Jitter Plot

2-Nitrophenol sediment (ug/Kg)

Randomized X
Det=0
ND=23
100%

Non-Detect Levels

2-Nitrophenol sediment (ug/Kg)

Not Plotted
(Less than 5 detections)

Not Plotted
(Case C)

Not Plotted
(Case C)
Jitter Plot

Non-Detect Levels

Detect-DrySeas
Detect-WetSeas
NonDetect-DrySeas
NonDetect-WetSeas

Randomized X
Det=1
ND=11
91.7%

Not Plotted
(Less than 5 detections)

Not Plotted
(Case C)

Not Plotted
(Case C)
Jitter Plot

2,4-D water (ug/L)

Randomized X
Det=102
ND=502
83.1%

Empirical Distribution Function (EDF)

2,4-D water (ug/L)

Non-Detect Levels

2,4-D water (ug/L)

Not Plotted (Case C)
Jitter Plot

2,4-Dichlorophenol sediment (ug/Kg)

Randomized X
Det=0
ND=24
100%

Detect−DrySeas
Detect−WetSeas
NonDetect−DrySeas
NonDetect−WetSeas

Not Plotted
(Less than 5 detections)

Non−Detect Levels

2,4-Dichlorophenol sediment (ug/Kg)

Lab−1
Lab−2
Lab−3
Lab−4
Lab−5
Lab−6
Lab−7
Lab−8
Lab−9
Lab−10
Lab−11
Lab−12
Lab−13
Lab−14
Lab−15

Not Plotted
(Case C)

Not Plotted
(Case C)

Not Plotted
(Case C)
Jitter Plot

- Detect-DrySeas
- Detect-WetSeas
- NonDetect-DrySeas
- NonDetect-WetSeas

2,4,5-Trichlorophenol sediment (μg/Kg)

Randomized X

Det=0
ND=24
100%

Non-Detect Levels

- Lab-1
- Lab-2
- Lab-3
- Lab-4
- Lab-5
- Lab-6
- Lab-7
- Lab-8
- Lab-9
- Lab-10
- Lab-11
- Lab-12
- Lab-13
- Lab-14
- Lab-15

Not Plotted (Case C)

Not Plotted (Less than 5 detections)

Not Plotted (Case C)
2,4,6-Trichlorophenol sediment (ug/Kg) Jitter Plot

Randomized X
Det=0 ND=23 100%

Not Plotted (Case C)

Non-Detect Levels

Not Plotted (Less than 5 detections)

Not Plotted (Case C)

Not Plotted (Case C)
Jitter Plot

4-Chloro-3-Methylphenol sediment (ug/Kg)

Randomized X
Det=1
ND=20
95.2%

Non-Detect Levels

4-Chloro-3-Methylphenol sediment (ug/Kg)

Not Plotted
(Case C)

Not Plotted
(Less than 5 detections)

Not Plotted
(Case C)
4-Nitrophenol sediment (ug/Kg)

Jitter Plot
- Detect-DrySeas
- Detect-WetSeas
- NonDetect-DrySeas
- NonDetect-WetSeas

Randomized X
- Det=1
- ND=20
- 95.2%

Not Plotted
(Less than 5 detections)

Non-Detect Levels
Not Plotted
(Case C)

Not Plotted
(Case C)
Jitter Plot

Randomized X
Det=62
ND=572
90.2%

Empirical Distribution Function (EDF)

Non-Detect Levels

Not Plotted (Case C)

Not Plotted (Case C)
Jitter Plot

Anthracene sediment (ug/Kg)

- Detect-DrySeas
- Detect-WetSeas
- NonDetect-DrySeas
- NonDetect-WetSeas

Empirical Distribution Function (EDF)

Anthracene sediment (ug/Kg)

Percent Chance of Exceedance

Non-Detect Levels

Boxplot by Land Use

Boxplot by Season

Anthracene sediment (ug/Kg)
Jitter Plot

Benzene water (ug/L)

Randomized X
Det=1
ND=119
99.2%

Non-Detect Levels

Not Plotted
(Case C)

Not Plotted
(Less than 5 detections)

Not Plotted
(Case C)
**Percent Chance of Exceedance**

- Jitter Plot
- Non-Detect Levels
- Empirical Distribution Function (EDF)
- Boxplot by Land Use
- Boxplot by Season

**Benzo(a)pyrene water (ug/L)**

- **Percent Below**
- **Normal Quantiles**
- **Det=11**
  - Det=11
  - ND=53
  - 82.8%
- **Det=109**
  - Det=109
  - ND=168
  - 60.6%
- **Det=30**
  - Det=30
  - ND=149
  - 83.2%
- **Det=29**
  - Det=29
  - ND=82
  - 73.9%
- **Det=31**
  - Det=31
  - ND=161
  - 73.2%
- **Det=59**
  - Det=59
  - ND=161
  - 73.2%
- **Det=31**
  - Det=31
  - ND=116
  - 78.9%
- **Det=22**
  - Det=22
  - ND=40
  - 64.5%
- **Det=67**
  - Det=67
  - ND=135
  - 66.8%

**Boxplot by Land Use**

- **Ind**
  - Det=11
  - ND=53
  - 82.8%
- **Com**
  - Det=109
  - ND=168
  - 60.6%
- **HRes**
  - Det=30
  - ND=149
  - 83.2%
- **LRes**
  - Det=29
  - ND=82
  - 73.9%

**Boxplot by Season**

- **Winter**
  - Det=59
  - ND=161
  - 73.2%
- **Spring**
  - Det=31
  - ND=116
  - 78.9%
- **Summer**
  - Det=22
  - ND=40
  - 64.5%
- **Fall**
  - Det=67
  - ND=135
  - 66.8%
Jitter Plot

Benzo(b,k)fluoranthene sediment (ug/Kg)

Ind
Det=3
ND=0
0%

Com
Det=3
ND=0
0%

HRes
Det=3
ND=0
0%

LRes
Det=0
ND=0
−%

Detect−DrySeas
Detect−WetSeas
NonDetect−DrySeas
NonDetect−WetSeas

Empirical Distribution Function (EDF)

Benzo(b,k)fluoranthene sediment (ug/Kg)

Percent Below

0 20 40 60 80 100

0 200 400 600 800 1000

100

Empirical Distribution Function (EDF)

Normal Quantiles

Percent Chance of Exceedance

Not Plotted
(No Non–Detects)

Not Plotted
(No Non–Detects)

Boxplot by Season

Benz(b,k)fluoranthene sediment (ug/Kg)

Winter
Det=0
ND=0
NaN%

Spring
Det=0
ND=0
NaN%

Summer
Det=9
ND=0
0%

Fall
Det=0
ND=0
NaN%

Boxplot by Season

Benz(b,k)fluoranthene sediment (ug/Kg)

Winter
Spring
Summer
Fall

Det=0
ND=0
NaN%

Det=0
ND=0
NaN%

Det=0
ND=0
NaN%

Det=0
ND=0
NaN%
Benzo(b,k)fluoranthene water (ug/L)

- Detect-DrySeas
- Detect-WetSeas
- NonDetect-DrySeas
- NonDetect-WetSeas

### Jitter Plot

- Ind:
  - Det=11
  - ND=21
  - 65.6%
- Com:
  - Det=27
  - ND=15
  - 35.7%
- HRes:
  - Det=24
  - ND=28
  - 53.8%
- LRes:
  - Det=0
  - ND=0
  - NaN%

### Empirical Distribution Function (EDF)

- Ind
- Com
- HRes
- LRes

### Percent Chance of Exceedance

- Normal Quantiles
- Value
- Percent Chance of Exceedance

### Non-Detect Levels

- Benzo(b,k)fluoranthene water (ug/L)

### Boxplot by Land Use

- Ind
- Com
- HRes
- LRes

### Boxplot by Season

- Winter
  - Det=29
  - ND=13
  - 31%
- Spring
  - Det=10
  - ND=33
  - 76.7%
- Summer
  - Det=4
  - ND=0
  - 0%
- Fall
  - Det=19
  - ND=18
  - 48.6%
Jitter Plot

Empirical Distribution Function (EDF)

Boxplot by Land Use

Boxplot by Season

Percent Chance of Exceedance

Non-Detect Levels

Det=1
ND=1
50%

Det=58
ND=106
64.6%

Det=11
ND=82
88.2%

Det=16
ND=84
84%

Ind
Com
HRes
LRes

max–ND
min–ND
ND Region

Benzo(k)fluoranthene water (ug/L)

Percent Below

Normal Quantiles

Value

Benzo(k)fluoranthene water (ug/L)

Boxplot

Spring
ND=30
74.3%

Summer
ND=78
74.3%

Fall
ND=78
74.3%

Winter
ND=102
77.9%

Det=29
ND=18
77.8%

Det=12
ND=30
71.4%

Det=27
ND=78
74.3%

Det=11
ND=82
88.2%

Det=16
ND=84
84%

Benzo(k)fluoranthene water (ug/L)
Biochemical Oxygen Demand water (ug/L)

Percent Chance of Exceedance

Non-Detect Levels

Empirical Distribution Function (EDF)

Boxplot by Land Use

Boxplot by Season
Jitter Plot

BTEX water (ug/L)

Randomized X
Det=3
ND=117
97.5%

Non-Detect Levels

BTEX water (ug/L)

Not Plotted
(Case C)

Not Plotted
(Less than 5 detections)

Not Plotted
(Case C)

Not Plotted
(Case C)
Jitter Plot

Calcium water dissolved (ug/L)

Detect−DrySeas
Detect−WetSeas
NonDetect−DrySeas
NonDetect−WetSeas

Not Plotted
(Fewer than 5 detections)

Not Plotted
(No Non−Detects)

Not Plotted
(Fewer than 5 detections)

Not Plotted
(Less than 5 detections)

Not Plotted
(Less than 5 detections)
Chlorpyrifos sediment (ug/Kg)

Detect-DrySeas
Detect-WetSeas
NonDetect-DrySeas
NonDetect-WetSeas

Randomized X
Det=1
ND=52
98.1%

Non-Detect Levels

Not Plotted (Case C)

Not Plotted (Less than 5 detections)

Not Plotted (Case C)

Not Plotted (Case C)
Jitter Plot

Conductivity water (μS/cm)

Percent Chance of Exceedance

Normal Quantiles

Value

Non-Detect Levels

Empirical Distribution Function (EDF)

Boxplot by Land Use

Boxplot by Season

<table>
<thead>
<tr>
<th>Land Use</th>
<th>Det</th>
<th>ND</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ind</td>
<td>66</td>
<td>0%</td>
</tr>
<tr>
<td>Com</td>
<td>275</td>
<td>1%</td>
</tr>
<tr>
<td>HRes</td>
<td>180</td>
<td>0%</td>
</tr>
<tr>
<td>LRes</td>
<td>115</td>
<td>0%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Season</th>
<th>Det</th>
<th>ND</th>
</tr>
</thead>
<tbody>
<tr>
<td>Winter</td>
<td>228</td>
<td>0%</td>
</tr>
<tr>
<td>Spring</td>
<td>146</td>
<td>0%</td>
</tr>
<tr>
<td>Summer</td>
<td>60</td>
<td>0%</td>
</tr>
<tr>
<td>Fall</td>
<td>202</td>
<td>1%</td>
</tr>
</tbody>
</table>
Di-N-Octyl Phthalate sediment (ug/Kg)

Jitter Plot

Empirical Distribution Function (EDF)

Boxplot by Land Use

Boxplot by Season

Percent Chance of Exceedance

Non-Detect Levels
Jitter Plot

Di-N-Octyl Phthalate water (ug/L)

Randomized X
Det=71
ND=561
88.8%

Non-Detect Levels

Empirical Distribution Function (EDF)

All Data

Percent Below

0 20 40 60 80 100

0.01 0.02 0.05 0.10 0.20 0.50 1.00 2.00 5.00

Detect-DrySeas
Detect-WetSeas
NonDetect-DrySeas
NonDetect-WetSeas

Not Plotted
(Case C)

Not Plotted
(Case C)
Jitter Plot

Diazinon water (ug/L)

Randomized X
Det=6
ND=638
99.1%

Empirical Distribution Function (EDF)

All Data

Non-Detect Levels

Diazinon water (ug/L)

Not Plotted (Case C)

Detect−DrySeas
Detect−WetSeas
NonDetect−DrySeas
NonDetect−WetSeas

Not Plotted
(Case C)
Jitter Plot

Dibutyl phthalate sediment (ug/Kg)

Empirical Distribution Function (EDF)

Boxplot by Land Use

Boxplot by Season

Percent Chance of Exceedance

Non-Detect Levels

Empirical Distribution Function (EDF)

Boxplot by Land Use

Boxplot by Season

Non-Detect Levels

Empirical Distribution Function (EDF)

Boxplot by Land Use

Boxplot by Season

Non-Detect Levels

Empirical Distribution Function (EDF)

Boxplot by Land Use

Boxplot by Season

Non-Detect Levels
Jitter Plot

**Fluorene water (ug/L)**

- Detect-DrySeas
- Detect-WetSeas
- NonDetect-DrySeas
- NonDetect-WetSeas

Randomized X
Det=80
ND=554
87.4%

Empirical Distribution Function (EDF)

**Non-Detect Levels**

Not Plotted (Case C)

Not Plotted (Case C)
Heavy Fuel Oil water (μg/L)

- Jitter Plot
  - Ind: Det=14, ND=5, 26.3%
  - Com: Det=93, ND=6, 6.1%
  - HRes: Det=78, ND=21, 21.2%
  - LRes: Det=49, ND=32, 39.5%

- Empirical Distribution Function (EDF)
  - Ind
  - Com
  - HRes
  - LRes

- Percent Chance of Exceedance

- Non-Detect Levels

- Boxplot by Land Use
  - Ind, Com, HRes, LRes

- Boxplot by Season
  - Winter: Det=79, ND=27, 25.5%
  - Spring: Det=69, ND=14, 16.9%
  - Summer: Det=21, ND=4, 16%
  - Fall: Det=65, ND=19, 22.6%
Jitter Plot

Percent Chance of Exceedance

Non-Detect Levels

Empirical Distribution Function (EDF)

Boxplot by Land Use

Boxplot by Season
Jitter Plot

Magnesium water dissolved (ug/L)

Not Plotted
(Fewer than 5 detections)

Not Plotted
(No Non-Detects)

Not Plotted
(Fewer than 5 detections)

Not Plotted
(Less than 5 detections)

Not Plotted
(Less than 5 detections)
Jitter Plot

Malathion sediment (ug/Kg)

Randomized X
Det=1
ND=52
98.1%

Not Plotted
(Less than 5 detections)

Non-Detect Levels

Malathion sediment (ug/Kg)

Not Plotted
(Case C)
Jitter Plot

Mecoprop sediment (ug/Kg)

Randomized X
Det=1
ND=11
91.7%

Not Plotted
(Less than 5 detections)

Non−Detect Levels

Mecoprop sediment (ug/Kg)

Det−DrySeas
Det−WetSeas
NonDetect−DrySeas
NonDetect−WetSeas

Not Plotted
(Case C)

Not Plotted
(Case C)

Not Plotted
(Case C)
Jitter Plot

- Detect-DrySeas
- Detect-WetSeas
- NonDetect-DrySeas
- NonDetect-WetSeas

Randomized X
Det=2
ND=24
92.3%

Not Plotted
(Case C)

Non-Detect Levels

- Not Plotted
  (Less than 5 detections)
- Not Plotted
  (Case C)
- Not Plotted
  (Case C)
Jitter Plot

PCB-arcolor 1016 sediment (ug/Kg)

Randomized X

Det=0
ND=33
100%

Detect-DrySeas
Detect-WetSeas
NonDetect-DrySeas
NonDetect-WetSeas

Not Plotted
(Less than 5 detections)

Non-Detect Levels

PCB-arcolor 1016 sediment (ug/Kg)

Not Plotted
(Case C)

Not Plotted
(Case C)

Not Plotted
(Case C)
Jitter Plot

PCB-1242 sediment (ug/Kg)

Randomized X
Det=0
ND=33
100%

Detect-DrySeas
Detect-WetSeas
NonDetect-DrySeas
NonDetect-WetSeas

Non-Detect Levels

PCB-1242 sediment (ug/Kg)

Not Plotted
(Less than 5 detections)

Not Plotted
(Case C)

Not Plotted
(Case C)
Jitter Plot

PCB−aroclor 1242 water (ug/L)

Randomized X
Det=0
ND=27
100%

Detect−DrySeas
Detect−WetSeas
NonDetect−DrySeas
NonDetect−WetSeas

Not Plotted
(Case C)

Non−Detect Levels

PCB−aroclor 1242 water (ug/L)

Not Plotted
(Less than 5 detections)

Not Plotted
(Case C)

Not Plotted
(Case C)
Jitter Plot

PCB−aroclor 1260 water (ug/L)

Detect−DrySeas
Detect−WetSeas
NonDetect−DrySeas
NonDetect−WetSeas

Ind
Det=2
ND=7
77.8%

Com
Det=4
ND=4
50%

HRes
Det=1
ND=9
90%

LRes
Det=0
ND=0
−%

Normal Quantiles

Percent Chance of Exceedance

Empirical Distribution Function (EDF)

PCB−aroclor 1260 water (ug/L)

Not Plotted
(No land use has 5 or more detections)

Not Plotted
(No season has 5 or more detections)
Jitter Plot

Pyrene sediment (ug/Kg)

Empirical Distribution Function (EDF)

Boxplot by Land Use

Boxplot by Season

Percent Chance of Exceedance

Non-Detect Levels

Percent Below

Value

Normal Quantiles

Boxplot by Season

max-ND

min-ND

ND Region

Boxplot by Land Use

max-ND

min-ND

ND Region

Pyrene sediment (ug/Kg)
Sampled-Event Flow Volume water (m$^3$)

Jitter Plot

Empirical Distribution Function (EDF)

Percent Chance of Exceedance

Boxplot by Land Use

Boxplot by Season
Jitter Plot

Toluene water (ug/L)

Randomized X
Det=3
ND=117
97.5%

Not Plotted
(Less than 5 detections)

Not Plotted
(Case C)

Non-Detect Levels

Toluene water (ug/L)

Not Plotted
(Case C)
Jitter Plot

Percent Chance of Exceedance

Empirical Distribution Function (EDF)

Boxplot by Land Use

Boxplot by Season

Not Plotted (No Non-Detects)
Jitter Plot

Percent Chance of Exceedance

Non-Detect Levels

Empirical Distribution Function (EDF)

Boxplot by Land Use

Boxplot by Season

Total TPHDx water (ug/L)
Jitter Plot

TPHGx water (ug/L)

Randomized X
Det=1
ND=34
97.1%

Not Plotted
(Less than 5 detections)

Non-Detect Levels

TPHGx water (ug/L)

Not Plotted
(Less than 5 detections)

Not Plotted
(Case C)
Jitter Plot

Zinc sediment (ug/Kg)

- Ind Det=6 ND=0 0%
- Com Det=46 ND=0 0%
- HRes Det=17 ND=0 0%
- LRes Det=11 ND=0 0%

Empirical Distribution Function (EDF)

Zinc sediment (ug/Kg)

- Ind
- Com
- HRes
- LRes

Boxplot by Land Use

- Ind Det=6 ND=0 0%
- Com Det=46 ND=0 0%
- HRes Det=17 ND=0 0%
- LRes Det=11 ND=0 0%

Boxplot by Season

- Winter Det=8 ND=0 0%
- Spring Det=10 ND=0 0%
- Summer Det=47 ND=0 0%
- Fall Det=15 ND=0 0%

Percent Chance of Exceedance

Value

Normal Quantiles

Not Plotted
(No Non−Detects)