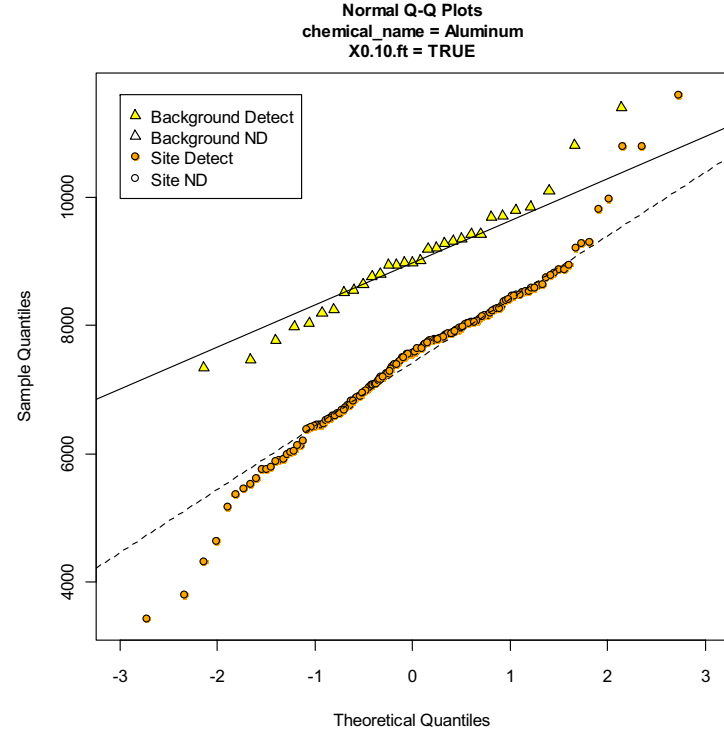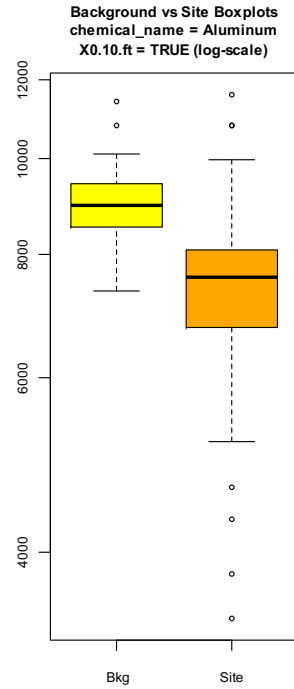# APPENDIX D
## Probability Plots for Background Metals Evaluation



Background vs Site Boxplots
chemical_name = Aluminum
X0.10.ft = TRUE

Background vs Site Boxplots
chemical_name = Aluminum
X0.10.ft = TRUE (log-scale)

Normal Q-Q Plots
chemical_name = Aluminum
X0.10.ft = TRUE

- △ Background Detect
- △ Background ND
- ● Site Detect
- ○ Site ND

# APPENDIX D
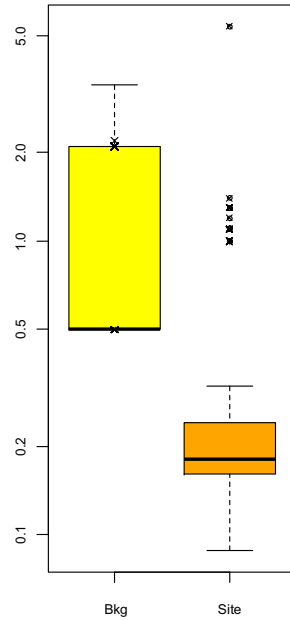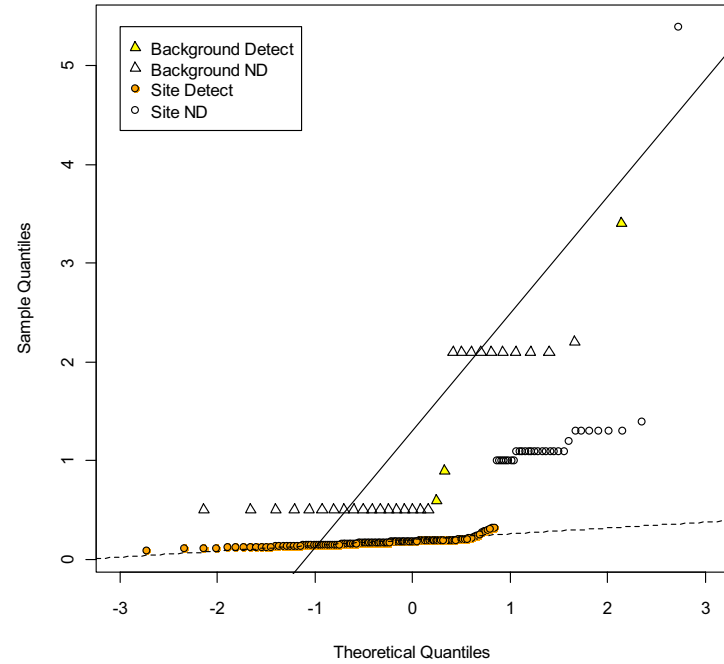## Probability Plots for Background Metals Evaluation

**Background vs Site Boxplots**
**chemical_name = Antimony**
**X0.10.ft = TRUE**

**Background vs Site Boxplots**
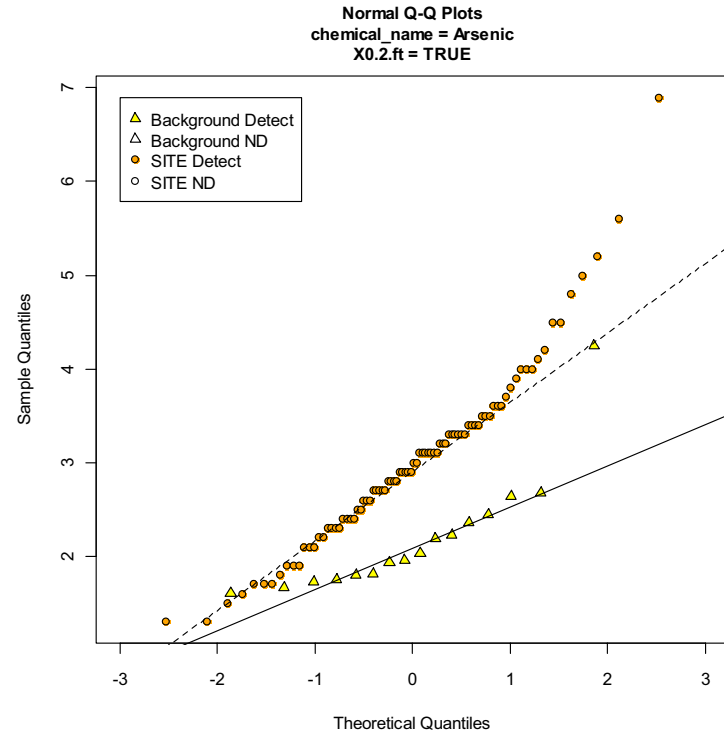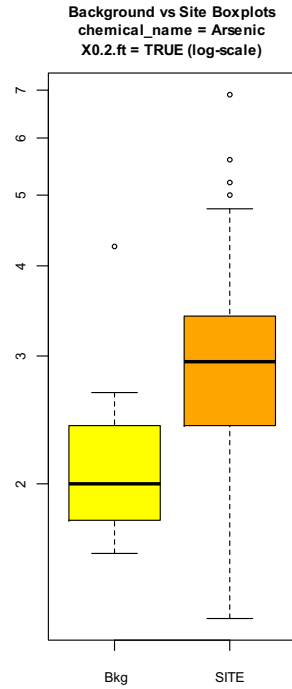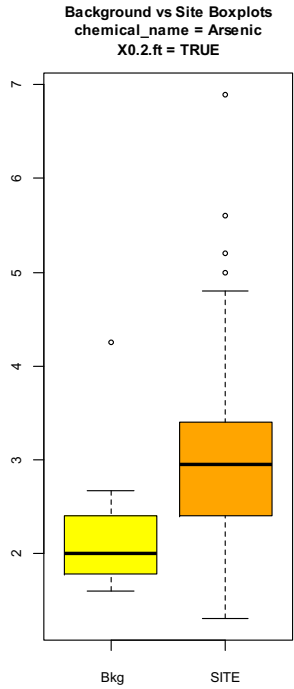**chemical_name = Antimony**
**X0.10.ft = TRUE (log-scale)**

**Normal Q-Q Plots**
**chemical_name = Antimony**
**X0.10.ft = TRUE**

# APPENDIX D
## Probability Plots for Background Metals Evaluation

**Background vs Site Boxplots**
**chemical_name = Arsenic**
**X0.2.ft = TRUE**

**Background vs Site Boxplots**
**chemical_name = Arsenic**
**X0.2.ft = TRUE (log-scale)**

**Normal Q-Q Plots**
**chemical_name = Arsenic**
**X0.2.ft = TRUE**

# APPENDIX D
## Probability Plots for Background Metals Evaluation

**Background vs Site Boxplots**
**chemical_name = Arsenic**
**X2.10.ft = TRUE**

**Background vs Site Boxplots**
**chemical_name = Arsenic**
**X2.10.ft = TRUE (log-scale)**

**Normal Q-Q Plots**
**chemical_name = Arsenic**
**X2.10.ft = TRUE**

△ Background Detect
△ Background ND
○ Site Detect
○ Site ND

# APPENDIX D
## Probability Plots for Background Metals Evaluation



Background vs Site Boxplots
chemical_name = Barium
X0.10.ft = TRUE

Background vs Site Boxplots
chemical_name = Barium
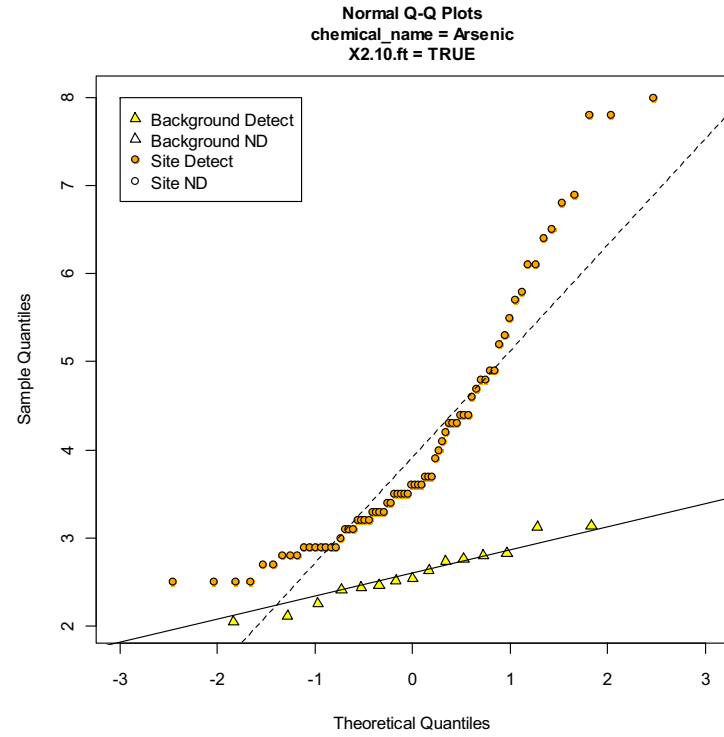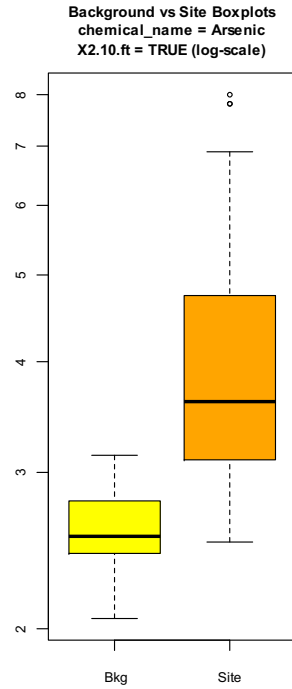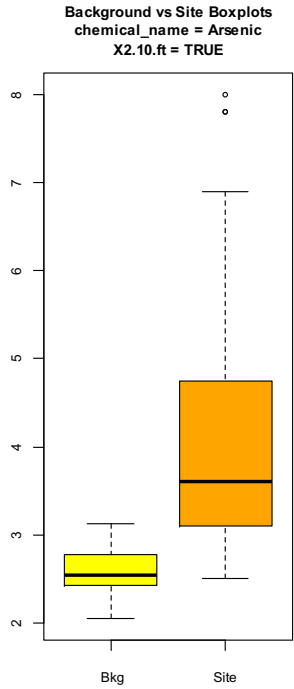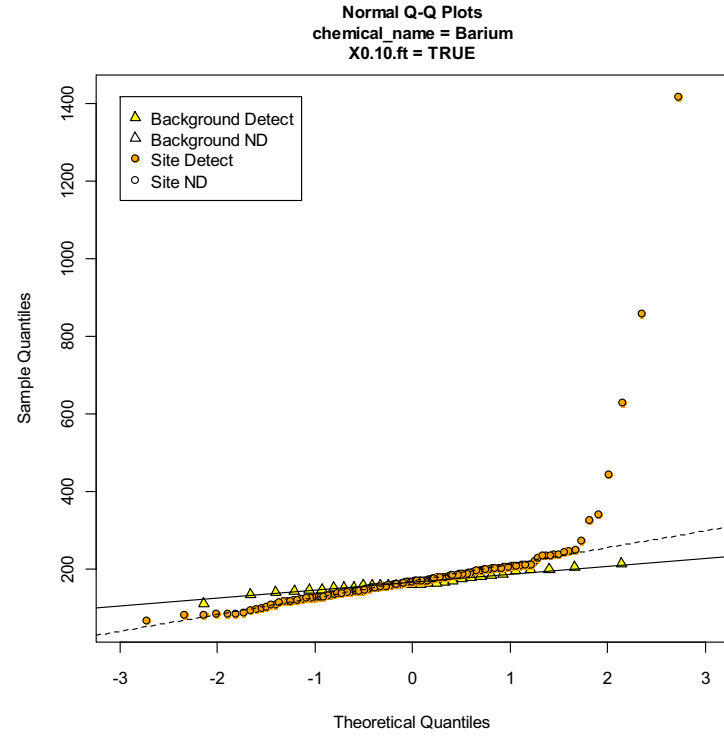X0.10.ft = TRUE (log-scale)

Normal Q-Q Plots
chemical_name = Barium
X0.10.ft = TRUE
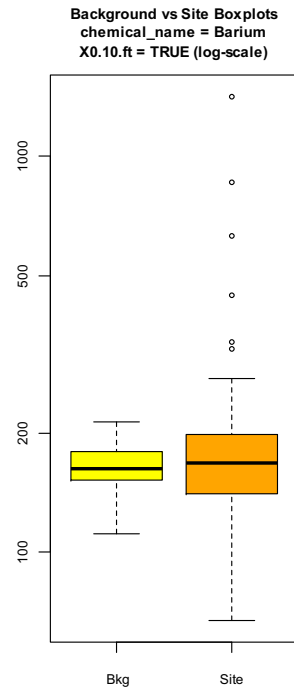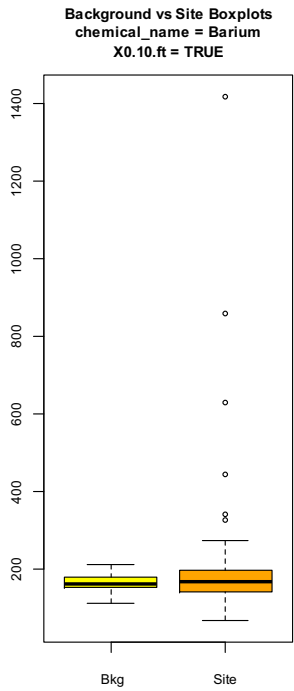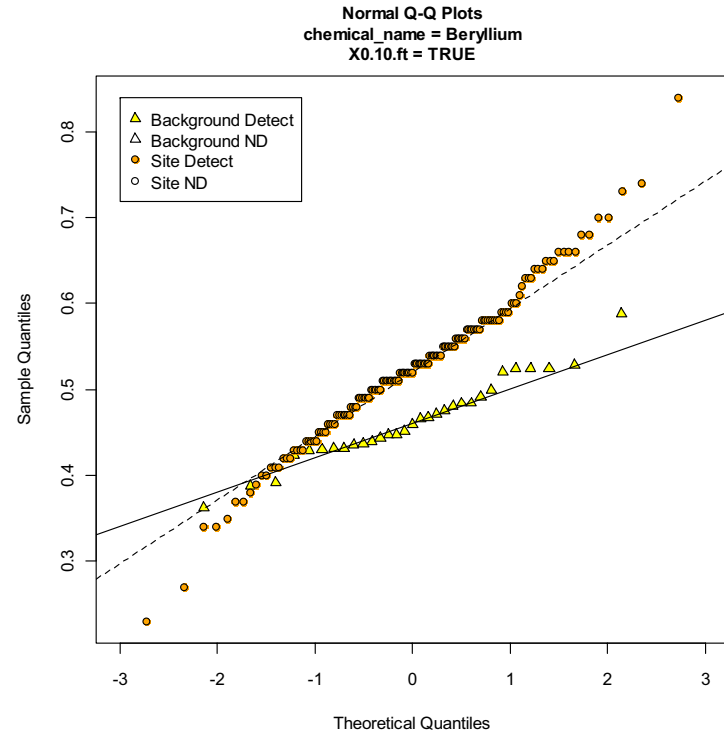
# APPENDIX D
## Probability Plots for Background Metals Evaluation

**Background vs Site Boxplots**
**chemical_name = Beryllium**
**X0.10.ft = TRUE**

**Background vs Site Boxplots**
**chemical_name = Beryllium**
**X0.10.ft = TRUE (log-scale)**

**Normal Q-Q Plots**
**chemical_name = Beryllium**
**X0.10.ft = TRUE**

- △ Background Detect
- △ Background ND
- ● Site Detect
- ○ Site ND

Sample Quantiles

Theoretical Quantiles
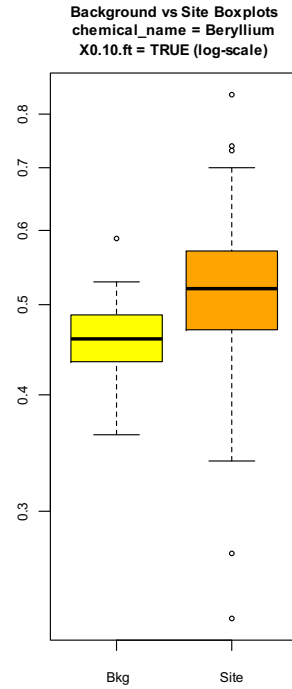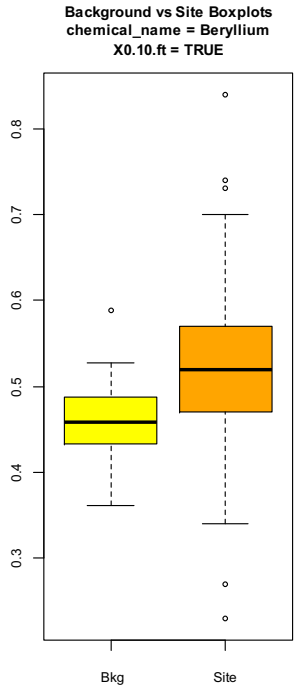
# APPENDIX D
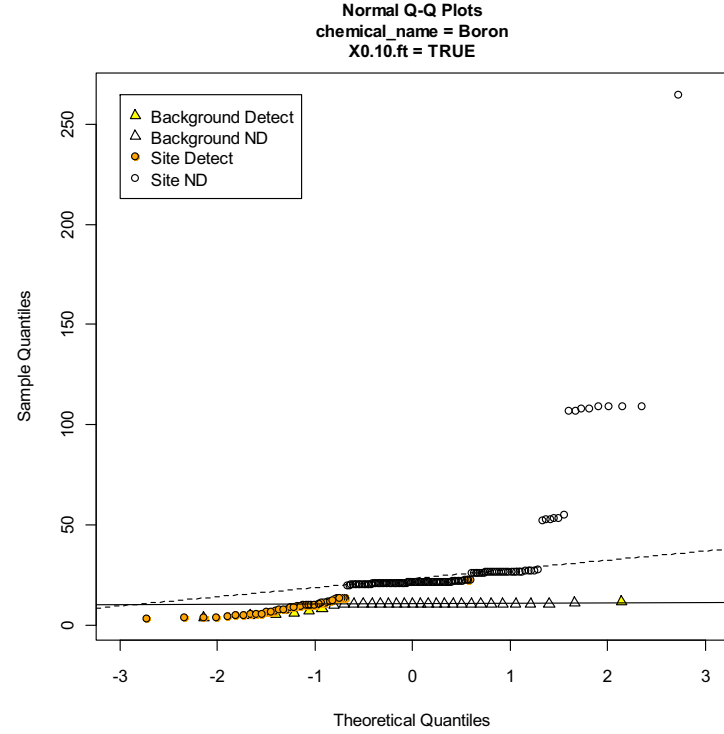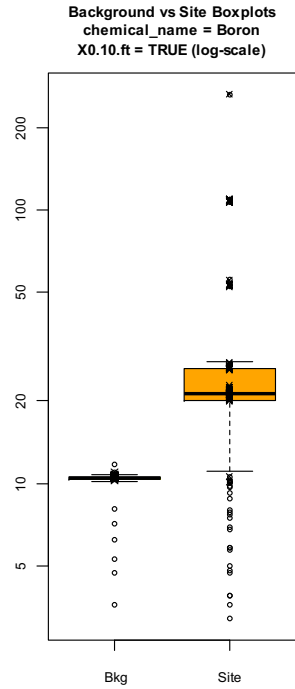## Probability Plots for Background Metals Evaluation



**Background vs Site Boxplots**
**chemical_name = Boron**
**X0.10.ft = TRUE**

**Background vs Site Boxplots**
**chemical_name = Boron**
**X0.10.ft = TRUE (log-scale)**

**Normal Q-Q Plots**
**chemical_name = Boron**
**X0.10.ft = TRUE**

△ Background Detect
△ Background ND
● Site Detect
○ Site ND
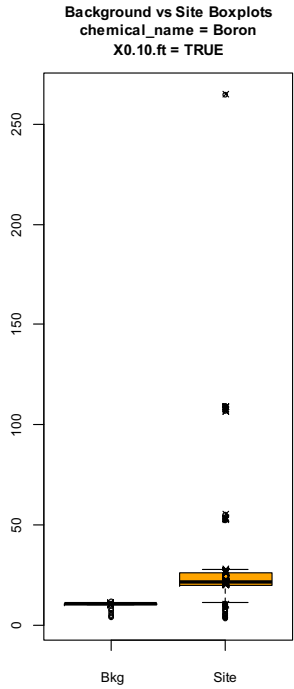
# APPENDIX D
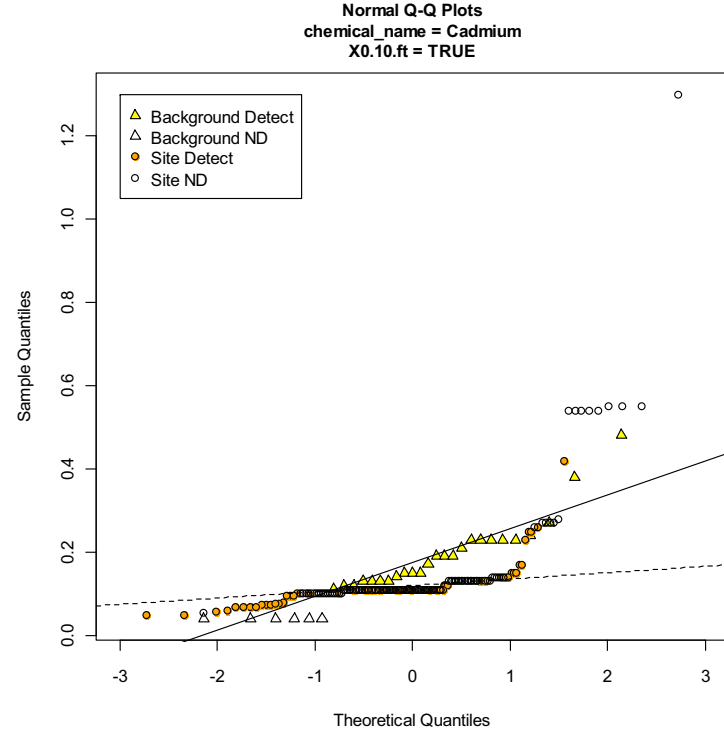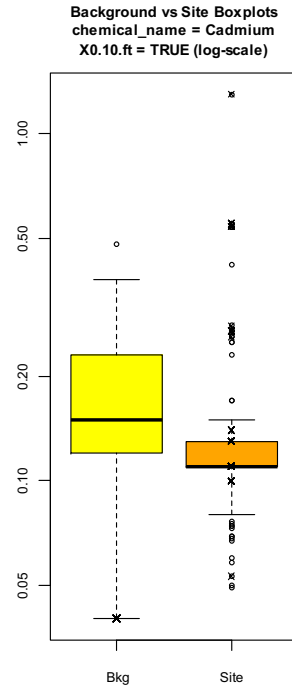## Probability Plots for Background Metals Evaluation



**Background vs Site Boxplots**
**chemical_name = Cadmium**
**X0.10.ft = TRUE**

**Background vs Site Boxplots**
**chemical_name = Cadmium**
**X0.10.ft = TRUE (log-scale)**

**Normal Q-Q Plots**
**chemical_name = Cadmium**
**X0.10.ft = TRUE**
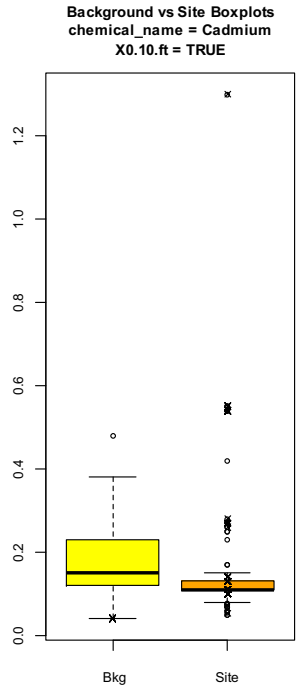
# APPENDIX D
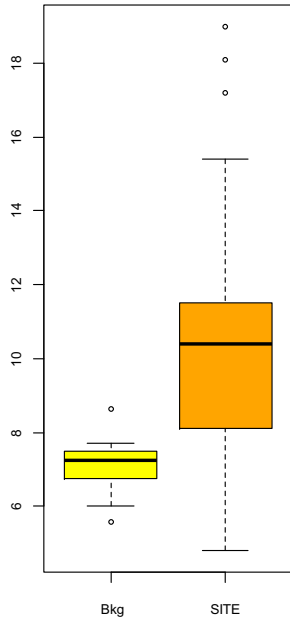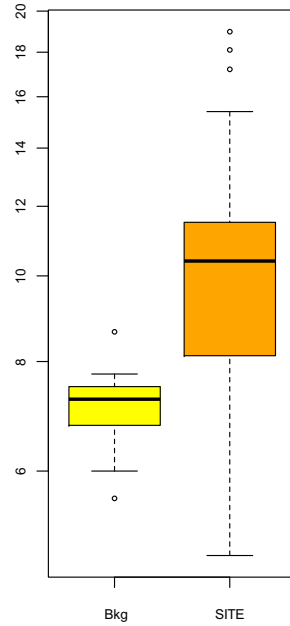## Probability Plots for Background Metals Evaluation

**Background vs Site Boxplots**
**chemical_name = Chromium (Total)**
**X0.2.ft = TRUE**

**Background vs Site Boxplots**
**chemical_name = Chromium (Total)**
**X0.2.ft = TRUE (log-scale)**

**Normal Q-Q Plots**
**chemical_name = Chromium (Total)**
**X0.2.ft = TRUE**

# APPENDIX D
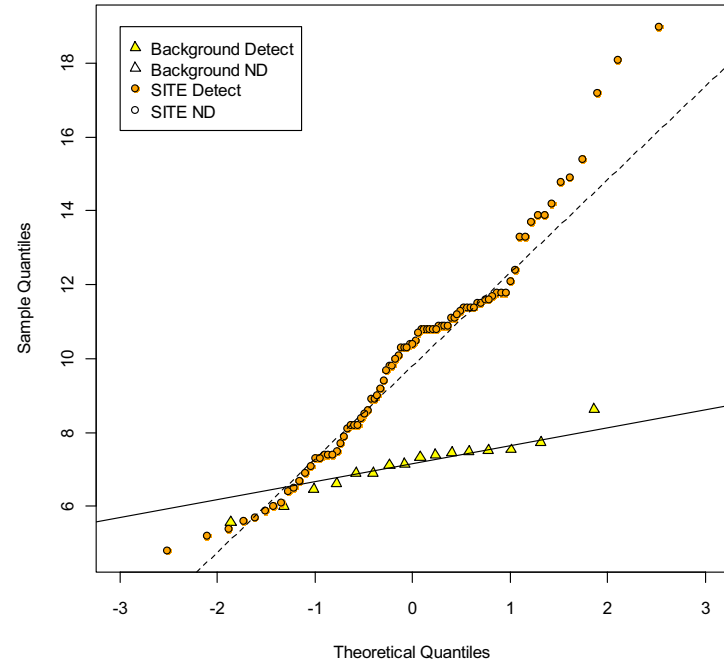# Probability Plots for Background Metals Evaluation

**Background vs Site Boxplots**
**chemical_name = Chromium (Total)**
**X2.10.ft = TRUE**

**Background vs Site Boxplots**
**chemical_name = Chromium (Total)**
**X2.10.ft = TRUE (log-scale)**

**Normal Q-Q Plots**
**chemical_name = Chromium (Total)**
**X2.10.ft = TRUE**

# APPENDIX D
# Probability Plots for Background Metals Evaluation



**Background vs Site Boxplots**
chemical_name = Chromium (VI)
X0.10.ft = TRUE

**Background vs Site Boxplots**
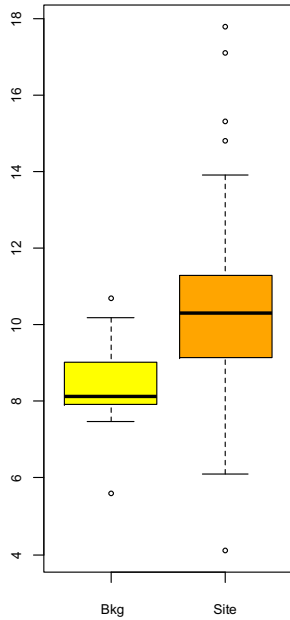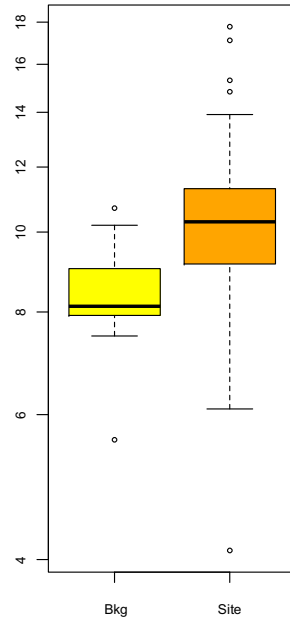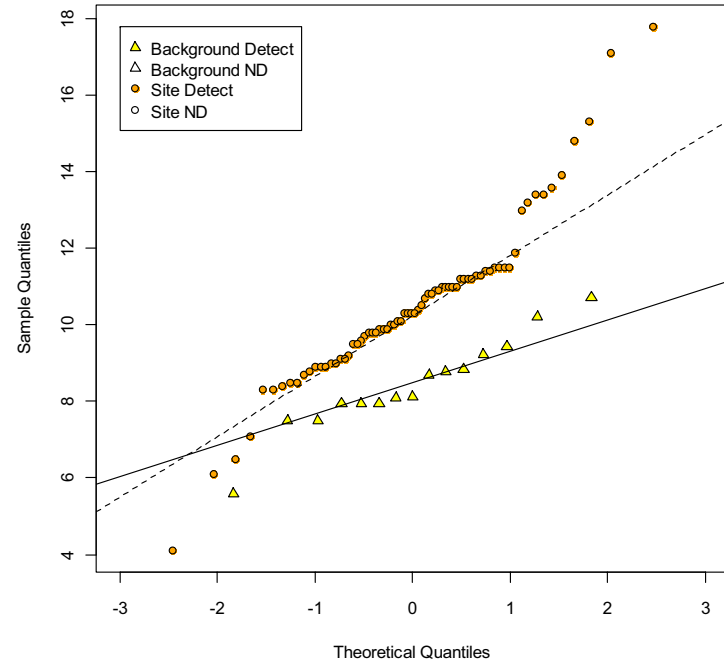chemical_name = Chromium (VI)
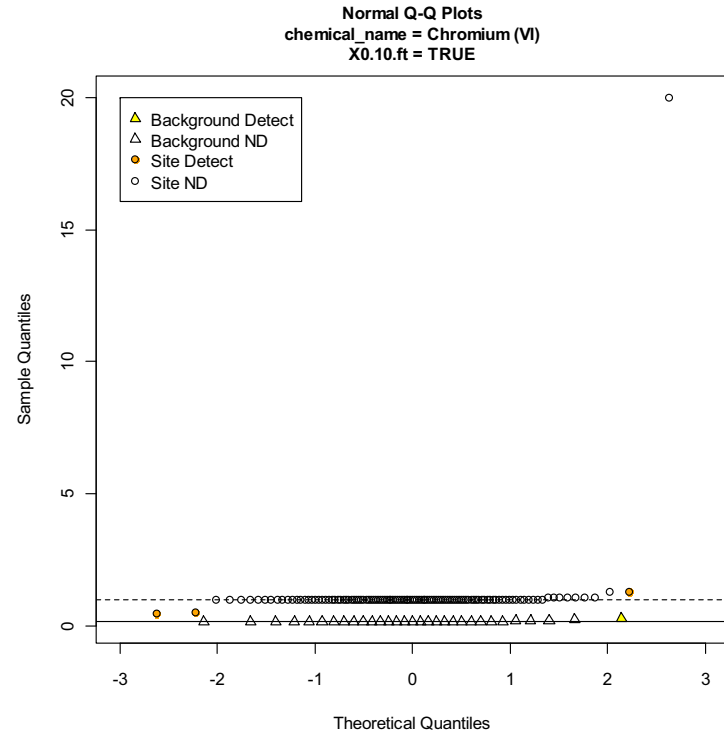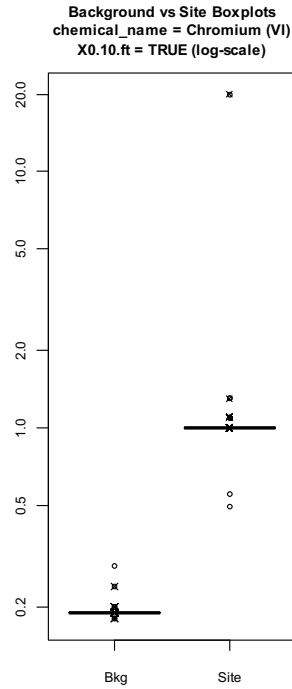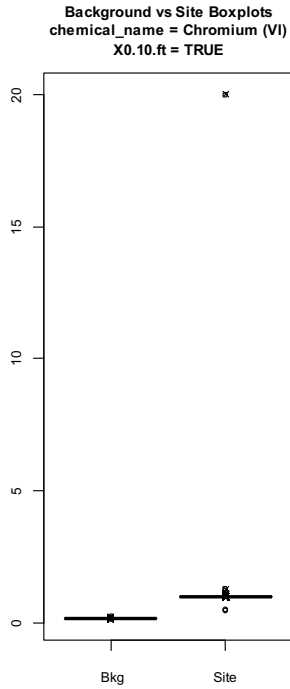X0.10.ft = TRUE (log-scale)

**Normal Q-Q Plots**
chemical_name = Chromium (VI)
X0.10.ft = TRUE

- △ Background Detect
- △ Background ND
- ● Site Detect
- ○ Site ND

# APPENDIX D
## Probability Plots for Background Metals Evaluation

**Background vs Site Boxplots**
**chemical_name = Cobalt**
**X0.10.ft = TRUE**

**Background vs Site Boxplots**
**chemical_name = Cobalt**
**X0.10.ft = TRUE (log-scale)**

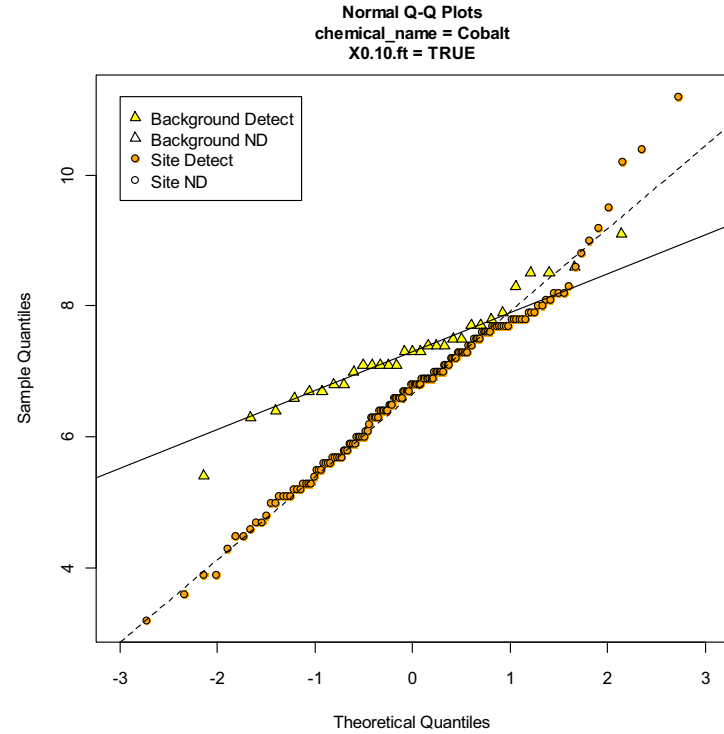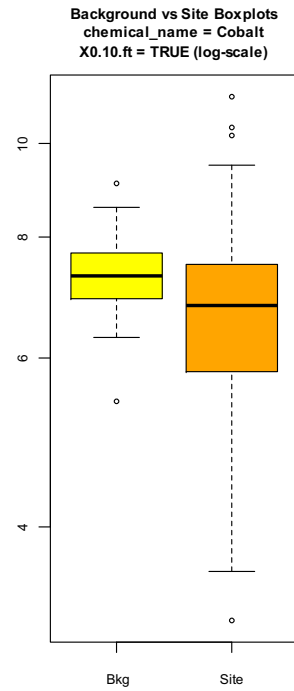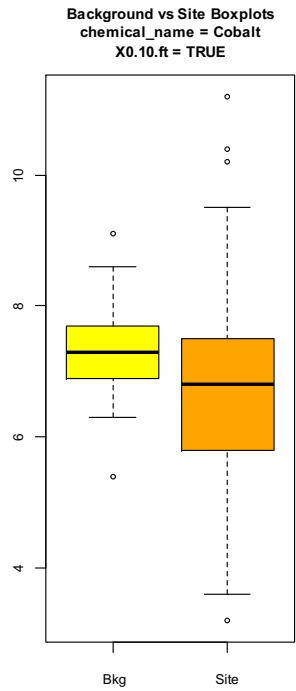**Normal Q-Q Plots**
**chemical_name = Cobalt**
**X0.10.ft = TRUE**

# APPENDIX D
# Probability Plots for Background Metals Evaluation



**Background vs Site Boxplots**
**chemical_name = Copper**
**X0.10.ft = TRUE**

**Background vs Site Boxplots**
**chemical_name = Copper**
**X0.10.ft = TRUE (log-scale)**

**Normal Q-Q Plots**
**chemical_name = Copper**
**X0.10.ft = TRUE**

- △ Background Detect
- △ Background ND
- ● Site Detect
- ○ Site ND

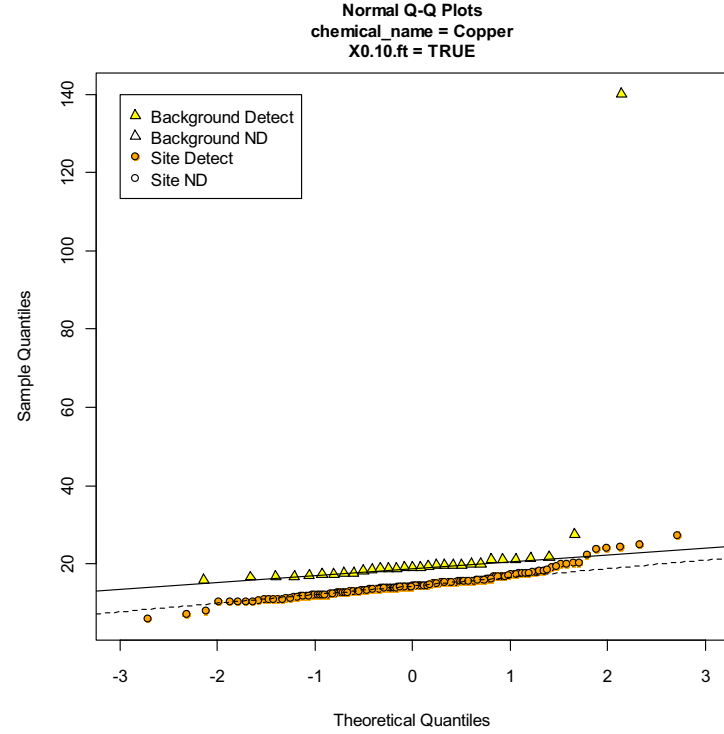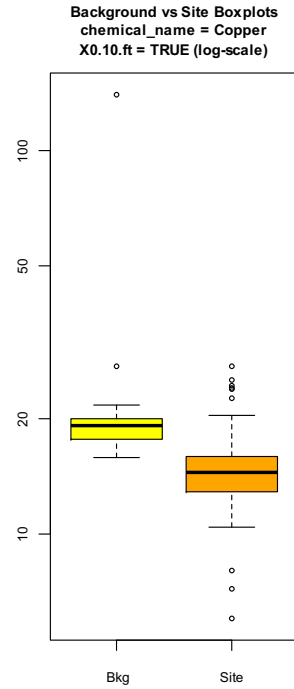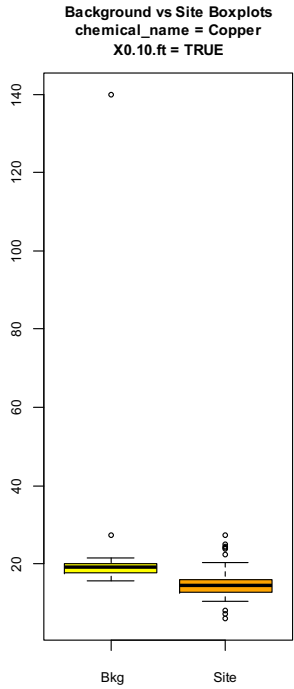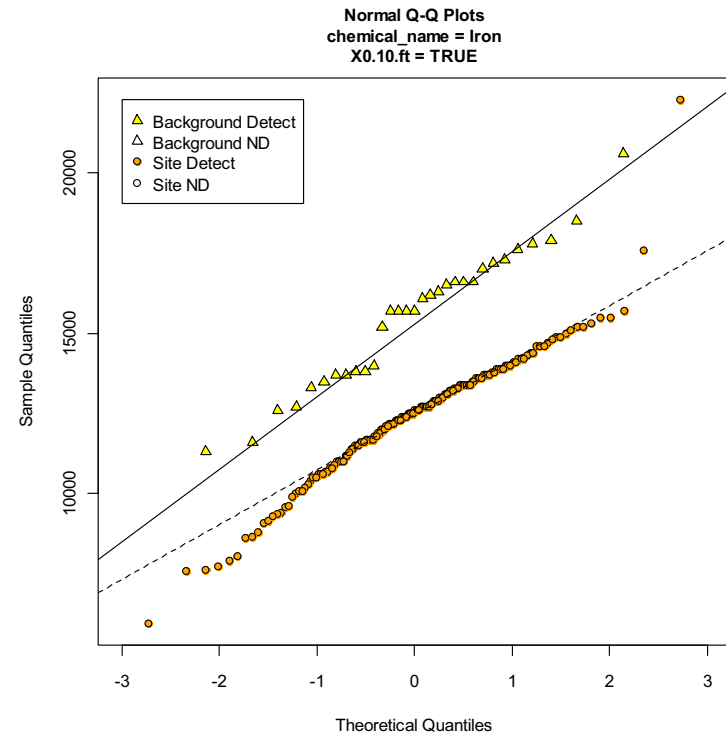# APPENDIX D
## Probability Plots for Background Metals Evaluation

**Background vs Site Boxplots**
**chemical_name = Iron**
**X0.10.ft = TRUE**

**Background vs Site Boxplots**
**chemical_name = Iron**
**X0.10.ft = TRUE (log-scale)**

**Normal Q-Q Plots**
**chemical_name = Iron**
**X0.10.ft = TRUE**

- △ Background Detect
- △ Background ND
- ● Site Detect
- ○ Site ND
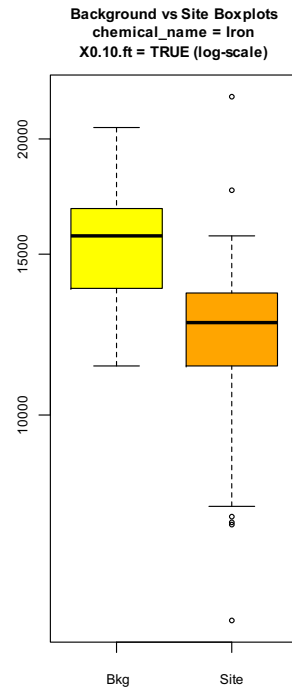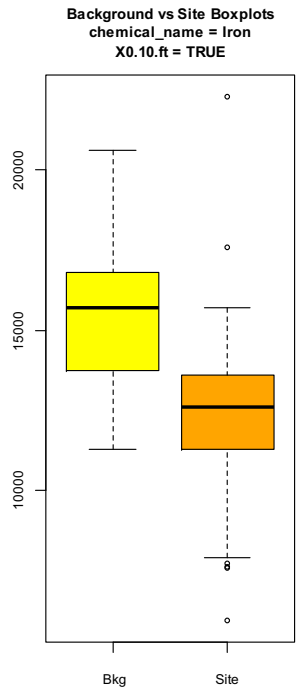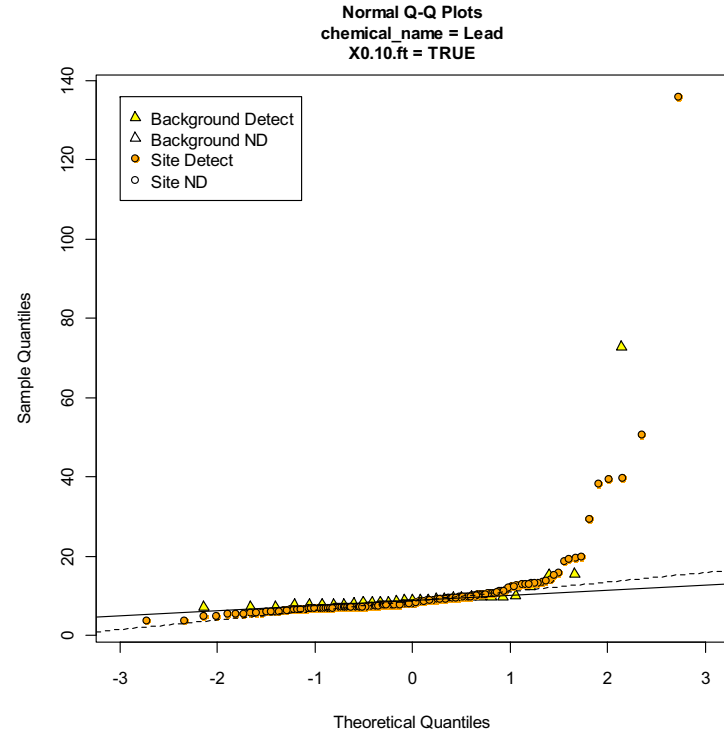
# APPENDIX D
## Probability Plots for Background Metals Evaluation

**Background vs Site Boxplots**
**chemical_name = Lead**
**X0.10.ft = TRUE**

**Background vs Site Boxplots**
**chemical_name = Lead**
**X0.10.ft = TRUE (log-scale)**

**Normal Q-Q Plots**
**chemical_name = Lead**
**X0.10.ft = TRUE**

△ Background Detect
△ Background ND
● Site Detect
○ Site ND
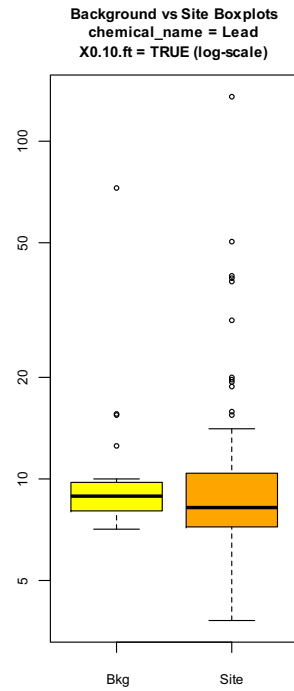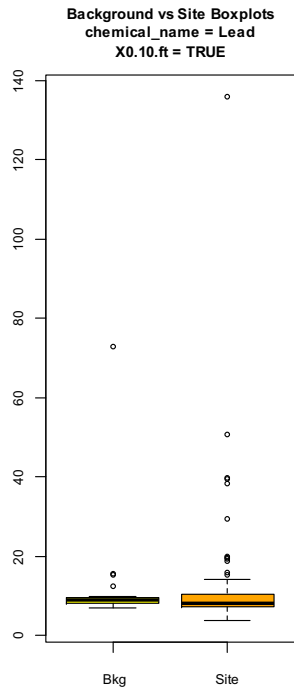
# APPENDIX D
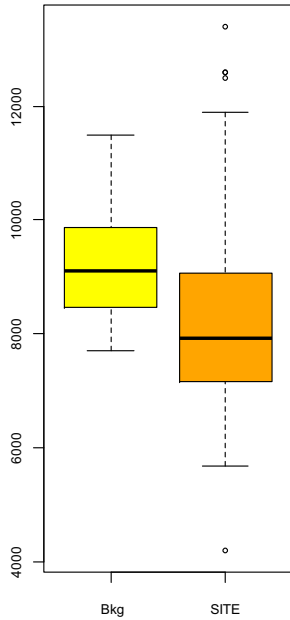## Probability Plots for Background Metals Evaluation

**Background vs Site Boxplots**
**chemical_name = Magnesium**
**X0.2.ft = TRUE**

**Background vs Site Boxplots**
**chemical_name = Magnesium**
**X0.2.ft = TRUE (log-scale)**

**Normal Q-Q Plots**
**chemical_name = Magnesium**
**X0.2.ft = TRUE**

△ Background Detect
△ Background ND
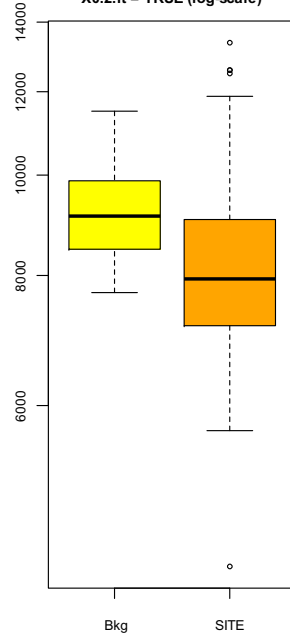● SITE Detect
○ SITE ND

# APPENDIX D
## Probability Plots for Background Metals Evaluation

**Background vs Site Boxplots**
**chemical_name = Magnesium**
**X2.10.ft = TRUE**

**Background vs Site Boxplots**
**chemical_name = Magnesium**
**X2.10.ft = TRUE (log-scale)**

**Normal Q-Q Plots**
**chemical_name = Magnesium**
**X2.10.ft = TRUE**

△ Background Detect
△ Background ND
● Site Detect
○ Site ND

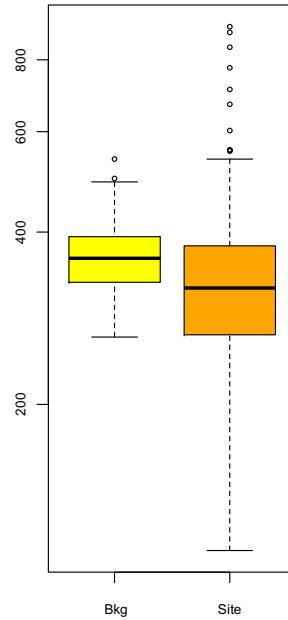Sample Quantiles

Theoretical Quantiles

# APPENDIX D
## Probability Plots for Background Metals Evaluation



**Background vs Site Boxplots**
**chemical_name = Manganese**
**X0.10.ft = TRUE**

**Background vs Site Boxplots**
**chemical_name = Manganese**
**X0.10.ft = TRUE (log-scale)**

**Normal Q-Q Plots**
**chemical_name = Manganese**
**X0.10.ft = TRUE**

- △ Background Detect
- △ Background ND
- ● Site Detect
- ○ Site ND

# APPENDIX D
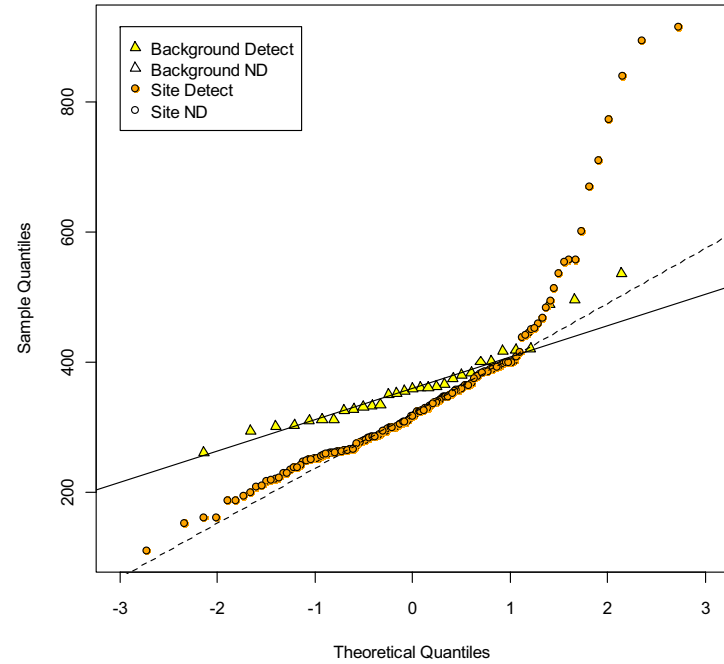## Probability Plots for Background Metals Evaluation



**Background vs Site Boxplots**
chemical_name = Mercury
X0.2.ft = TRUE

**Background vs Site Boxplots**
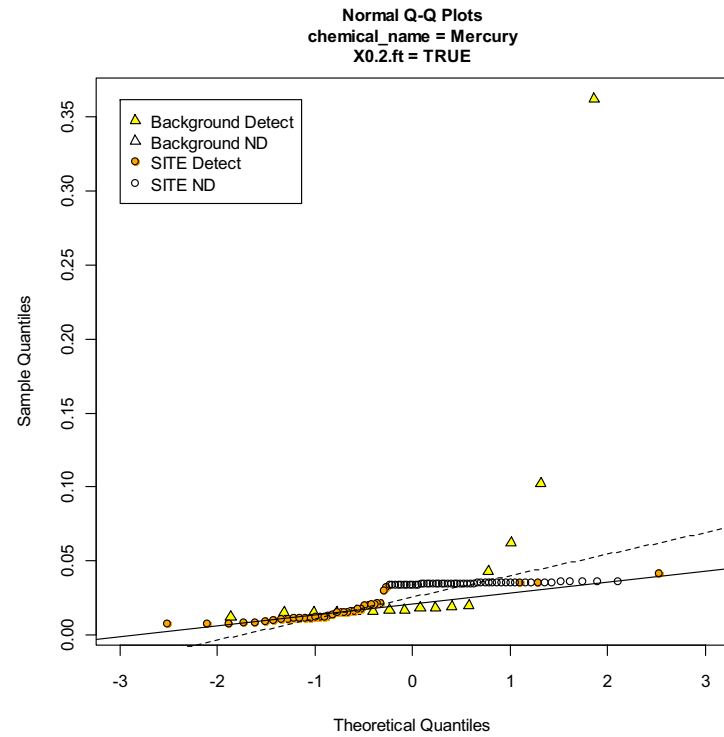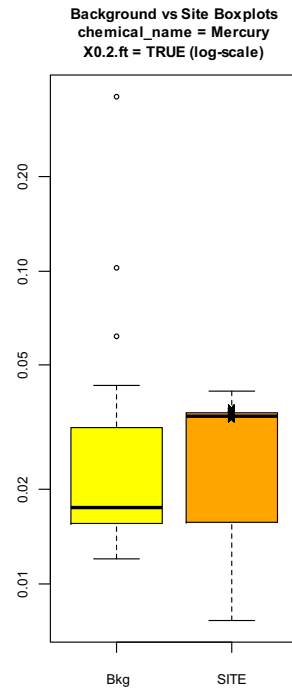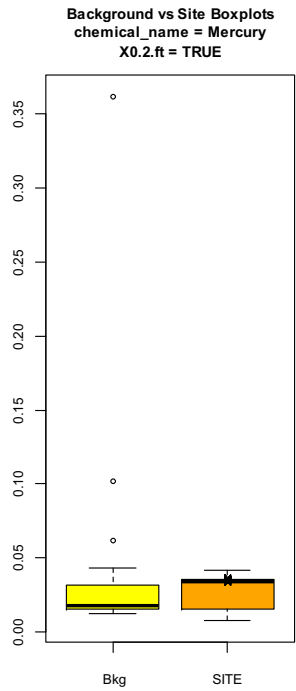chemical_name = Mercury
X0.2.ft = TRUE (log-scale)

**Normal Q-Q Plots**
chemical_name = Mercury
X0.2.ft = TRUE

Legend:
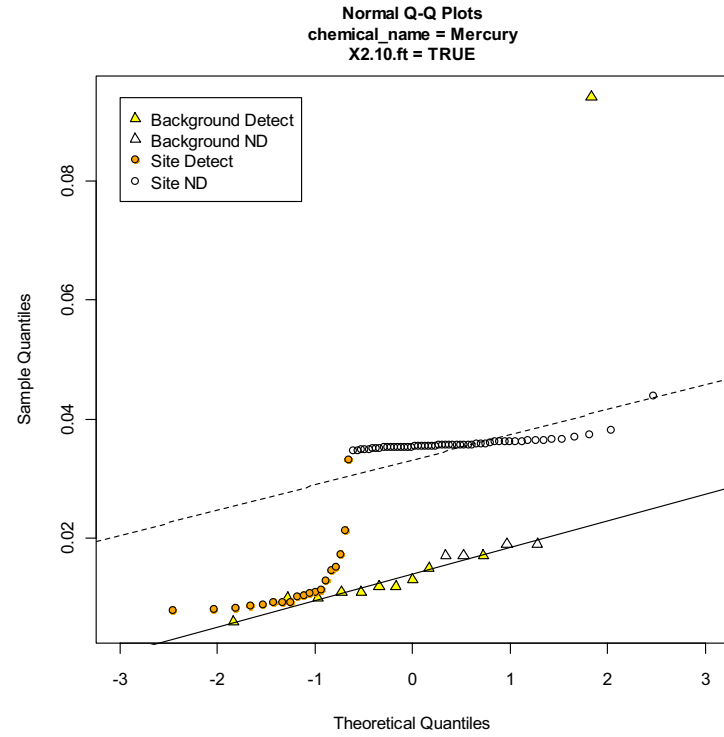- △ Background Detect
- △ Background ND
- ● SITE Detect
- ○ SITE ND

# APPENDIX D
## Probability Plots for Background Metals Evaluation

**Background vs Site Boxplots**
**chemical_name = Mercury**
**X2.10.ft = TRUE**

**Background vs Site Boxplots**
**chemical_name = Mercury**
**X2.10.ft = TRUE (log-scale)**

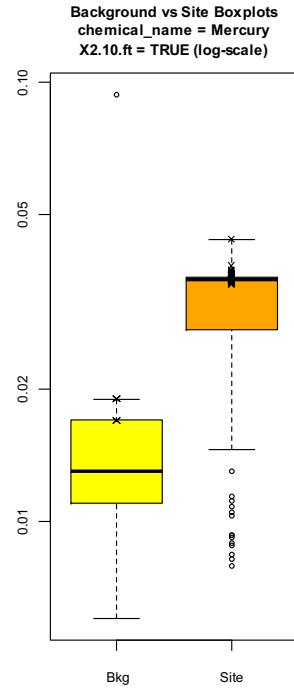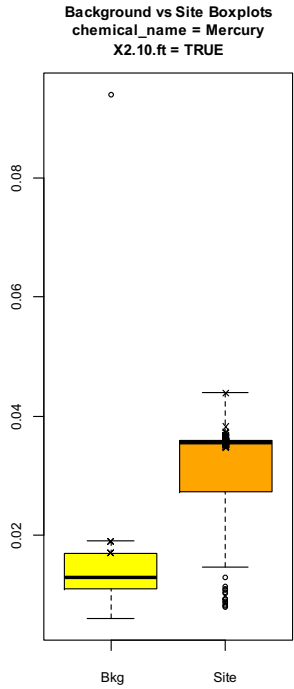**Normal Q-Q Plots**
**chemical_name = Mercury**
**X2.10.ft = TRUE**
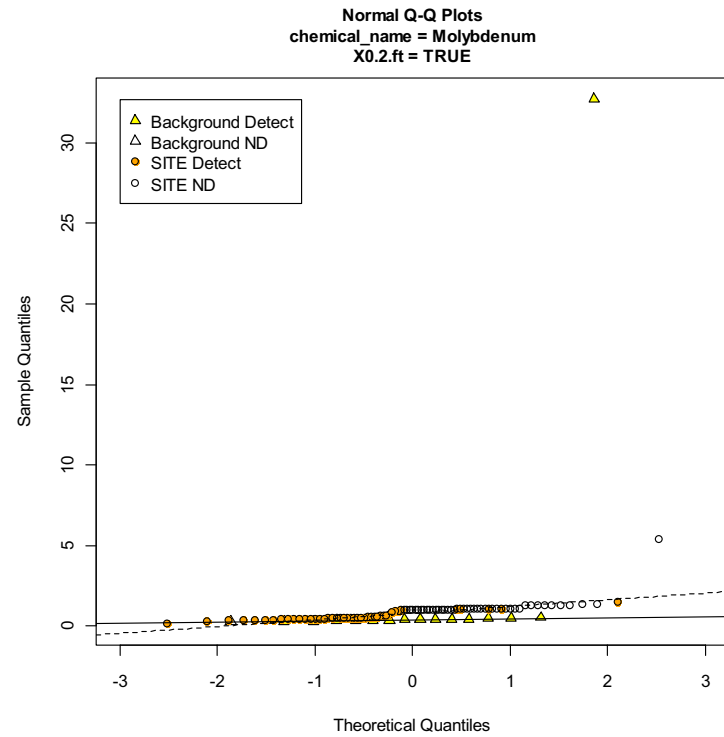
# APPENDIX D
## Probability Plots for Background Metals Evaluation



**Background vs Site Boxplots**
**chemical_name = Molybdenum**
**X0.2.ft = TRUE**

**Background vs Site Boxplots**
**chemical_name = Molybdenum**
**X0.2.ft = TRUE (log-scale)**

**Normal Q-Q Plots**
**chemical_name = Molybdenum**
**X0.2.ft = TRUE**

- △ Background Detect
- △ Background ND
- ● SITE Detect
- ○ SITE ND
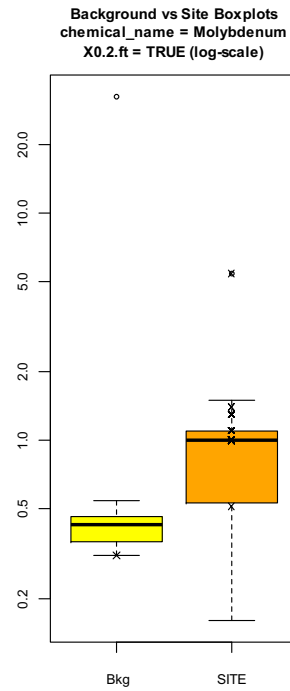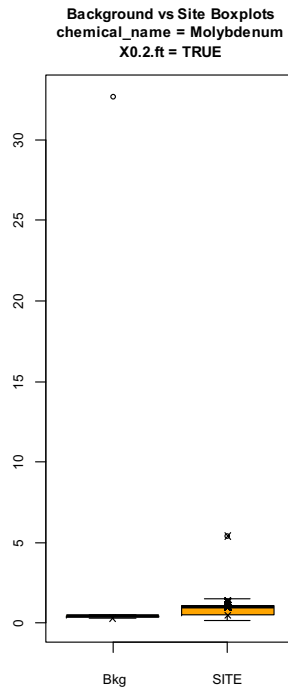
# APPENDIX D
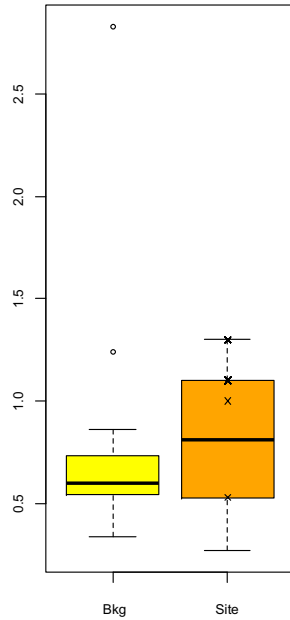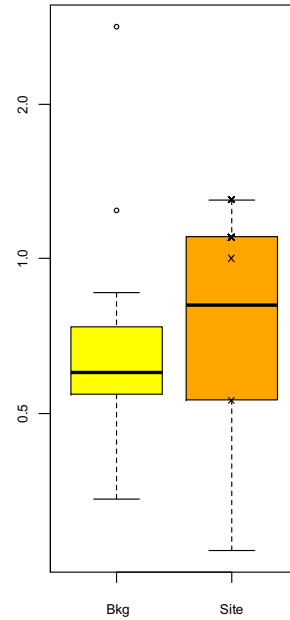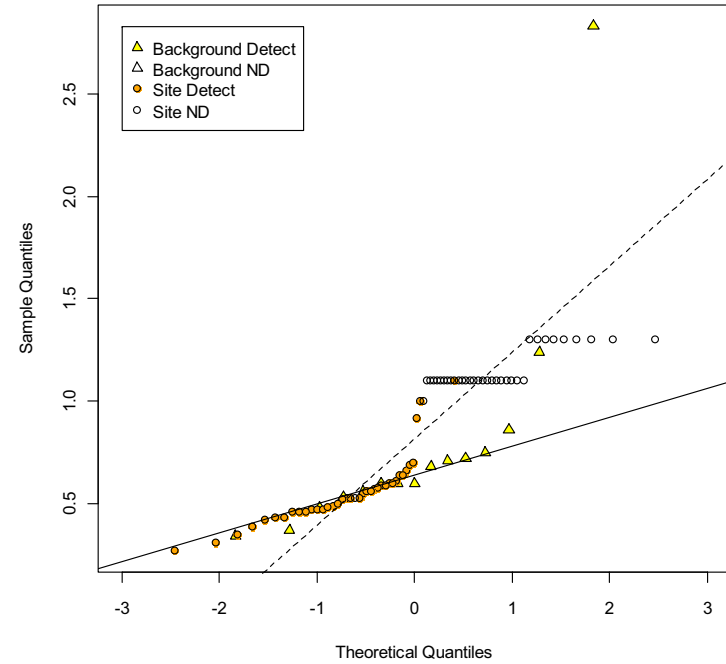## Probability Plots for Background Metals Evaluation



**Background vs Site Boxplots**
**chemical_name = Molybdenum**
**X2.10.ft = TRUE**

**Background vs Site Boxplots**
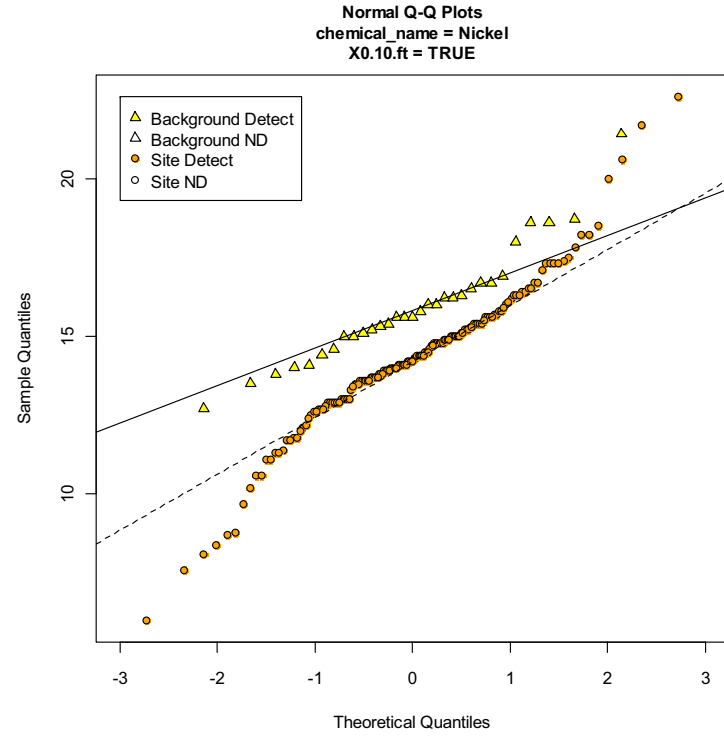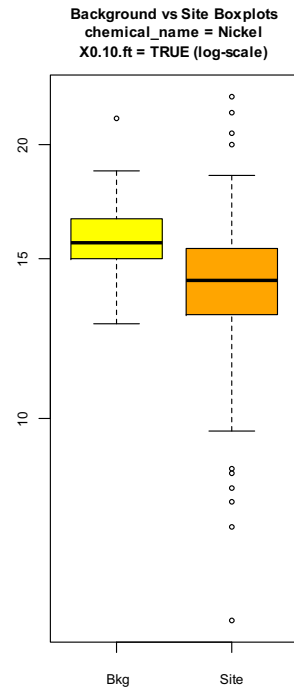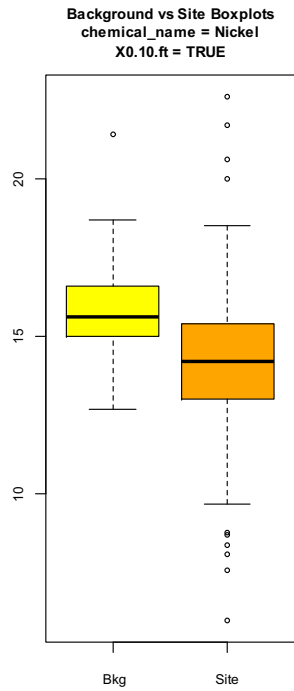**chemical_name = Molybdenum**
**X2.10.ft = TRUE (log-scale)**

**Normal Q-Q Plots**
**chemical_name = Molybdenum**
**X2.10.ft = TRUE**

# APPENDIX D
## Probability Plots for Background Metals Evaluation

**Background vs Site Boxplots**
**chemical_name = Nickel**
**X0.10.ft = TRUE**

**Background vs Site Boxplots**
**chemical_name = Nickel**
**X0.10.ft = TRUE (log-scale)**

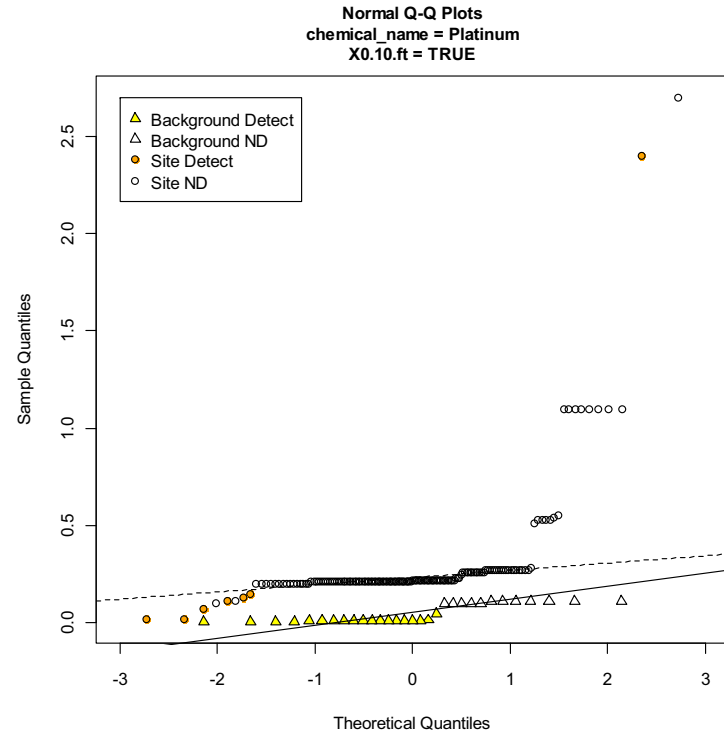**Normal Q-Q Plots**
**chemical_name = Nickel**
**X0.10.ft = TRUE**

# APPENDIX D
# Probability Plots for Background Metals Evaluation



**Background vs Site Boxplots**
**chemical_name = Platinum**
**X0.10.ft = TRUE**

**Background vs Site Boxplots**
**chemical_name = Platinum**
**X0.10.ft = TRUE (log-scale)**

**Normal Q-Q Plots**
**chemical_name = Platinum**
**X0.10.ft = TRUE**
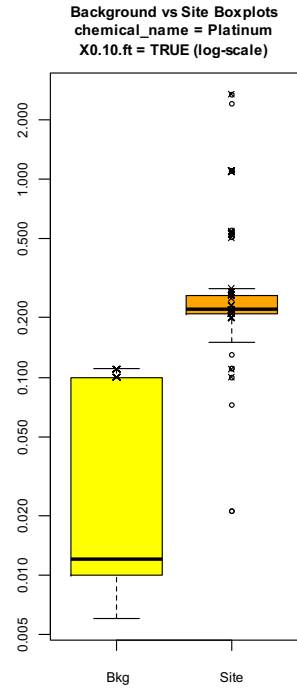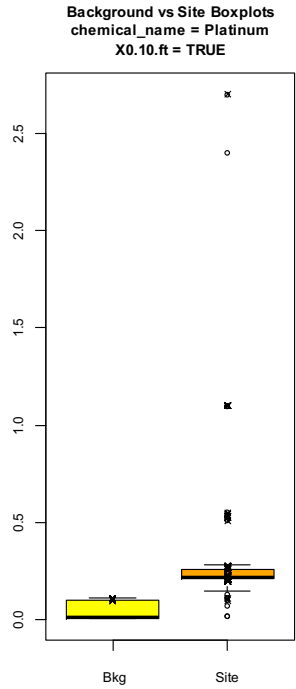
- △ Background Detect
- △ Background ND
- ● Site Detect
- ○ Site ND
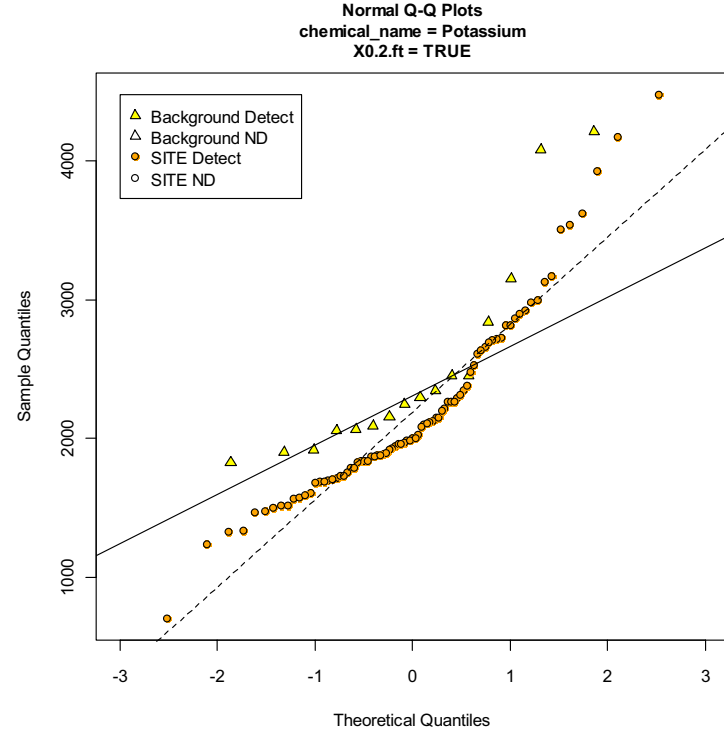
# APPENDIX D
## Probability Plots for Background Metals Evaluation

**Background vs Site Boxplots**
**chemical_name = Potassium**
**X0.2.ft = TRUE**



**Background vs Site Boxplots**
**chemical_name = Potassium**
**X0.2.ft = TRUE (log-scale)**



**Normal Q-Q Plots**
**chemical_name = Potassium**
**X0.2.ft = TRUE**



- △ Background Detect
- △ Background ND
- ● SITE Detect
- ○ SITE ND
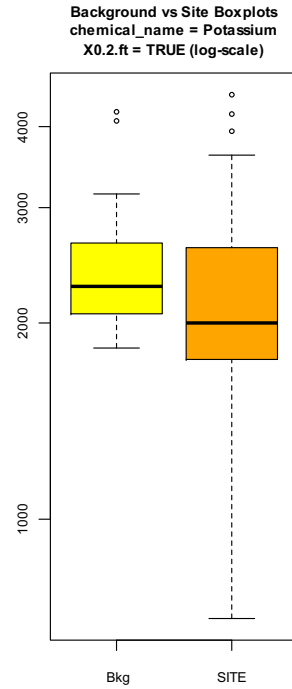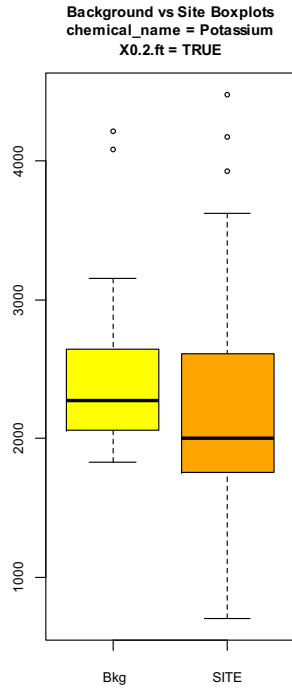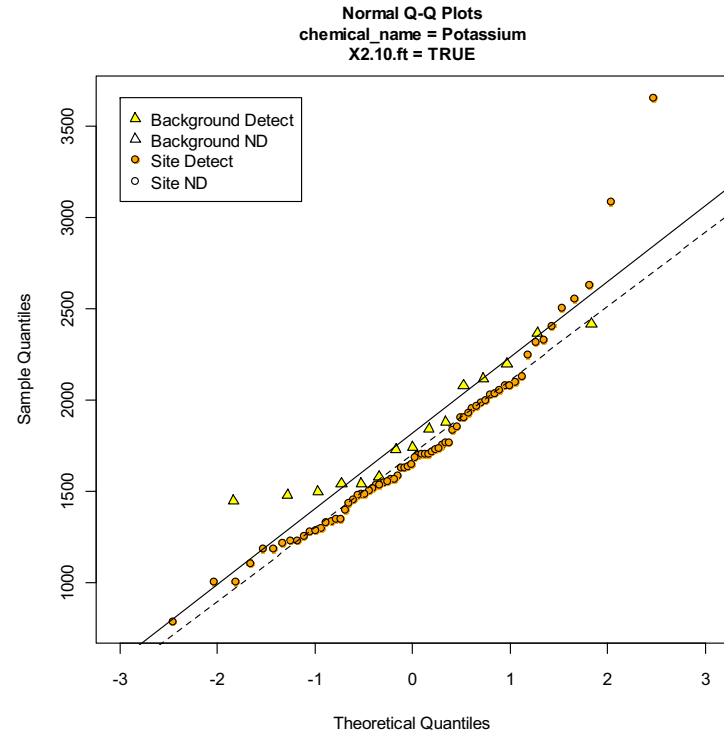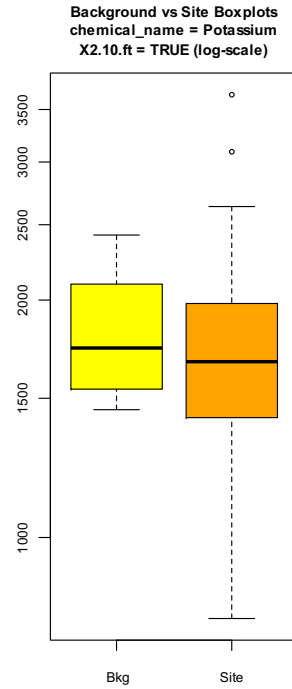
# APPENDIX D
## Probability Plots for Background Metals Evaluation

**Background vs Site Boxplots**
**chemical_name = Potassium**
**X2.10.ft = TRUE**

**Background vs Site Boxplots**
**chemical_name = Potassium**
**X2.10.ft = TRUE (log-scale)**

**Normal Q-Q Plots**
**chemical_name = Potassium**
**X2.10.ft = TRUE**

# APPENDIX D
## Probability Plots for Background Metals Evaluation
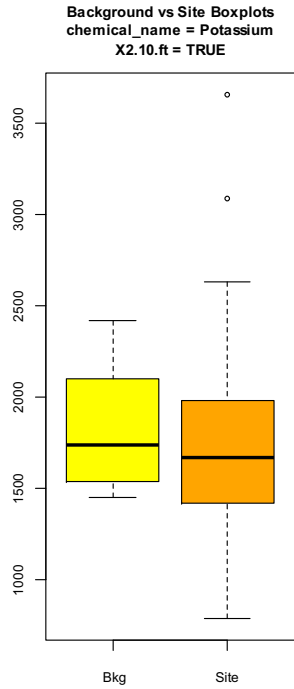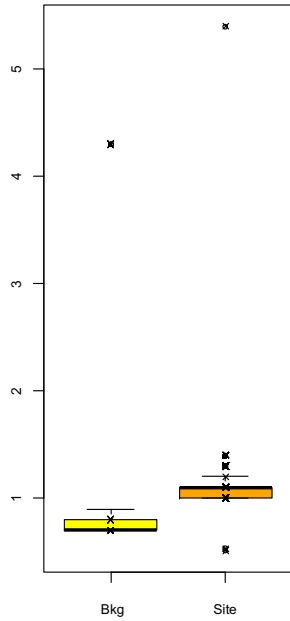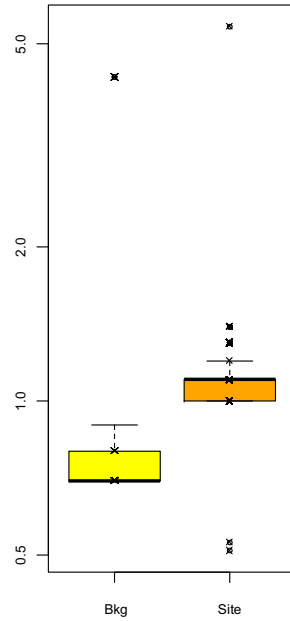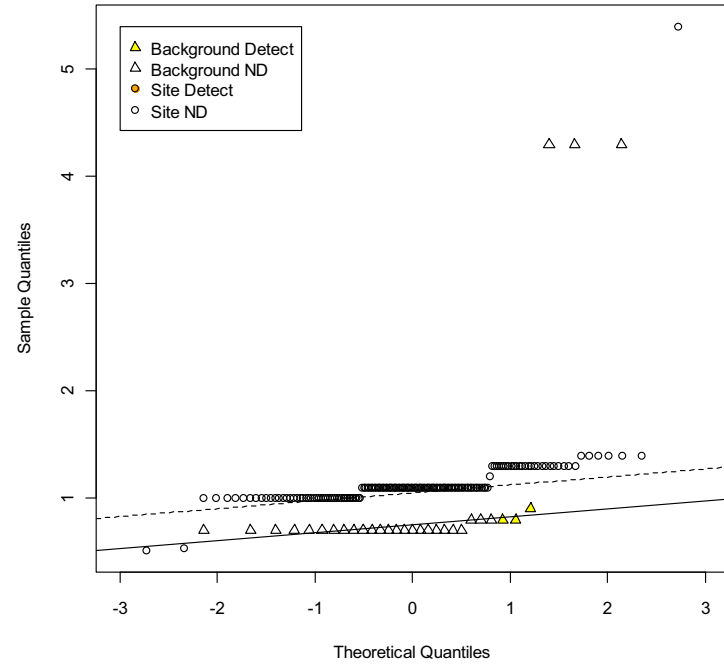


**Background vs Site Boxplots**
**chemical_name = Selenium**
**X0.10.ft = TRUE**

**Background vs Site Boxplots**
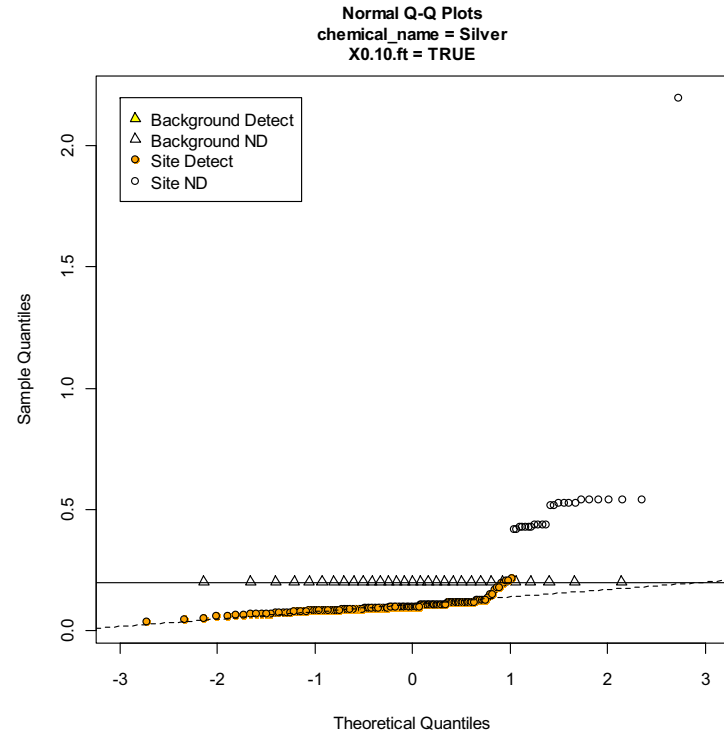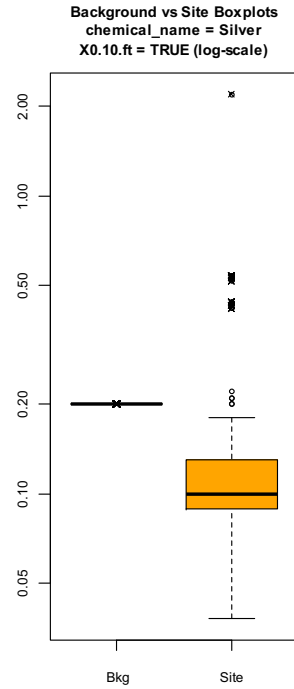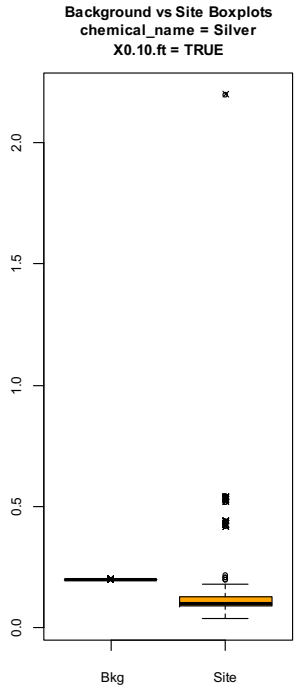**chemical_name = Selenium**
**X0.10.ft = TRUE (log-scale)**

**Normal Q-Q Plots**
**chemical_name = Selenium**
**X0.10.ft = TRUE**

- △ Background Detect
- △ Background ND
- ● Site Detect
- ○ Site ND

# APPENDIX D
# Probability Plots for Background Metals Evaluation



**Background vs Site Boxplots**
**chemical_name = Silver**
**X0.10.ft = TRUE**

**Background vs Site Boxplots**
**chemical_name = Silver**
**X0.10.ft = TRUE (log-scale)**

**Normal Q-Q Plots**
**chemical_name = Silver**
**X0.10.ft = TRUE**
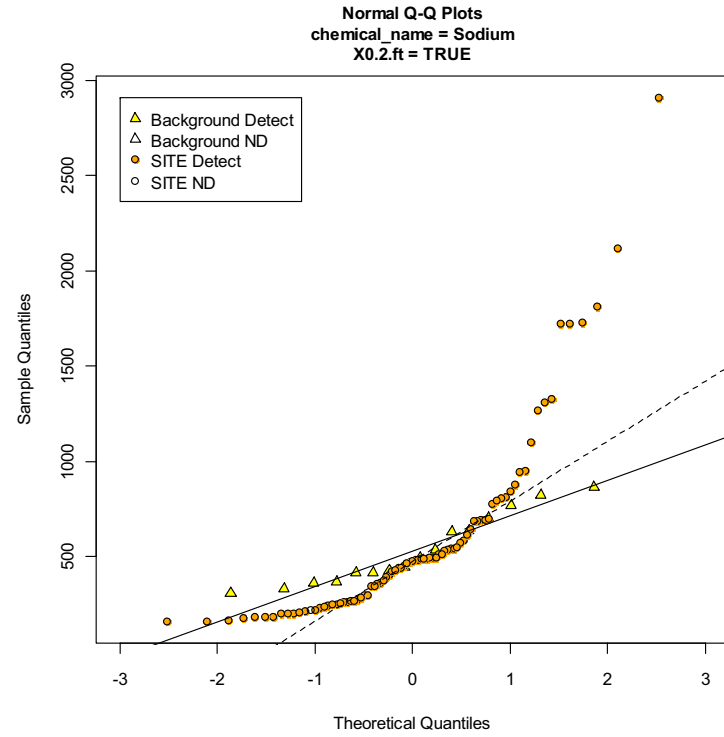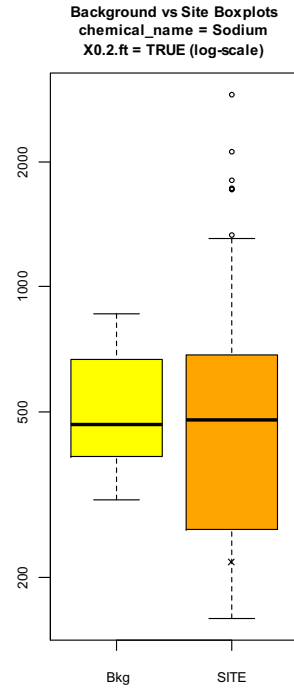
- △ Background Detect
- △ Background ND
- ● Site Detect
- ○ Site ND

# APPENDIX D
## Probability Plots for Background Metals Evaluation

**Background vs Site Boxplots**
**chemical_name = Sodium**
**X0.2.ft = TRUE**



**Background vs Site Boxplots**
**chemical_name = Sodium**
**X0.2.ft = TRUE (log-scale)**



**Normal Q-Q Plots**
**chemical_name = Sodium**
**X0.2.ft = TRUE**
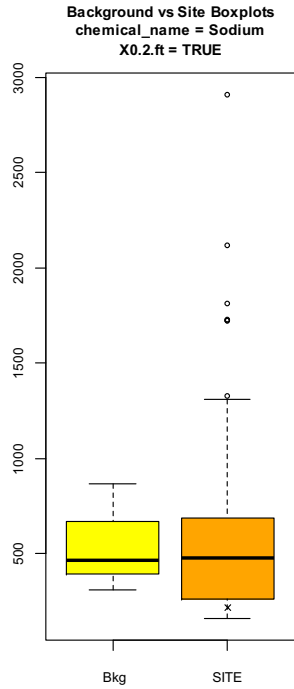


△ Background Detect
△ Background ND
● SITE Detect
○ SITE ND

# APPENDIX D
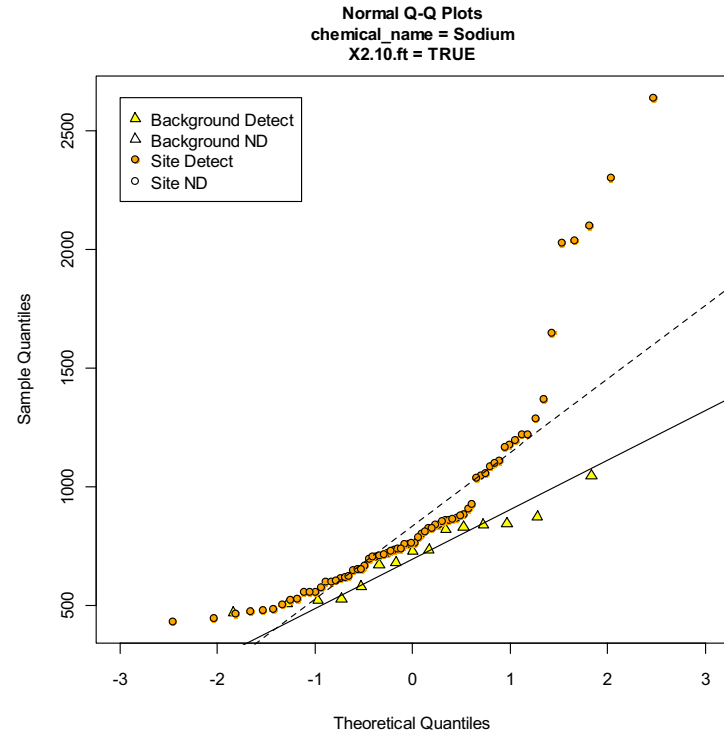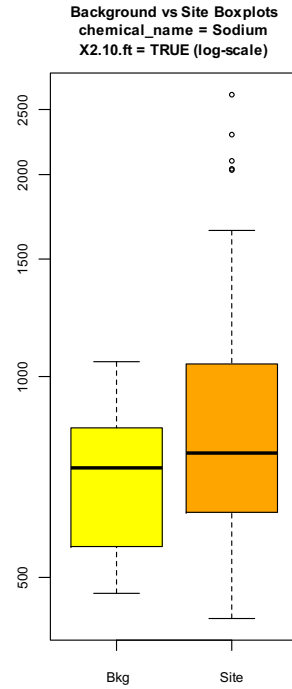# Probability Plots for Background Metals Evaluation



**Background vs Site Boxplots**
**chemical_name = Sodium**
**X2.10.ft = TRUE**

**Background vs Site Boxplots**
**chemical_name = Sodium**
**X2.10.ft = TRUE (log-scale)**

**Normal Q-Q Plots**
**chemical_name = Sodium**
**X2.10.ft = TRUE**

- △ Background Detect
- △ Background ND
- ○ Site Detect
- ○ Site ND

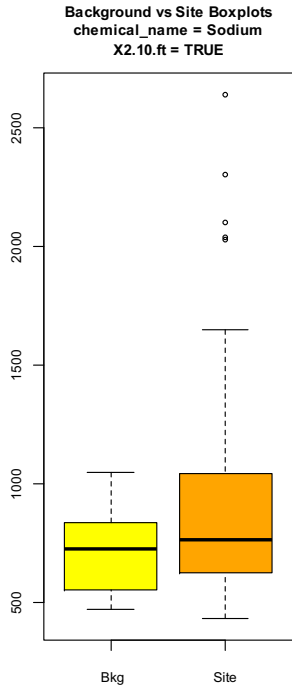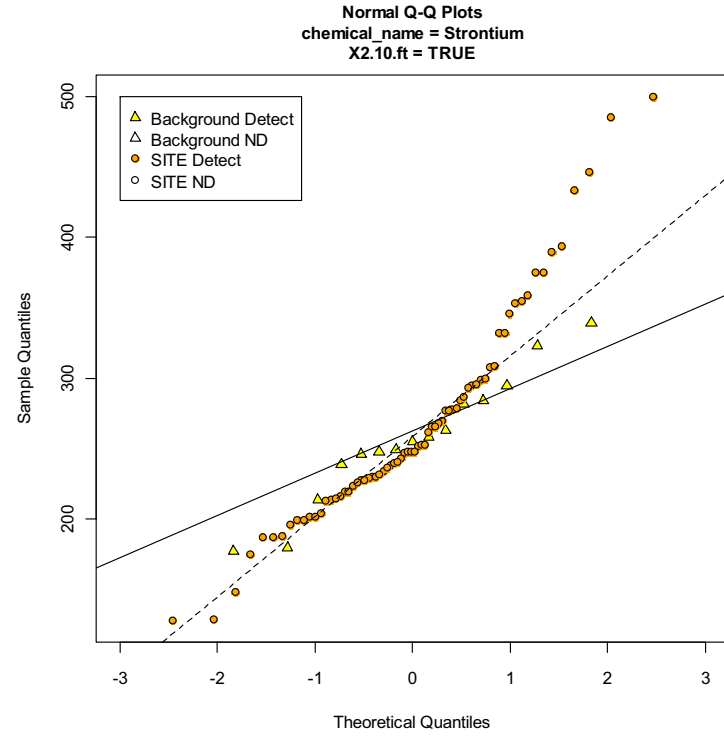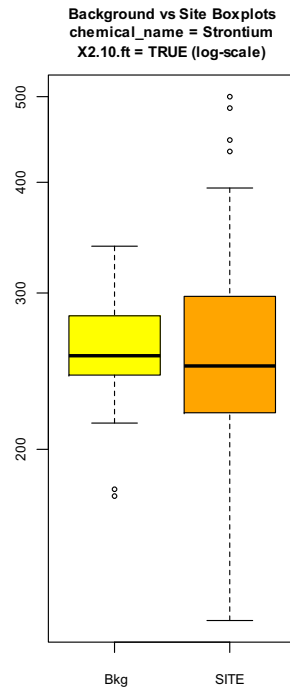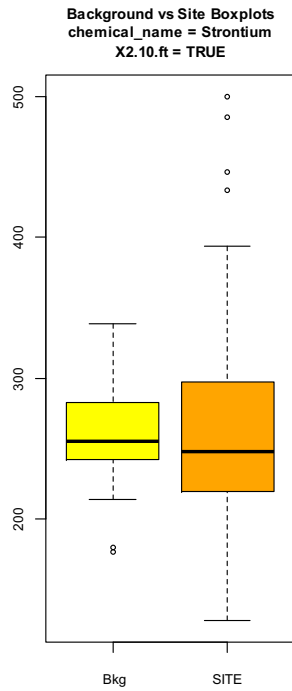# APPENDIX D
# Probability Plots for Background Metals Evaluation

**Background vs Site Boxplots**
**chemical_name = Strontium**
**X2.10.ft = TRUE**

**Background vs Site Boxplots**
**chemical_name = Strontium**
**X2.10.ft = TRUE (log-scale)**

**Normal Q-Q Plots**
**chemical_name = Strontium**
**X2.10.ft = TRUE**

- △ Background Detect
- △ Background ND
- ○ SITE Detect
- ○ SITE ND

Sample Quantiles

Theoretical Quantiles

# APPENDIX D
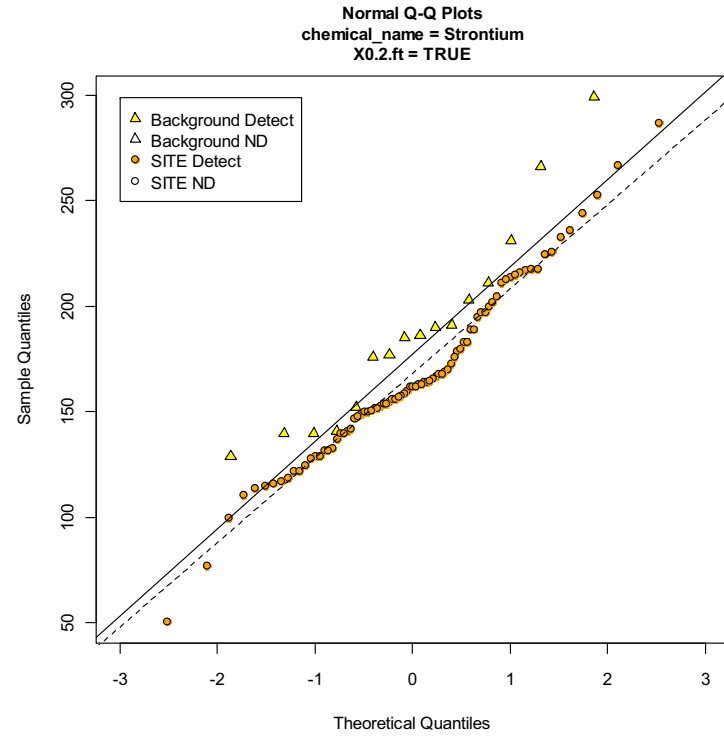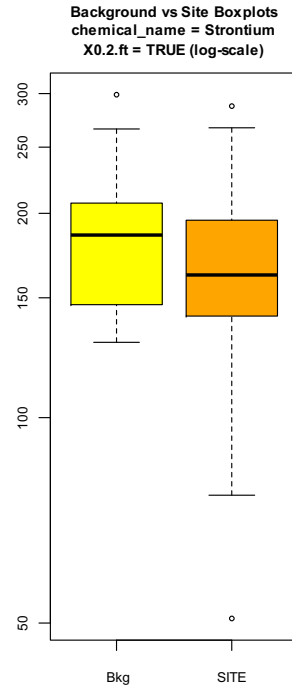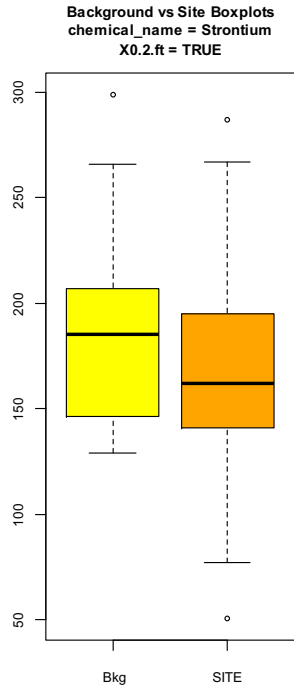# Probability Plots for Background Metals Evaluation

**Background vs Site Boxplots**
**chemical_name = Strontium**
**X0.2.ft = TRUE**



**Background vs Site Boxplots**
**chemical_name = Strontium**
**X0.2.ft = TRUE (log-scale)**



**Normal Q-Q Plots**
**chemical_name = Strontium**
**X0.2.ft = TRUE**



△ Background Detect
△ Background ND
● SITE Detect
○ SITE ND

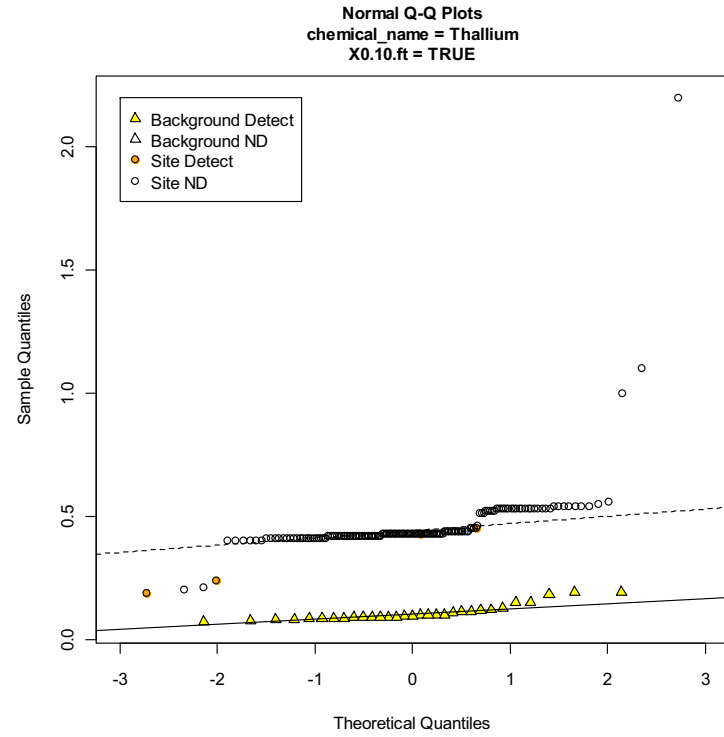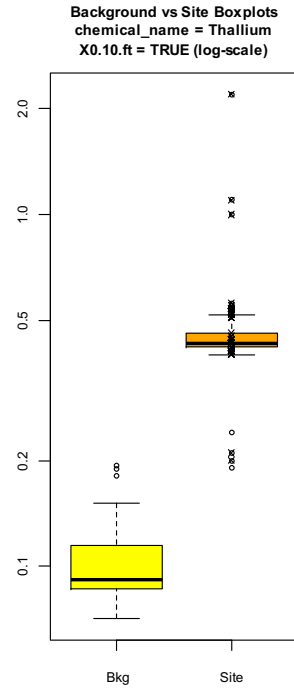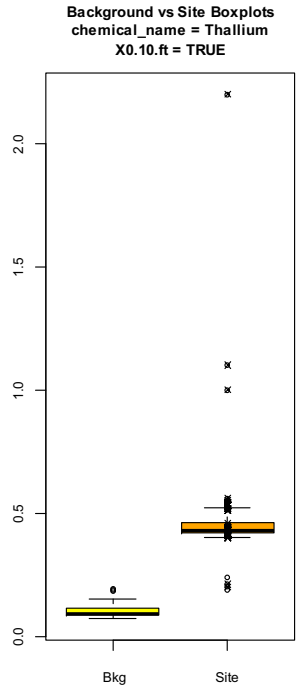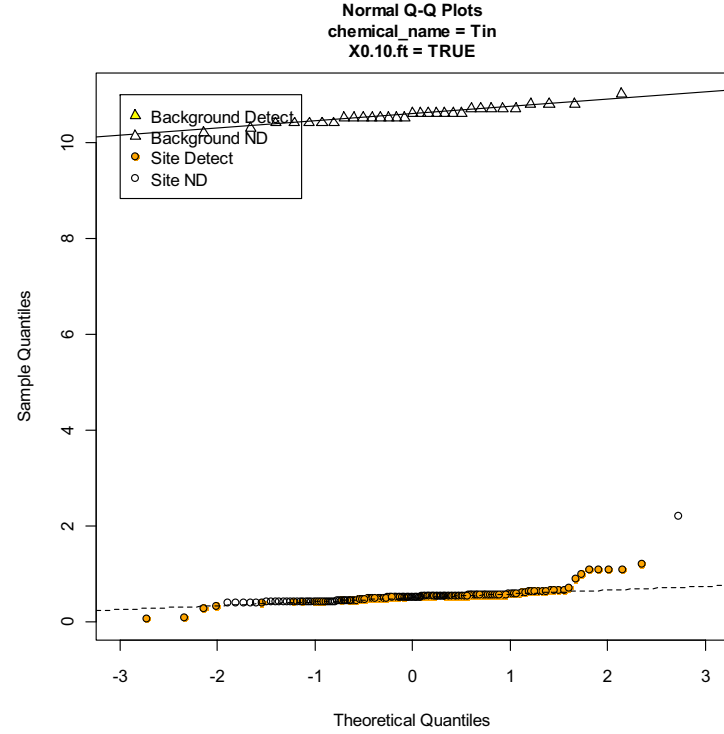# APPENDIX D
# Probability Plots for Background Metals Evaluation

# APPENDIX D
## Probability Plots for Background Metals Evaluation



**Background vs Site Boxplots**
chemical_name = Tin
X0.10.ft = TRUE

**Background vs Site Boxplots**
chemical_name = Tin
X0.10.ft = TRUE (log-scale)

**Normal Q-Q Plots**
chemical_name = Tin
X0.10.ft = TRUE

△ Background Detect
△ Background ND
● Site Detect
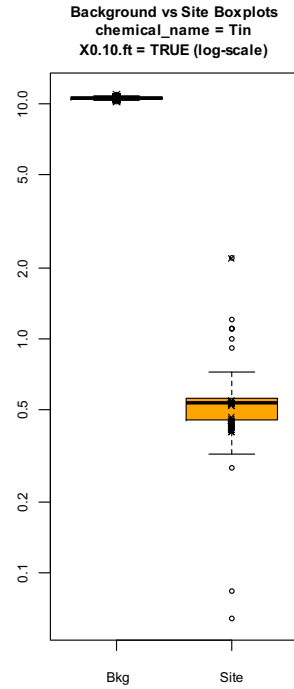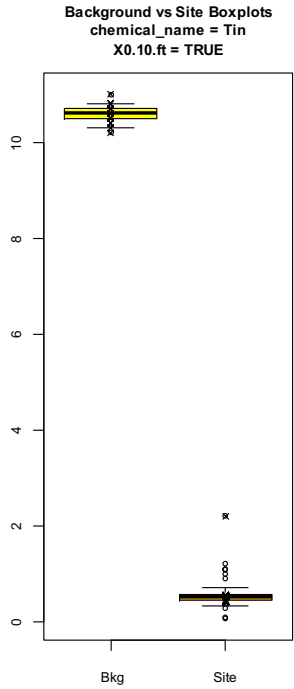○ Site ND
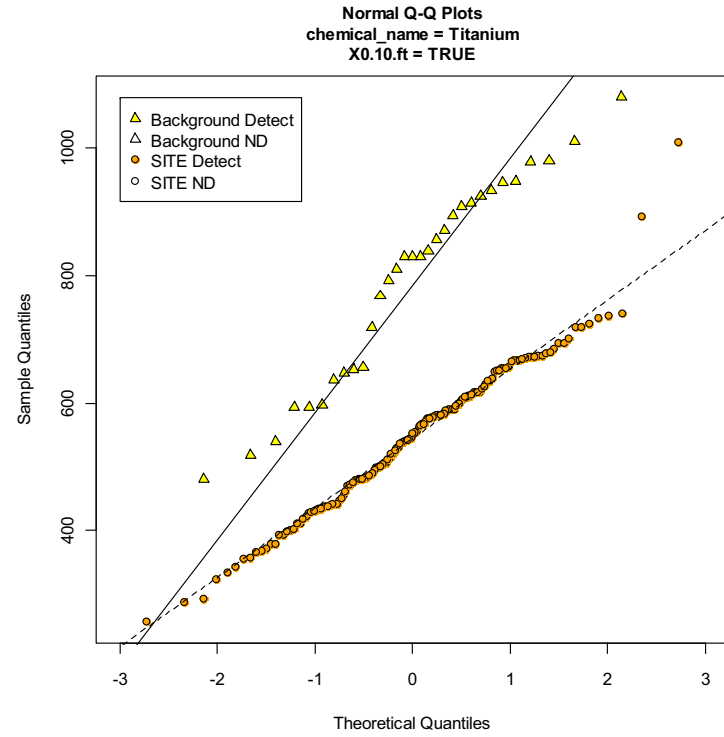
# APPENDIX D
# Probability Plots for Background Metals Evaluation

**Background vs Site Boxplots**
**chemical_name = Titanium**
**X0.10.ft = TRUE**

**Background vs Site Boxplots**
**chemical_name = Titanium**
**X0.10.ft = TRUE (log-scale)**

**Normal Q-Q Plots**
**chemical_name = Titanium**
**X0.10.ft = TRUE**
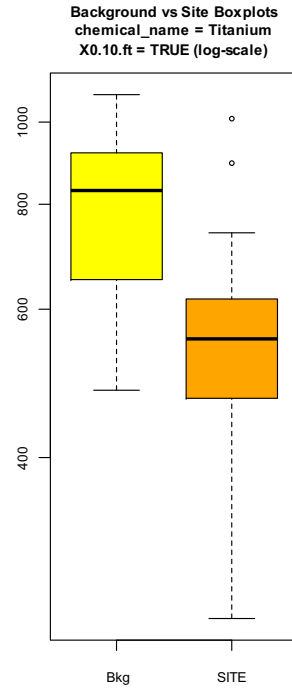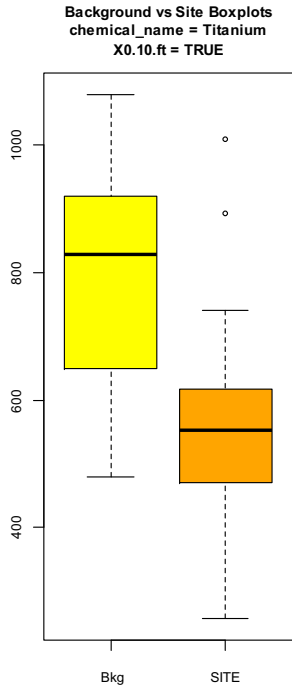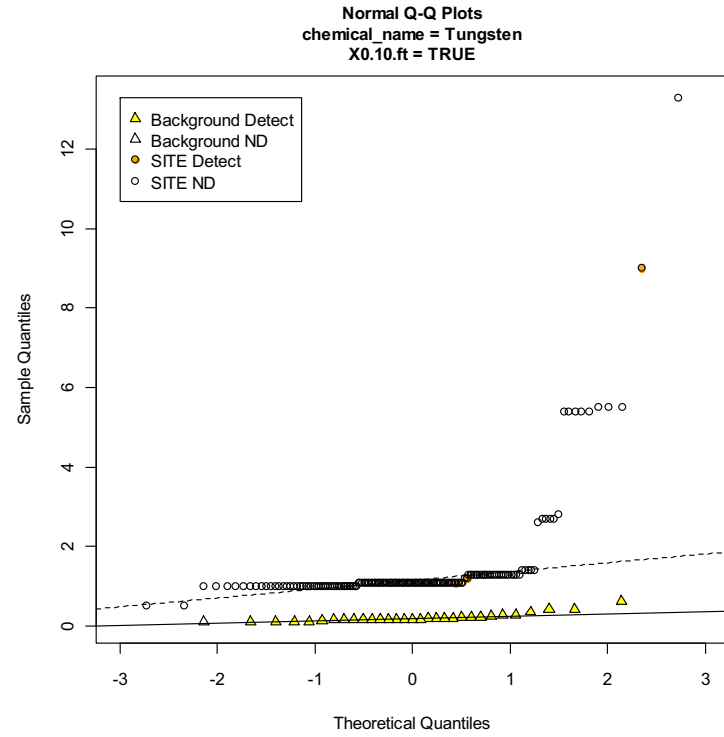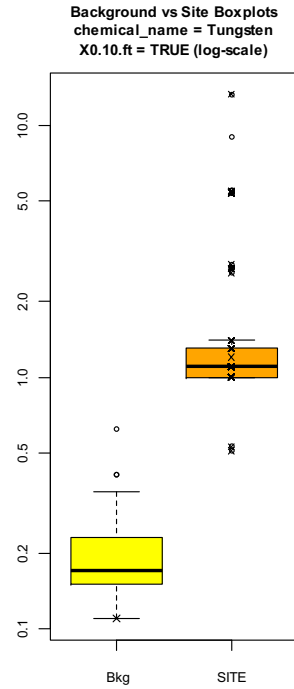
# APPENDIX D
## Probability Plots for Background Metals Evaluation



**Background vs Site Boxplots**
**chemical_name = Tungsten**
**X0.10.ft = TRUE**

**Background vs Site Boxplots**
**chemical_name = Tungsten**
**X0.10.ft = TRUE (log-scale)**

**Normal Q-Q Plots**
**chemical_name = Tungsten**
**X0.10.ft = TRUE**

Legend:
- △ Background Detect
- △ Background ND
- ● SITE Detect
- ○ SITE ND

Sample Quantiles / Theoretical Quantiles
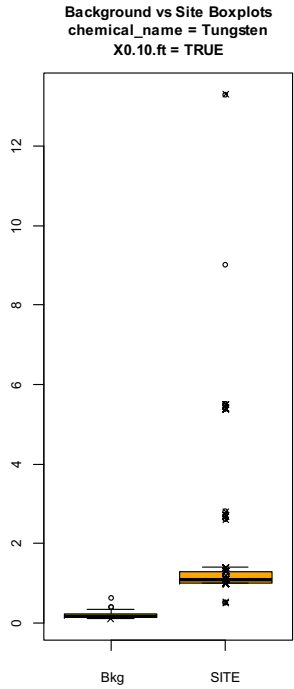
# APPENDIX D
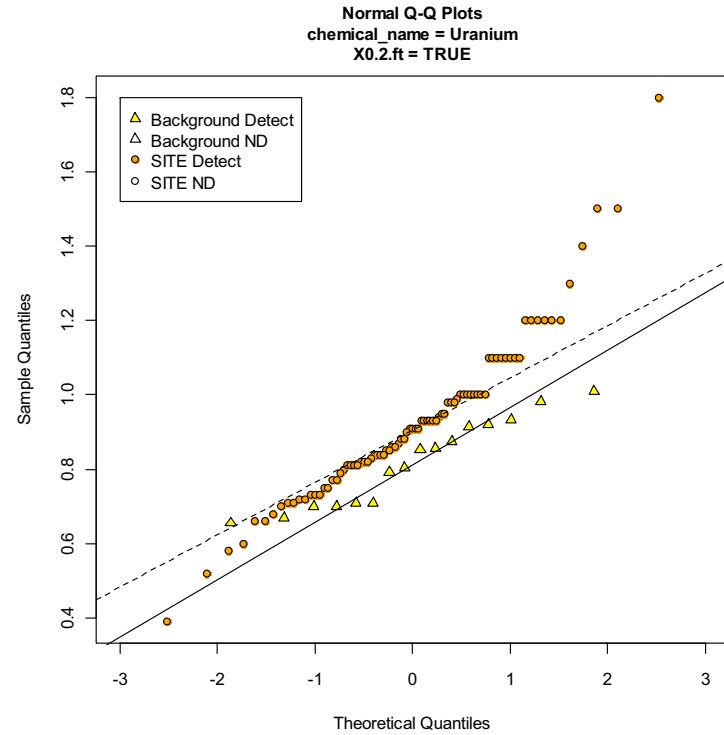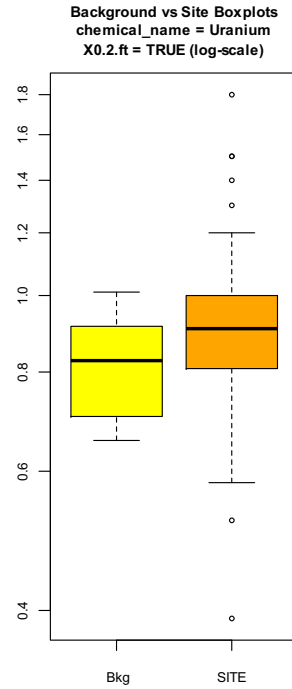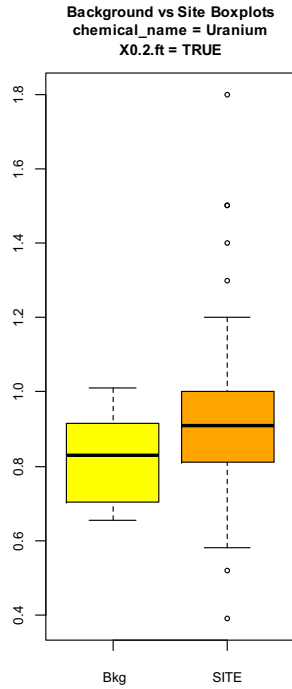## Probability Plots for Background Metals Evaluation

**Background vs Site Boxplots**
**chemical_name = Uranium**
**X0.2.ft = TRUE**

**Background vs Site Boxplots**
**chemical_name = Uranium**
**X0.2.ft = TRUE (log-scale)**

**Normal Q-Q Plots**
**chemical_name = Uranium**
**X0.2.ft = TRUE**



Legend:
- △ Background Detect
- △ Background ND
- ● SITE Detect
- ○ SITE ND
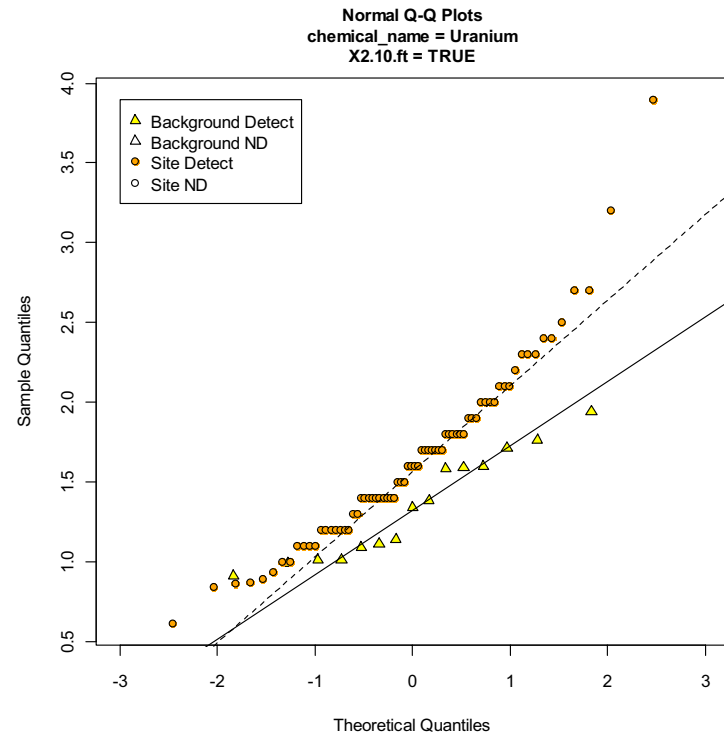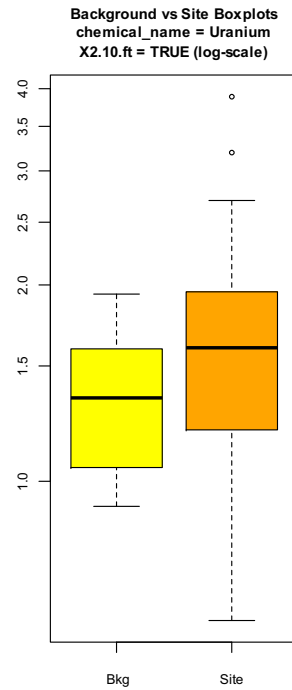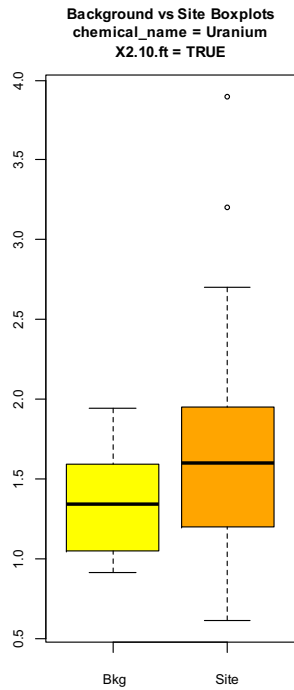
# APPENDIX D
# Probability Plots for Background Metals Evaluation



**Background vs Site Boxplots**
**chemical_name = Uranium**
**X2.10.ft = TRUE**

**Background vs Site Boxplots**
**chemical_name = Uranium**
**X2.10.ft = TRUE (log-scale)**

**Normal Q-Q Plots**
**chemical_name = Uranium**
**X2.10.ft = TRUE**

# APPENDIX D
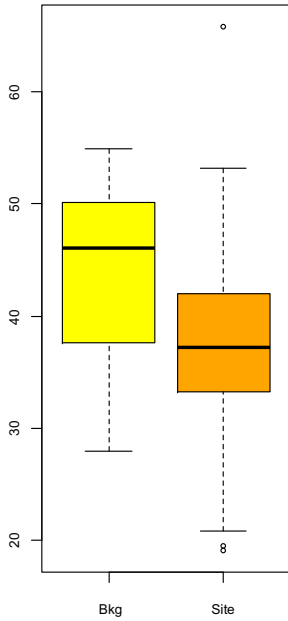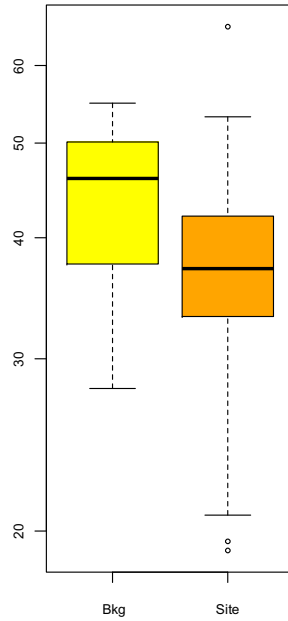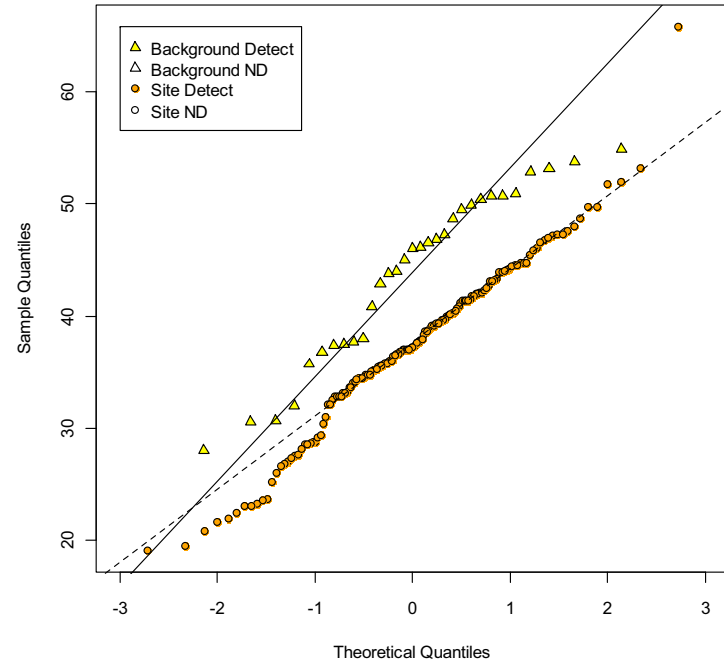## Probability Plots for Background Metals Evaluation



**Background vs Site Boxplots**
**chemical_name = Vanadium**
**X0.10.ft = TRUE**

**Background vs Site Boxplots**
**chemical_name = Vanadium**
**X0.10.ft = TRUE (log-scale)**

**Normal Q-Q Plots**
**chemical_name = Vanadium**
**X0.10.ft = TRUE**

# APPENDIX D
## Probability Plots for Background Metals Evaluation