect	1	Maximum Non-Detect	0

Data with Multiple Detection Limits	Single Detection Limit Scenario	
Note: Data have multiple DLs - Use of KM Method is recommended	Number treated as Non-Detect with Single DL	91
For all methods (except KM, DL/2, and ROS Methods),	Number treated as Detected with Single DL	0
Observations < Largest ND are treated as NDs	Single DL Non-Detect Percentage	100.00%

Warning: There are only 3 Distinct Detected Values in this data set

The number of detected data may not be adequate enough to perform GOF tests, bootstrap, and ROS methods.

Those methods will return a 'N/A' value on your output display!

It is necessary to have 4 or more Distinct Values for bootstrap methods.

It is recommended to have 10 to 15 or more observations for accurate and meaningful results and estimates.

Background Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.769	Lilliefors Test Statistic	0.801
5% Lilliefors Critical Value	0.767	5% Lilliefors Critical Value	0.767
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.144	Mean (Log Scale)	-2.033
SD	0.0952	SD (Log Scale)	0.421
95% UTL 95% Coverage	0.329	95% UTL 95% Coverage	0.296
95% UPL (t)	0.304	95% UPL (t)	0.265
90% Percentile (z)	0.266	90% Percentile (z)	0.225
95% Percentile (z)	0.301	95% Percentile (z)	0.262
99% Percentile (z)	0.366	99% Percentile (z)	0.349

Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
		Mean in Original Scale	0.0726
		SD in Original Scale	0.11
		Mean in Log Scale	-3.157
		SD in Log Scale	1
		95% UTL 95% Coverage	0.296
		95% UPL (t)	0.226
		90% Percentile (z)	0.153
		95% Percentile (z)	0.22
		99% Percentile (z)	0.436
Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	N/A	Data appear Normal at 5% Significance Level	
Theta Star	N/A		
nu star	N/A		
A-D Test Statistic	0.556	Nonparametric Statistics	
5% A-D Critical Value	N/A	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.412	Mean	0.161
5% K-S Critical Value	N/A	SD	0.0807
Data not Gamma Distributed at 5% Significance Level		SE of Mean	0.0107
		95% KM UTL with 95% Coverage	0.317
Assuming Gamma Distribution		95% KM Chebyshev UPL	0.515
Gamma ROS Statistics with extrapolated Data		95% KM UPL (t)	0.296
Mean	N/A	90% Percentile (z)	0.264
Median	N/A	95% Percentile (z)	0.294
SD	N/A	99% Percentile (z)	0.349
k star	N/A		
Theta star	N/A		
Nu star	N/A		
95% Percentile of Chisquare (2k)	N/A		
90% Percentile	N/A		
95% Percentile	N/A		
99% Percentile	N/A		

Note: UPL (or upper percentile for gamma distributed data) represents a preferred estimate of BTV

For an Example: KM-UPL may be used when multiple detection limits are present

Note: DL/2 is not a recommended method.

General Background Statistics for Full Data Sets

User Selected Options	
From File	U:\MEWsite-LisaY\RIFScomments_Dec2007\RevisedBackground\ProUCLinput.wst
Full Precision	OFF
Confidence Coefficient	95%
Coverage	95%
Different or Future K Values	1
Number of Bootstrap Operations	10000

LnROS_12DCB

General Statistics

Total Number of Observations	91	Number of Distinct Observations	82

Raw Statistics		Log-Transformed Statistics	
Minimum	0.0047	Minimum	-5.359
Maximum	0.92	Maximum	-0.0834
Second Largest	0.318	Second Largest	-1.147
First Quartile	0.0212	First Quartile	-3.855
Median	0.0413	Median	-3.186
Third Quartile	0.0826	Third Quartile	-2.494
Mean	0.0726	Mean	-3.157
SD	0.11	SD	1
Coefficient of Variation	1.516		
Skewness	5.488		

Background Statistics

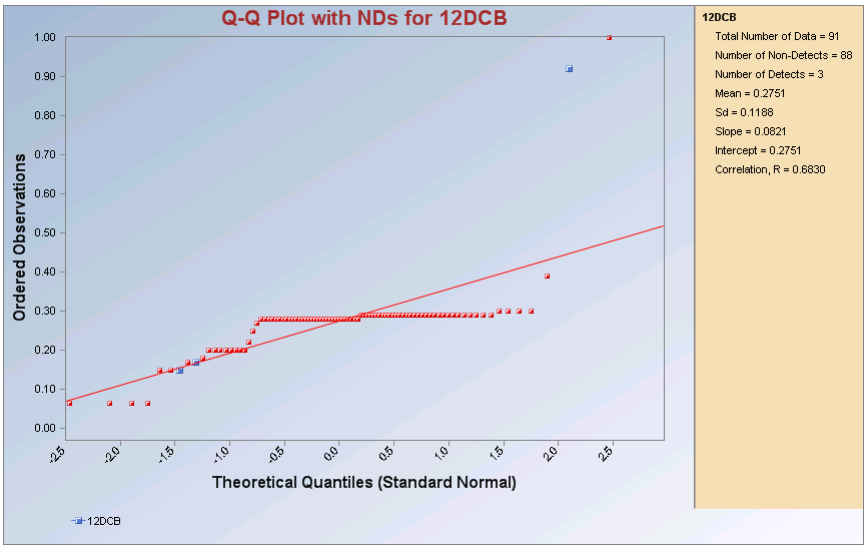
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.269	Lilliefors Test Statistic	0.0547
Lilliefors Critical Value	0.0929	Lilliefors Critical Value	0.0929
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

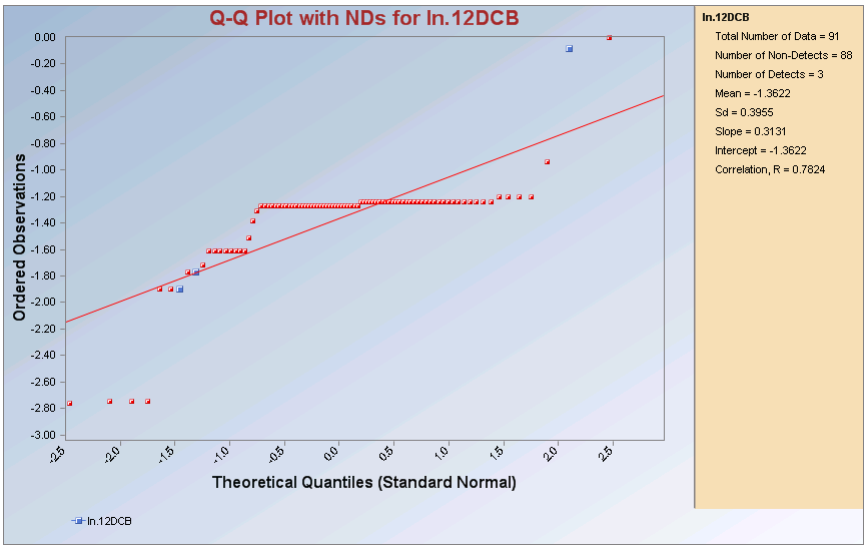
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% UTL with 95% Coverage	0.286	95% UTL with 95% Coverage	0.296
95% UPL (t)	0.257	95% UPL (t)	0.226
90% Percentile (z)	0.214	90% Percentile (z)	0.153
95% Percentile (z)	0.254	95% Percentile (z)	0.22
99% Percentile (z)	0.329	99% Percentile (z)	0.436

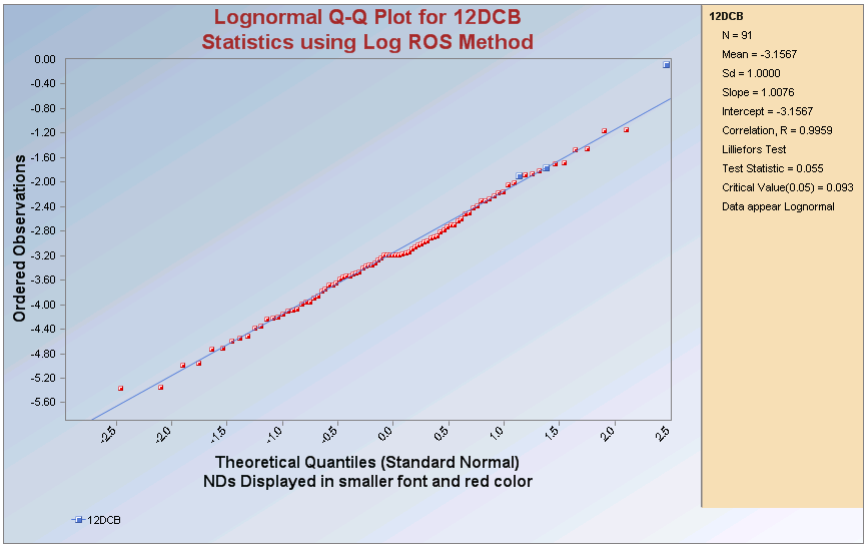
Gamma Distribution Test		Data Distribution Test	
k star	1.044	Data appear Lognormal at 5% Significance Level	
Theta Star	0.0696		
nu star	189.9		
A-D Test Statistic	1.812	Nonparametric Statistics	
5% A-D Critical Value	0.781	90% Percentile	0.162
K-S Test Statistic	0.128	95% Percentile	0.23
5% K-S Critical Value	0.0964	99% Percentile	0.92
Data not Gamma Distributed at 5% Significance Level			
Assuming Gamma Distribution		95% UTL with 95% Coverage	0.314
90% Percentile	0.165	95% Percentile Bootstrap UTL with 95% Coverage	0.314

				95% Percentile	0.214					95% BCA Bootstrap UTL with 95% Coverage	0.314
				99% Percentile	0.327					95% UPL	0.23
										95% Chebyshev UPL	0.555
										Upper Threshold Limit Based upon IQR	0.175

Note: UPL (or upper percentile for gamma distributed data) represents a preferred estimate of BTV


Q-Q Plot with NDs for 12DCB
Ordered Observations
Theoretical Quantiles (Standard Normal)
12DCB
12DCB
Total Number of Data = 91
Number of Non-Detects = 88
Number of Detects = 3
Mean = 0.2751
Sd = 0.1188
Slope = 0.0821
Intercept = 0.2751
Correlation, R = 0.6830


Q-Q Plot with NDs for ln.12DCB
Ordered Observations
Theoretical Quantiles (Standard Normal)
ln.12DCB
ln.12DCB
Total Number of Data = 91
Number of Non-Detects = 88
Number of Detects = 3
Mean = -1.3622
Sd = 0.3955
Slope = 0.3131
Intercept = -1.3622
Correlation, R = 0.7824


Lognormal Q-Q Plot for 12DCB
Statistics using Log ROS Method
Ordered Observations
Theoretical Quantiles (Standard Normal)
NDs Displayed in smaller font and red color
12DCB
12DCB
N = 91
Mean = -3.1567
Sd = 1.0000
Slope = 1.0076
Intercept = -3.1567
Correlation, R = 0.9959
Lilliefors Test
Test Statistic = 0.055
Critical Value(0.05) = 0.093
Data appear Lognormal

General Background Statistics for Data Sets with Non-Detects

User Selected Options	
From File	U:\MEWsite-LisaY\RIFScomments_Dec2007\RevisedBackground\ProUCLinput.wst
Full Precision	OFF
Confidence Coefficient	95%
Coverage	95%
Different or Future K Values	1
Number of Bootstrap Operations	10000

11DCE

General Statistics

Number of Valid Data	93	Number of Detected Data	3
Number of Distinct Detected Data	3	Number of Non-Detect Data	90
		Percent Non-Detects	96.77%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.016	Minimum Detected	-4.135
Maximum Detected	0.065	Maximum Detected	-2.733
Mean of Detected	0.0393	Mean of Detected	-3.388
SD of Detected	0.0246	SD of Detected	0.705
Minimum Non-Detect	0.026	Minimum Non-Detect	-3.65
Maximum Non-Detect	0.67	Maximum Non-Detect	-0.4

Data with Multiple Detection Limits	Single Detection Limit Scenario	
Note: Data have multiple DLs - Use of KM Method is recommended	Number treated as Non-Detect with Single DL	93
For all methods (except KM, DL/2, and ROS Methods),	Number treated as Detected with Single DL	0
Observations < Largest ND are treated as NDs	Single DL Non-Detect Percentage	100.00%

Warning: There are only 3 Distinct Detected Values in this data set

The number of detected data may not be adequate enough to perform GOF tests, bootstrap, and ROS methods.

Those methods will return a 'N/A' value on your output display!

It is necessary to have 4 or more Distinct Values for bootstrap methods.

It is recommended to have 10 to 15 or more observations for accurate and meaningful results and estimates.

Background Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.993	Lilliefors Test Statistic	0.987
5% Lilliefors Critical Value	0.767	5% Lilliefors Critical Value	0.767
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.0308	Mean (Log Scale)	-3.689
SD	0.0372	SD (Log Scale)	0.505
95% UTL 95% Coverage	0.103	95% UTL 95% Coverage	0.0664
95% UPL (t)	0.0929	95% UPL (t)	0.0581
90% Percentile (z)	0.0785	90% Percentile (z)	0.0478
95% Percentile (z)	0.092	95% Percentile (z)	0.0574
99% Percentile (z)	0.117	99% Percentile (z)	0.081

Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
		Mean in Original Scale	0.02
		SD in Original Scale	0.00931
		Mean in Log Scale	-4.002
		SD in Log Scale	0.425
		95% UTL 95% Coverage	0.0416
		95% UPL (t)	0.0372
		90% Percentile (z)	0.0315
		95% Percentile (z)	0.0368
		99% Percentile (z)	0.0492
Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	N/A	Data appear Normal at 5% Significance Level	
Theta Star	N/A		
nu star	N/A		
A-D Test Statistic	0.249	Nonparametric Statistics	
5% A-D Critical Value	N/A	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.229	Mean	0.0201
5% K-S Critical Value	N/A	SD	0.00928
Data not Gamma Distributed at 5% Significance Level		SE of Mean	0.00393
		95% KM UTL with 95% Coverage	0.038
Assuming Gamma Distribution		95% KM Chebyshev UPL	0.0607
Gamma ROS Statistics with extrapolated Data		95% KM UPL (t)	0.0356
Mean	N/A	90% Percentile (z)	0.032
Median	N/A	95% Percentile (z)	0.0353
SD	N/A	99% Percentile (z)	0.0416
k star	N/A		
Theta star	N/A		
Nu star	N/A		
95% Percentile of Chisquare (2k)	N/A		
90% Percentile	N/A		
95% Percentile	N/A		
99% Percentile	N/A		

Note: UPL (or upper percentile for gamma distributed data) represents a preferred estimate of BTV

For an Example: KM-UPL may be used when multiple detection limits are present

Note: DL/2 is not a recommended method.

General Background Statistics for Full Data Sets

User Selected Options	
From File	U:\MEWsite-LisaY\RIFScomments_Dec2007\RevisedBackground\ProUCLinput.wst
Full Precision	OFF
Confidence Coefficient	95%
Coverage	95%
Different or Future K Values	1
Number of Bootstrap Operations	10000

LnROS_11DCE

General Statistics

Total Number of Observations	93	Number of Distinct Observations	79

Raw Statistics		Log-Transformed Statistics	
Minimum	0.00699	Minimum	-4.964
Maximum	0.065	Maximum	-2.733
Second Largest	0.0439	Second Largest	-3.127
First Quartile	0.0137	First Quartile	-4.29
Median	0.0181	Median	-4.014
Third Quartile	0.024	Third Quartile	-3.73
Mean	0.02	Mean	-4.002
SD	0.00931	SD	0.425
Coefficient of Variation	0.464		
Skewness	1.746		

Background Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.16	Lilliefors Test Statistic	0.0847
Lilliefors Critical Value	0.0919	Lilliefors Critical Value	0.0919
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

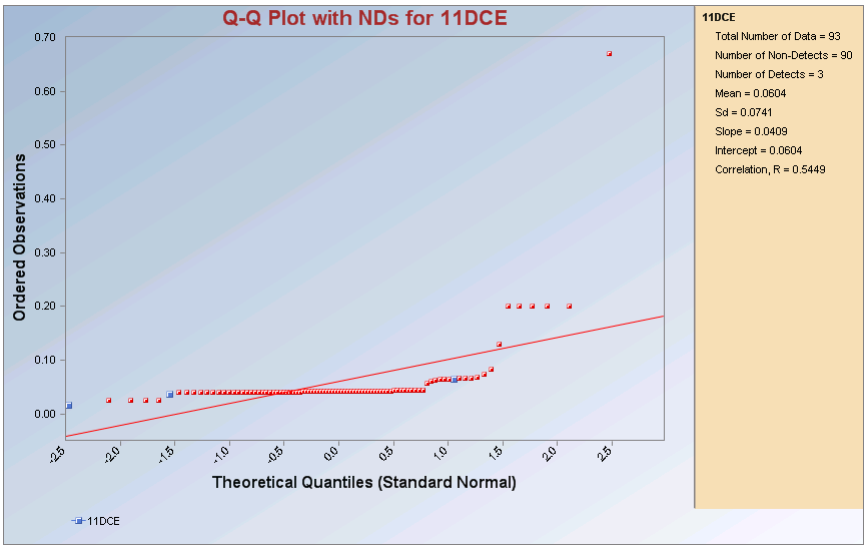
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% UTL with 95% Coverage	0.0381	95% UTL with 95% Coverage	0.0416
95% UPL (t)	0.0356	95% UPL (t)	0.0372
90% Percentile (z)	0.032	90% Percentile (z)	0.0315
95% Percentile (z)	0.0354	95% Percentile (z)	0.0368
99% Percentile (z)	0.0417	99% Percentile (z)	0.0492

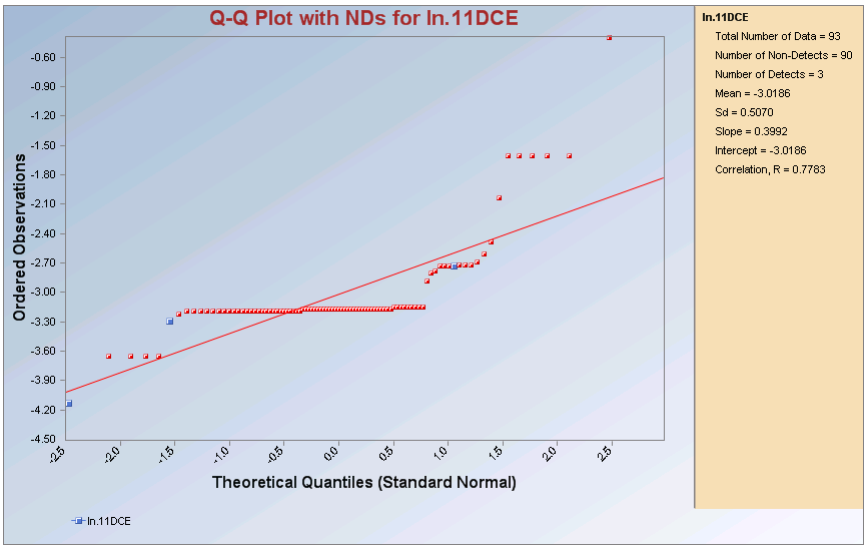
Gamma Distribution Test		Data Distribution Test	
k star	5.438	Data Follow Appr. Gamma Distribution at 5% Significance Level	
Theta Star	0.00369		
nu star	1011		
A-D Test Statistic	0.629	Nonparametric Statistics	
5% A-D Critical Value	0.754	90% Percentile	0.0329
K-S Test Statistic	0.113	95% Percentile	0.0375
5% K-S Critical Value	0.0929	99% Percentile	0.065
Data follow Appx. Gamma Distribution at 5% Significance Level			

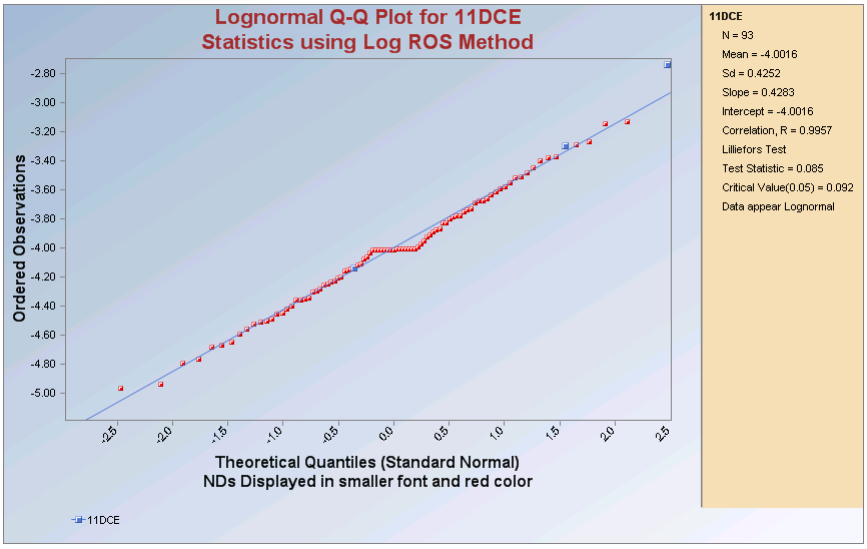
Assuming Gamma Distribution			
		95% UTL with 95% Coverage	0.0431
90% Percentile	0.0315	95% Percentile Bootstrap UTL with 95% Coverage	0.0431

				95% Percentile	0.0359					95% BCA Bootstrap UTL with 95% Coverage	0.0431
				99% Percentile	0.0452					95% UPL	0.0375
										95% Chebyshev UPL	0.0608
										Upper Threshold Limit Based upon IQR	0.0394

Note: UPL (or upper percentile for gamma distributed data) represents a preferred estimate of BTV


Q-Q Plot with NDs for 11DCE
Ordered Observations
Theoretical Quantiles (Standard Normal)
11DCE
11DCE
Total Number of Data = 93
Number of Non-Detects = 90
Number of Detects = 3
Mean = 0.0604
Sd = 0.0741
Slope = 0.0409
Intercept = 0.0604
Correlation, R = 0.5449


Q-Q Plot with NDs for ln.11DCE
Ordered Observations
Theoretical Quantiles (Standard Normal)
ln.11DCE
ln.11DCE
Total Number of Data = 93
Number of Non-Detects = 90
Number of Detects = 3
Mean = -3.0186
Sd = 0.5070
Slope = 0.3992
Intercept = -3.0186
Correlation, R = 0.7783


Lognormal Q-Q Plot for 11DCE
Statistics using Log ROS Method
Ordered Observations
Theoretical Quantiles (Standard Normal)
NDs Displayed in smaller font and red color
11DCE
11DCE
N = 93
Mean = -4.0016
Sd = 0.4252
Slope = 0.4283
Intercept = -4.0016
Correlation, R = 0.9957
Lilliefors Test
Test Statistic = 0.085
Critical Value(0.05) = 0.092
Data appear Lognormal

General Background Statistics for Data Sets with Non-Detects

User Selected Options	
From File	U:\MEWsite-LisaY\RIFScomments_Dec2007\RevisedBackground\ProUCLinput.wst
Full Precision	OFF
Confidence Coefficient	95%
Coverage	95%
Different or Future K Values	1
Number of Bootstrap Operations	10000

cis12DCE

General Statistics

Number of Valid Data	117	Number of Detected Data	40
Number of Distinct Detected Data	29	Number of Non-Detect Data	77
		Percent Non-Detects	65.81%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.012	Minimum Detected	-4.423
Maximum Detected	0.17	Maximum Detected	-1.772
Mean of Detected	0.044	Mean of Detected	-3.383
SD of Detected	0.0348	SD of Detected	0.718
Minimum Non-Detect	0.026	Minimum Non-Detect	-3.65
Maximum Non-Detect	0.67	Maximum Non-Detect	-0.4

Data with Multiple Detection Limits	Single Detection Limit Scenario	
Note: Data have multiple DLs - Use of KM Method is recommended	Number treated as Non-Detect with Single DL	117
For all methods (except KM, DL/2, and ROS Methods),	Number treated as Detected with Single DL	0
Observations < Largest ND are treated as NDs	Single DL Non-Detect Percentage	100.00%

Background Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.818	Lilliefors Test Statistic	0.943
5% Lilliefors Critical Value	0.94	5% Lilliefors Critical Value	0.94
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.0519	Mean (Log Scale)	-3.168
SD	0.0393	SD (Log Scale)	0.65
95% UTL 95% Coverage	0.127	95% UTL 95% Coverage	0.145
95% UPL (t)	0.117	95% UPL (t)	0.124
90% Percentile (z)	0.102	90% Percentile (z)	0.0968
95% Percentile (z)	0.116	95% Percentile (z)	0.123
99% Percentile (z)	0.143	99% Percentile (z)	0.191
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
		Mean in Original Scale	0.0343
		SD in Original Scale	0.0242
		Mean in Log Scale	-3.551
		SD in Log Scale	0.576
		95% UTL 95% Coverage	0.0858
		95% UPL (t)	0.0749

		90% Percentile (z)	0.0601
		95% Percentile (z)	0.074
		99% Percentile (z)	0.11
Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	1.938	Data appear Lognormal at 5% Significance Level	
Theta Star	0.0227		
nu star	155.1		
A-D Test Statistic	0.865	Nonparametric Statistics	
5% A-D Critical Value	0.759	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.143	Mean	0.0353
5% K-S Critical Value	0.141	SD	0.0268
Data not Gamma Distributed at 5% Significance Level		SE of Mean	0.00336
		95% KM UTL with 95% Coverage	0.0862
Assuming Gamma Distribution		95% KM Chebyshev UPL	0.153
Gamma ROS Statistics with extrapolated Data		95% KM UPL (t)	0.0799
Mean	0.0454	90% Percentile (z)	0.0696
Median	0.046	95% Percentile (z)	0.0794
SD	0.0226	99% Percentile (z)	0.0976
k star	4.318		
Theta star	0.0105		
Nu star	1010		
95% Percentile of Chisquare (2k)	16.41		
90% Percentile	0.0747		
95% Percentile	0.0862		
99% Percentile	0.111		

Note: UPL (or upper percentile for gamma distributed data) represents a preferred estimate of BTV

For an Example: KM-UPL may be used when multiple detection limits are present

Note: DL/2 is not a recommended method.

General Background Statistics for Full Data Sets

User Selected Options	
From File	U:\MEWsite-LisaY\RIFScomments_Dec2007\RevisedBackground\ProUCLinput.wst
Full Precision	OFF
Confidence Coefficient	95%
Coverage	95%
Different or Future K Values	1
Number of Bootstrap Operations	10000

LnROS_cis12DCE

General Statistics

Total Number of Observations	117	Number of Distinct Observations	100

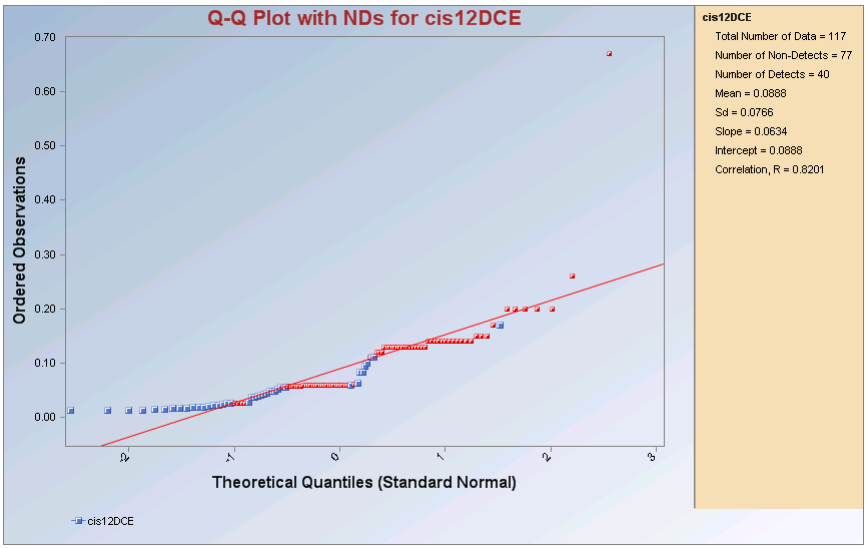
Raw Statistics		Log-Transformed Statistics	
Minimum	0.00997	Minimum	-4.608
Maximum	0.17	Maximum	-1.772
Second Largest	0.11	Second Largest	-2.207
First Quartile	0.0181	First Quartile	-4.012
Median	0.028	Median	-3.576
Third Quartile	0.0438	Third Quartile	-3.128
Mean	0.0343	Mean	-3.551
SD	0.0242	SD	0.576
Coefficient of Variation	0.705		
Skewness	2.511		

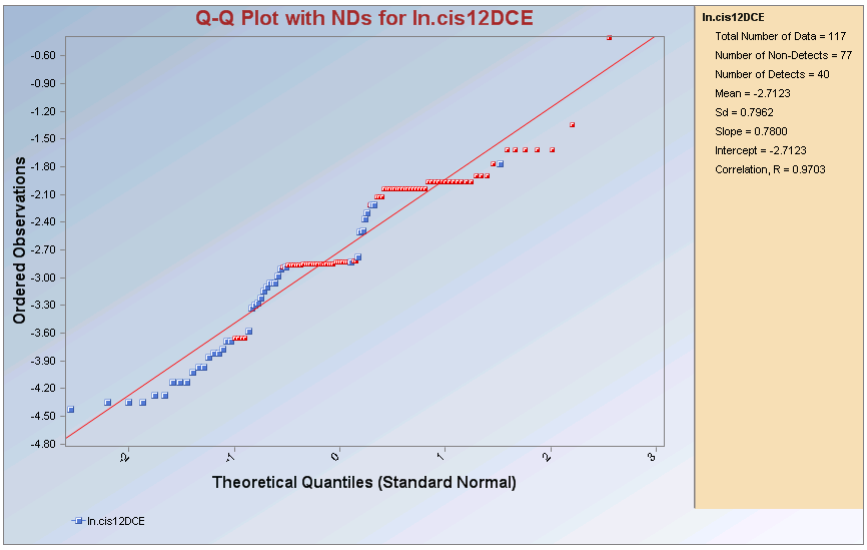
Background Statistics

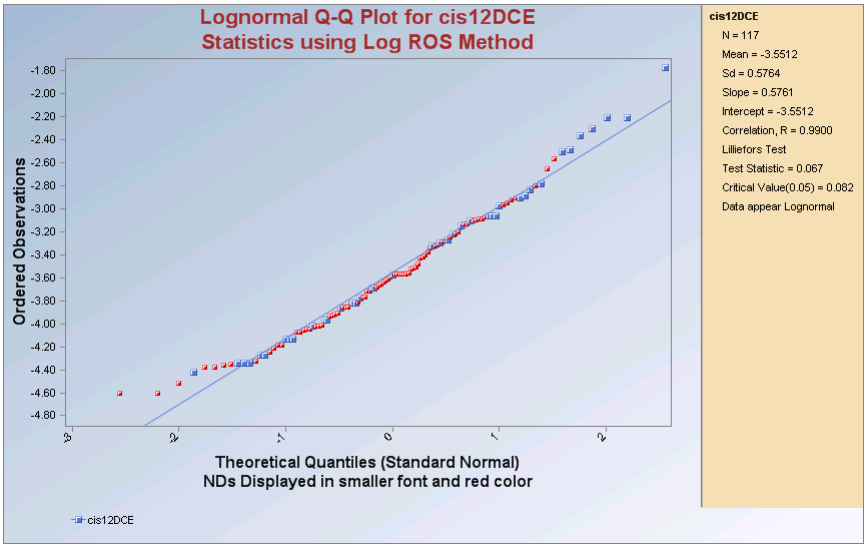
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.161	Lilliefors Test Statistic	0.0675
Lilliefors Critical Value	0.0819	Lilliefors Critical Value	0.0819
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% UTL with 95% Coverage	0.0803	95% UTL with 95% Coverage	0.0858
95% UPL (t)	0.0746	95% UPL (t)	0.0749
90% Percentile (z)	0.0653	90% Percentile (z)	0.0601
95% Percentile (z)	0.0741	95% Percentile (z)	0.074
99% Percentile (z)	0.0906	99% Percentile (z)	0.11

Gamma Distribution Test		Data Distribution Test	
k star	2.881	Data appear Lognormal at 5% Significance Level	
Theta Star	0.0119		
nu star	674.2		
A-D Test Statistic	1.622	Nonparametric Statistics	
5% A-D Critical Value	0.759	90% Percentile	0.0594
K-S Test Statistic	0.107	95% Percentile	0.0841
5% K-S Critical Value	0.0857	99% Percentile	0.159
Data not Gamma Distributed at 5% Significance Level			
Assuming Gamma Distribution		95% UTL with 95% Coverage	0.1
90% Percentile	0.0614	95% Percentile Bootstrap UTL with 95% Coverage	0.102

				95% Percentile	0.0728					95% BCA Bootstrap UTL with 95% Coverage	0.102
				99% Percentile	0.0977					95% UPL	0.0841
										95% Chebyshev UPL	0.14
										Upper Threshold Limit Based upon IQR	0.0824
Note: UPL (or upper percentile for gamma distributed data) represents a preferred estimate of BTV											


Q-Q Plot with NDs for cis12DCE
Ordered Observations
Theoretical Quantiles (Standard Normal)
cis12DCE
cis12DCE
Total Number of Data = 117
Number of Non-Detects = 77
Number of Detects = 40
Mean = 0.0888
Sd = 0.0766
Slope = 0.0634
Intercept = 0.0888
Correlation, R = 0.8201


Q-Q Plot with NDs for ln.cis12DCE
Ordered Observations
Theoretical Quantiles (Standard Normal)
ln.cis12DCE
ln.cis12DCE
Total Number of Data = 117
Number of Non-Detects = 77
Number of Detects = 40
Mean = -2.7123
Sd = 0.7962
Slope = 0.7800
Intercept = -2.7123
Correlation, R = 0.9703


Lognormal Q-Q Plot for cis12DCE
Statistics using Log ROS Method
Ordered Observations
Theoretical Quantiles (Standard Normal)
NDs Displayed in smaller font and red color
cis12DCE
cis12DCE
N = 117
Mean = -3.5512
Sd = 0.5764
Slope = 0.5761
Intercept = -3.5512
Correlation, R = 0.9900
Lilliefors Test
Test Statistic = 0.067
Critical Value(0.05) = 0.082
Data appear Lognormal

General Background Statistics for Data Sets with Non-Detects

User Selected Options	
From File	U:\MEWsite-LisaY\RIFScomments_Dec2007\RevisedBackground\ProUCLinput.wst
Full Precision	OFF
Confidence Coefficient	95%
Coverage	95%
Different or Future K Values	1
Number of Bootstrap Operations	10000

trans12DCE

General Statistics

Number of Valid Data	87	Number of Detected Data	9
Number of Distinct Detected Data	7	Number of Non-Detect Data	78
		Percent Non-Detects	89.66%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.011	Minimum Detected	-4.51
Maximum Detected	0.02	Maximum Detected	-3.912
Mean of Detected	0.0147	Mean of Detected	-4.244
SD of Detected	0.00332	SD of Detected	0.22
Minimum Non-Detect	0.056	Minimum Non-Detect	-2.882
Maximum Non-Detect	1.3	Maximum Non-Detect	0.262

Data with Multiple Detection Limits	Single Detection Limit Scenario	
Note: Data have multiple DLs - Use of KM Method is recommended	Number treated as Non-Detect with Single DL	87
For all methods (except KM, DL/2, and ROS Methods),	Number treated as Detected with Single DL	0
Observations < Largest ND are treated as NDs	Single DL Non-Detect Percentage	100.00%

Warning: There are only 9 Detected Values in this data

Note: It should be noted that even though bootstrap may be performed on this data set

the resulting calculations may not be reliable enough tp draw conclusions

It is recommended to have 10-15 or more distinct observations for accurate and meaningful results.

Background Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.888	Lilliefors Test Statistic	0.903
5% Lilliefors Critical Value	0.829	5% Lilliefors Critical Value	0.829
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.0842	Mean (Log Scale)	-3.155
SD	0.128	SD (Log Scale)	0.998
95% UTL 95% Coverage	0.333	95% UTL 95% Coverage	0.297
95% UPL (t)	0.298	95% UPL (t)	0.226
90% Percentile (z)	0.248	90% Percentile (z)	0.153
95% Percentile (z)	0.294	95% Percentile (z)	0.22
99% Percentile (z)	0.381	99% Percentile (z)	0.434

Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
		Mean in Original Scale	0.0146
		SD in Original Scale	0.00293
		Mean in Log Scale	-4.244
		SD in Log Scale	0.198
		95% UTL 95% Coverage	0.0211
		95% UPL (t)	0.02
		90% Percentile (z)	0.0185
		95% Percentile (z)	0.0199
		99% Percentile (z)	0.0228
Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	15.41	Data appear Normal at 5% Significance Level	
Theta Star	9.5201E-4		
nu star	277.3		
A-D Test Statistic	0.473	Nonparametric Statistics	
5% A-D Critical Value	0.721	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.25	Mean	0.0147
5% K-S Critical Value	0.279	SD	0.00313
Data appear Gamma Distributed at 5% Significance Level		SE of Mean	0.00111
		95% KM UTL with 95% Coverage	0.0208
Assuming Gamma Distribution		95% KM Chebyshev UPL	0.0284
Gamma ROS Statistics with extrapolated Data		95% KM UPL (t)	0.0199
Mean	0.0147	90% Percentile (z)	0.0187
Median	0.0153	95% Percentile (z)	0.0198
SD	0.00279	99% Percentile (z)	0.0219
k star	23.01		
Theta star	6.3880E-4		
Nu star	4004		
95% Percentile of Chisquare (2k)	62.85		
90% Percentile	0.0187		
95% Percentile	0.0201		
99% Percentile	0.0227		

Note: UPL (or upper percentile for gamma distributed data) represents a preferred estimate of BTV

For an Example: KM-UPL may be used when multiple detection limits are present

Note: DL/2 is not a recommended method.

General Background Statistics for Full Data Sets

User Selected Options	
From File	U:\MEWsite-LisaY\RIFScomments_Dec2007\RevisedBackground\ProUCLinput.wst
Full Precision	OFF
Confidence Coefficient	95%
Coverage	95%
Different or Future K Values	1
Number of Bootstrap Operations	10000

LnROS_trans12DCE

General Statistics

Total Number of Observations	87	Number of Distinct Observations	66

Raw Statistics		Log-Transformed Statistics	
Minimum	0.00921	Minimum	-4.687
Maximum	0.0223	Maximum	-3.801
Second Largest	0.0222	Second Largest	-3.807
First Quartile	0.0123	First Quartile	-4.401
Median	0.0143	Median	-4.244
Third Quartile	0.0166	Third Quartile	-4.098
Mean	0.0146	Mean	-4.244
SD	0.00293	SD	0.198
Coefficient of Variation	0.2		
Skewness	0.511		

Background Statistics

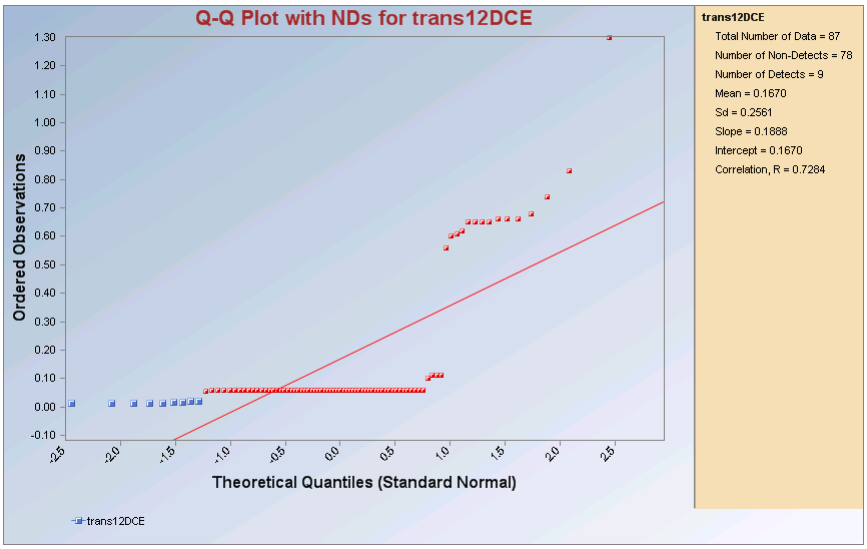
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.125	Lilliefors Test Statistic	0.0862
Lilliefors Critical Value	0.095	Lilliefors Critical Value	0.095
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

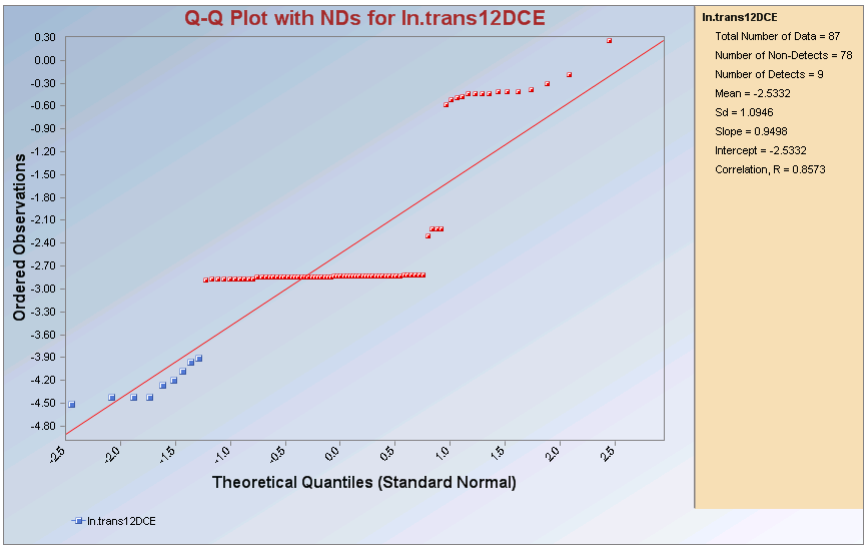
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% UTL with 95% Coverage	0.0203	95% UTL with 95% Coverage	0.0211
95% UPL (t)	0.0195	95% UPL (t)	0.02
90% Percentile (z)	0.0184	90% Percentile (z)	0.0185
95% Percentile (z)	0.0194	95% Percentile (z)	0.0199
99% Percentile (z)	0.0214	99% Percentile (z)	0.0228

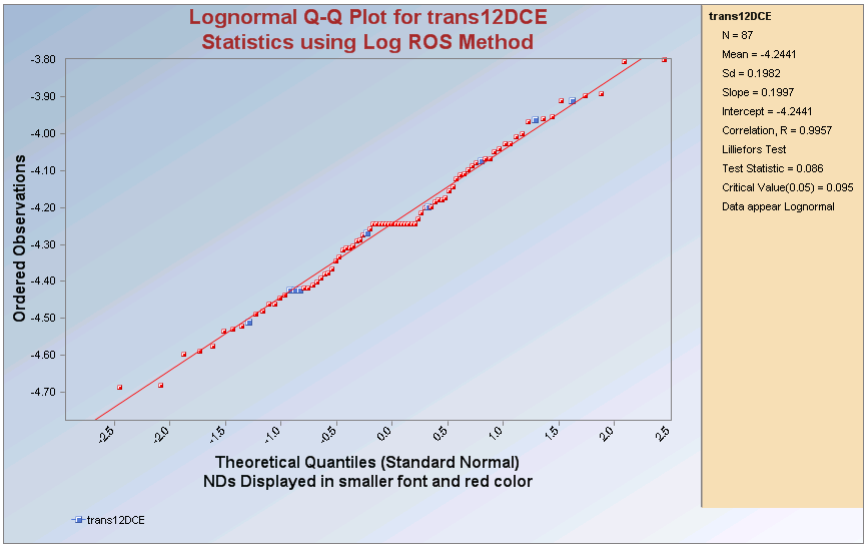
Gamma Distribution Test		Data Distribution Test	
k star	25	Data Follow Appr. Gamma Distribution at 5% Significance Level	
Theta Star	5.8521E-4		
nu star	4350		
A-D Test Statistic	0.434	Nonparametric Statistics	
5% A-D Critical Value	0.75	90% Percentile	0.019
K-S Test Statistic	0.0993	95% Percentile	0.0202
5% K-S Critical Value	0.0956	99% Percentile	0.0223
Data follow Appx. Gamma Distribution at 5% Significance Level			
Assuming Gamma Distribution		95% UTL with 95% Coverage	0.0204
90% Percentile	0.0185	95% Percentile Bootstrap UTL with 95% Coverage	0.0204

				95% Percentile	0.0198					95% BCA Bootstrap UTL with 95% Coverage	0.0215
				99% Percentile	0.0223					95% UPL	0.0202
										95% Chebyshev UPL	0.0275
										Upper Threshold Limit Based upon IQR	0.0231

Note: UPL (or upper percentile for gamma distributed data) represents a preferred estimate of BTV


Q-Q Plot with NDs for trans12DCE
Ordered Observations
Theoretical Quantiles (Standard Normal)
trans12DCE
trans12DCE
Total Number of Data = 87
Number of Non-Detects = 78
Number of Detects = 9
Mean = 0.1670
Sd = 0.2561
Slope = 0.1888
Intercept = 0.1670
Correlation, R = 0.7284


Q-Q Plot with NDs for ln.trans12DCE
Ordered Observations
Theoretical Quantiles (Standard Normal)
ln.trans12DCE
ln.trans12DCE
Total Number of Data = 87
Number of Non-Detects = 78
Number of Detects = 9
Mean = -2.5332
Sd = 1.0946
Slope = 0.9498
Intercept = -2.5332
Correlation, R = 0.8573


Lognormal Q-Q Plot for trans12DCE
Statistics using Log ROS Method
Ordered Observations
Theoretical Quantiles (Standard Normal)
NDs Displayed in smaller font and red color
trans12DCE
trans12DCE
N = 87
Mean = -4.2441
Sd = 0.1982
Slope = 0.1997
Intercept = -4.2441
Correlation, R = 0.9957
Lilliefors Test
Test Statistic = 0.086
Critical Value(0.05) = 0.095
Data appear Lognormal

General Background Statistics for Data Sets with Non-Detects

User Selected Options	
From File	U:\MEWsite-LisaY\RIFScomments_Dec2007\RevisedBackground\ProUCLinput.wst
Full Precision	OFF
Confidence Coefficient	95%
Coverage	95%
Different or Future K Values	1
Number of Bootstrap Operations	10000

Freon113

General Statistics

Number of Valid Data	77	Number of Detected Data	76
Number of Distinct Detected Data	19	Number of Non-Detect Data	1
		Percent Non-Detects	1.30%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.34	Minimum Detected	-1.079
Maximum Detected	8.2	Maximum Detected	2.104
Mean of Detected	0.595	Mean of Detected	-0.679
SD of Detected	0.887	SD of Detected	0.353
Minimum Non-Detect	0.5	Minimum Non-Detect	-0.693
Maximum Non-Detect	0.5	Maximum Non-Detect	-0.693

Background Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.454	Lilliefors Test Statistic	0.272
5% Lilliefors Critical Value	0.102	5% Lilliefors Critical Value	0.102
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.591	Mean (Log Scale)	-0.688
SD	0.882	SD (Log Scale)	0.36
95% UTL 95% Coverage	2.325	95% UTL 95% Coverage	1.021
95% UPL (t)	2.068	95% UPL (t)	0.919
90% Percentile (z)	1.721	90% Percentile (z)	0.797
95% Percentile (z)	2.041	95% Percentile (z)	0.909
99% Percentile (z)	2.642	99% Percentile (z)	1.161
Maximum Likelihood Estimate(MLE) Method		Log ROS Method	
Mean	-0.271	Mean in Original Scale	0.593
SD	1.469	SD in Original Scale	0.881
95% UTL with 95% Coverage	2.62	95% UTL with 95% Coverage	1.011
		95% BCA UTL with 95% Coverage	0.648
		95% Bootstrap (%) UTL with 95% Coverage	0.69
95% UPL (t)	2.192	95% UPL (t)	0.912
90% Percentile (z)	1.612	90% Percentile (z)	0.794
95% Percentile (z)	2.146	95% Percentile (z)	0.902
99% Percentile (z)	3.148	99% Percentile (z)	1.146

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	3.166	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.188		
nu star	481.3		
A-D Test Statistic	1.316E+29	Nonparametric Statistics	
5% A-D Critical Value	0.758	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.358	Mean	0.593
5% K-S Critical Value	0.103	SD	0.875
Data not Gamma Distributed at 5% Significance Level		SE of Mean	0.1
		95% KM UTL with 95% Coverage	2.315
Assuming Gamma Distribution		95% KM Chebyshev UPL	4.433
Gamma ROS Statistics with extrapolated Data		95% KM UPL (t)	2.06
Mean	0.594	90% Percentile (z)	1.715
Median	0.46	95% Percentile (z)	2.033
SD	0.881	99% Percentile (z)	2.63
k star	3.205		
Theta star	0.185		
Nu star	493.5		
95% Percentile of Chisquare (2k)	13.2		
90% Percentile	1.039		
95% Percentile	1.223		
99% Percentile	1.622		

Note: UPL (or upper percentile for gamma distributed data) represents a preferred estimate of BTV

For an Example: KM-UPL may be used when multiple detection limits are present

Note: DL/2 is not a recommended method.

General Background Statistics for Full Data Sets

User Selected Options	
From File	U:\MEWsite-LisaY\RIFScomments_Dec2007\RevisedBackground\ProUCLinput.wst
Full Precision	OFF
Confidence Coefficient	95%
Coverage	95%
Different or Future K Values	1
Number of Bootstrap Operations	10000

LnROS_Freon113

General Statistics

Total Number of Observations	77	Number of Distinct Observations	20

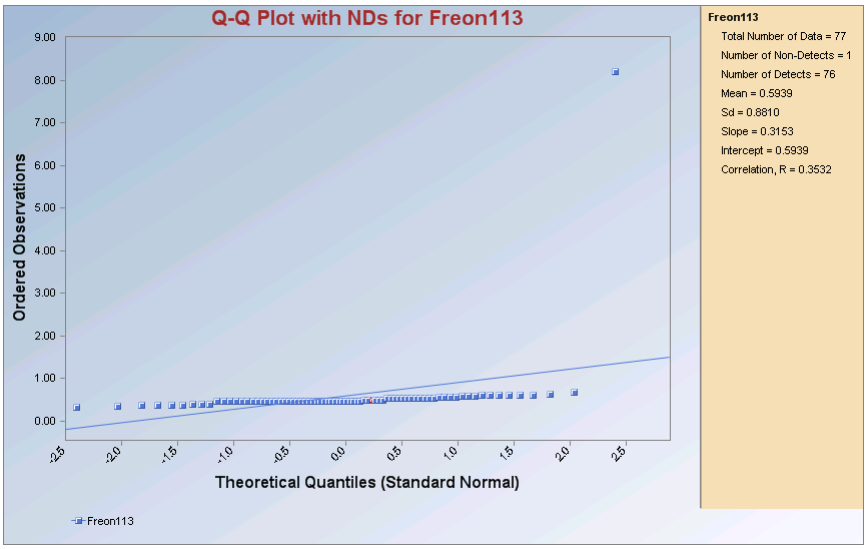
Raw Statistics		Log-Transformed Statistics	
Minimum	0.34	Minimum	-1.079
Maximum	8.2	Maximum	2.104
Second Largest	0.69	Second Largest	-0.371
First Quartile	0.46	First Quartile	-0.777
Median	0.46	Median	-0.777
Third Quartile	0.54	Third Quartile	-0.616
Mean	0.593	Mean	-0.68
SD	0.881	SD	0.351
Coefficient of Variation	1.485		
Skewness	8.69		

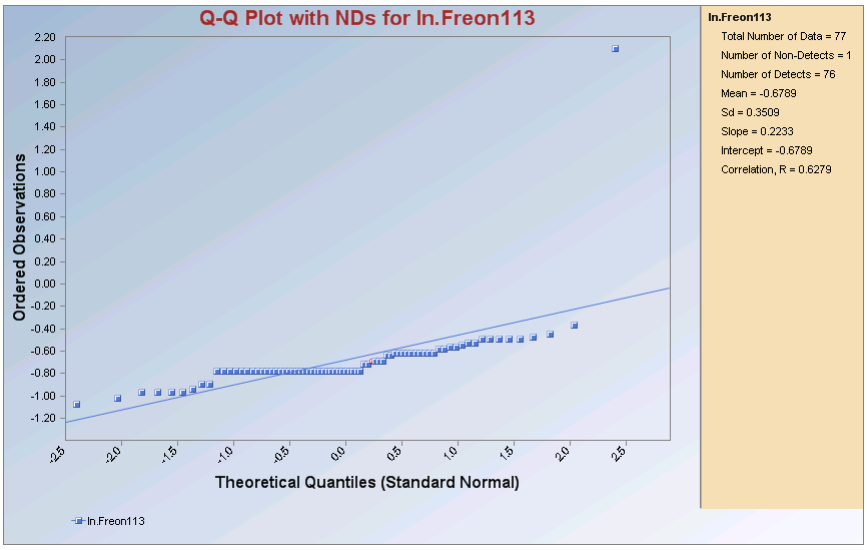
Background Statistics

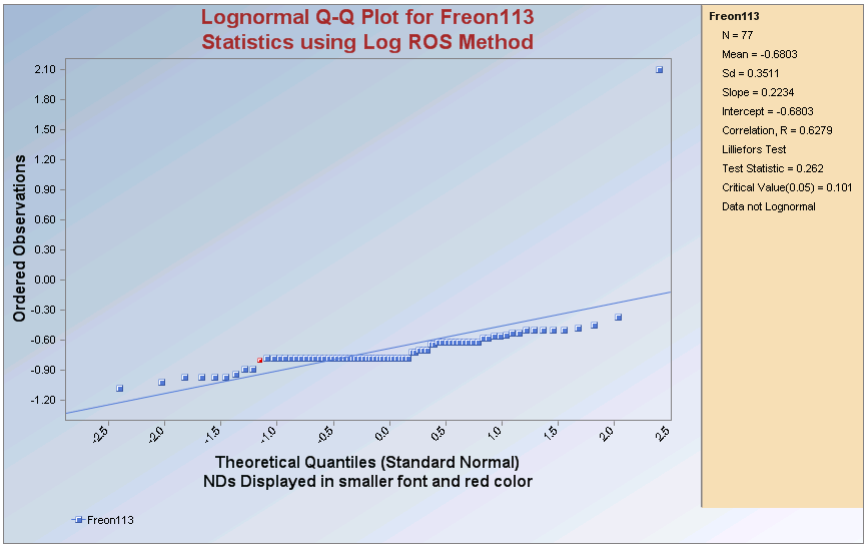
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.453	Lilliefors Test Statistic	0.262
Lilliefors Critical Value	0.101	Lilliefors Critical Value	0.101
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% UTL with 95% Coverage	2.327	95% UTL with 95% Coverage	1.011
95% UPL (t)	2.07	95% UPL (t)	0.912
90% Percentile (z)	1.722	90% Percentile (z)	0.794
95% Percentile (z)	2.042	95% Percentile (z)	0.902
99% Percentile (z)	2.643	99% Percentile (z)	1.146

Gamma Distribution Test		Data Distribution Test	
k star	3.199	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.185		
nu star	492.6		
A-D Test Statistic	1.299E+29	Nonparametric Statistics	
5% A-D Critical Value	0.758	90% Percentile	0.61
K-S Test Statistic	0.357	95% Percentile	0.622
5% K-S Critical Value	0.102	99% Percentile	8.2
Data not Gamma Distributed at 5% Significance Level			
Assuming Gamma Distribution		95% UTL with 95% Coverage	0.69
90% Percentile	1.038	95% Percentile Bootstrap UTL with 95% Coverage	0.69

				95% Percentile	1.222					95% BCA Bootstrap UTL with 95% Coverage	0.648
				99% Percentile	1.621					95% UPL	0.622
										95% Chebyshev UPL	4.459
										Upper Threshold Limit Based upon IQR	0.66
Note: UPL (or upper percentile for gamma distributed data) represents a preferred estimate of BTV											


Q-Q Plot with NDs for Freon113
Ordered Observations
Theoretical Quantiles (Standard Normal)
Freon113
Freon113
Total Number of Data = 77
Number of Non-Detects = 1
Number of Detects = 76
Mean = 0.5939
Sd = 0.8810
Slope = 0.3153
Intercept = 0.5939
Correlation, R = 0.3532


Q-Q Plot with NDs for ln.Freon113
Ordered Observations
Theoretical Quantiles (Standard Normal)
ln.Freon113
ln.Freon113
Total Number of Data = 77
Number of Non-Detects = 1
Number of Detects = 76
Mean = -0.6789
Sd = 0.3509
Slope = 0.2233
Intercept = -0.6789
Correlation, R = 0.6279


Lognormal Q-Q Plot for Freon113
Statistics using Log ROS Method
Ordered Observations
Theoretical Quantiles (Standard Normal)
NDs Displayed in smaller font and red color
Freon113
Freon113
N = 77
Mean = -0.6803
Sd = 0.3511
Slope = 0.2234
Intercept = -0.6803
Correlation, R = 0.6279
Lilliefors Test
Test Statistic = 0.262
Critical Value(0.05) = 0.101
Data not Lognormal

General Background Statistics for Data Sets with Non-Detects

User Selected Options	
From File	U:\MEWsite-LisaY\RIFScomments_Dec2007\RevisedBackground\ProUCLinput.wst
Full Precision	OFF
Confidence Coefficient	95%
Coverage	95%
Different or Future K Values	1
Number of Bootstrap Operations	10000

111TCA

General Statistics

Number of Valid Data	140	Number of Detected Data	79
Number of Distinct Detected Data	25	Number of Non-Detect Data	61
		Percent Non-Detects	43.57%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.096	Minimum Detected	-2.343
Maximum Detected	3.3	Maximum Detected	1.194
Mean of Detected	0.253	Mean of Detected	-1.628
SD of Detected	0.385	SD of Detected	0.518
Minimum Non-Detect	0.16	Minimum Non-Detect	-1.833
Maximum Non-Detect	0.93	Maximum Non-Detect	-0.0726

Data with Multiple Detection Limits	Single Detection Limit Scenario	
Note: Data have multiple DLs - Use of KM Method is recommended	Number treated as Non-Detect with Single DL	138
For all methods (except KM, DL/2, and ROS Methods),	Number treated as Detected with Single DL	2
Observations < Largest ND are treated as NDs	Single DL Non-Detect Percentage	98.57%

Background Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.404	Lilliefors Test Statistic	0.258
5% Lilliefors Critical Value	0.0997	5% Lilliefors Critical Value	0.0997
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.201	Mean (Log Scale)	-1.805
SD	0.296	SD (Log Scale)	0.462
95% UTL 95% Coverage	0.756	95% UTL 95% Coverage	0.391
95% UPL (t)	0.692	95% UPL (t)	0.354
90% Percentile (z)	0.58	90% Percentile (z)	0.297
95% Percentile (z)	0.687	95% Percentile (z)	0.351
99% Percentile (z)	0.889	99% Percentile (z)	0.481
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
		Mean in Original Scale	0.221
		SD in Original Scale	0.293
		Mean in Log Scale	-1.691
		SD in Log Scale	0.453
		95% UTL 95% Coverage	0.431
		95% UPL (t)	0.391

		90% Percentile (z)	0.329
		95% Percentile (z)	0.388
		99% Percentile (z)	0.528
Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	2.06	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.123		
nu star	325.4		
A-D Test Statistic	12.6	Nonparametric Statistics	
5% A-D Critical Value	0.763	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.324	Mean	0.216
5% K-S Critical Value	0.102	SD	0.291
Data not Gamma Distributed at 5% Significance Level		SE of Mean	0.0249
		95% KM UTL with 95% Coverage	0.762
Assuming Gamma Distribution		95% KM Chebyshev UPL	1.489
Gamma ROS Statistics with extrapolated Data		95% KM UPL (t)	0.7
Mean	0.249	90% Percentile (z)	0.589
Median	0.19	95% Percentile (z)	0.695
SD	0.301	99% Percentile (z)	0.893
k star	0.944		
Theta star	0.264		
Nu star	264.4		
95% Percentile of Chisquare (2k)	5.774		
90% Percentile	0.582		
95% Percentile	0.762		
99% Percentile	1.182		

Note: UPL (or upper percentile for gamma distributed data) represents a preferred estimate of BTV

For an Example: KM-UPL may be used when multiple detection limits are present

Note: DL/2 is not a recommended method.

General Background Statistics for Full Data Sets

User Selected Options	
From File	U:\MEWsite-LisaY\RIFScomments_Dec2007\RevisedBackground\ProUCLinput.wst
Full Precision	OFF
Confidence Coefficient	95%
Coverage	95%
Different or Future K Values	1
Number of Bootstrap Operations	10000

LnROS_111TCA

General Statistics

Total Number of Observations	140	Number of Distinct Observations	86

Raw Statistics		Log-Transformed Statistics	
Minimum	0.0777	Minimum	-2.554
Maximum	3.3	Maximum	1.194
Second Largest	1.3	Second Largest	0.262
First Quartile	0.148	First Quartile	-1.914
Median	0.18	Median	-1.715
Third Quartile	0.209	Third Quartile	-1.565
Mean	0.221	Mean	-1.691
SD	0.293	SD	0.453
Coefficient of Variation	1.327		
Skewness	8.934		

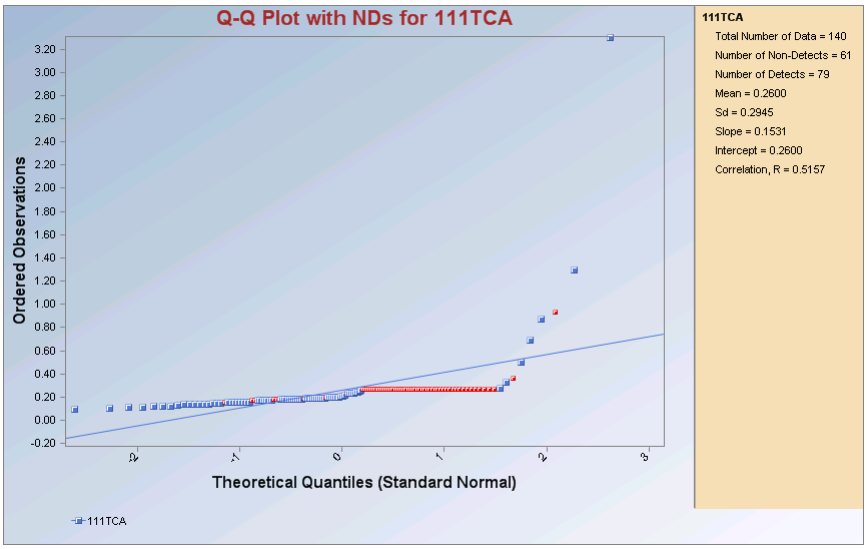
Background Statistics

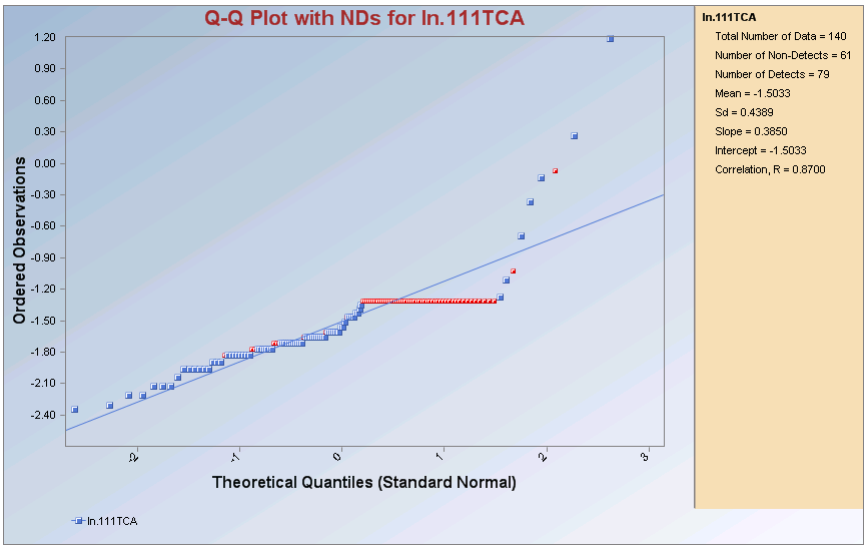
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.347	Lilliefors Test Statistic	0.164
Lilliefors Critical Value	0.0749	Lilliefors Critical Value	0.0749
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% UTL with 95% Coverage	0.771	95% UTL with 95% Coverage	0.431
95% UPL (t)	0.708	95% UPL (t)	0.391
90% Percentile (z)	0.596	90% Percentile (z)	0.329
95% Percentile (z)	0.703	95% Percentile (z)	0.388
99% Percentile (z)	0.903	99% Percentile (z)	0.528

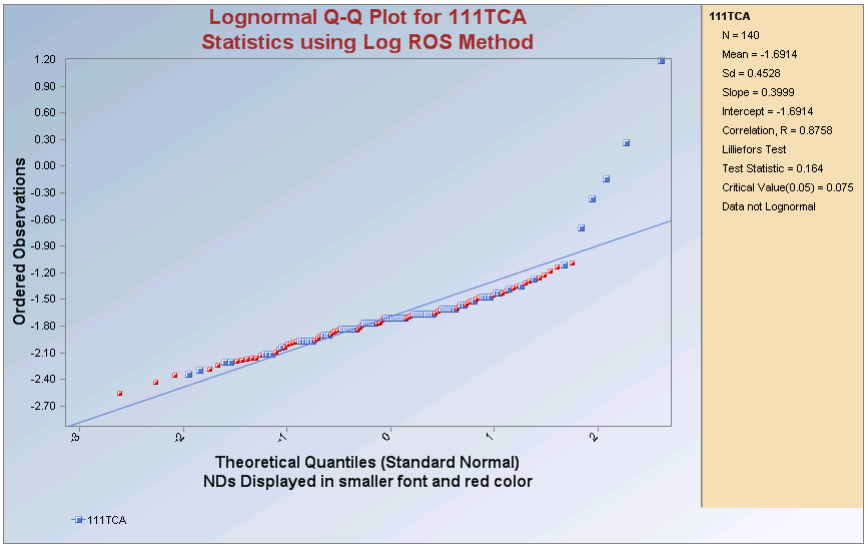
Gamma Distribution Test		Data Distribution Test	
k star	2.865	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.0771		
nu star	802.1		
A-D Test Statistic	13.96	Nonparametric Statistics	
5% A-D Critical Value	0.76	90% Percentile	0.266
K-S Test Statistic	0.231	95% Percentile	0.33
5% K-S Critical Value	0.0797	99% Percentile	2.48
Data not Gamma Distributed at 5% Significance Level			
Assuming Gamma Distribution		95% UTL with 95% Coverage	0.69
90% Percentile	0.396	95% Percentile Bootstrap UTL with 95% Coverage	0.5

				95% Percentile	0.47					95% BCA Bootstrap UTL with 95% Coverage	0.5
				99% Percentile	0.63					95% UPL	0.33
										95% Chebyshev UPL	1.503
										Upper Threshold Limit Based upon IQR	0.302

Note: UPL (or upper percentile for gamma distributed data) represents a preferred estimate of BTV


Q-Q Plot with NDs for 111TCA
Ordered Observations
Theoretical Quantiles (Standard Normal)
111TCA
111TCA
Total Number of Data = 140
Number of Non-Detects = 61
Number of Detects = 79
Mean = 0.2600
Sd = 0.2945
Slope = 0.1531
Intercept = 0.2600
Correlation, R = 0.5157


Q-Q Plot with NDs for ln.111TCA
Ordered Observations
Theoretical Quantiles (Standard Normal)
ln.111TCA
ln.111TCA
Total Number of Data = 140
Number of Non-Detects = 61
Number of Detects = 79
Mean = -1.5033
Sd = 0.4389
Slope = 0.3850
Intercept = -1.5033
Correlation, R = 0.8700


Lognormal Q-Q Plot for 111TCA
Statistics using Log ROS Method
Ordered Observations
Theoretical Quantiles (Standard Normal)
NDs Displayed in smaller font and red color
111TCA
111TCA
N = 140
Mean = -1.6914
Sd = 0.4528
Slope = 0.3999
Intercept = -1.6914
Correlation, R = 0.8758
Lilliefors Test
Test Statistic = 0.164
Critical Value(0.05) = 0.075
Data not Lognormal