

Appendix 4: Systat Results – Chemical v. Waterbody

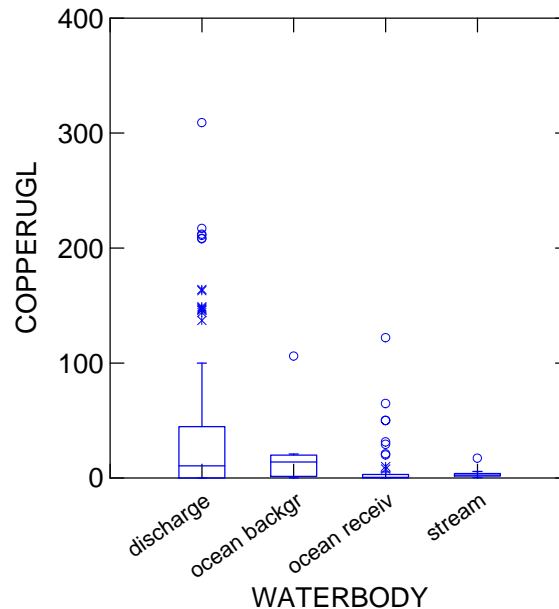
```
>IMPORT "C:\Documents and Settings\RB3 Office\My Documents\SGS\Analyses\Amy  
Kronson\constituents (2).xls" / TYPE=EXCEL,SHEET=1  
IMPORT successfully completed.
```

```
>ESAVE "C:\Documents and Settings\RB3 Office\My Documents\SGS\Analyses\Amy  
Kronson\constituents2.syd"
```

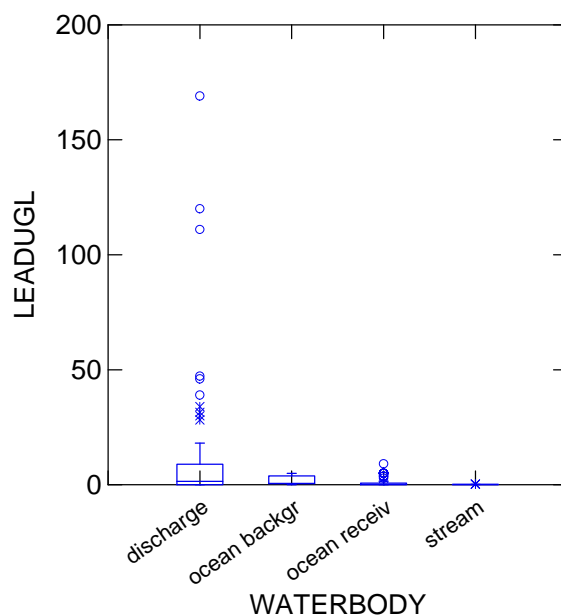
243 cases and 11 variables processed and saved.

```
>USE "C:\Documents and Settings\RB3 Office\My Documents\SGS\Analyses\Amy  
Kronson\constituents2.syd"  
SYSTAT Rectangular file C:\Documents and Settings\RB3 Office\My  
Documents\SGS\Analyses\Amy Kronson\constituents2.syd,  
created Mon Mar 09, 2009 at 15:20:58, contains variables:  
DATE ASBSNUMBER ASBS$ SAMPLINGAGE$ DESCRIPTION$ NEARESTDISC$  
WATERBODY$ COPPERUGL LEADUGL NICKELUGL ZINCUGL$
```

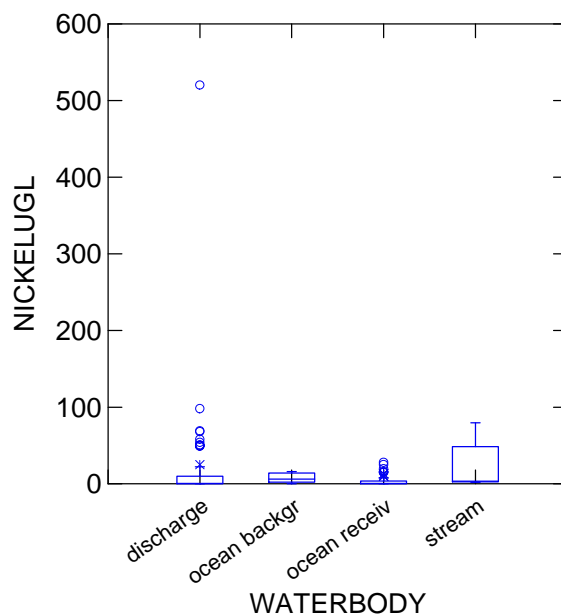
```
>REM -- Following commands were produced by the BOX dialog:  
>DENSITY COPPERUGL * WATERBODY$ / BOX
```



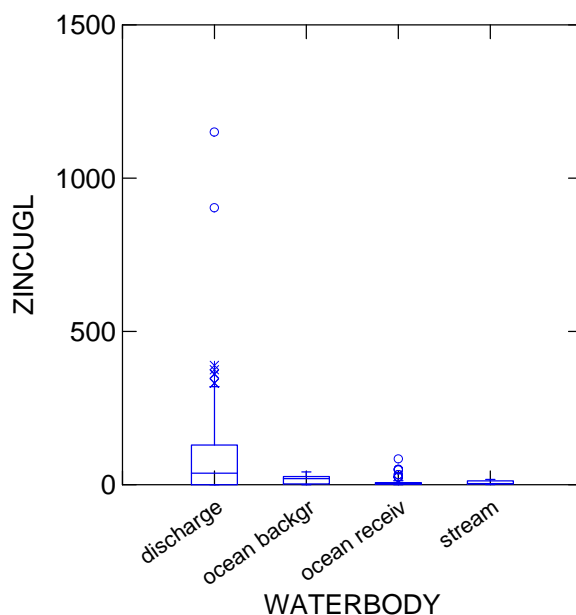
```
>REM -- End of commands from the BOX dialog  
>REM -- Following commands were produced by the BOX dialog:  
>DENSITY LEADUGL * WATERBODY$ / BOX
```



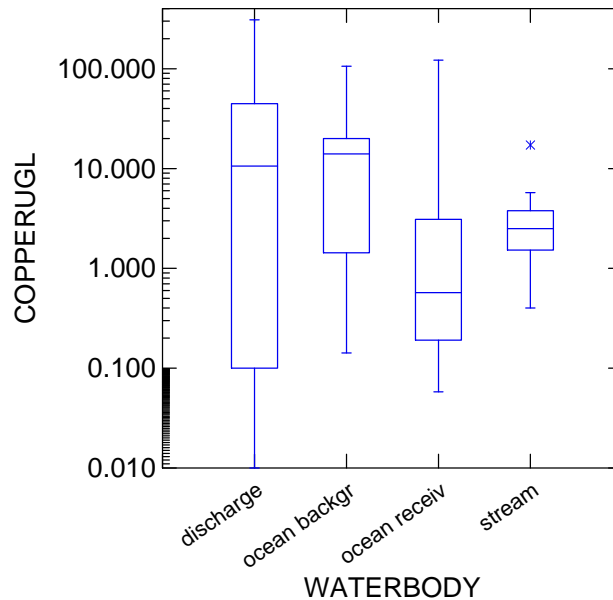
```
>REM -- End of commands from the BOX dialog
>REM -- Following commands were produced by the BOX dialog:
>DENSITY NICKELUGL * WATERBODY$ / BOX
```



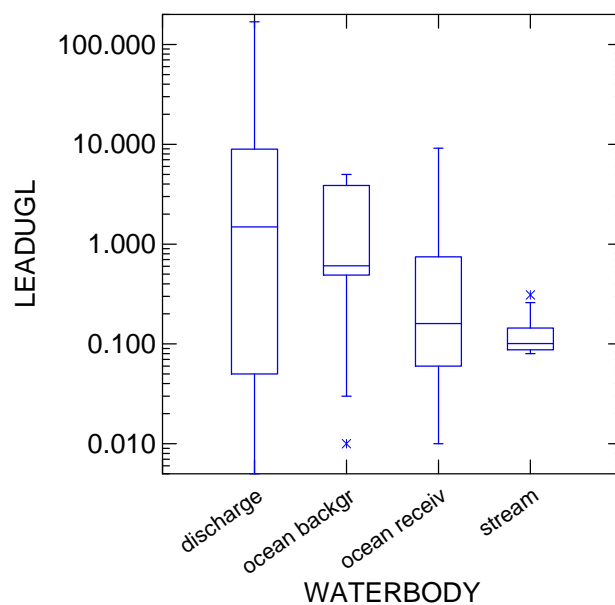
```
>REM -- End of commands from the BOX dialog
>REM -- Following commands were produced by the BOX dialog:
>DENSITY ZINCUGL * WATERBODY$ / BOX
```



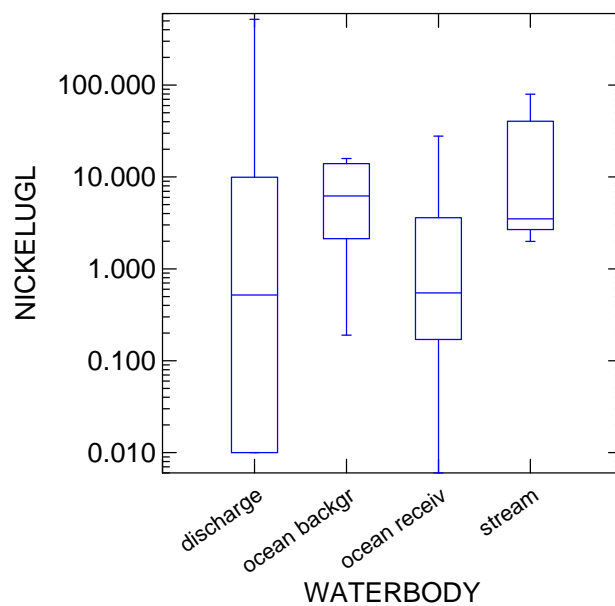
```
>REM -- End of commands from the BOX dialog
>REM -- Following commands were produced by the BOX dialog:
>DENSITY COPPERUGL * WATERBODY$ / BOX YLOG = 10
```



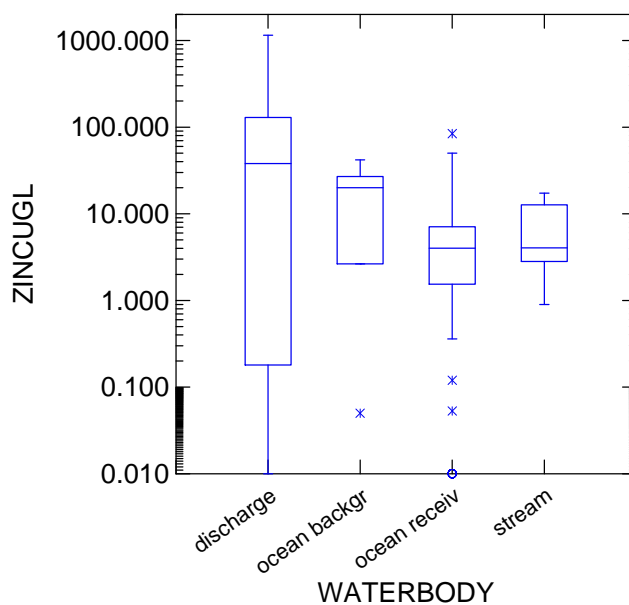
```
>REM -- End of commands from the BOX dialog
>REM -- Following commands were produced by the BOX dialog:
>DENSITY LEADUGL * WATERBODY$ / BOX YLOG = 10
```



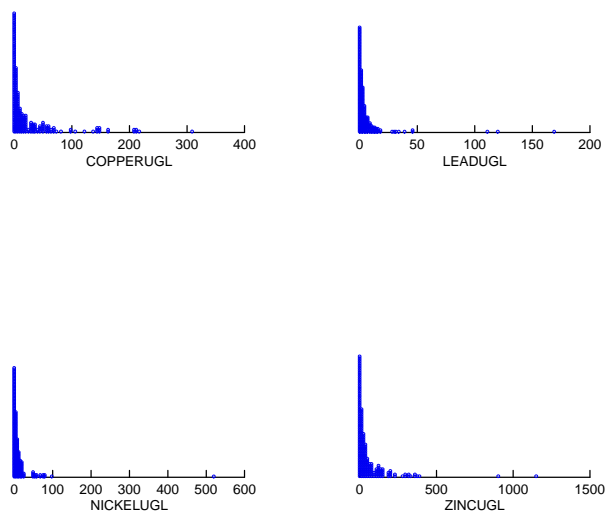
```
>REM -- End of commands from the BOX dialog
>REM -- Following commands were produced by the BOX dialog:
>DENSITY NICKELUGL * WATERBODY$ / BOX YLOG = 10
```



```
>REM -- End of commands from the BOX dialog
>REM -- Following commands were produced by the BOX dialog:
>DENSITY ZINCUGL * WATERBODY$ / BOX YLOG = 10
```

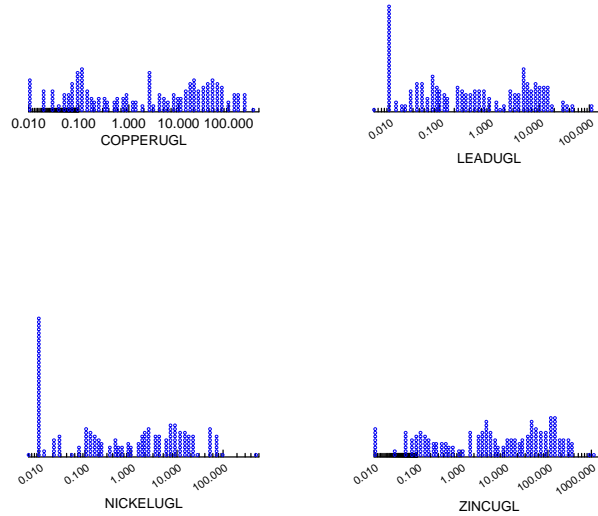


```
>REM -- End of commands from the BOX dialog
>REM -- Following commands were produced by the DOTDENS dialog:
>DENSITY COPPERUGL LEADUGL NICKELUGL ZINCUGL / DIT
```



```
>REM -- End of commands from the DOTDENS dialog
>REM -- Following commands were produced by the DOTDENS dialog:
>DENSITY COPPERUGL LEADUGL NICKELUGL ZINCUGL / DIT XLOG = 10
```

Appendix 4 - Systat Results



```
>REM -- End of commands from the DOTDENS dialog
>REM -- Following commands were produced by the CBSTAT dialog:
>STATS
```

```
>CBSTAT COPPERUGL LEADUGL NICKELUGL ZINCUGL / N MIN MAX MEAN MEDIAN SD CV SWTEST PFILE
= 5 10 20 25 50 75 80 90 95 METHOD = CLEVELAND
9 PERCENTILES requested:
```

- 1 5.000000
- 2 10.000000
- 3 20.000000
- 4 25.000000
- 5 50.000000
- 6 75.000000
- 7 80.000000
- 8 90.000000
- 9 95.000000

	COPPERUGL	LEADUGL	NICKELUGL	ZINCUGL
N of cases	237	229	210	225
Minimum	0.010	0.005	0.006	0.010
Maximum	309.000	169.000	520.000	1150.000
Median	2.641	0.450	0.949	5.770
Mean	24.935	5.472	10.778	58.245
Standard Dev	47.643	16.722	39.214	124.109
C.V.	1.911	3.056	3.638	2.131
SW Statistic	0.581	0.321	0.241	0.493
SW P-Value	0.000	0.000	0.000	0.000
Method = CLEVELAND				
5 %	0.020	0.010	0.010	0.050
10 %	0.051	0.010	0.010	0.088
20 %	0.100	0.045	0.020	0.180
25 %	0.120	0.050	0.052	0.380
50 %	2.641	0.450	0.949	5.770
75 %	30.050	5.000	9.910	59.525
80 %	36.710	5.976	11.350	94.800

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```

        6  457
        7  067
        8  478
        9  45
       10  2
       11  0035
       12  039
       13  0279
       14  114566
* * * Outside Values * * *
       14  889
       15  3
       16  0
       18  8
       19  0
       20  00169
       23  08
       28  0
       29  77
       32  0
       33  12
       36  02
       37  5
       38  9
       90  3
      115  0
18 cases with missing values excluded from plot.
>REM -- End of commands from the CLSTEM dialog

>BY WATERBODY$
>REM -- End of commands from the BY dialog
>REM -- Following commands were produced by the CBSTAT dialog:
>REM STATS

>CBSTAT COPPERUGL LEADUGL NICKELUGL ZINCUGL / N MIN MAX MEAN MEDIAN SD CV SWTEST PTILE
= 5 10 20 25 50 75 80 90 95 METHOD = CLEVELAND
9 PERCENTILES requested:
 1 5.000000
 2 10.000000
 3 20.000000
 4 25.000000
 5 50.000000
 6 75.000000
 7 80.000000
 8 90.000000
 9 95.000000

The following results are for:
  WATERBODY$ = discharge

      COPPERUGL      LEADUGL      NICKELUGL      ZINCUGL
N of cases          154          144           128           143
Minimum             0.010           0.005           0.010           0.010
Maximum            309.000          169.000          520.000          1150.000
Median             10.600           1.495           0.520           38.000
Mean              33.836           8.130           12.433           85.821
Standard Dev       55.224           20.610           48.322           148.563
C.V.               1.632           2.535           3.887           1.731
SW Statistic       0.657           0.392           0.231           0.583
SW P-Value         0.000           0.000           0.000           0.000
Method = CLEVELAND
 5 %               0.010           0.010           0.010           0.057

```

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10 %	0.029	0.010	0.010	0.086
20 %	0.090	0.030	0.010	0.150
25 %	0.100	0.050	0.010	0.180
50 %	10.600	1.495	0.520	38.000
75 %	44.700	8.950	9.940	129.750
80 %	54.270	10.140	10.900	145.330
90 %	103.700	15.350	24.160	213.600
95 %	160.200	32.250	51.030	331.350

The following results are for:
 WATERBODY\$ = ocean backgr

	COPPERUGL	LEADUGL	NICKELUGL	ZINCUGL
N of cases	9	9	9	9
Minimum	0.142	0.010	0.190	0.050
Maximum	106.000	5.000	15.900	42.000
Median	14.000	0.607	6.200	20.000
Mean	20.981	1.812	7.266	17.970
Standard Dev	32.923	2.149	6.153	15.905
C.V.	1.569	1.186	0.847	0.885
SW Statistic	0.620	0.746	0.895	0.894
SW P-Value	0.000	0.005	0.226	0.218
Method = CLEVELAND				
5 %	0.142	0.010	0.190	0.050
10 %	0.149	0.018	0.214	1.086
20 %	0.541	0.168	0.814	2.643
25 %	1.112	0.375	1.660	2.648
50 %	14.000	0.607	6.200	20.000
75 %	20.250	4.152	14.000	29.500
80 %	20.700	4.661	14.000	34.000
90 %	72.000	5.000	15.140	40.000
95 %	106.000	5.000	15.900	42.000

The following results are for:
 WATERBODY\$ = ocean receiv

	COPPERUGL	LEADUGL	NICKELUGL	ZINCUGL
N of cases	58	61	58	58
Minimum	0.058	0.010	0.006	0.010
Maximum	122.000	9.140	27.900	84.200
Median	0.572	0.160	0.547	4.009
Mean	7.825	1.049	3.887	9.652
Standard Dev	20.310	1.901	6.532	16.008
C.V.	2.595	1.812	1.680	1.659
SW Statistic	0.433	0.590	0.643	0.604
SW P-Value	0.000	0.000	0.000	0.000
Method = CLEVELAND				
5 %	0.070	0.012	0.108	0.010
10 %	0.080	0.016	0.126	0.023
20 %	0.111	0.048	0.155	0.596
25 %	0.191	0.060	0.170	1.540
50 %	0.572	0.160	0.547	4.009
75 %	3.100	0.751	3.600	7.100
80 %	4.980	1.078	7.715	10.759
90 %	26.810	5.000	14.260	30.620
95 %	50.000	5.000	18.080	49.120

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The following results are for:

WATERBODY\$ = stream

	COPPERUGL	LEADUGL	NICKELUGL	ZINCUGL
N of cases	16	15	15	15
Minimum	0.400	0.080	1.990	0.900
Maximum	17.200	0.310	79.500	17.300
Median	2.500	0.101	3.500	4.046
Mean	3.510	0.137	25.411	7.409
Standard Dev	3.975	0.076	33.465	6.209
C.V.	1.132	0.559	1.317	0.838
SW Statistic	0.628	0.730	0.666	0.824
SW P-Value	0.000	0.001	0.000	0.008
Method = CLEVELAND				
5 %	0.400	0.080	1.998	0.950
10 %	0.434	0.080	2.020	1.100
20 %	0.887	0.083	2.366	2.556
25 %	1.700	0.086	2.665	2.762
50 %	2.500	0.101	3.500	4.046
75 %	3.923	0.153	62.100	14.400
80 %	4.954	0.210	77.000	16.000
90 %	5.663	0.260	79.400	16.500
95 %	13.762	0.298	79.475	17.100

>REM -- End of commands from the CBSTAT dialog

>KRUSKAL COPPERUGL * WATERBODY\$

Categorical values encountered during processing are:

WATERBODY\$ (4 levels)

discharge, ocean backgr, ocean receiv, stream

Kruskal-Wallis One-Way Analysis of Variance for 237 cases

Dependent variable is COPPERUGL

Grouping variable is WATERBODY\$

Group	Count	Rank Sum
discharge	154	19289.000
ocean backgr	9	1254.500
ocean receiv	58	5789.500
stream	16	1870.000

Kruskal-Wallis Test Statistic = 6.633

Probability is 0.085 assuming Chi-square distribution with 3 df

>REM -- End of commands from the KRUSKAL dialog

>REM -- Following commands were produced by the KRUSKAL dialog:

>REM NPAR

>KRUSKAL LEADUGL * WATERBODY\$

Categorical values encountered during processing are:

WATERBODY\$ (4 levels)

discharge, ocean backgr, ocean receiv, stream

Kruskal-Wallis One-Way Analysis of Variance for 229 cases

Dependent variable is LEADUGL

Grouping variable is WATERBODY\$

Group	Count	Rank Sum
-------	-------	----------

Appendix 4 - Systat Results

discharge	144	18128.500
ocean backgr	9	1063.500
ocean receiv	61	5872.500
stream	15	1270.500

Kruskal-Wallis Test Statistic = 11.954
Probability is 0.008 assuming Chi-square distribution with 3 df
>REM -- End of commands from the KRUSKAL dialog
>REM -- Following commands were produced by the KRUSKAL dialog:
>REM NPAR

>KRUSKAL NICKELUGL * WATERBODY\$

Categorical values encountered during processing are:
WATERBODY\$ (4 levels)
discharge, ocean backgr, ocean receiv, stream

Kruskal-Wallis One-Way Analysis of Variance for 210 cases
Dependent variable is NICKELUGL
Grouping variable is WATERBODY\$

Group	Count	Rank Sum
discharge	128	12311.000
ocean backgr	9	1255.500
ocean receiv	58	6219.000
stream	15	2369.500

Kruskal-Wallis Test Statistic = 17.161
Probability is 0.001 assuming Chi-square distribution with 3 df
>REM -- End of commands from the KRUSKAL dialog
>REM -- Following commands were produced by the KRUSKAL dialog:
>REM NPAR

>KRUSKAL ZINCUGL * WATERBODY\$

Categorical values encountered during processing are:
WATERBODY\$ (4 levels)
discharge, ocean backgr, ocean receiv, stream

Kruskal-Wallis One-Way Analysis of Variance for 225 cases
Dependent variable is ZINCUGL
Grouping variable is WATERBODY\$

Group	Count	Rank Sum
discharge	143	17546.500
ocean backgr	9	1007.000
ocean receiv	58	5332.000
stream	15	1539.500

Kruskal-Wallis Test Statistic = 9.637
Probability is 0.022 assuming Chi-square distribution with 3 df
>REM -- End of commands from the KRUSKAL dialog

Here's the data:

>LIST WATERBODY\$ COPPERUGL LEADUGL NICKELUGL ZINCUGL / FORMAT=12,3

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Case number	WATERBODY\$	COPPERUGL	LEADUGL	NICKELUGL	ZINCUGL
1	discharge	0.010	0.010	0.010	0.030
2	discharge	0.010	0.050	0.010	0.060
3	discharge	0.010	0.010	0.010	0.060
4	discharge	0.010	0.010	0.010	0.080
5	discharge	0.010	0.010	0.010	0.150
6	discharge	0.010	0.100	0.010	0.440
7	discharge	0.020	0.010	0.010	0.030
8	discharge	0.020	0.010	0.030	0.090
9	discharge	0.020	0.010	0.020	0.380
10	discharge	0.020	0.010	0.010	0.390
11	discharge	0.020	0.010	0.010	0.540
12	discharge	0.020	0.010	0.010	0.900
13	discharge	0.030	0.010	0.010	0.070
14	discharge	0.030	0.460	0.020	0.180
15	discharge	0.030	0.010	0.030	0.220
16	discharge	0.030	0.360	0.110	0.220
17	discharge	0.030	0.690	0.110	0.220
18	discharge	0.030	0.460	0.010	0.440
19	discharge	0.040	0.540	0.030	0.110
20	discharge	0.049	0.330	0.013	0.074
21	discharge	0.050	0.010	0.010	0.080
22	discharge	0.055	0.050	0.010	0.050
23	discharge	0.060	0.010	0.010	0.050
24	discharge	0.060	0.010	0.010	0.130
25	discharge	0.060	0.570	0.080	0.180
26	discharge	0.061	0.050	0.010	0.050
27	discharge	0.080	0.020	0.010	0.140
28	discharge	0.090	0.380	0.170	0.100
29	discharge	0.090	0.010	0.010	0.110
30	discharge	0.090	0.030	0.010	0.140
31	discharge	0.090	0.010	0.010	0.150
32	discharge	0.090	0.100	0.070	0.500
33	discharge	0.098	0.050	0.052	0.240
34	discharge	0.100	0.050	0.010	0.088
35	discharge	0.100	0.010	0.100	0.150
36	discharge	0.100	0.010	0.010	0.170
37	discharge	0.100	0.070	0.100	0.420
38	discharge	0.110	0.030	0.010	0.090
39	discharge	0.110	0.020	0.010	0.100
40	discharge	0.110	0.010	0.010	0.110
41	discharge	0.110	0.030	0.030	0.250
42	discharge	0.120	0.010	0.010	0.110
43	discharge	0.120	0.050	0.010	0.110
44	discharge	0.120	0.050	0.028	0.170
45	discharge	0.120	0.050	0.010	0.230
46	discharge	0.120	0.550	0.074	0.380
47	discharge	0.123	.	.	.
48	discharge	0.130	0.010	0.010	0.120

Case number	WATERBODY\$	COPPERUGL	LEADUGL	NICKELUGL	ZINCUGL
49	discharge	0.140	0.040	0.010	0.150
50	discharge	0.170	0.005	0.143	1.860
51	discharge	0.177	.	.	.
52	discharge	0.180	0.120	0.030	0.340
53	discharge	0.190	0.070	0.020	0.180
54	discharge	0.190	0.098	0.120	0.530
55	discharge	0.197	.	.	.
56	discharge	0.310	0.050	0.023	0.270
57	discharge	0.732	.	.	.
58	discharge	0.794	0.239	0.013	4.512
59	discharge	0.977	.	.	.
60	discharge	1.000	1.000	2.000	5.000

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61	discharge	1.200	0.500	1.900	14.000
62	discharge	2.500	1.660	0.900	12.500
63	discharge	3.900	0.220	22.200	15.400
64	discharge	3.930	0.230	21.800	15.100
65	discharge	4.020	0.770	0.510	53.200
66	discharge	4.180	0.770	0.530	55.100
67	discharge	4.540	0.685	1.610	19.300
68	discharge	6.420	.	.	.
69	discharge	7.520	3.530	0.340	115.000
70	discharge	7.650	2.120	0.390	94.000
71	discharge	8.500	2.500	7.800	23.000
72	discharge	9.140	5.500	2.050	58.000
73	discharge	10.000	5.400	4.600	38.000
74	discharge	10.500	3.470	2.410	64.900
75	discharge	10.700	.	.	.
76	discharge	11.000	0.050	0.010	11.000
77	discharge	11.000	4.630	0.920	59.400
78	discharge	11.000	4.690	0.930	59.900
79	discharge	13.100	1.330	0.820	33.400
80	discharge	13.600	1.010	3.700	22.000
81	discharge	13.800	1.000	3.700	21.000
82	discharge	15.000	7.500	10.000	57.000
83	discharge	16.300	2.900	4.600	65.100
84	discharge	18.000	0.050	0.010	44.000
85	discharge	18.000	0.050	0.010	110.000
86	discharge	18.700	9.900	50.000	1.770
87	discharge	18.700	9.900	50.000	39.900
88	discharge	19.100	10.000	50.700	39.800
89	discharge	19.100	31.500	1.650	129.000
90	discharge	20.800	3.090	9.200	35.000
91	discharge	20.900	15.800	11.700	297.000
92	discharge	21.000	4.700	0.010	190.000
93	discharge	21.600	.	.	.
94	discharge	22.000	8.900	21.000	120.000
95	discharge	24.700	9.000	25.000	45.500
96	discharge	25.000	3.300	6.800	110.000
Case number	WATERBODY\$	COPPERUGL	LEADUGL	NICKELUGL	ZINCUGL
97	discharge	29.700	1.320	0.640	67.500
98	discharge	29.800	1.000	2.700	41.800
99	discharge	30.800	6.520	54.000	53.400
100	discharge	31.300	10.200	9.910	95.600
101	discharge	31.400	6.370	49.100	88.300
102	discharge	31.500	6.180	49.300	87.100
103	discharge	32.900	11.700	18.000	137.000
104	discharge	33.000	.	.	160.000
105	discharge	33.300	4.620	1.680	149.500
106	discharge	36.000	6.600	6.200	130.000
107	discharge	36.200	15.300	2.630	102.000
108	discharge	36.600	6.900	3.500	77.700
109	discharge	36.600	5.500	8.900	141.000
110	discharge	37.700	15.100	18.000	139.000
111	discharge	40.500	14.800	18.400	141.000
112	discharge	41.200	1.980	5.500	206.000
113	discharge	44.700	4.200	6.460	76.900
114	discharge	45.000	.	.	320.000
115	discharge	45.200	18.100	2.440	201.000
116	discharge	46.000	.	.	200.000
117	discharge	50.000	5.000	10.000	50.000
118	discharge	50.000	5.000	10.000	50.000
119	discharge	50.000	5.000	10.000	50.000
120	discharge	50.000	5.000	10.000	50.000
121	discharge	56.100	3.600	9.970	188.000

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122	discharge	56.300	13.100	11.000	903.000
123	discharge	58.400	28.200	58.000	200.000
124	discharge	59.100	3.260	14.900	146.000
125	discharge	59.700	2.630	5.500	209.500
126	discharge	60.000	.	.	.
127	discharge	60.600	3.200	15.200	148.000
128	discharge	62.200	.	.	.
129	discharge	64.000	39.000	68.000	230.000
130	discharge	68.700	10.310	3.600	113.800
131	discharge	69.200	9.600	0.880	70.600
132	discharge	70.000	120.000	.	.
133	discharge	73.100	47.200	69.000	375.000
134	discharge	81.200	14.400	49.800	11.300
135	discharge	98.000	46.000	98.000	360.000
136	discharge	100.000	6.200	16.000	41.000
137	discharge	137.000	11.000	.	280.000
138	discharge	144.000	16.000	.	331.000
139	discharge	146.000	13.000	.	148.000
140	discharge	146.000	10.000	.	153.000
141	discharge	147.000	12.000	.	123.000
142	discharge	148.000	10.000	.	146.000
143	discharge	149.000	8.000	.	132.000
144	discharge	163.000	30.000	.	238.000
Case number	WATERBODY\$	COPPERUGL	LEADUGL	NICKELUGL	ZINCUGL
145	discharge	164.000	12.000	.	297.000
146	discharge	208.000	111.000	.	332.000
147	discharge	208.400	5.010	16.400	145.400
148	discharge	211.000	4.980	16.200	144.700
149	discharge	212.000	14.000	.	362.000
150	discharge	217.000	15.000	.	389.000
151	discharge	309.000	169.000	520.000	1150.000
152	discharge	0.010	0.010	0.010	0.080
153	discharge	0.010	0.010	0.010	0.010
154	discharge	0.010	0.010	0.010	0.010
155	discharge	.	11.000	.	.
156	discharge	.	34.000	.	.
157	discharge	.	18.000	.	.
158	ocean backgr	0.142	3.870	0.250	2.650
159	ocean backgr	0.160	0.030	0.190	0.050
160	ocean backgr	1.430	0.607	4.220	2.640
161	ocean backgr	10.100	0.010	2.130	5.390
162	ocean backgr	14.000	0.500	6.200	37.000
163	ocean backgr	16.000	0.800	8.500	42.000
164	ocean backgr	20.000	5.000	14.000	25.000
165	ocean backgr	21.000	5.000	14.000	27.000
166	ocean backgr	106.000	0.490	15.900	20.000
167	ocean receiv	0.058	0.014	0.124	0.010
168	ocean receiv	0.070	0.021	0.119	3.252
169	ocean receiv	0.070	0.015	0.119	4.176
170	ocean receiv	0.071	0.013	0.136	0.010
171	ocean receiv	0.074	0.029	0.154	0.010
172	ocean receiv	0.080	0.746	0.188	3.530
173	ocean receiv	0.080	0.017	0.130	3.690
174	ocean receiv	0.090	0.010	0.006	0.010
175	ocean receiv	0.100	0.027	0.236	3.939
176	ocean receiv	0.103	0.010	0.020	0.053
177	ocean receiv	0.110	0.622	0.173	3.458
178	ocean receiv	0.110	0.093	0.161	4.200
179	ocean receiv	0.120	0.060	0.173	3.782
180	ocean receiv	0.165	0.131	0.230	1.580
181	ocean receiv	0.191	0.160	0.219	1.690
182	ocean receiv	0.199	0.043	0.140	0.010

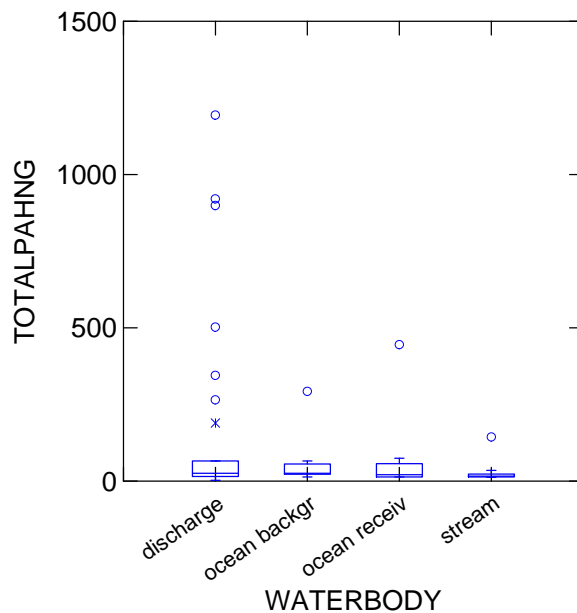
Appendix 4 - Systat Results

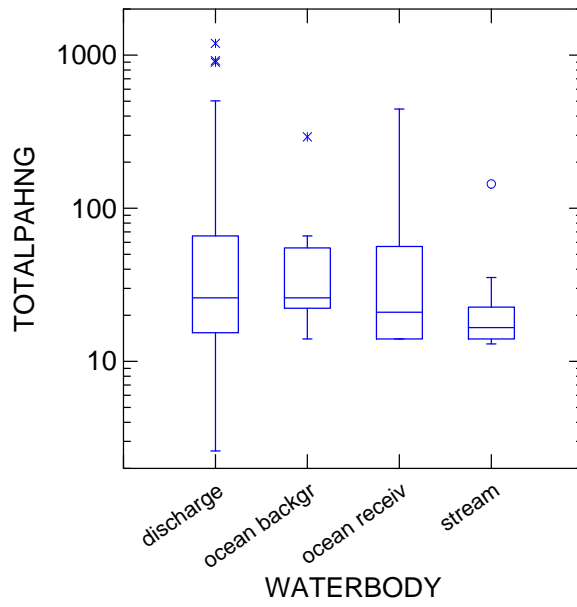
183	ocean receiv	0.204	0.036	0.149	0.524
184	ocean receiv	0.204	0.111	0.327	4.852
185	ocean receiv	0.252	0.065	0.145	0.010
186	ocean receiv	0.260	0.080	0.490	4.800
187	ocean receiv	0.330	0.060	0.480	0.360
188	ocean receiv	0.338	0.093	0.170	0.652
189	ocean receiv	0.341	0.089	0.166	0.576
190	ocean receiv	0.350	0.055	0.560	0.950
191	ocean receiv	0.370	0.010	0.580	0.120
192	ocean receiv	0.490	0.228	0.968	3.130
Case number	WATERBODY\$	COPPERUGL	LEADUGL	NICKELUGL	ZINCUGL
193	ocean receiv	0.530	0.090	1.370	1.770
194	ocean receiv	0.530	0.229	0.993	2.383
195	ocean receiv	0.555	0.141	0.197	5.047
196	ocean receiv	0.589	0.145	0.229	5.112
197	ocean receiv	0.794	0.239	2.219	4.512
198	ocean receiv	0.808	0.243	2.431	4.570
199	ocean receiv	0.840	0.095	0.590	0.590
200	ocean receiv	0.904	0.272	2.619	5.052
201	ocean receiv	0.966	0.324	0.432	5.770
202	ocean receiv	1.140	0.598	1.964	3.610
203	ocean receiv	1.330	0.400	1.490	1.540
204	ocean receiv	1.380	0.554	4.100	2.750
205	ocean receiv	1.410	0.450	1.650	1.590
206	ocean receiv	1.880	3.720	0.534	7.690
207	ocean receiv	1.900	3.680	0.530	7.430
208	ocean receiv	2.641	0.765	7.752	6.664
209	ocean receiv	2.900	0.320	15.800	5.400
210	ocean receiv	3.100	0.320	14.800	4.800
211	ocean receiv	3.360	0.880	7.380	4.080
212	ocean receiv	4.800	0.150	25.000	7.100
213	ocean receiv	5.000	5.000	10.000	25.000
214	ocean receiv	5.360	2.800	2.190	13.500
215	ocean receiv	7.830	0.050	2.630	11.100
216	ocean receiv	10.000	5.000	13.000	25.000
217	ocean receiv	20.000	5.000	13.000	25.000
218	ocean receiv	21.000	5.000	15.000	26.000
219	ocean receiv	29.300	2.850	27.900	47.800
220	ocean receiv	31.400	1.540	19.600	32.600
221	ocean receiv	50.000	5.000	10.000	50.000
222	ocean receiv	50.000	5.000	10.000	50.000
223	ocean receiv	64.800	9.140	3.600	84.200
224	ocean receiv	122.000	0.800	0.100	32.800
225	ocean receiv	.	0.073	.	.
226	ocean receiv	.	0.071	.	.
227	ocean receiv	.	0.228	.	.
228	stream	0.400	0.080	3.400	0.900
229	stream	0.400	0.080	3.500	1.100
230	stream	0.740	0.110	3.470	2.930
231	stream	0.950	0.085	1.990	4.046
232	stream	2.450	0.096	2.020	2.706
233	stream	2.460	0.100	2.076	2.407
234	stream	2.500	0.090	78.400	15.800
235	stream	2.500	0.260	75.600	16.200
236	stream	2.500	0.080	79.500	16.500
237	stream	2.700	0.160	21.600	8.900
238	stream	2.800	0.310	16.900	6.200
239	stream	2.900	0.260	79.400	17.300
240	stream	4.947	0.101	2.694	2.989
Case number	WATERBODY\$	COPPERUGL	LEADUGL	NICKELUGL	ZINCUGL
241	stream	4.970	0.106	2.655	2.958

Appendix 4 - Systat Results

242	stream	5.740	0.130	7.960	10.200
243	stream	17.200	.	.	.

>REM -- End of commands from the LIST dialog





15 PERCENTILES requested:

- 1 1.000000
- 2 5.000000
- 3 10.000000
- 4 20.000000
- 5 25.000000
- 6 30.000000
- 7 40.000000
- 8 50.000000
- 9 60.000000
- 10 70.000000
- 11 75.000000
- 12 80.000000
- 13 90.000000
- 14 95.000000
- 15 99.000000

TOTALPAHNG	
N of cases	70
Minimum	2.60
Maximum	1193
Mean	98.2
Standard Dev	217.
Method = CLEVELAND	136
1 %	2.60
5 %	14.0
10 %	14.0
20 %	14.0
25 %	14.0
30 %	15.4
40 %	18.6
50 %	24.8
60 %	27.9
70 %	46.2
75 %	66.0
80 %	66.0
90 %	278.
95 %	502.
99 %	1138
	.884