

APPENDIX M

Concentrations of COPCs in Porewater and Tissue Versus Sediment

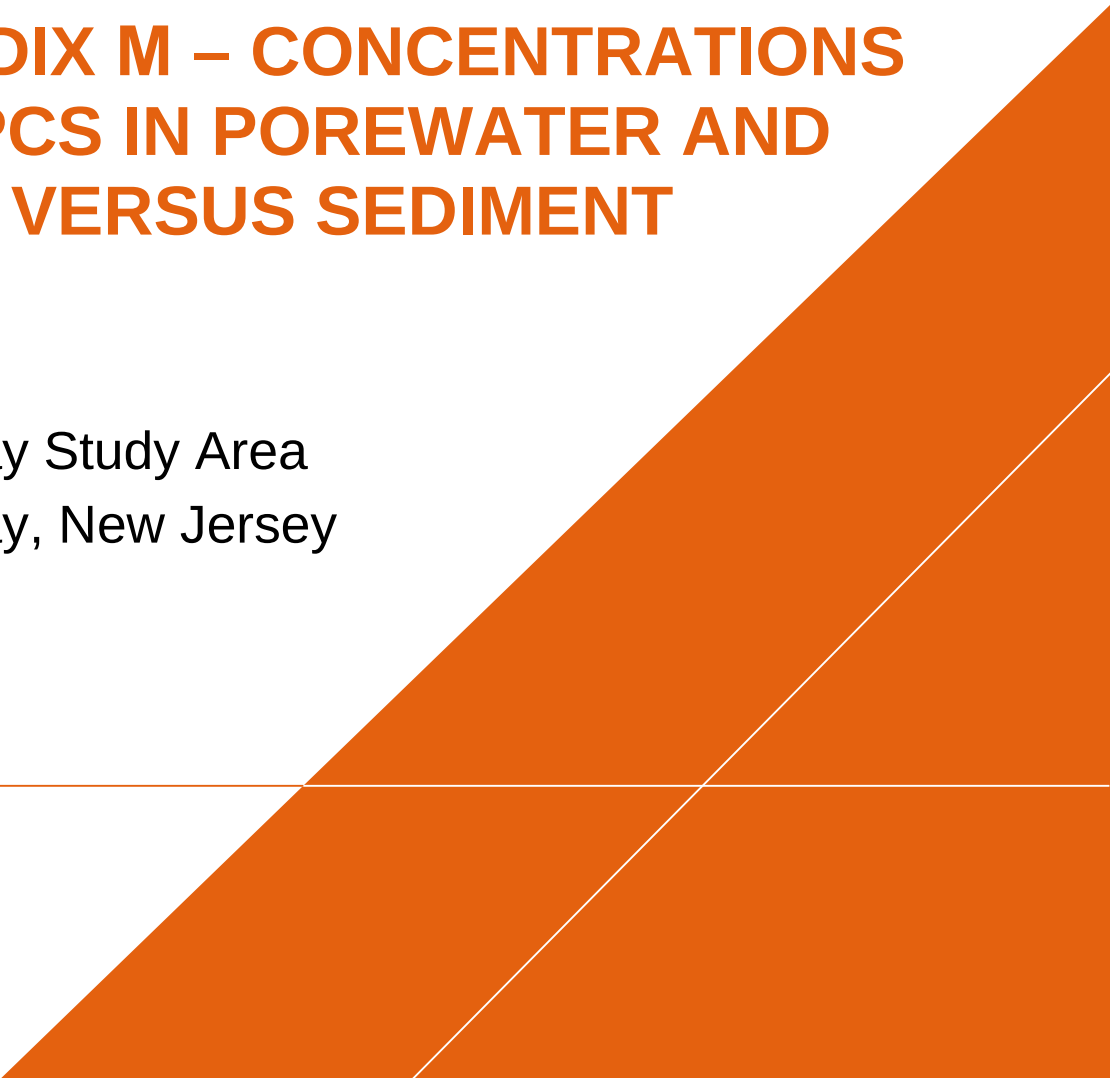




REMEDIAL INVESTIGATION REPORT APPENDIX M – CONCENTRATIONS OF COPCS IN POREWATER AND TISSUE VERSUS SEDIMENT

Newark Bay Study Area
Newark Bay, New Jersey

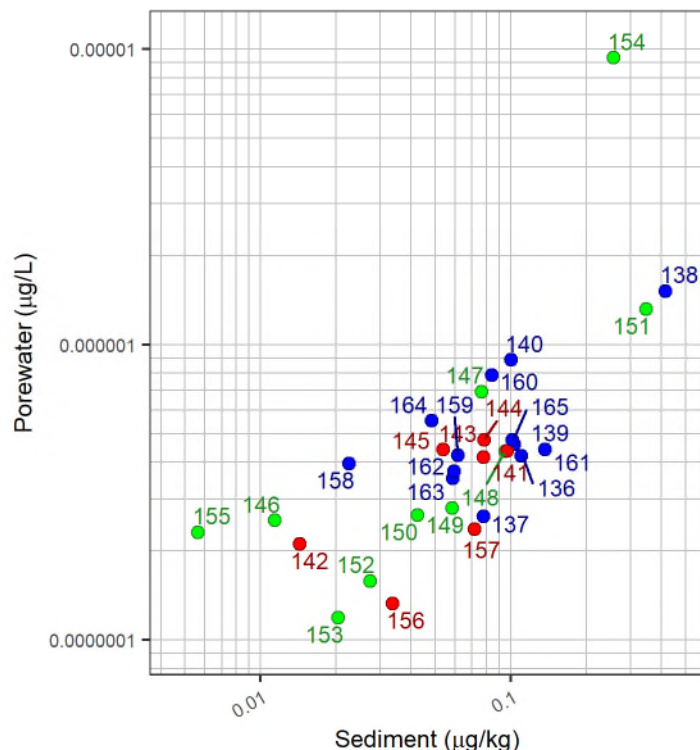
May 2022

A large orange geometric shape, consisting of a triangle and a rectangle, is positioned in the bottom right corner of the page.

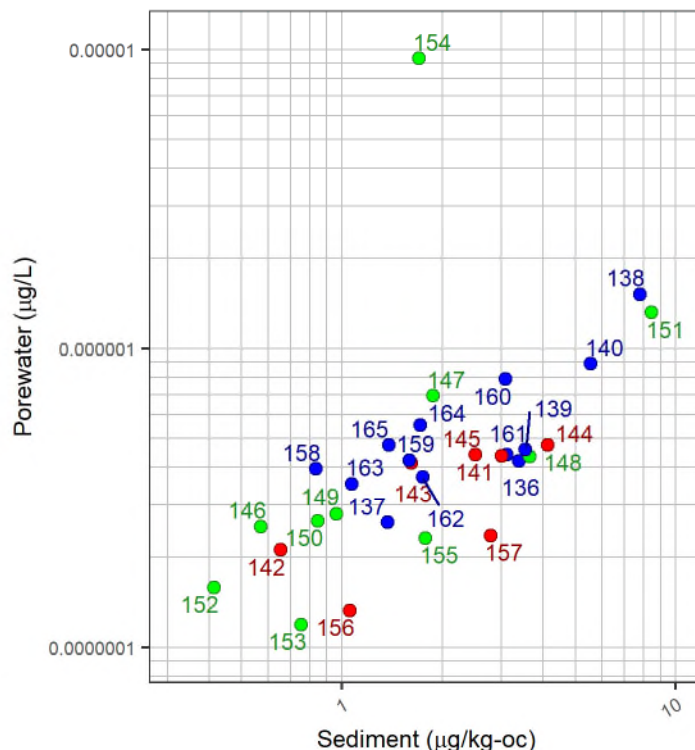
CONTENTS

Figure PWSED-1	Concentrations of COPCs in Porewater versus Sediment: Dioxins/Furans & PCBs
Figure PWSED-2	Concentrations of COPCs in Porewater versus Sediment: Pesticides
Figure PWSED-3	Concentrations of COPCs in Porewater versus Sediment: PAHs
Figure PWSED-4	Concentrations of COPCs in Porewater versus Sediment: Metals
Figure SEDPOLY-1	Concentrations of COPCs in Laboratory Exposed Polychaetes versus Sediment and Porewater: Dioxins/Furans & PCBs
Figure SEDPOLY-2	Concentrations of COPCs in Laboratory Exposed Polychaetes versus Sediment and Porewater: Pesticides
Figure SEDPOLY-3	Concentrations of COPCs in Laboratory Exposed Polychaetes versus Sediment and Porewater: PAHs
Figure SEDPOLY-4	Concentrations of COPCs in Laboratory Exposed Polychaetes versus Sediment and Porewater: Metals
Figure CLAMSED-1	Concentrations of COPCs in Softshell Clams versus Sediment: Dioxins/Furans & PCBs
Figure CLAMSED-2	Concentrations of COPCs in Softshell Clams versus Sediment: Pesticides
Figure CLAMSED-3	Concentrations of COPCs in Softshell Clams versus Sediment: PAHs
Figure CLAMSED-4	Concentrations of COPCs in Softshell Clams versus Sediment: Metals
Figure FISHSED-1	Concentrations of COPCs in Forage Fish versus Sediment: Dioxins/Furans & PCBs
Figure FISHSED-2	Concentrations of COPCs in Forage Fish versus Sediment: Pesticides
Figure FISHSED-3	Concentrations of COPCs in Forage Fish versus Sediment: PAHs
Figure FISHSED-4	Concentrations of COPCs in Forage Fish versus Sediment: Metals

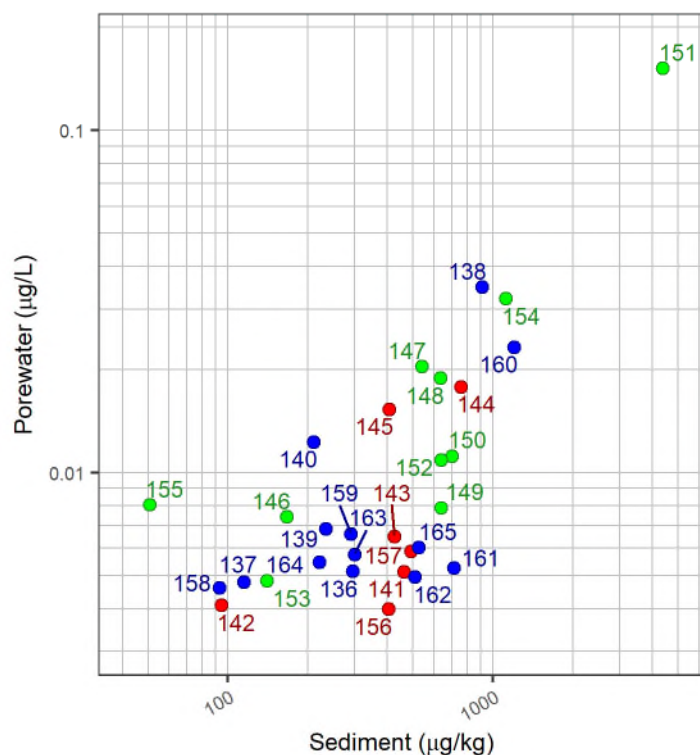
2,3,7,8-TCDD



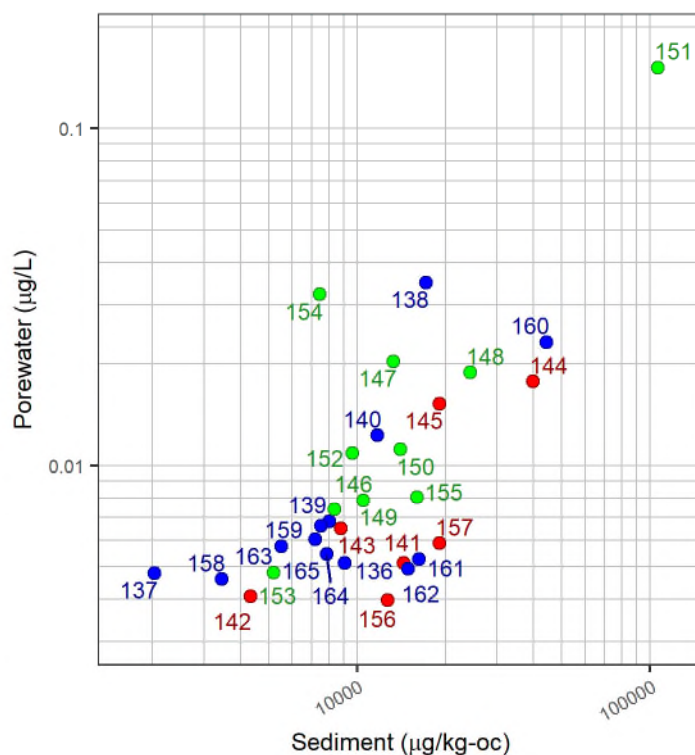
2,3,7,8-TCDD (oc-adjusted)



Total PCBs (209 Congeners)



Total PCBs (209 Congeners) (oc-adjusted)



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.
Non-detects plotted at the reporting limit.
Measured porewater concentrations were made with passive sampling methods that are intended to measure only freely dissolved concentrations (non-DOC-complexed concentrations).

Bay Area (color-code)

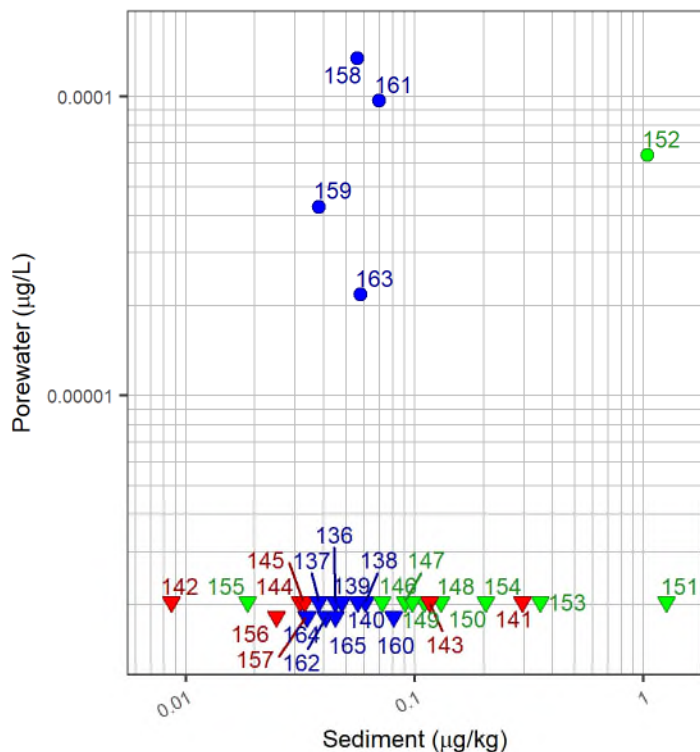
- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Sediment Non-detect and Porewater Detect
- ▼ Filled Symbol = Sediment Detect and Porewater Non-detect

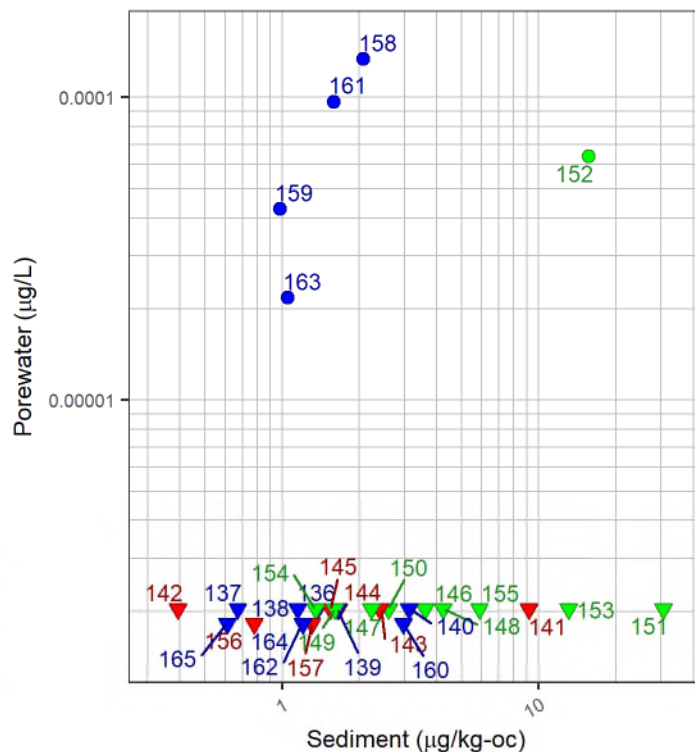
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN
POREWATER VERSUS SEDIMENT:
DIOXINS/FURANS & PCBs

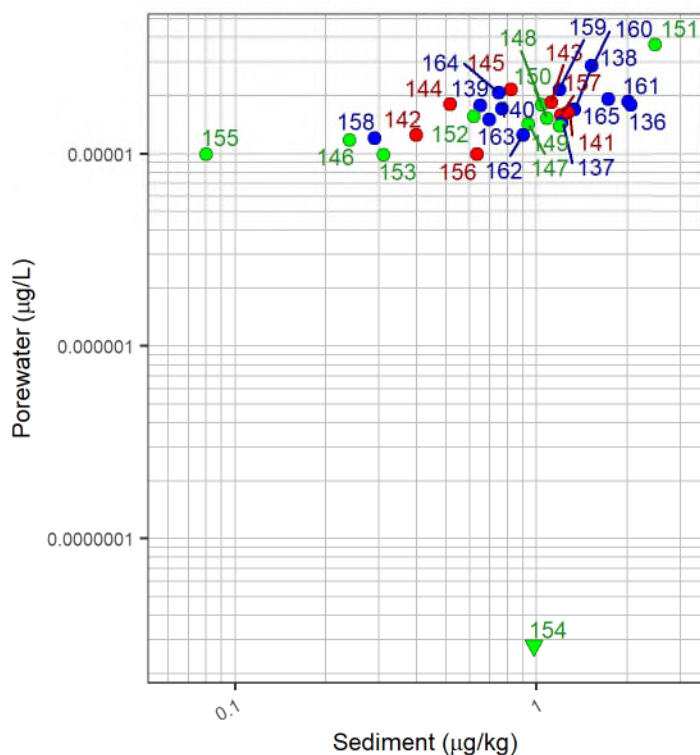
Alpha-BHC



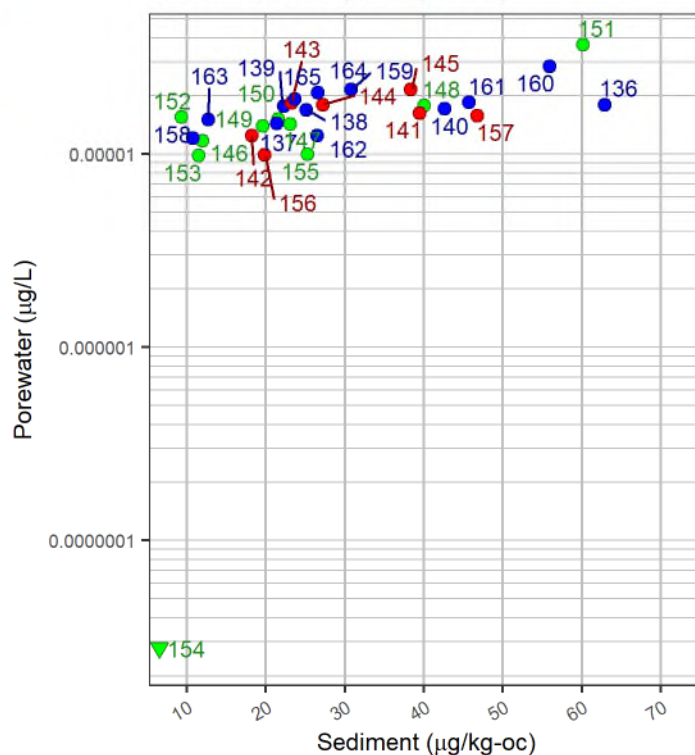
Alpha-BHC (oc-adjusted)



Cis-Nonachlor



Cis-Nonachlor (oc-adjusted)



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.
Non-detects plotted at the reporting limit.
Measured porewater concentrations were made with passive sampling methods that are intended to measure only freely dissolved concentrations (non-DOC-complexed concentrations).

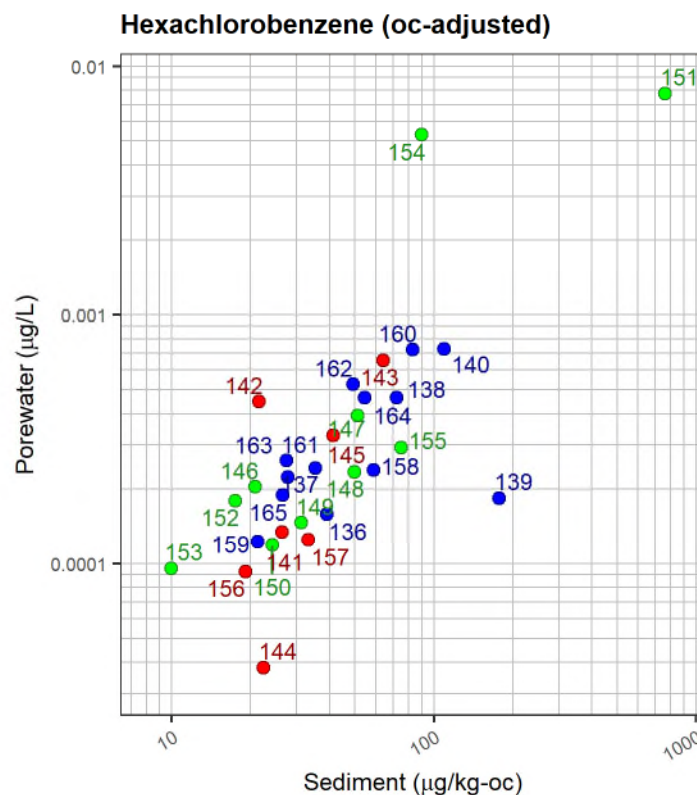
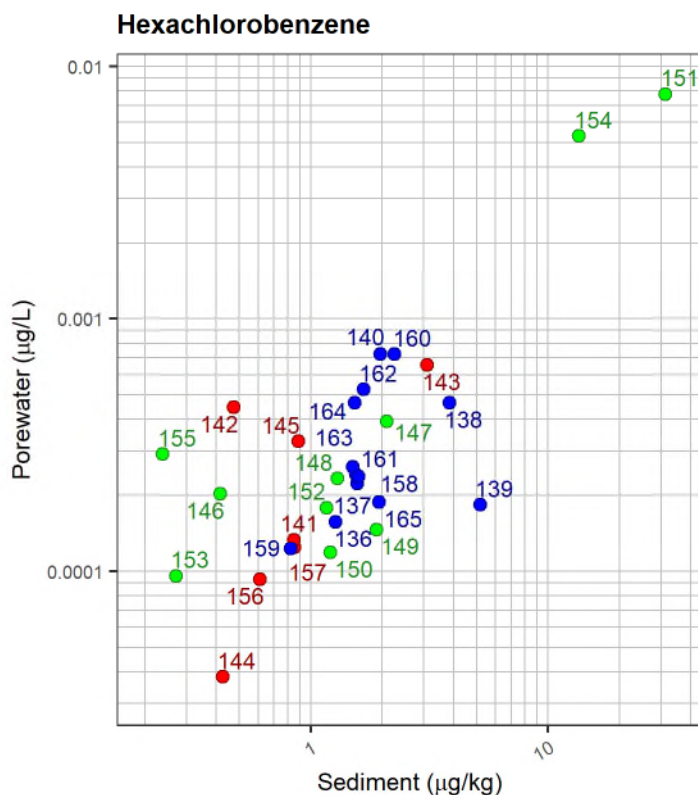
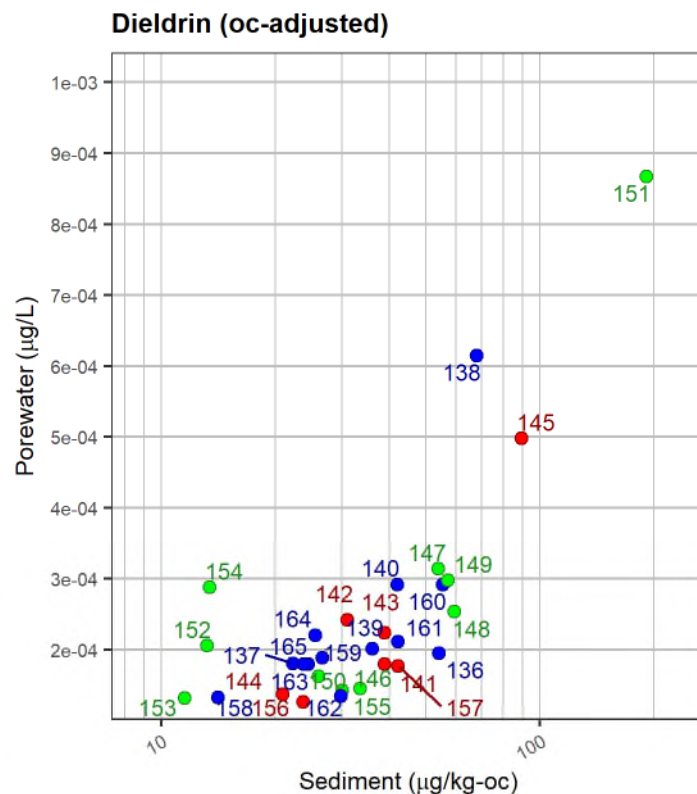
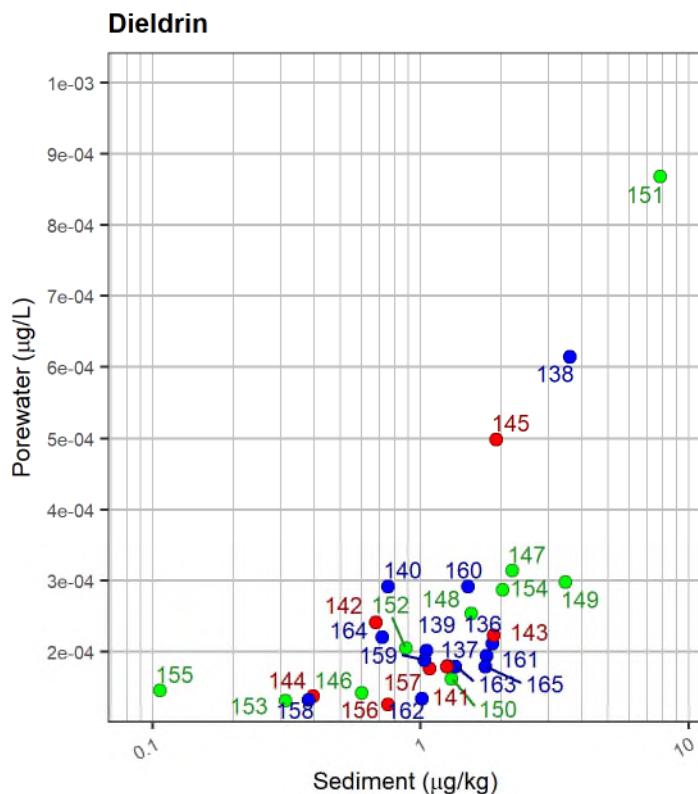
Bay Area (color-code)

- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Sediment Non-detect and Porewater Detect
- ▼ Filled Symbol = Sediment Detect and Porewater Non-detect

DIAMOND ALKALI SUPERFUND SITE NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN POREWATER VERSUS SEDIMENT: PESTICIDES



Notes:
 For correlation analysis, non-detects included at 1/2 the reporting limit.
 Non-detects plotted at the reporting limit.
 Measured porewater concentrations were made with passive sampling methods that are intended to measure only freely dissolved concentrations (non-DOC-complexed concentrations).

Bay Area (color-code)

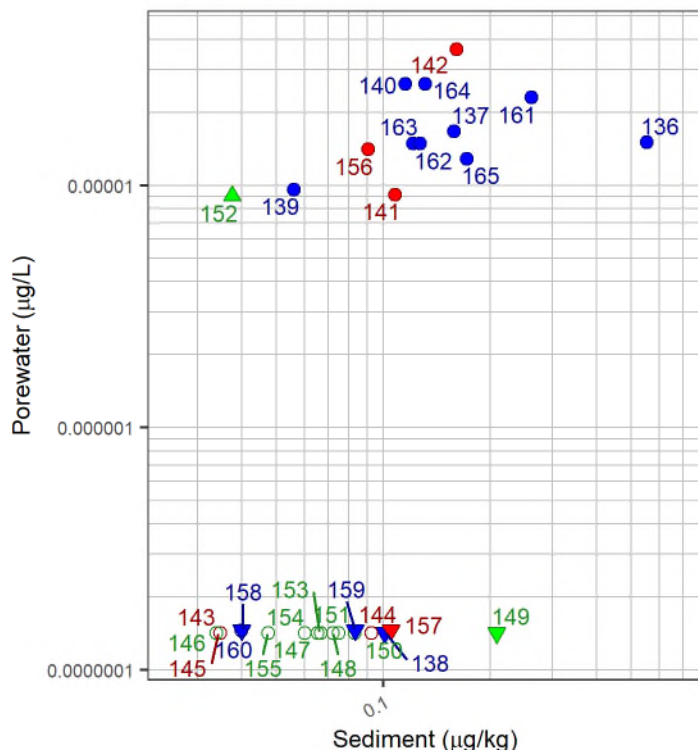
- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Sediment Non-detect and Porewater Detect
- ▼ Filled Symbol = Sediment Detect and Porewater Non-detect

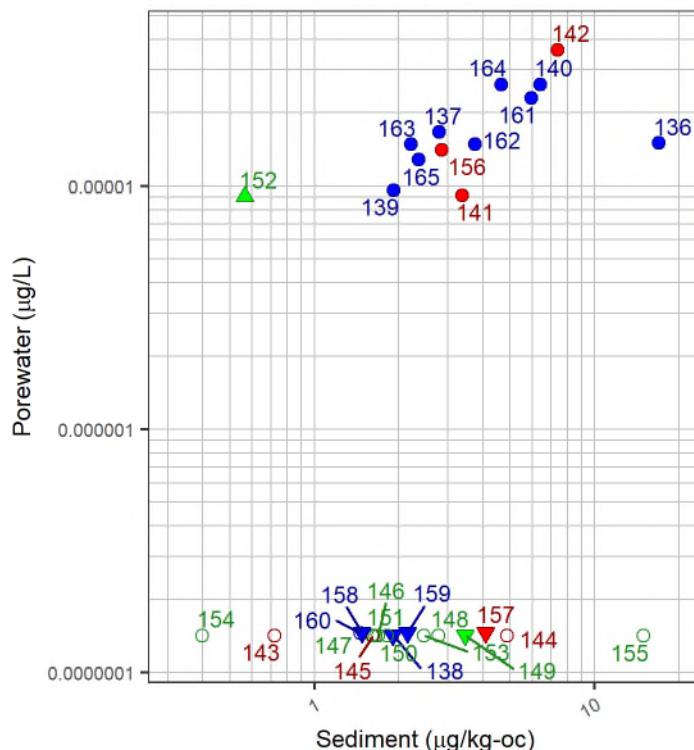
DIAMOND ALKALI SUPERFUND SITE
 NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
 REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN POREWATER VERSUS SEDIMENT: PESTICIDES

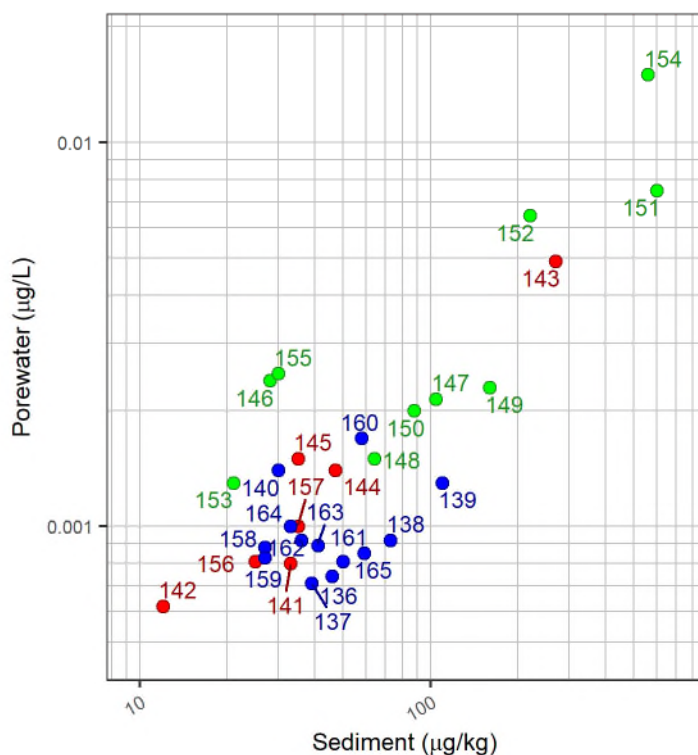
Heptachlor Epoxide



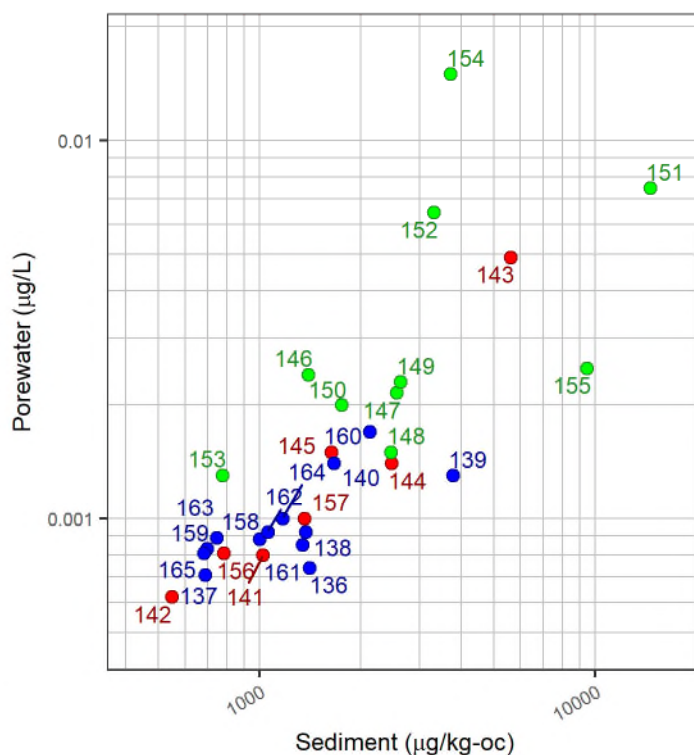
Heptachlor Epoxide (oc-adjusted)



Total DDX (2,4 & 4,4)



Total DDX (2,4 & 4,4) (oc-adjusted)



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.
Non-detects plotted at the reporting limit.
Measured porewater concentrations were made with passive sampling methods that are intended to measure only freely dissolved concentrations (non-DOC-complexed concentrations).

Bay Area (color-code)

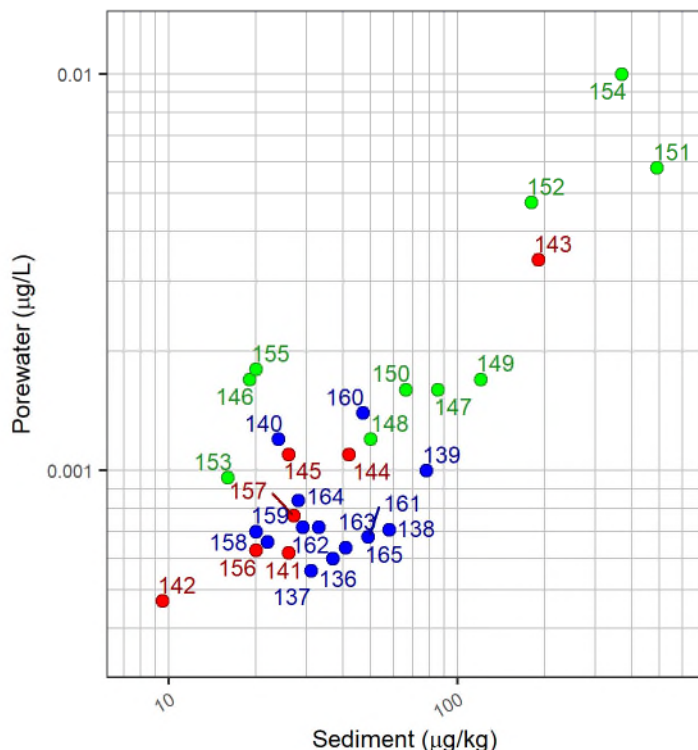
- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Sediment Non-detect and Porewater Detect
- ▼ Filled Symbol = Sediment Detect and Porewater Non-detect

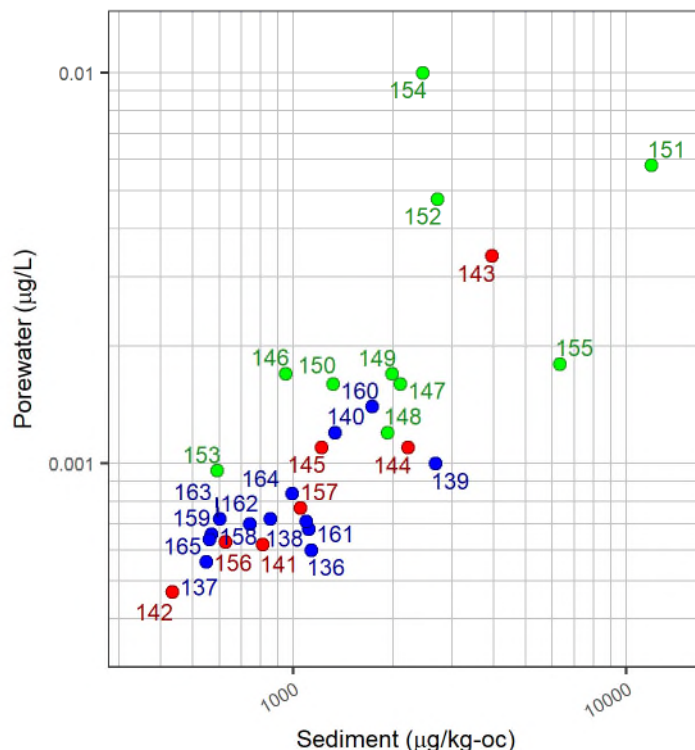
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN POREWATER VERSUS SEDIMENT: PESTICIDES

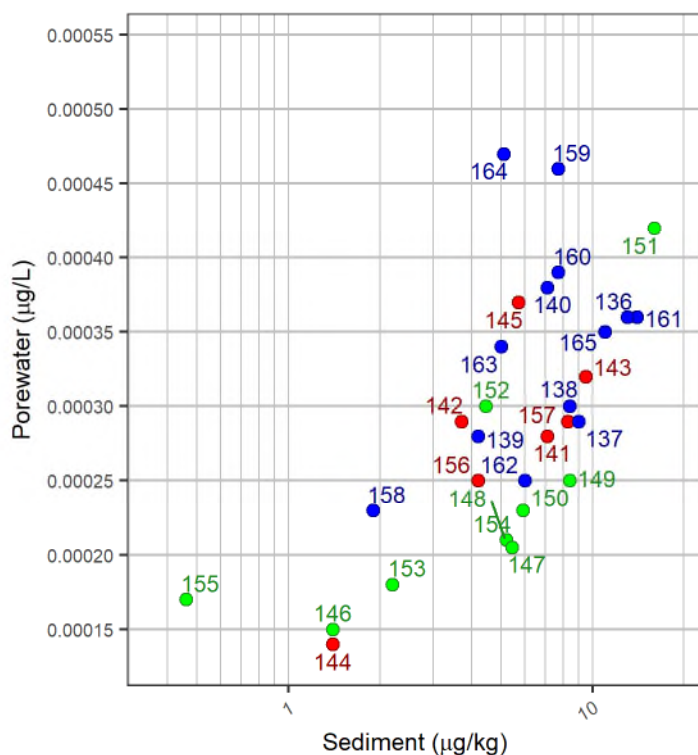
Total DDX (4,4)



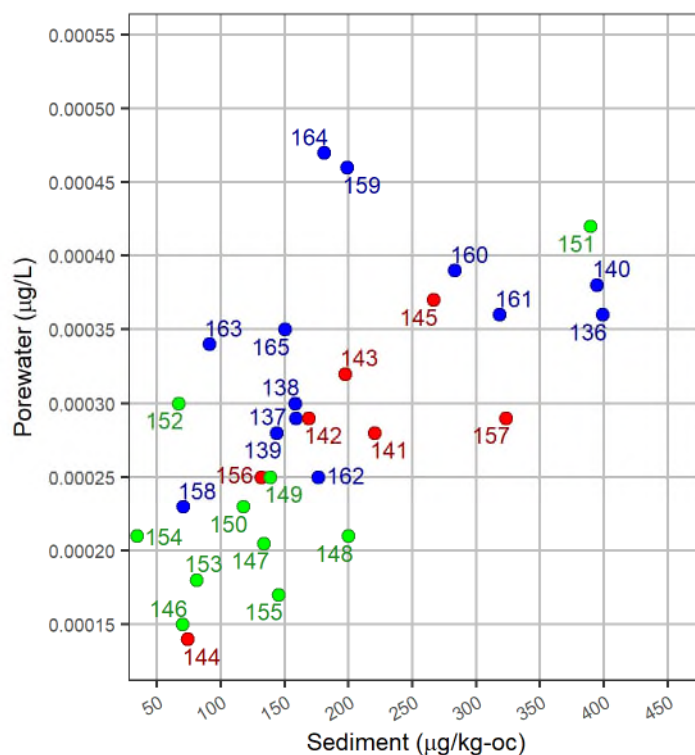
Total DDX (4,4) (oc-adjusted)



Total Alpha + Gamma Chlordane



Total Alpha + Gamma Chlordane (oc-adjusted)



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.
Non-detects plotted at the reporting limit.
Measured porewater concentrations were made with passive sampling methods that are intended to measure only freely dissolved concentrations (non-DOC-complexed concentrations).

Bay Area (color-code)

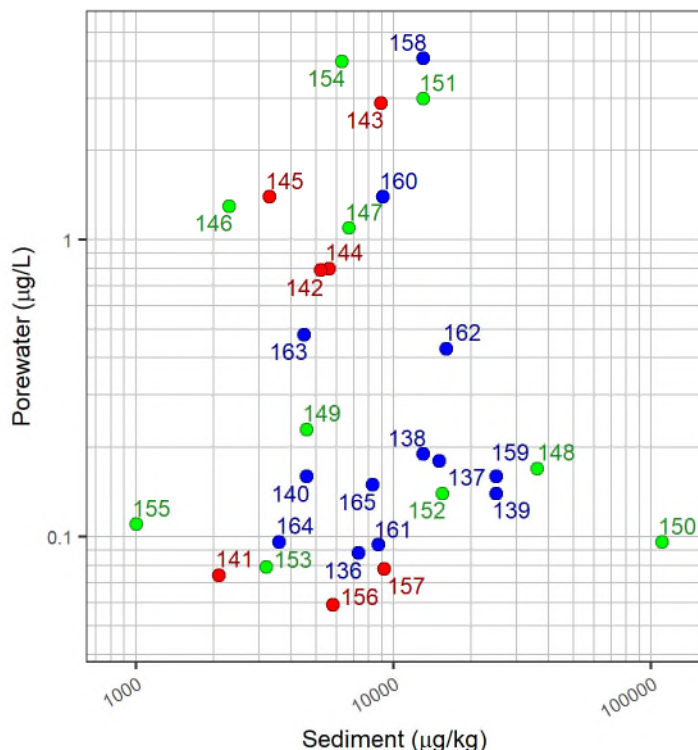
- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Sediment Non-detect and Porewater Detect
- ▼ Filled Symbol = Sediment Detect and Porewater Non-detect

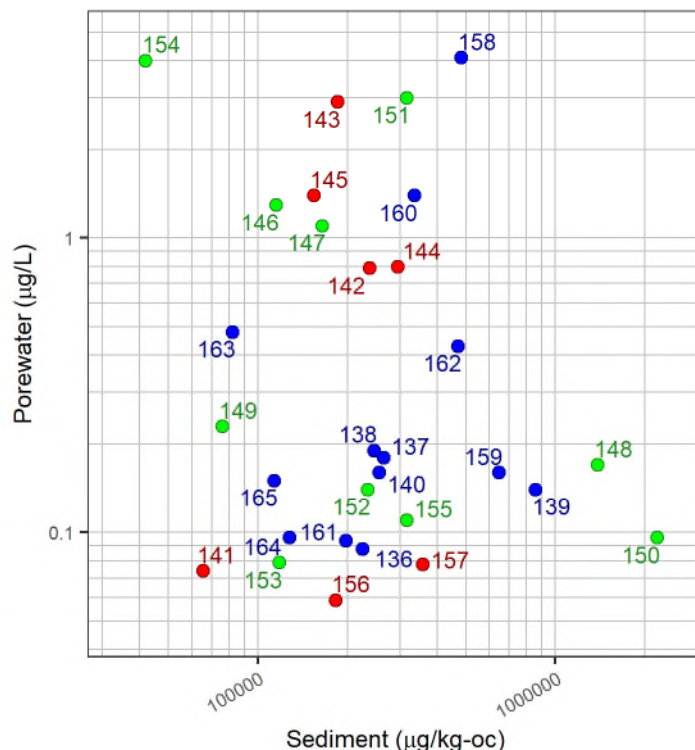
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN
POREWATER VERSUS SEDIMENT:
PESTICIDES

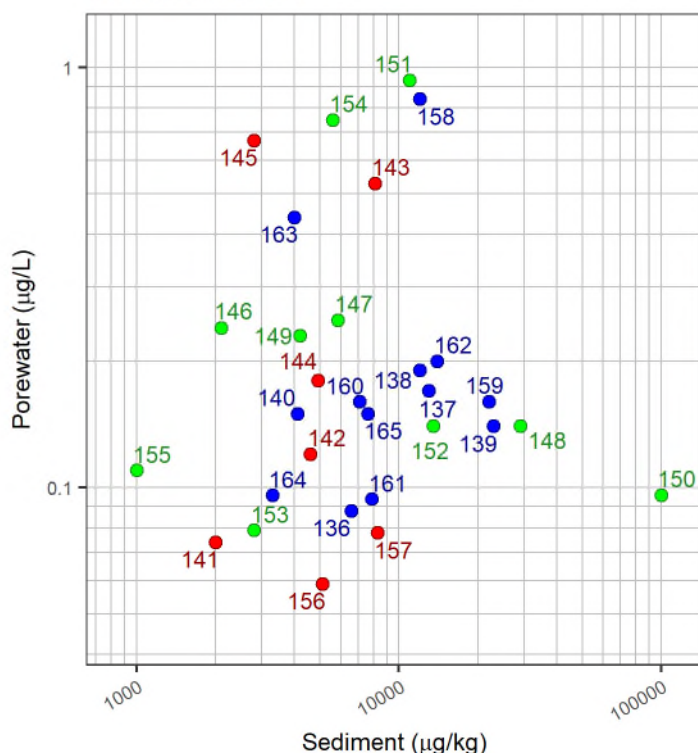
Total PAHs



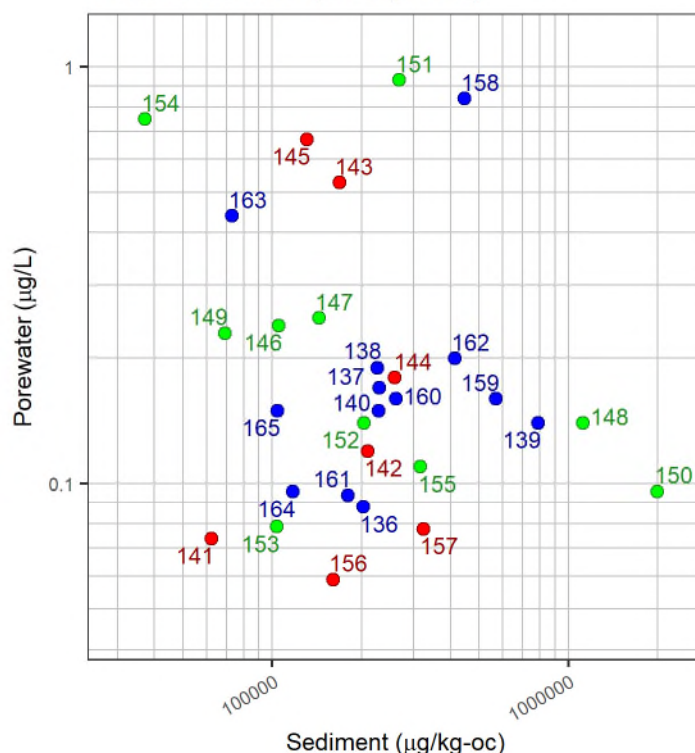
Total PAHs (oc-adjusted)



Total HMW PAHs



Total HMW PAHs (oc-adjusted)



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.

Non-detects plotted at the reporting limit.

Measured porewater concentrations were made with passive sampling methods that are intended to measure only freely dissolved concentrations (non-DOC-complexed concentrations).

Bay Area (color-code)

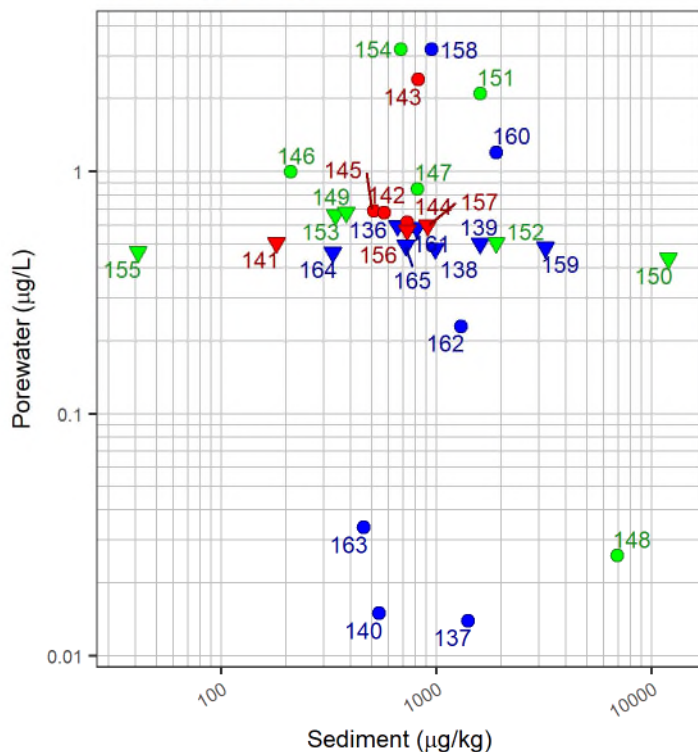
- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Sediment Non-detect and Porewater Detect
- ▼ Filled Symbol = Sediment Detect and Porewater Non-detect

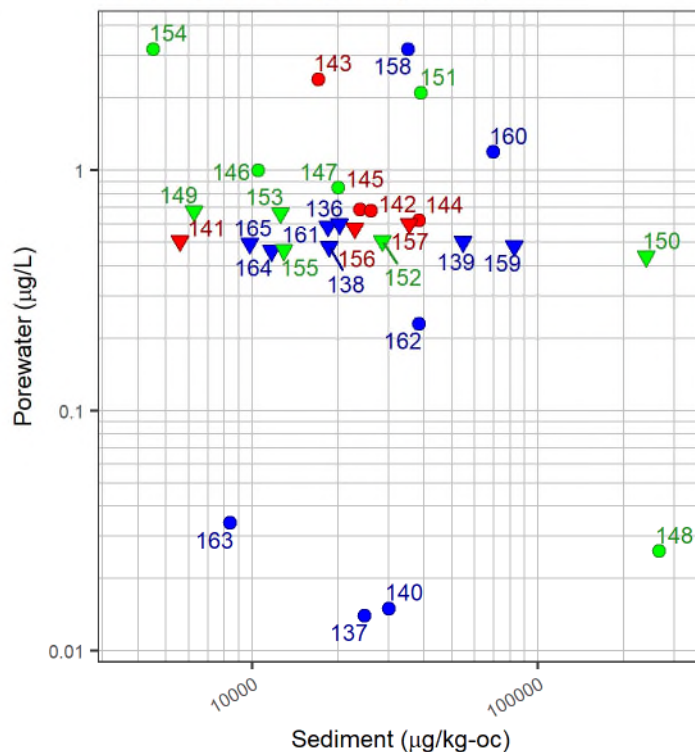
**DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT**

**CONCENTRATIONS OF COPCS IN
POREWATER VERSUS SEDIMENT: PAHS**

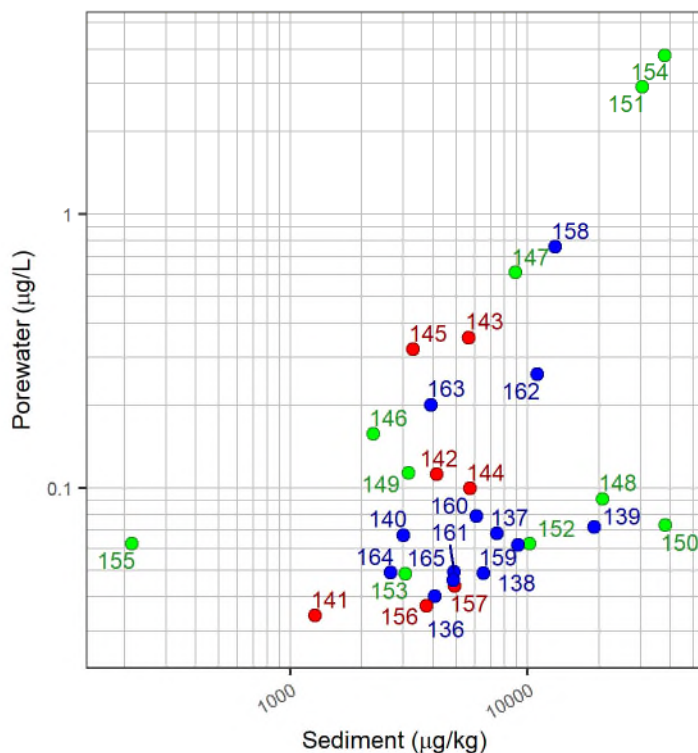
Total LMW PAHs



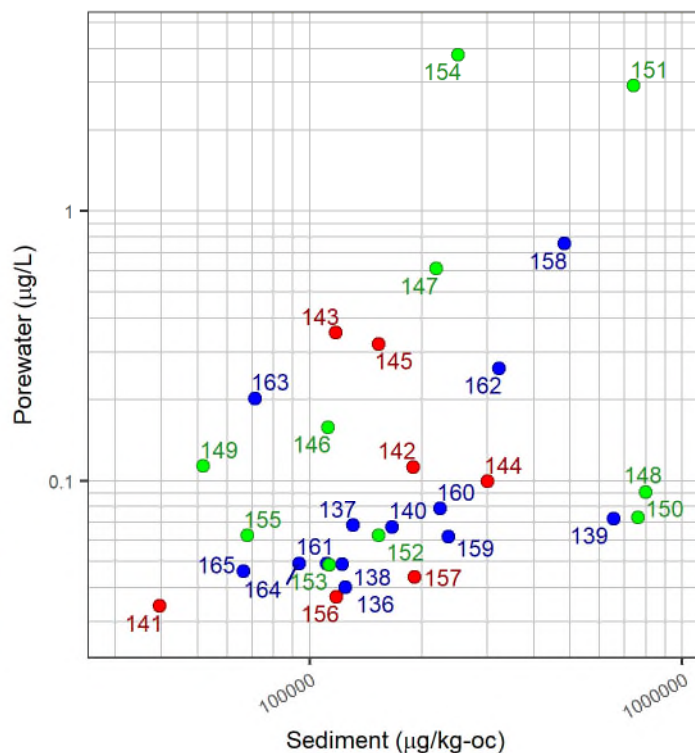
Total LMW PAHs (oc-adjusted)



Total Alkylated PAHs



Total Alkylated PAHs (oc-adjusted)



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.
Non-detects plotted at the reporting limit.
Measured porewater concentrations were made with passive sampling methods that are intended to measure only freely dissolved concentrations (non-DOC-complexed concentrations).

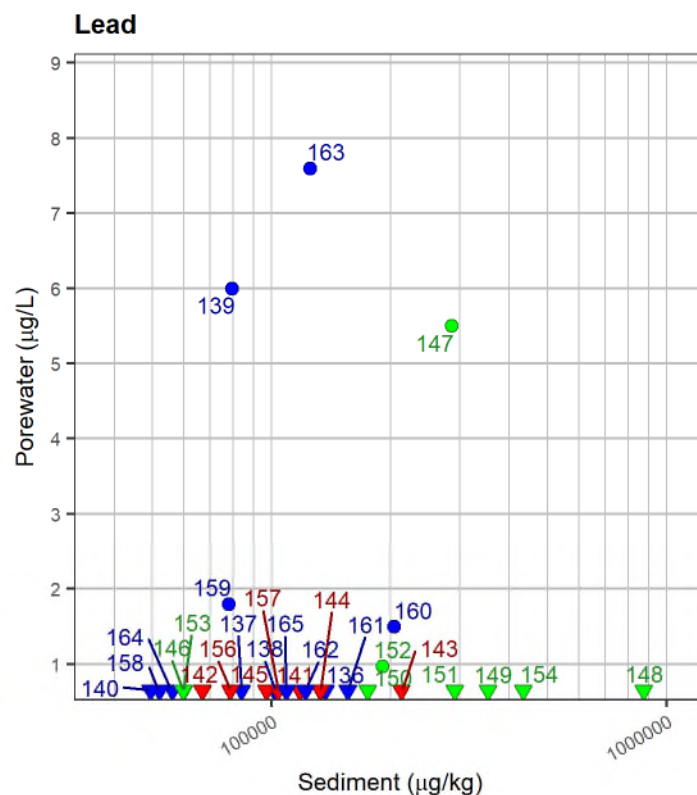
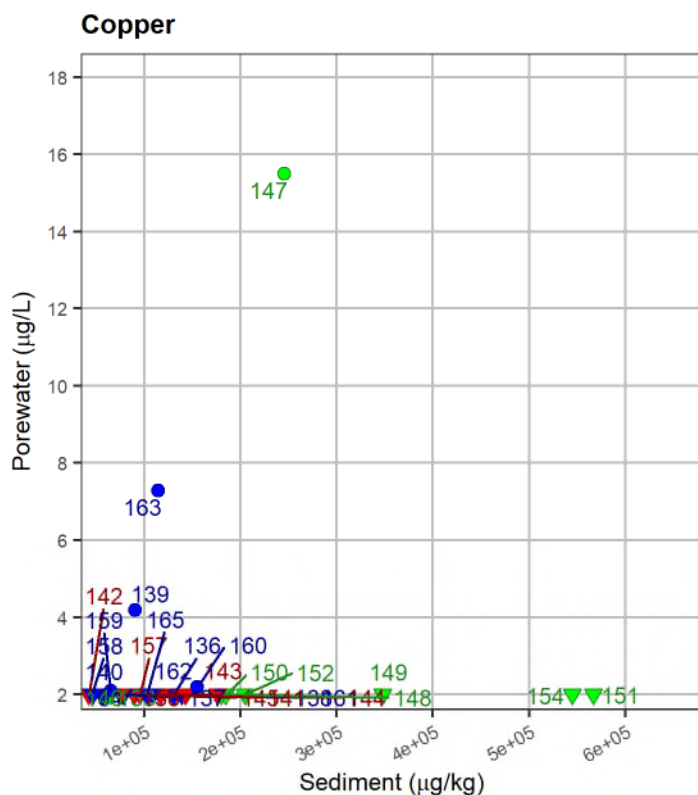
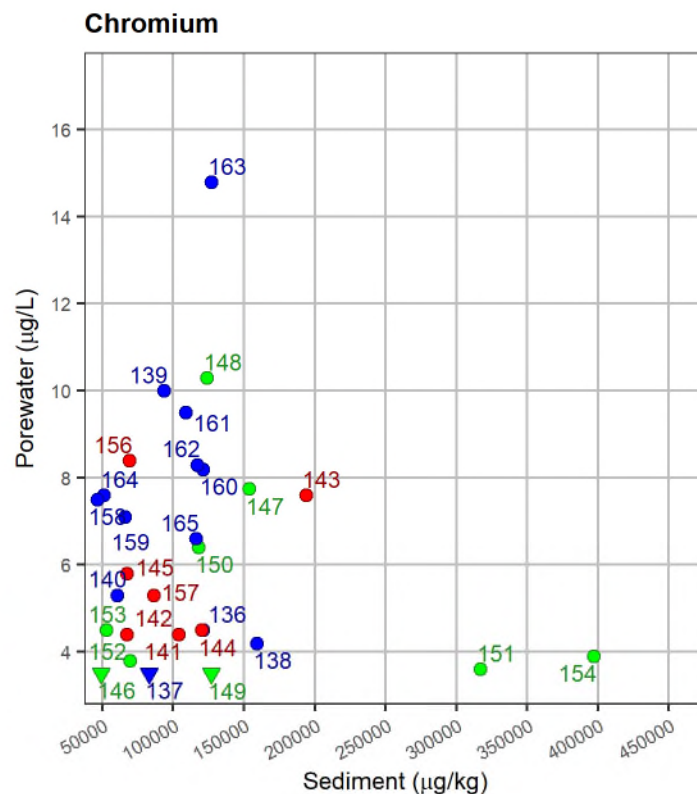
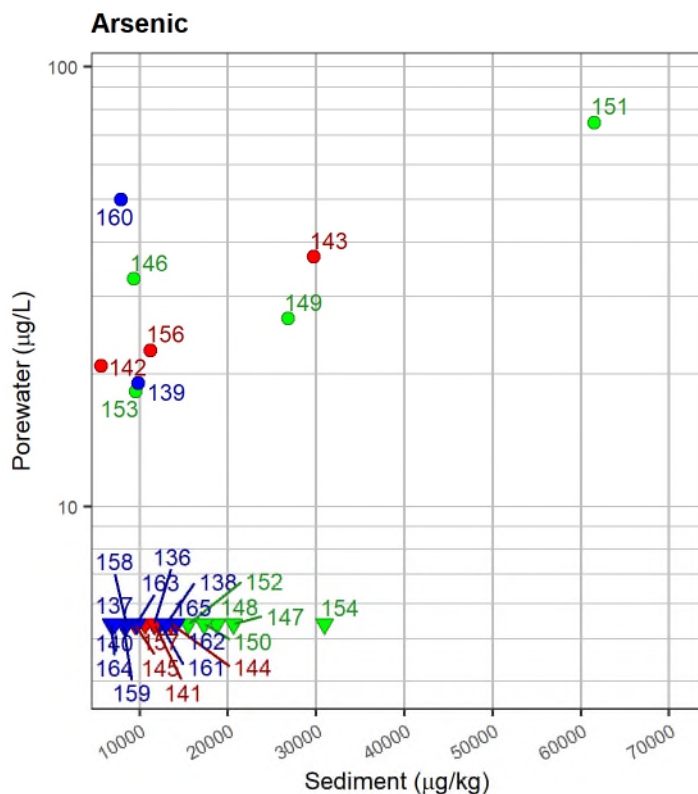
Bay Area (color-code)

- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Sediment Non-detect and Porewater Detect
- ▼ Filled Symbol = Sediment Detect and Porewater Non-detect

DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN
POREWATER VERSUS SEDIMENT: PAHS



Notes:
 For correlation analysis, non-detects included at 1/2 the reporting limit.
 Non-detects plotted at the reporting limit.
 Measured porewater concentrations were made with passive sampling methods that are intended to measure only freely dissolved concentrations (non-DOC-complexed concentrations).

Bay Area (color-code)

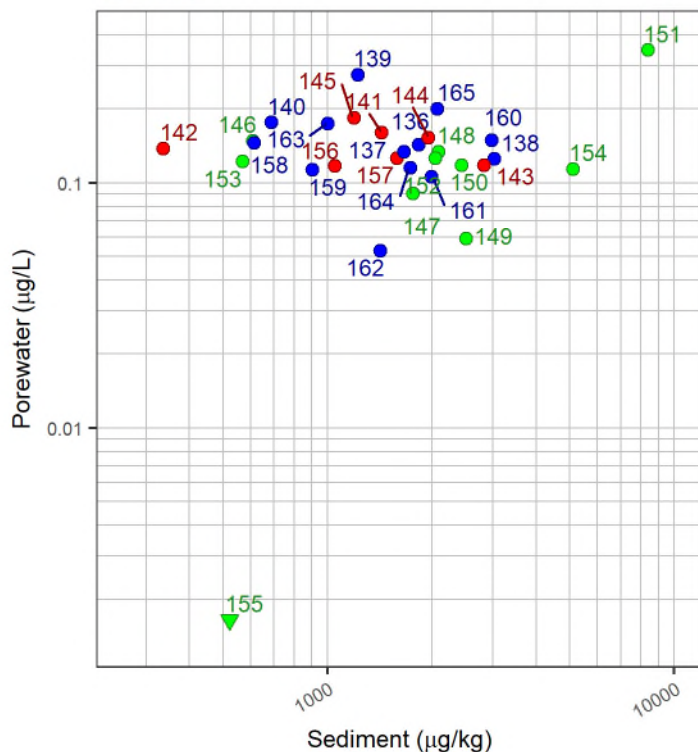
- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Sediment Non-detect and Porewater Detect
- ▼ Filled Symbol = Sediment Detect and Porewater Non-detect

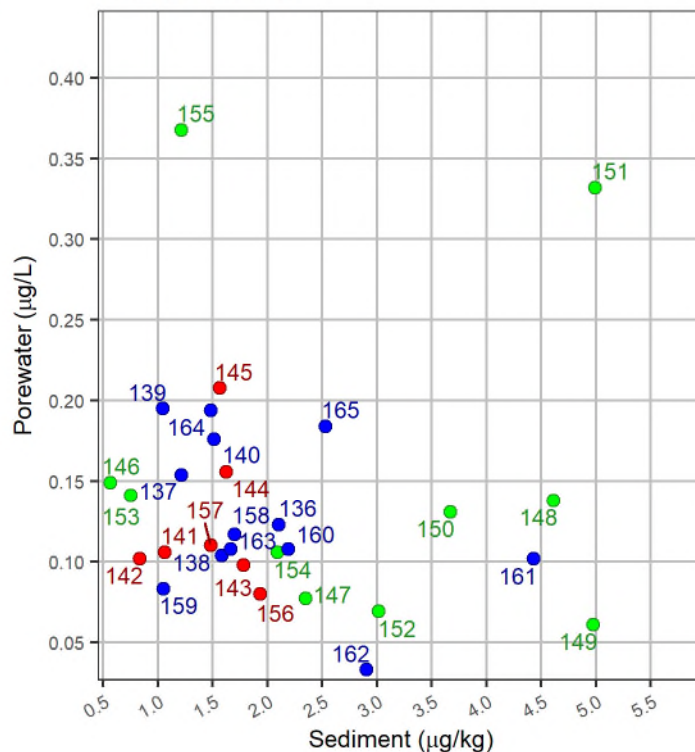
DIAMOND ALKALI SUPERFUND SITE
 NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
 REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN POREWATER VERSUS SEDIMENT: METALS

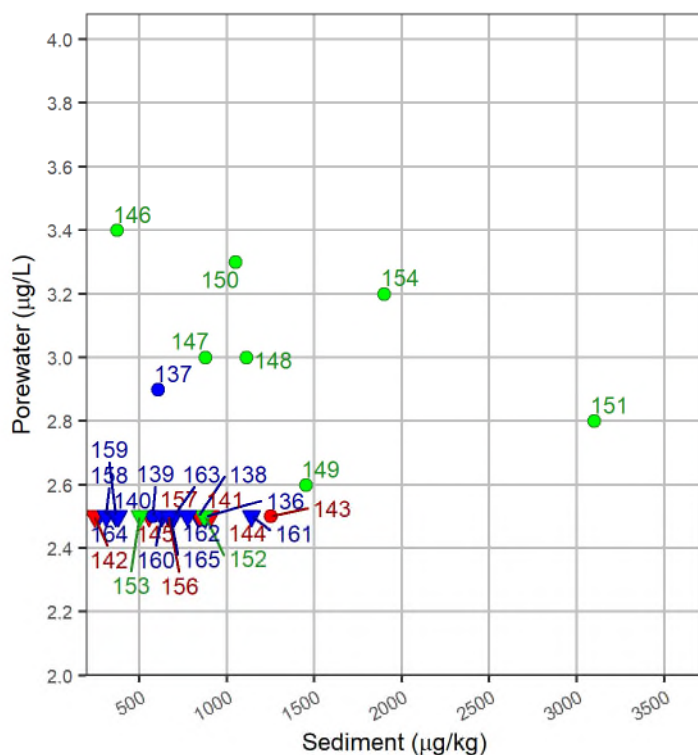
Mercury



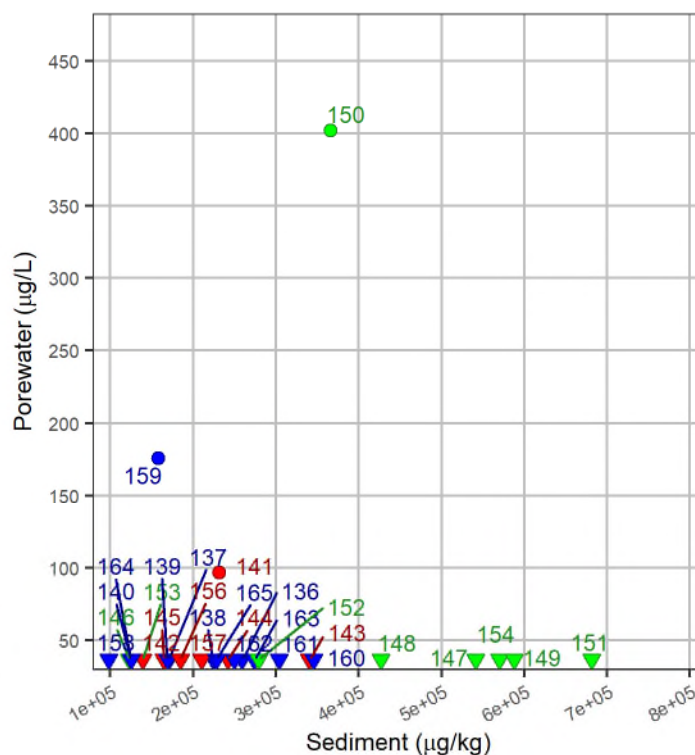
Methyl Mercury



Selenium



Zinc



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.
Non-detects plotted at the reporting limit.
Measured porewater concentrations were made with passive sampling methods that are intended to measure only freely dissolved concentrations (non-DOC-complexed concentrations).

Bay Area (color-code)

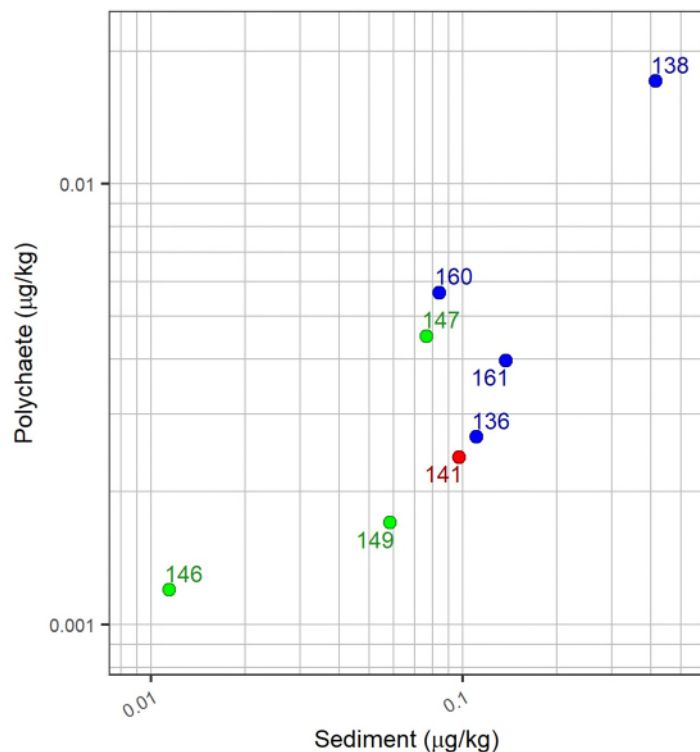
- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Sediment Non-detect and Porewater Detect
- ▼ Filled Symbol = Sediment Detect and Porewater Non-detect

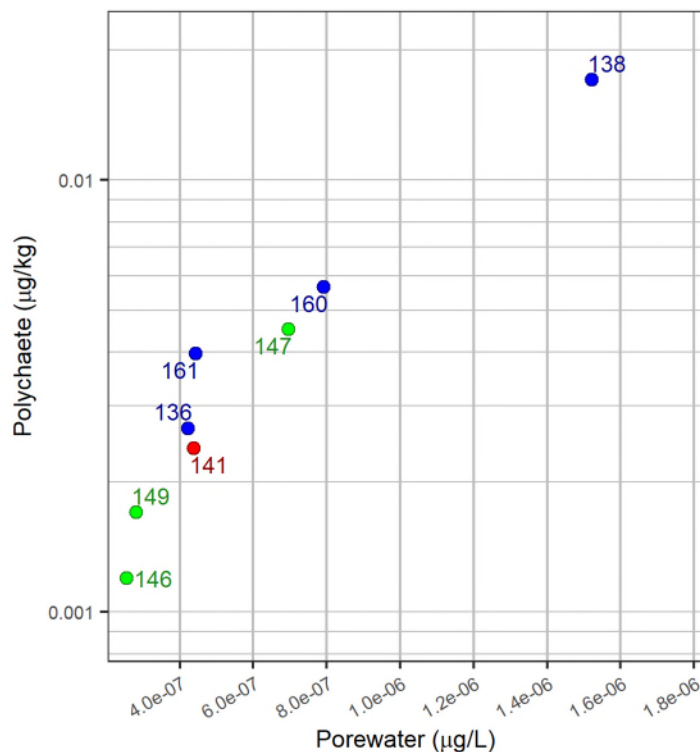
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN POREWATER VERSUS SEDIMENT: METALS

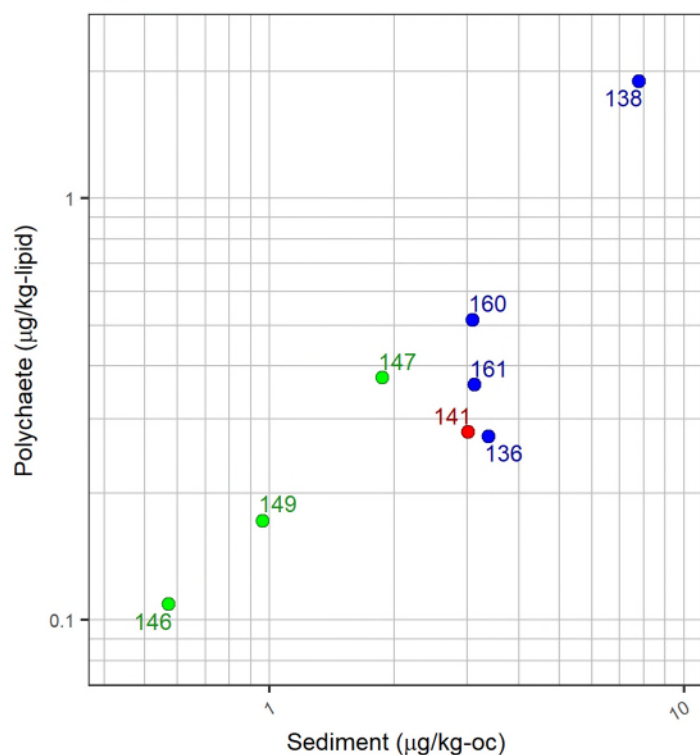
2,3,7,8-TCDD



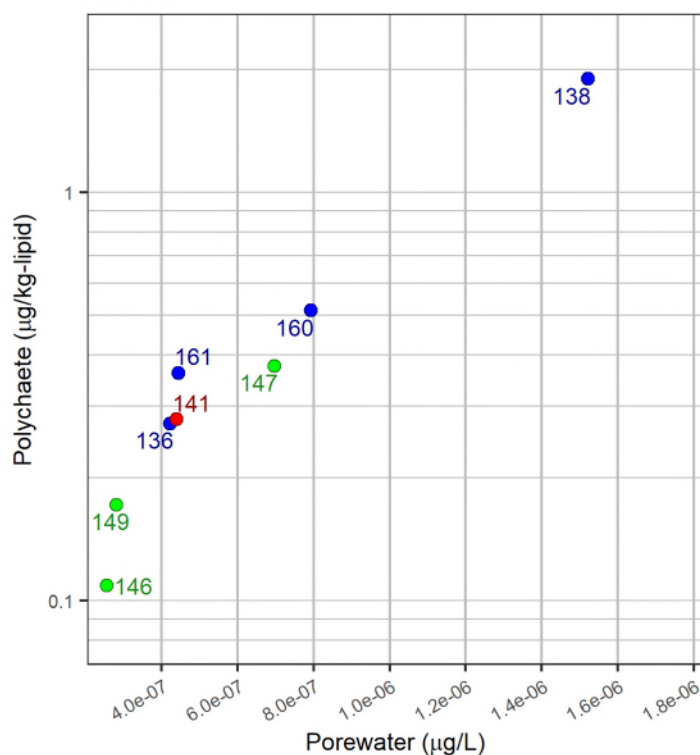
2,3,7,8-TCDD



2,3,7,8-TCDD



2,3,7,8-TCDD



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.

Non-detects plotted at the reporting limit.

Bay Area (color-code)

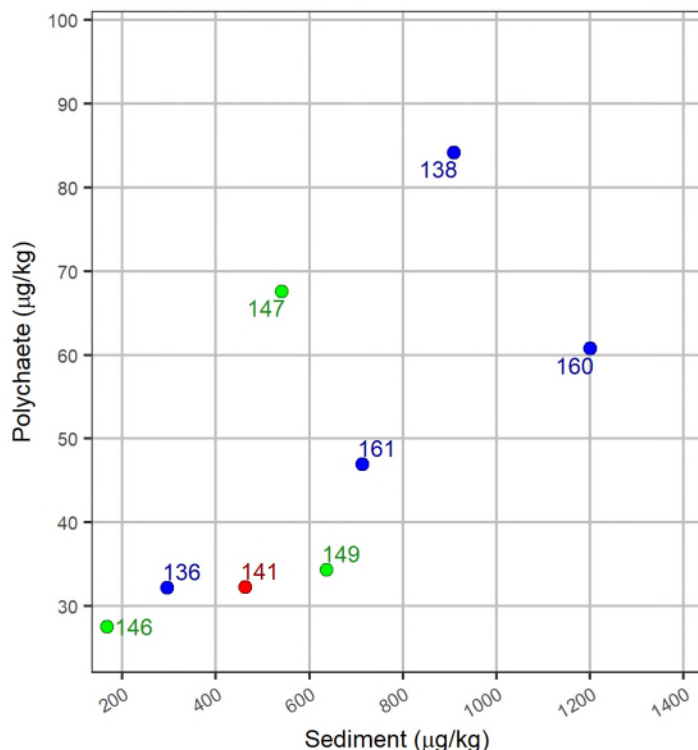
- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

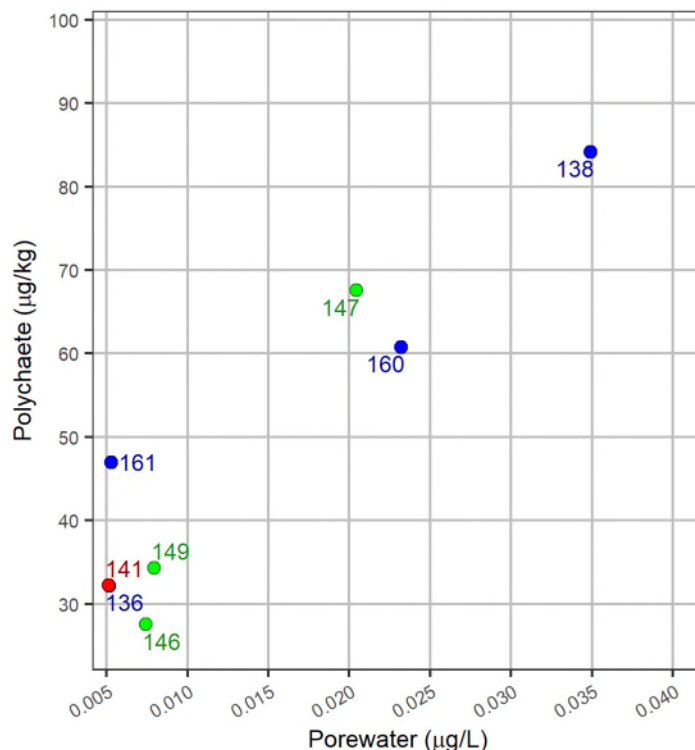
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN LABORATORY
EXPOSED POLYCHAETES VERSUS SEDIMENT
AND POREWATER: DIOXINS/FURANS & PCBS

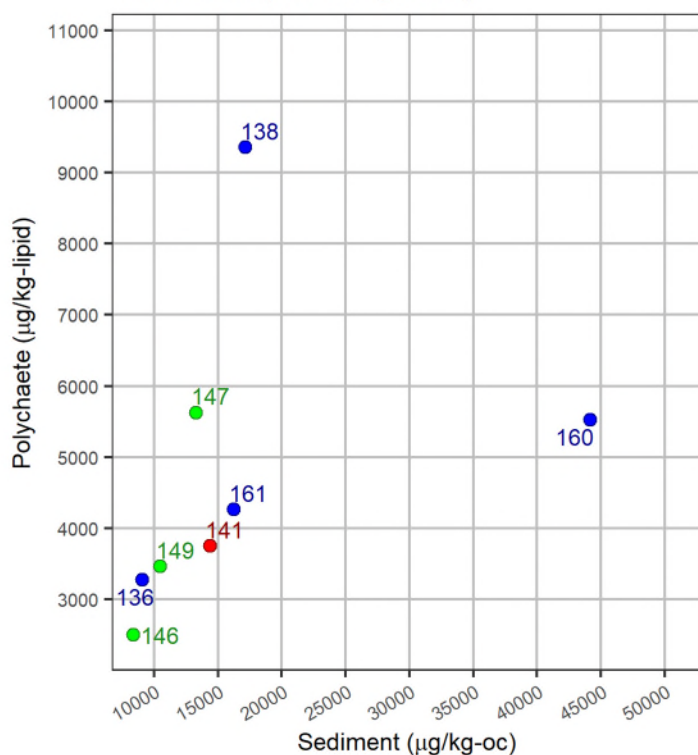
Total PCBs (209 Congeners)



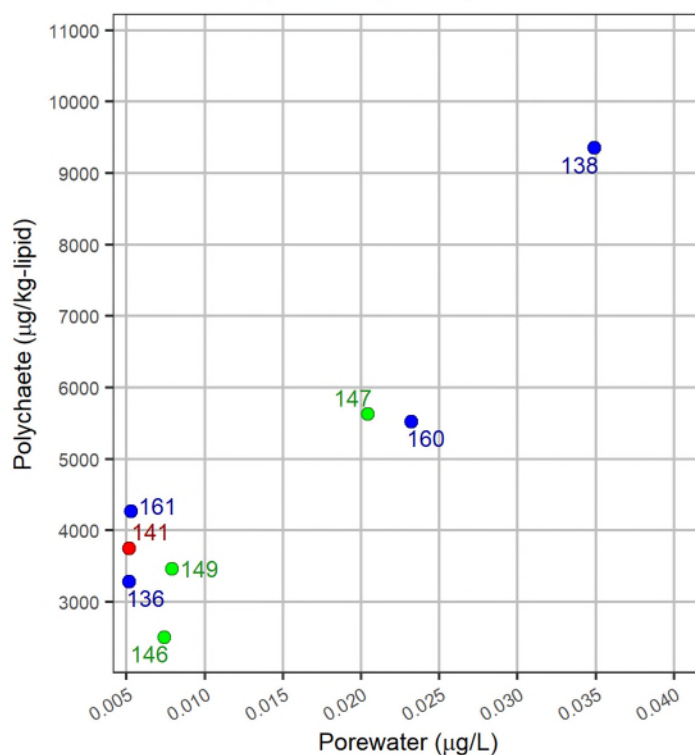
Total PCBs (209 Congeners)



Total PCBs (209 Congeners)



Total PCBs (209 Congeners)



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.
Non-detects plotted at the reporting limit.

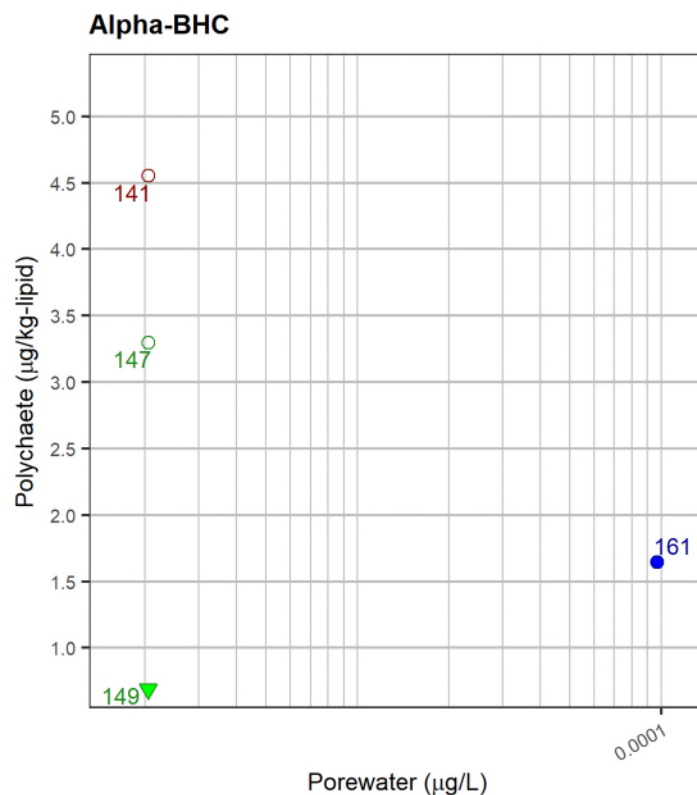
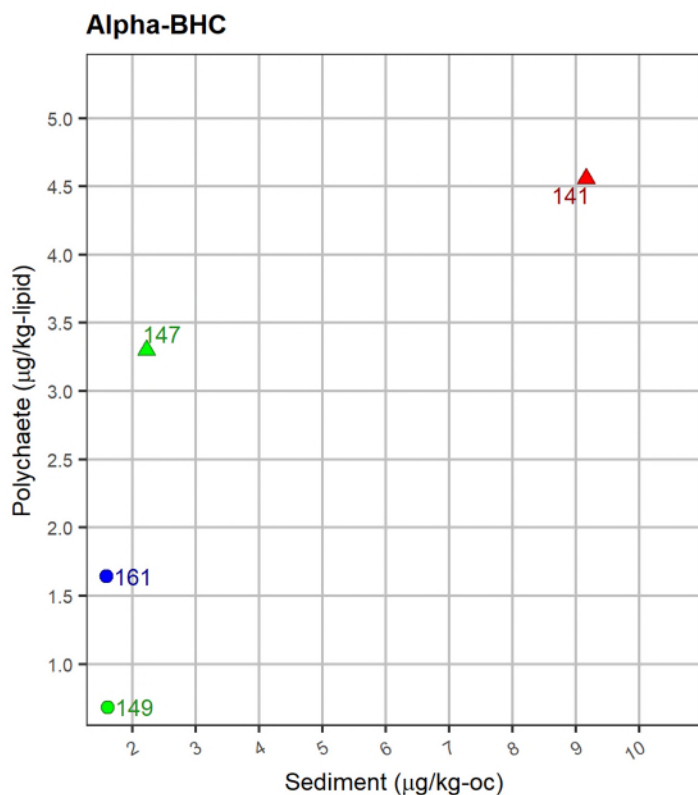
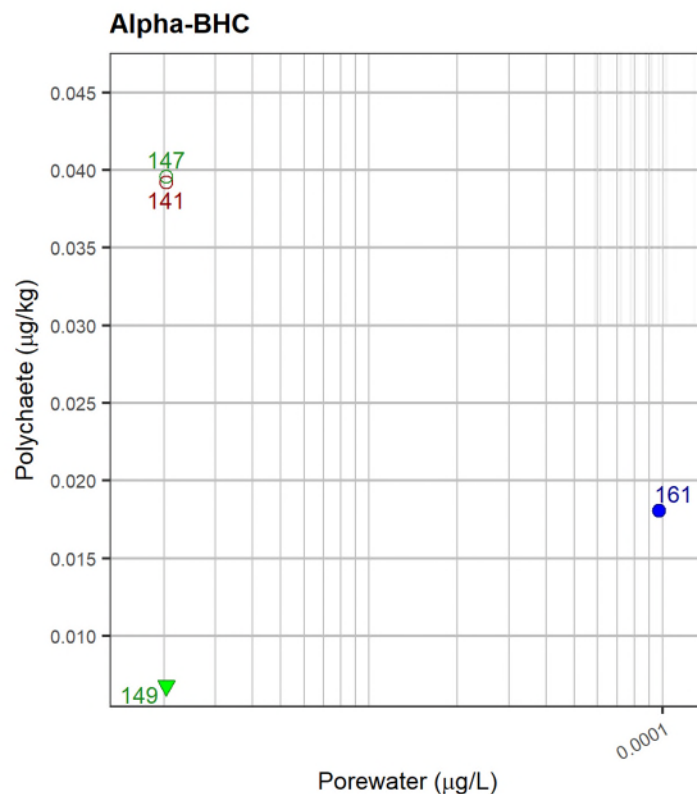
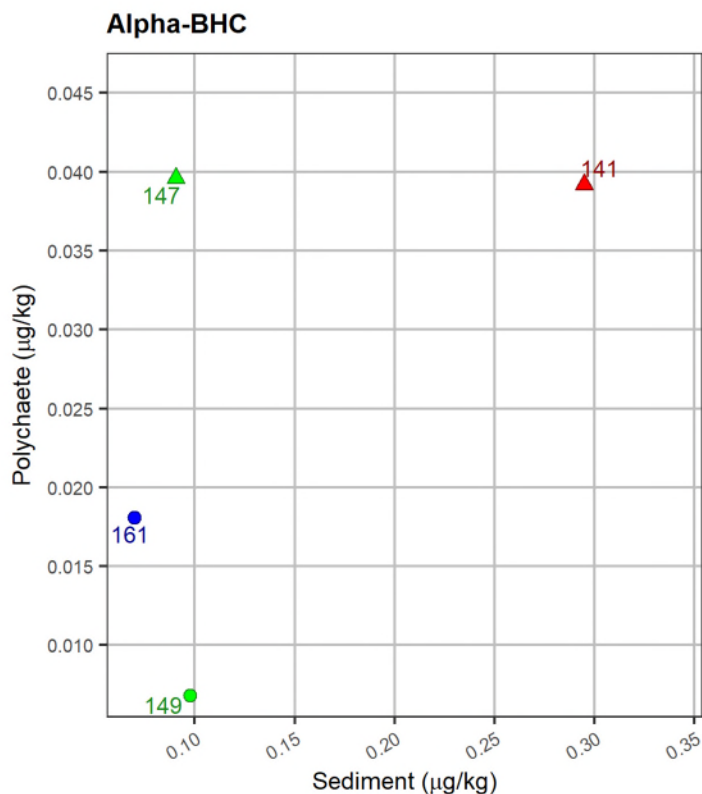
Bay Area (color-code)

- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

**DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT**

**CONCENTRATIONS OF COPCS IN LABORATORY
EXPOSED POLYCHAETES VERSUS SEDIMENT
AND POREWATER: DIOXINS/FURANS & PCBs**



Notes:
For correlation analysis, non-detects included at 1/2 the reporting limit.
Non-detects plotted at the reporting limit.

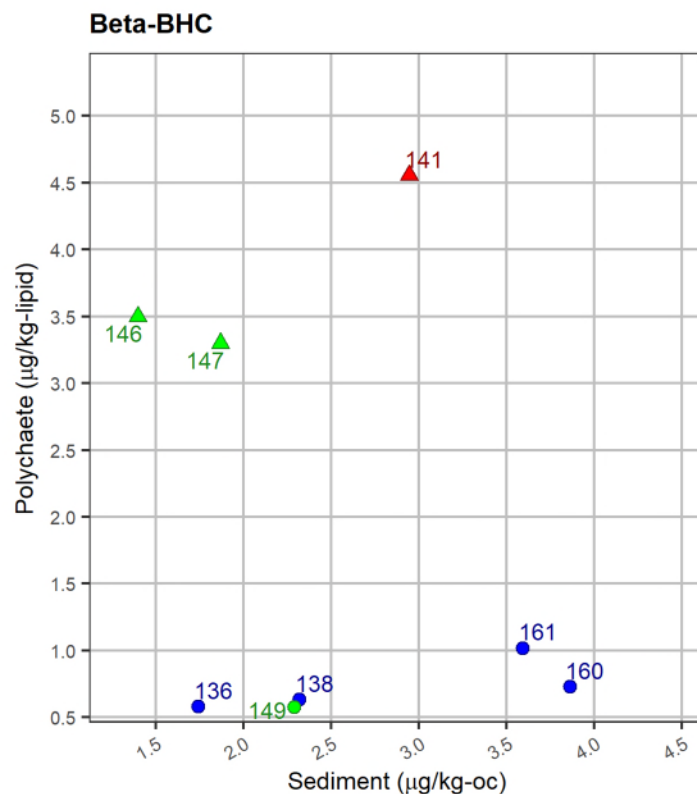
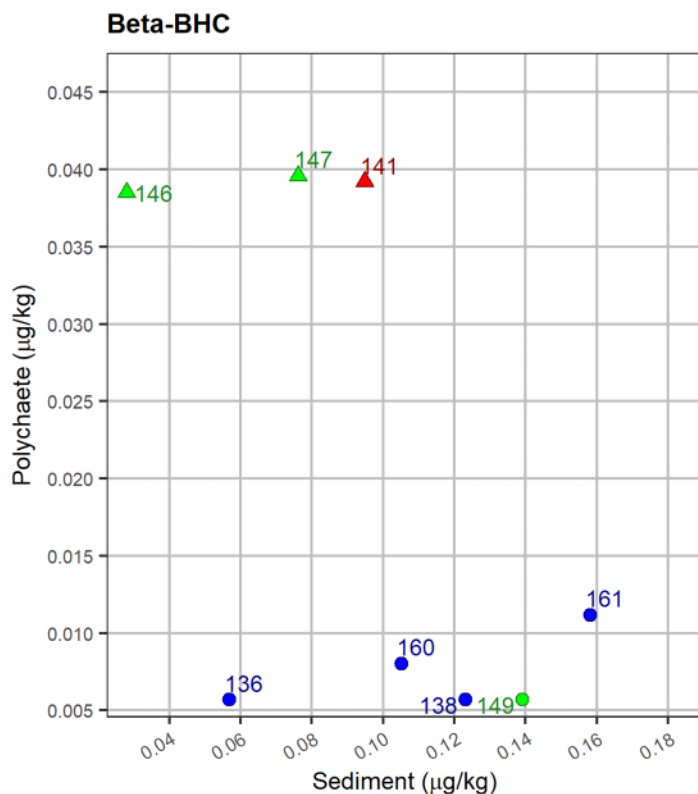
Bay Area (color-code)

- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

**DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT**

**CONCENTRATIONS OF COPCS IN
LABORATORY EXPOSED POLYCHAETES
VERSUS SEDIMENT AND POREWATER:
PESTICIDES**



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.

Non-detects plotted at the reporting limit.

Bay Area (color-code)

- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

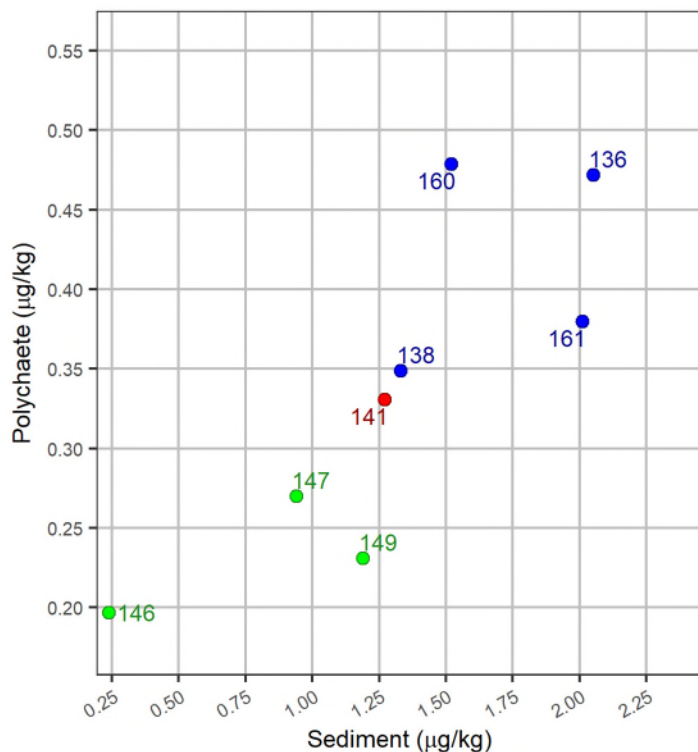
**DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT**

**CONCENTRATIONS OF COPCS IN
LABORATORY EXPOSED POLYCHAETES
VERSUS SEDIMENT AND POREWATER:
PESTICIDES**

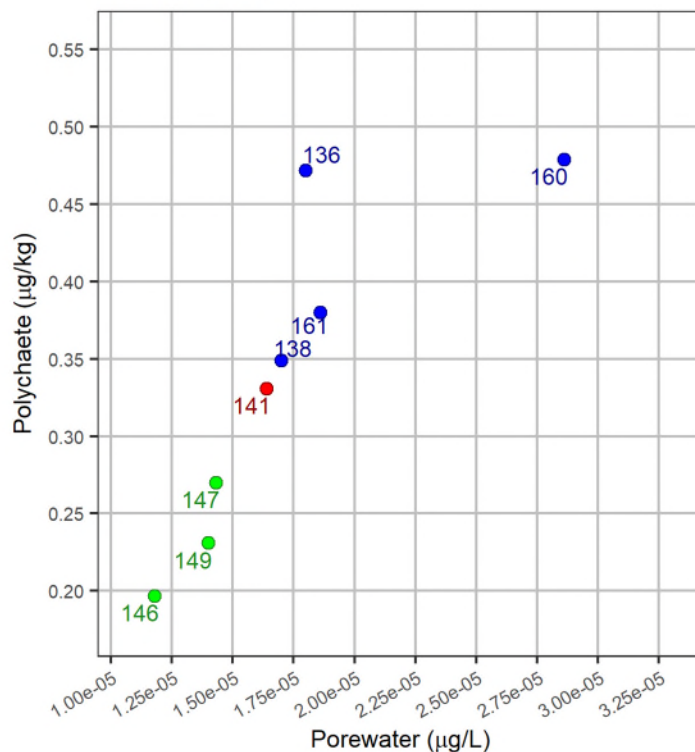


FIGURE
**SED POLY-
2B**

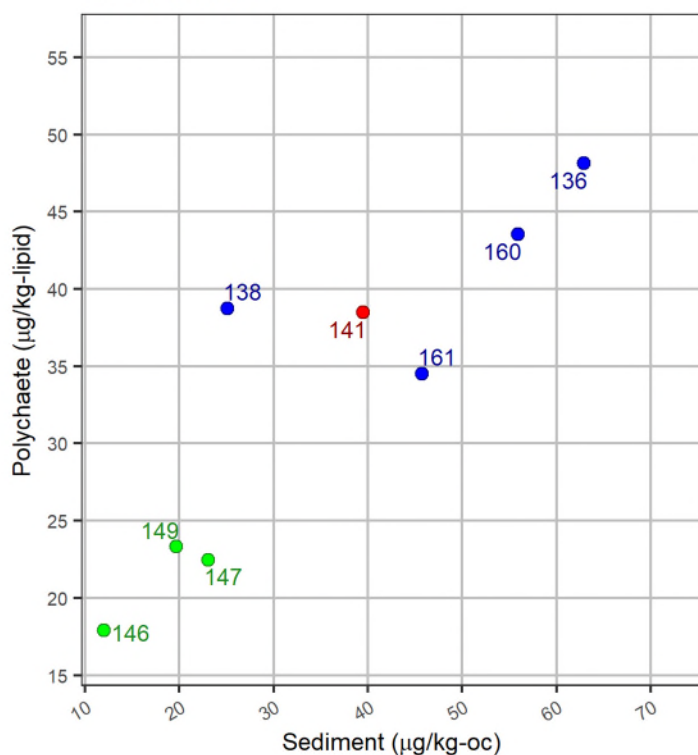
Cis-Nonachlor



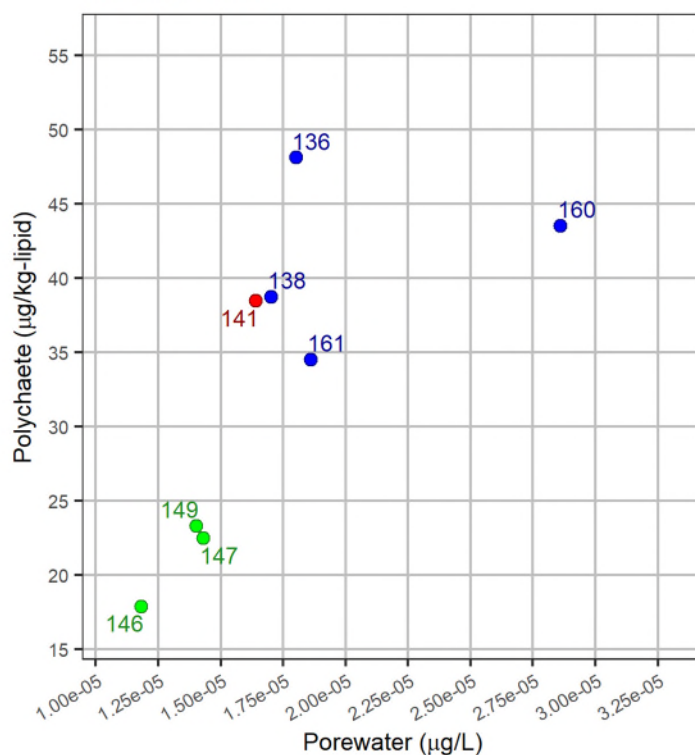
Cis-Nonachlor



Cis-Nonachlor



Cis-Nonachlor



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.

Non-detects plotted at the reporting limit.

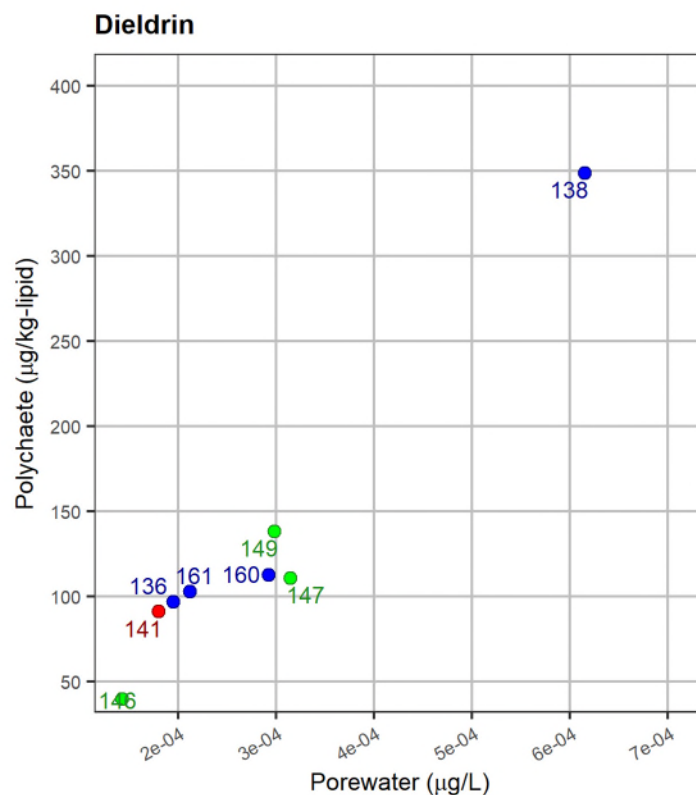
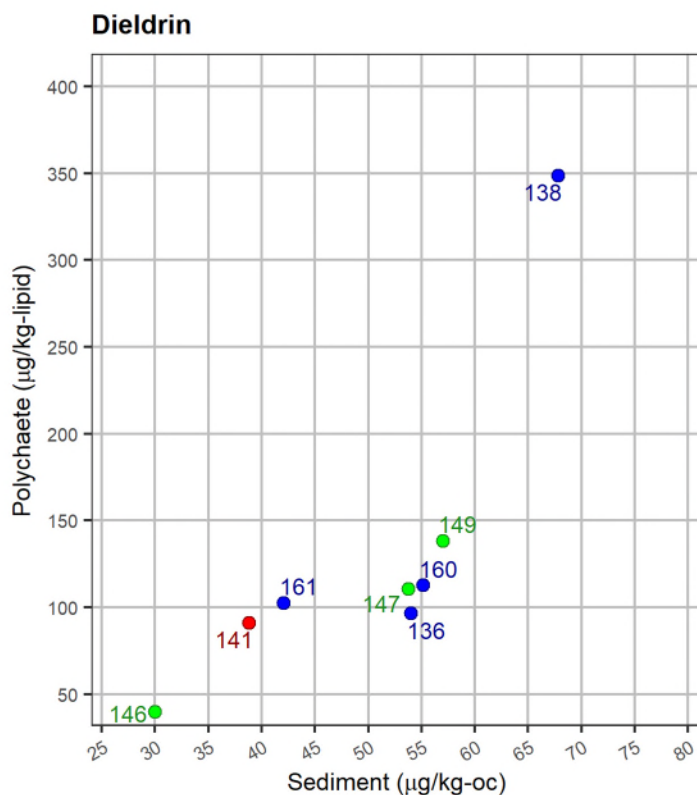
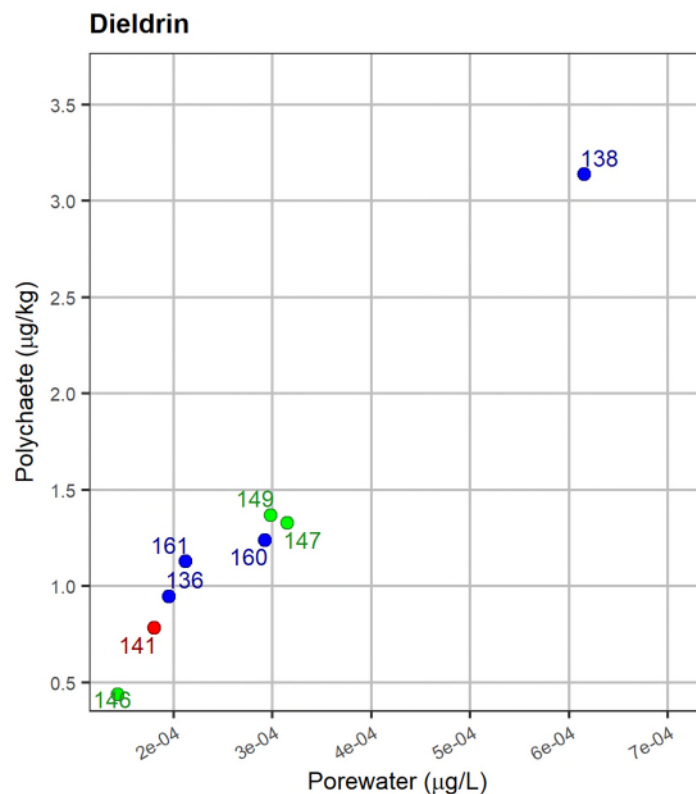
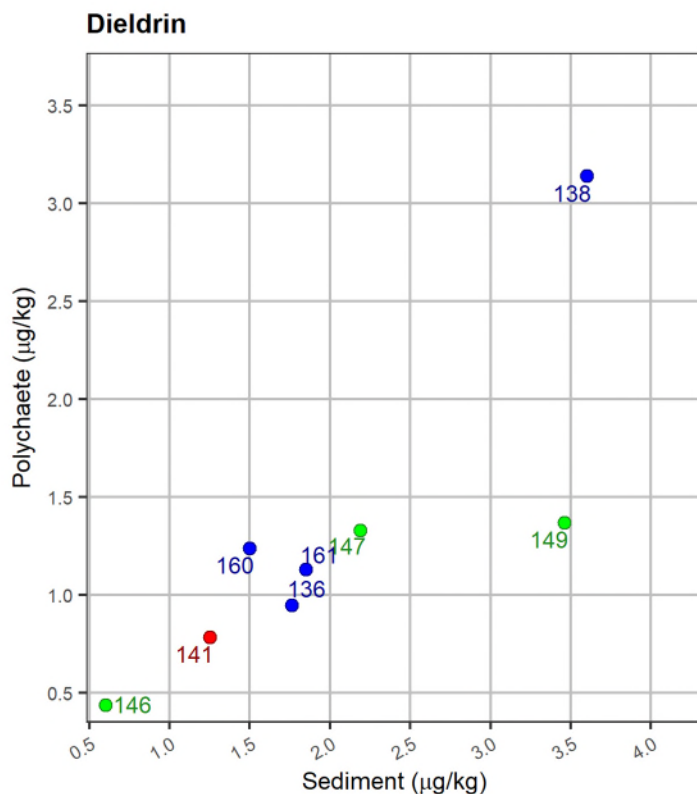
Bay Area (color-code)

- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

**DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT**

**CONCENTRATIONS OF COPCS IN
LABORATORY EXPOSED POLYCHAETES
VERSUS SEDIMENT AND POREWATER:
PESTICIDES**



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.

Non-detects plotted at the reporting limit.

Bay Area (color-code)

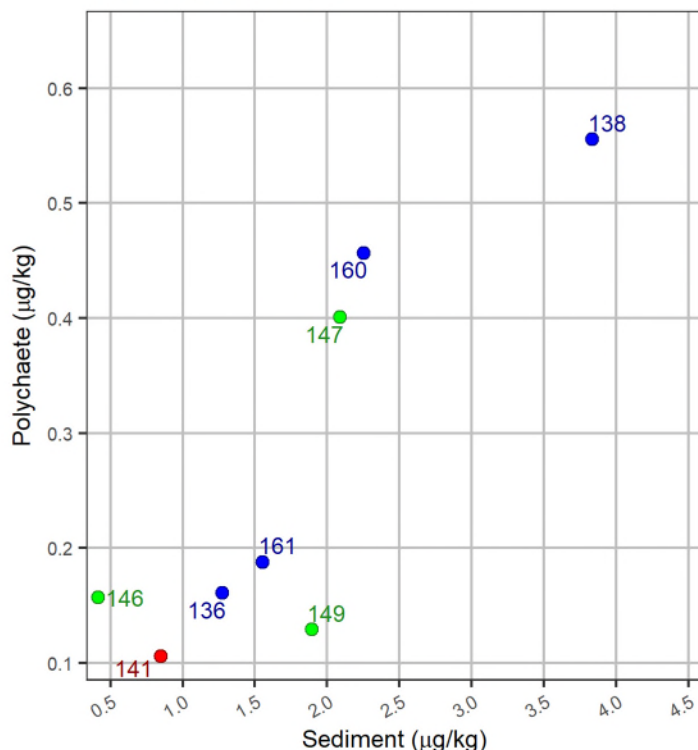
- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

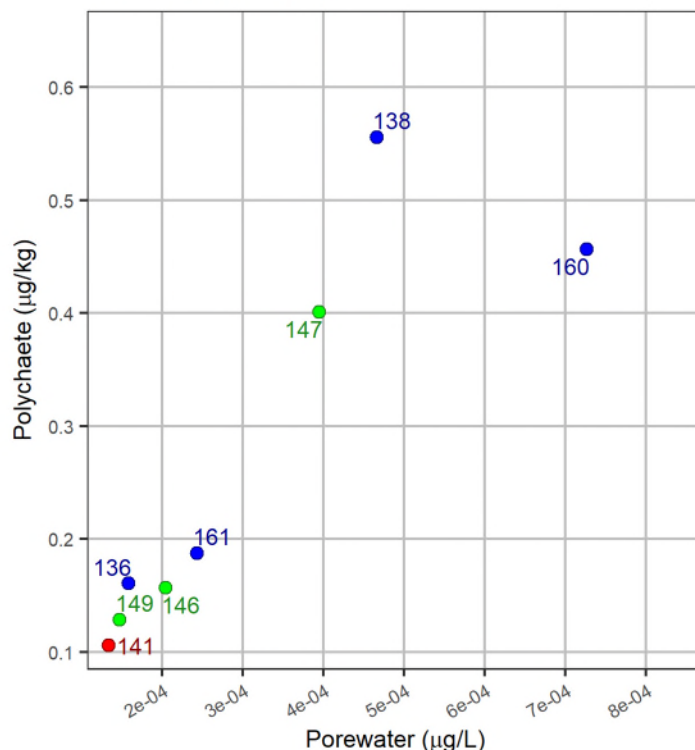
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN
LABORATORY EXPOSED POLYCHAETES
VERSUS SEDIMENT AND POREWATER:
PESTICIDES

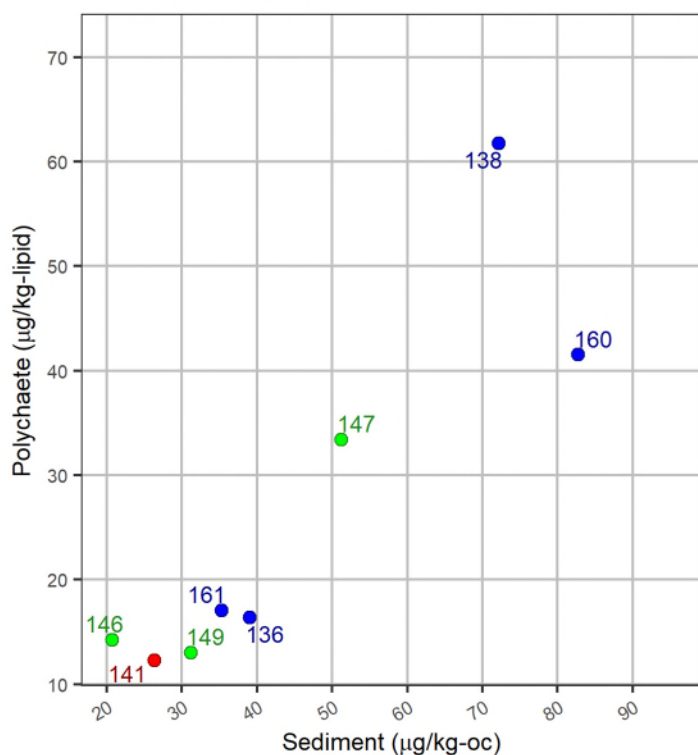
Hexachlorobenzene



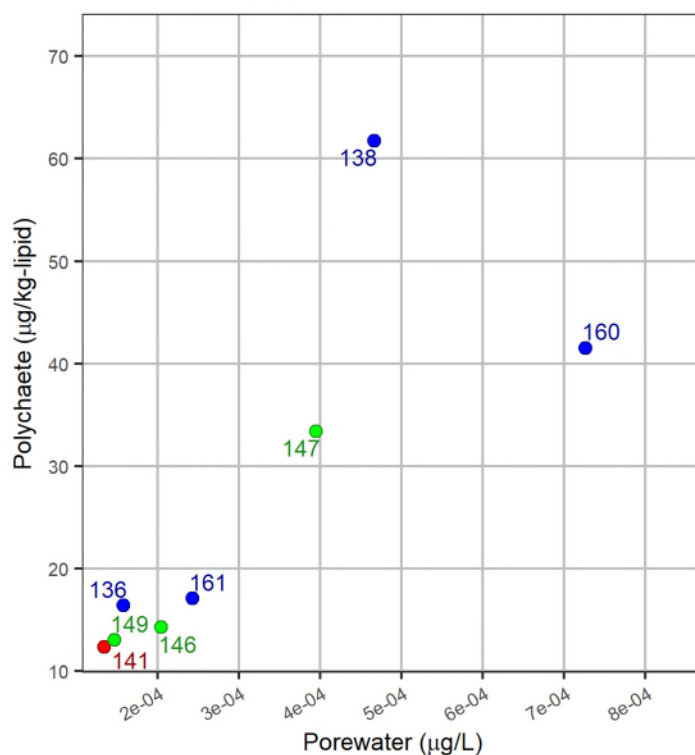
Hexachlorobenzene



Hexachlorobenzene



Hexachlorobenzene



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.
Non-detects plotted at the reporting limit.

Bay Area (color-code)

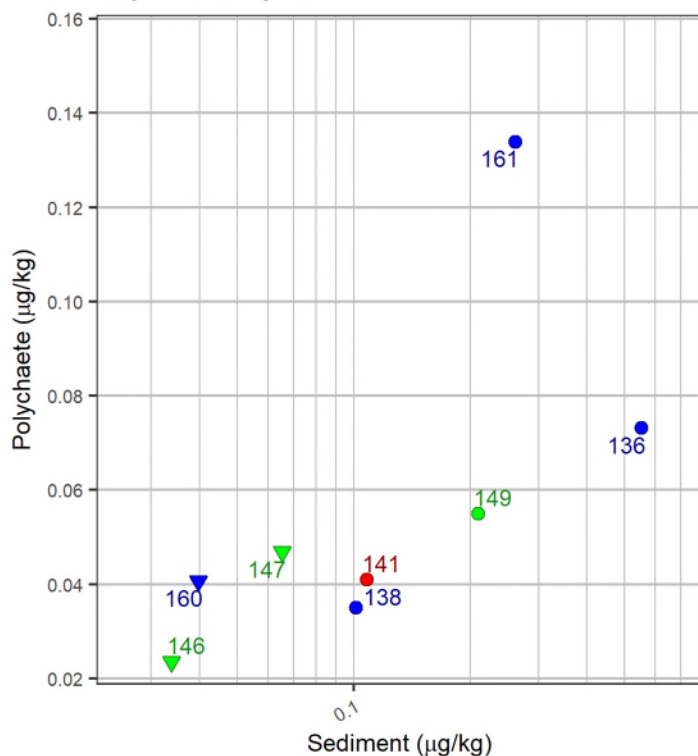
- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

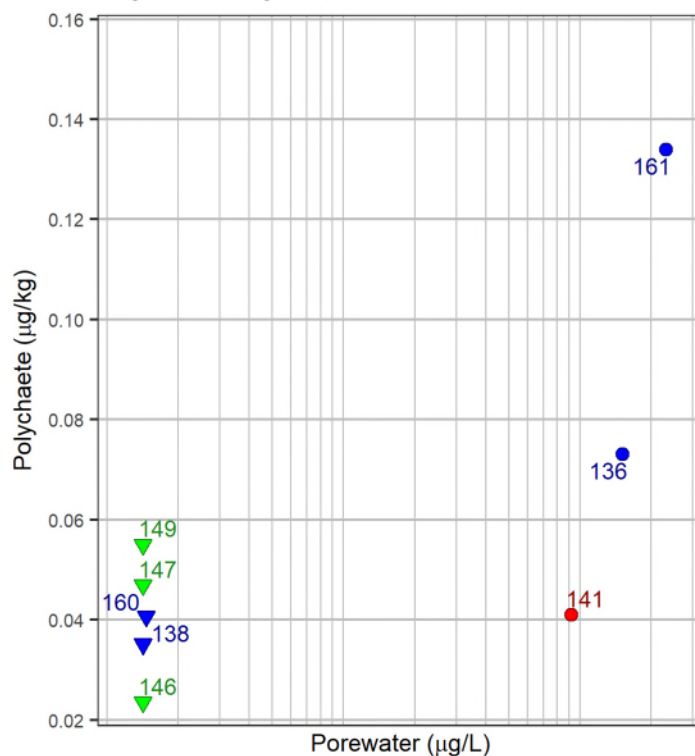
DIAMOND ALKALI SUPERFUND SITE NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN LABORATORY EXPOSED POLYCHAETES VERSUS SEDIMENT AND POREWATER: PESTICIDES

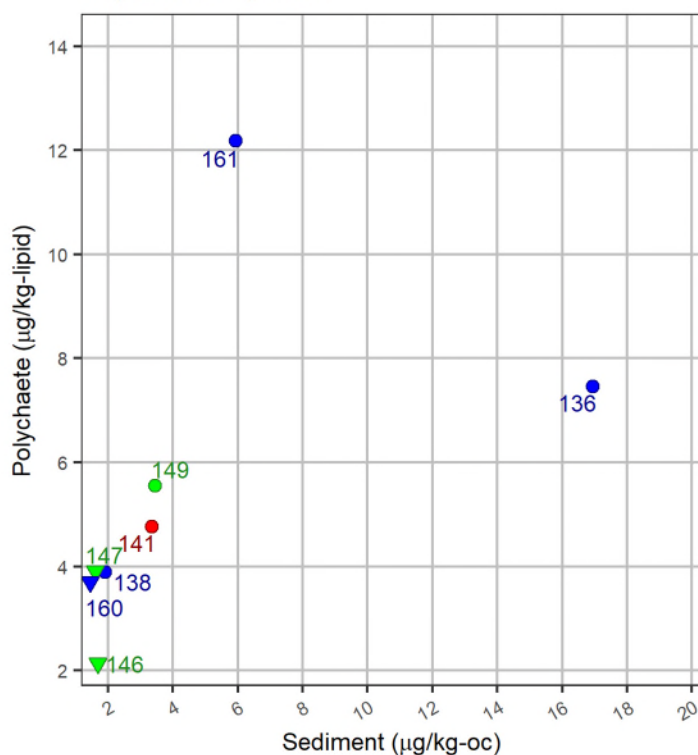
Heptachlor Epoxide



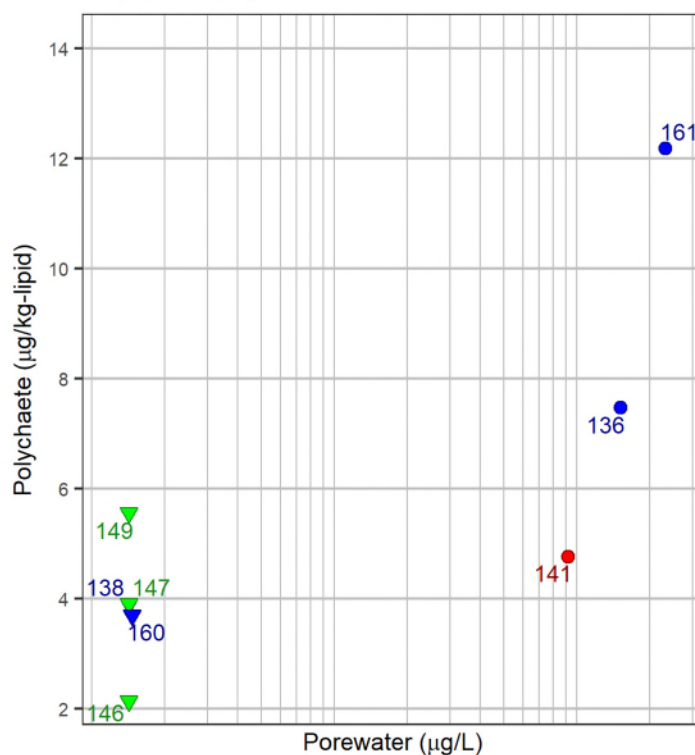
Heptachlor Epoxide



Heptachlor Epoxide



Heptachlor Epoxide



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.
Non-detects plotted at the reporting limit.

Bay Area (color-code)

- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

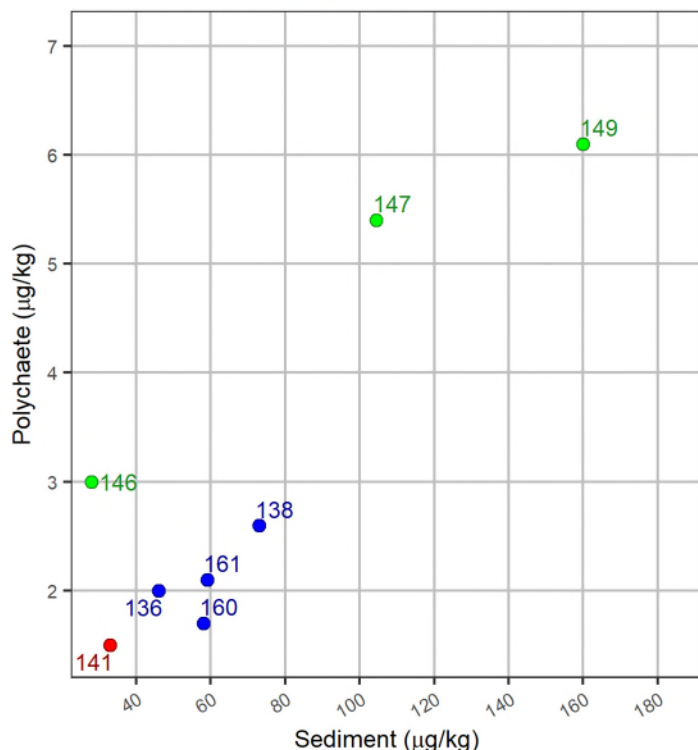
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN
LABORATORY EXPOSED POLYCHAETES
VERSUS SEDIMENT AND POREWATER:
PESTICIDES

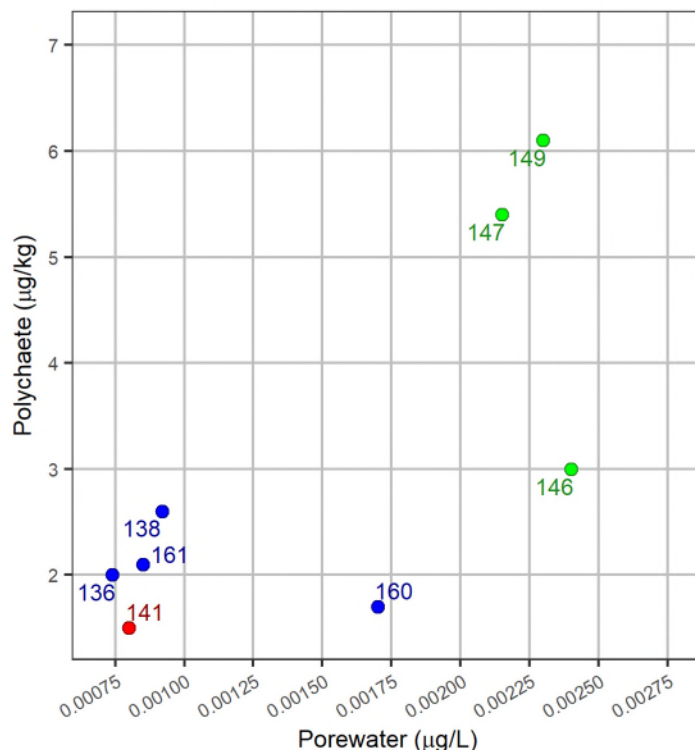
OXY Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
SED POLY-
2F

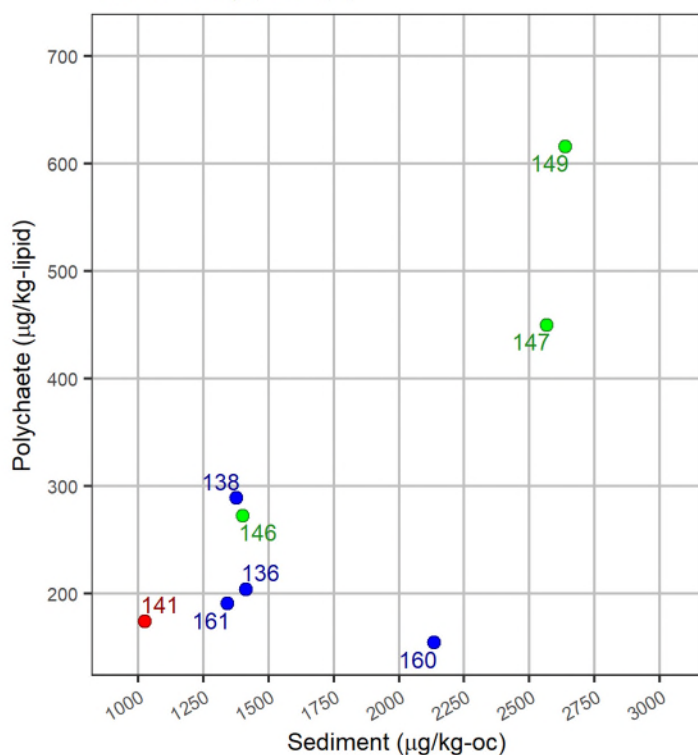
Total DDX (2,4 & 4,4)



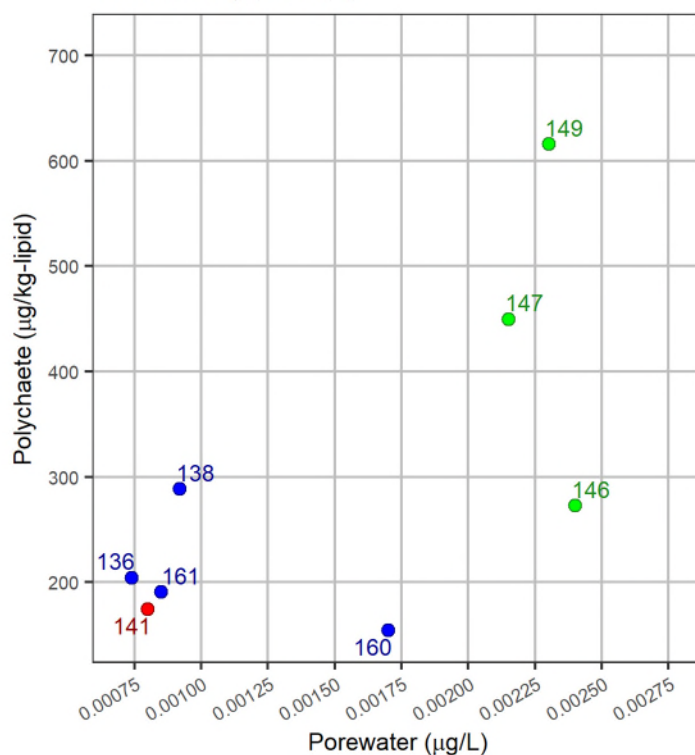
Total DDX (2,4 & 4,4)



Total DDX (2,4 & 4,4)



Total DDX (2,4 & 4,4)



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.

Non-detects plotted at the reporting limit.

Bay Area (color-code)

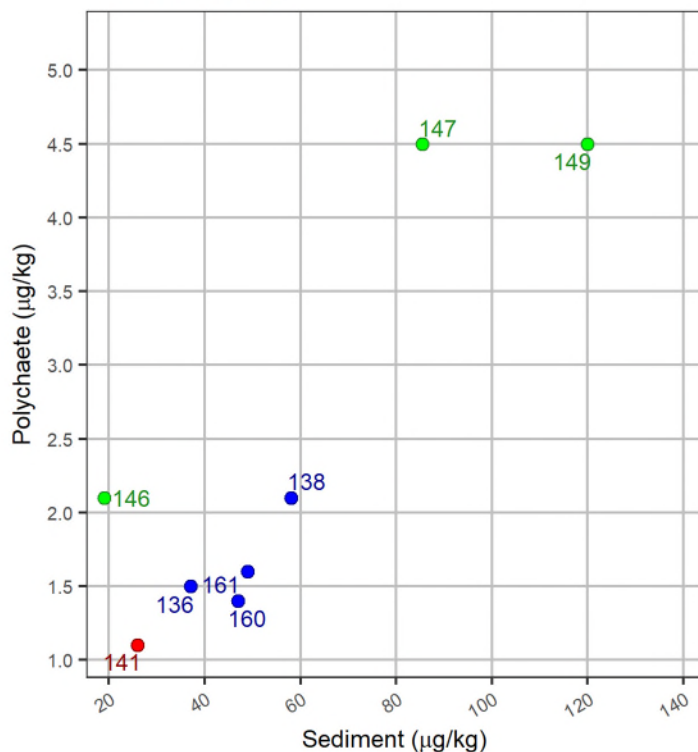
- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

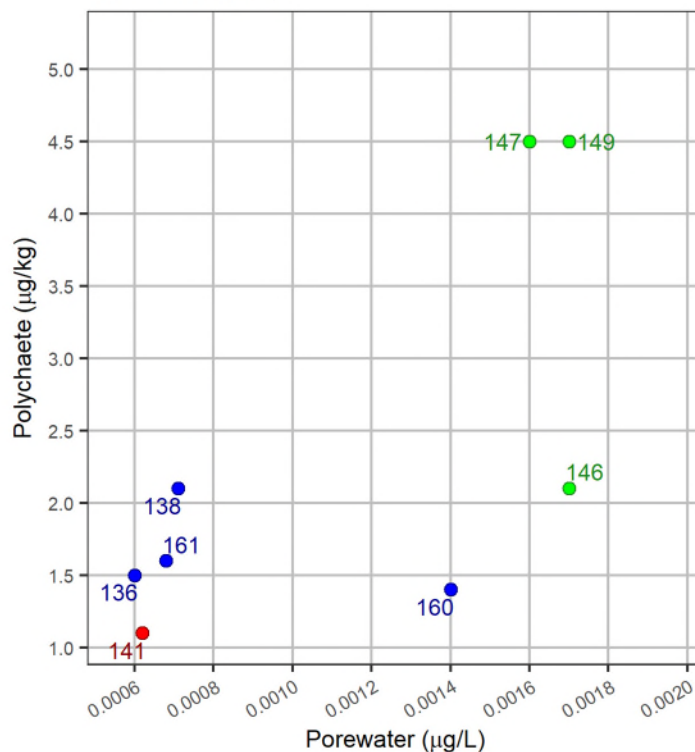
**DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT**

**CONCENTRATIONS OF COPCS IN
LABORATORY EXPOSED POLYCHAETES
VERSUS SEDIMENT AND POREWATER:
PESTICIDES**

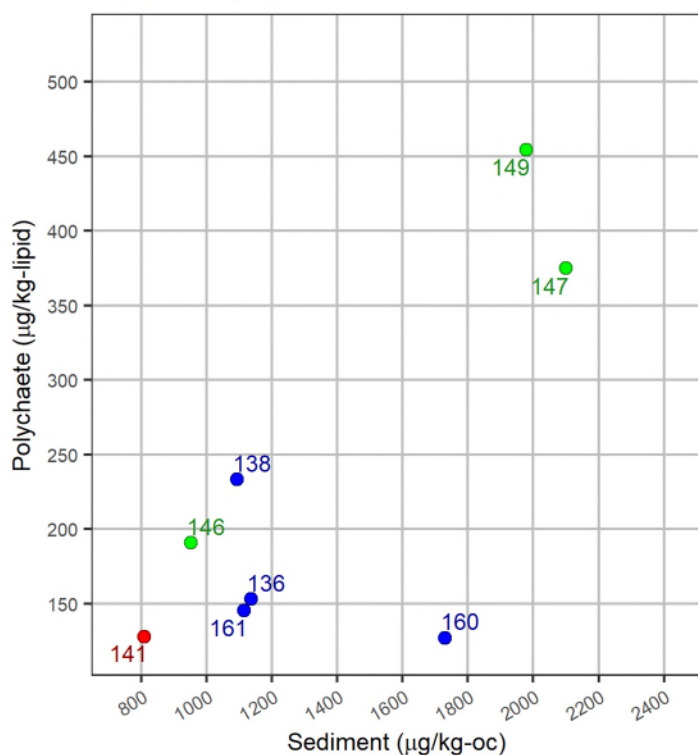
Total DDX (4,4)



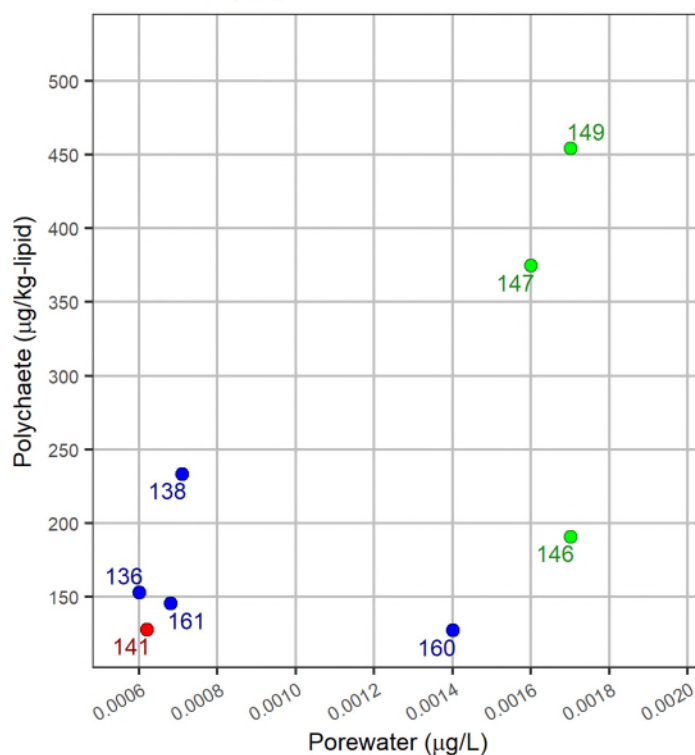
Total DDX (4,4)



Total DDX (4,4)



Total DDX (4,4)



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.

Non-detects plotted at the reporting limit.

Bay Area (color-code)

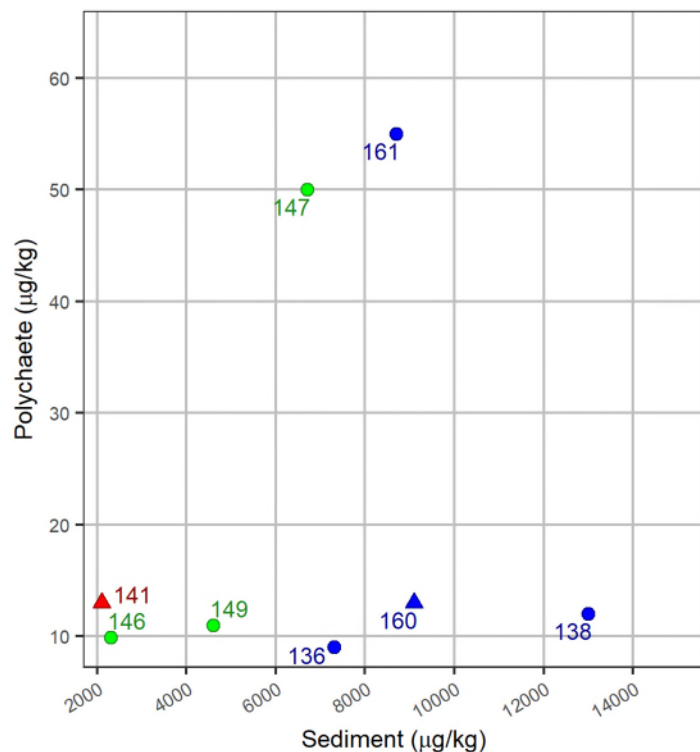
- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

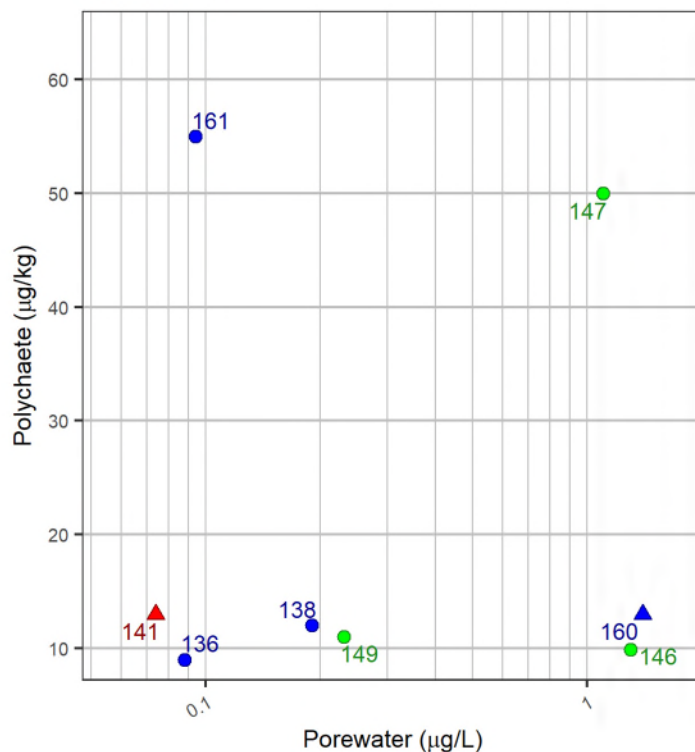
**DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT**

**CONCENTRATIONS OF COPCS IN
LABORATORY EXPOSED POLYCHAETES
VERSUS SEDIMENT AND POREWATER:
PESTICIDES**

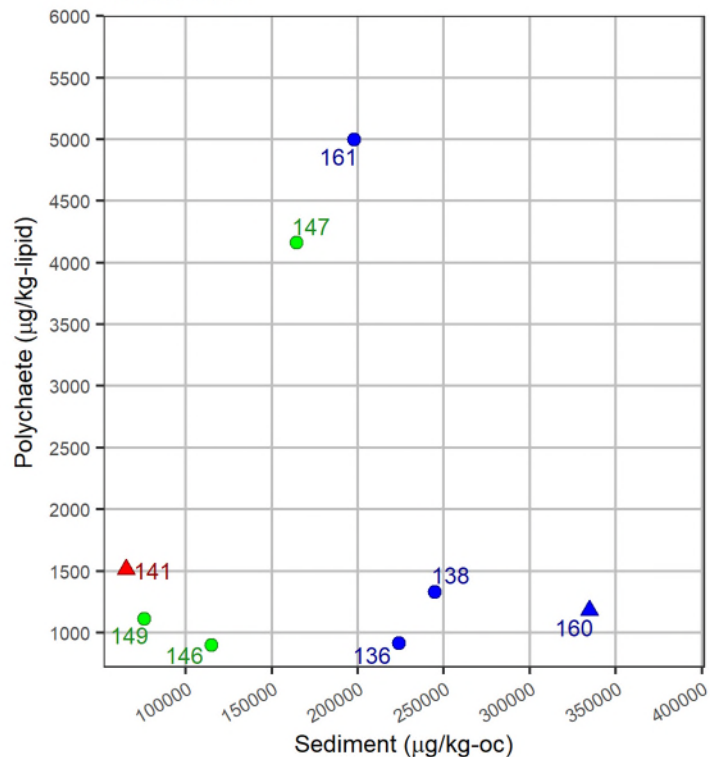
Total PAHs



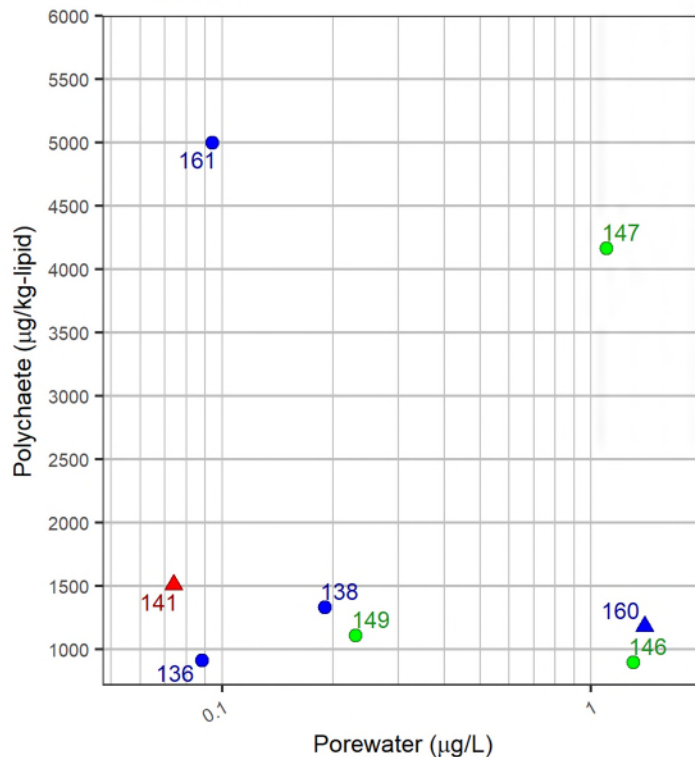
Total PAHs



Total PAHs



Total PAHs



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.
Non-detects plotted at the reporting limit.

Bay Area (color-code)

- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

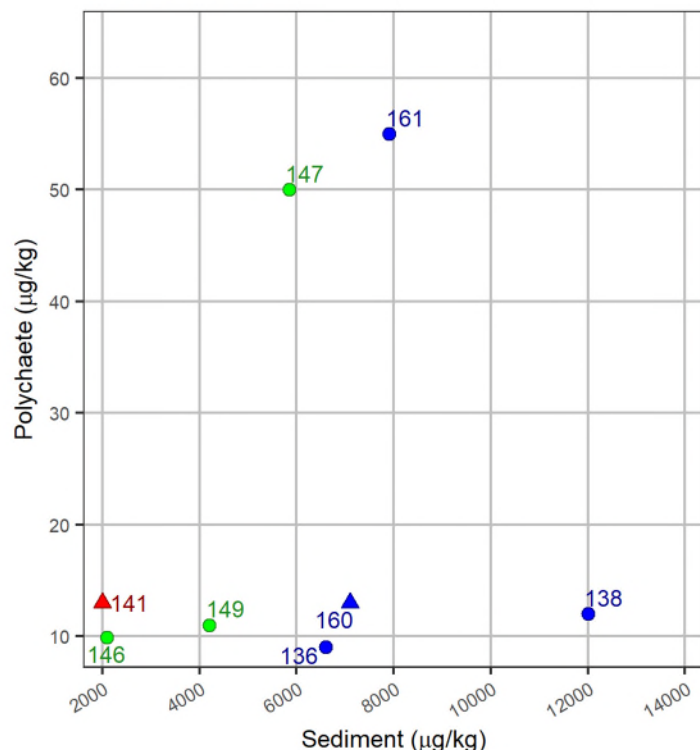
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN
LABORATORY EXPOSED POLYCHAETES
VERSUS SEDIMENT AND POREWATER: PAHS

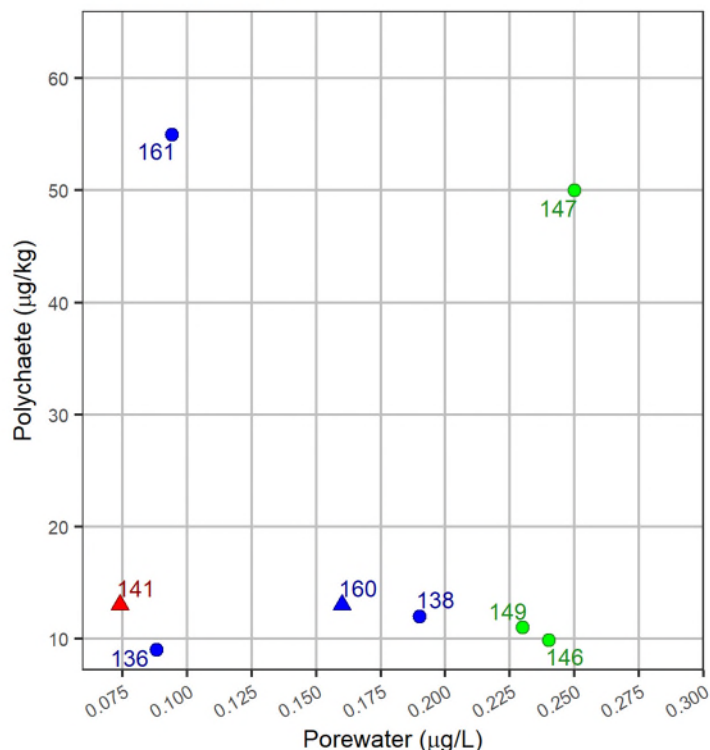
OXY Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
**SED POLY-
3A**

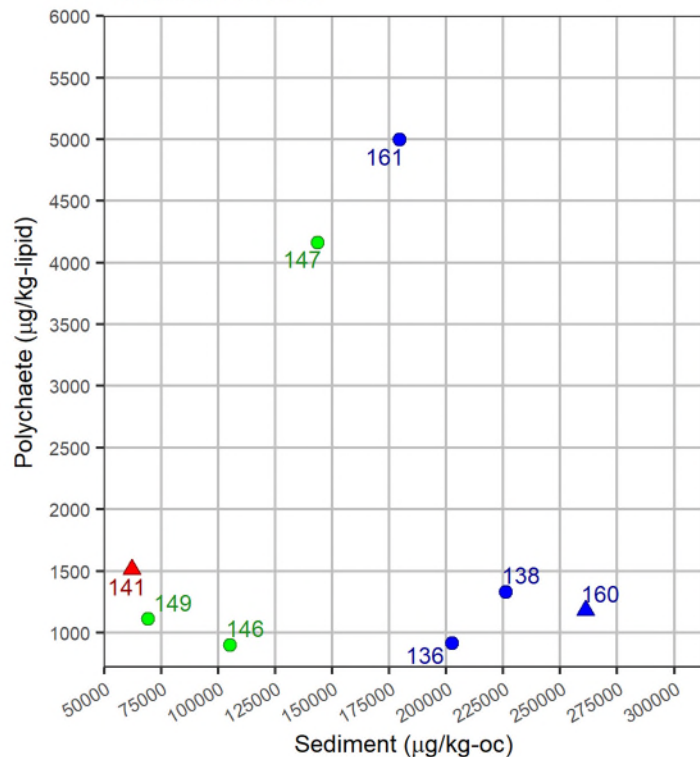
Total HMW PAHs



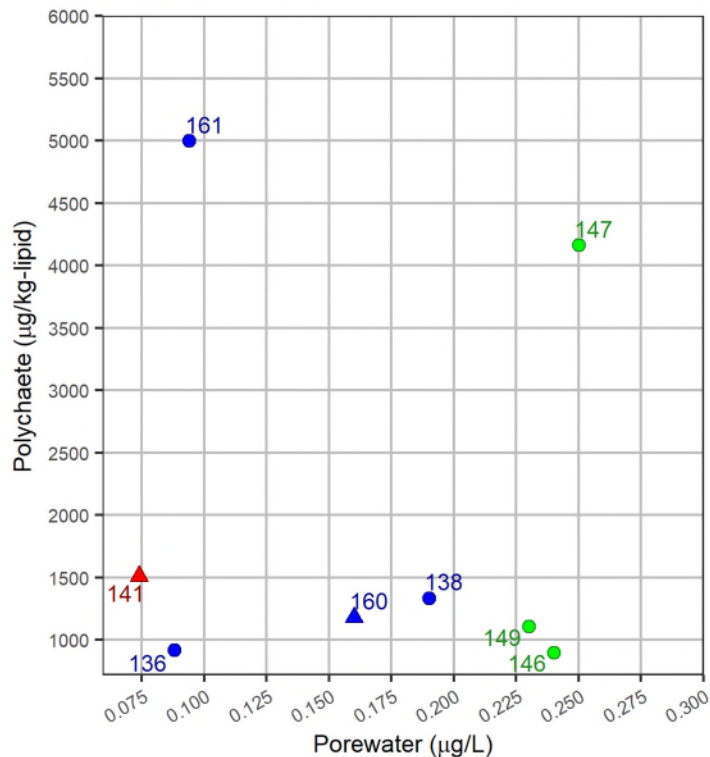
Total HMW PAHs



Total HMW PAHs



Total HMW PAHs



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.

Non-detects plotted at the reporting limit.

Bay Area (color-code)

- North
- Central
- South

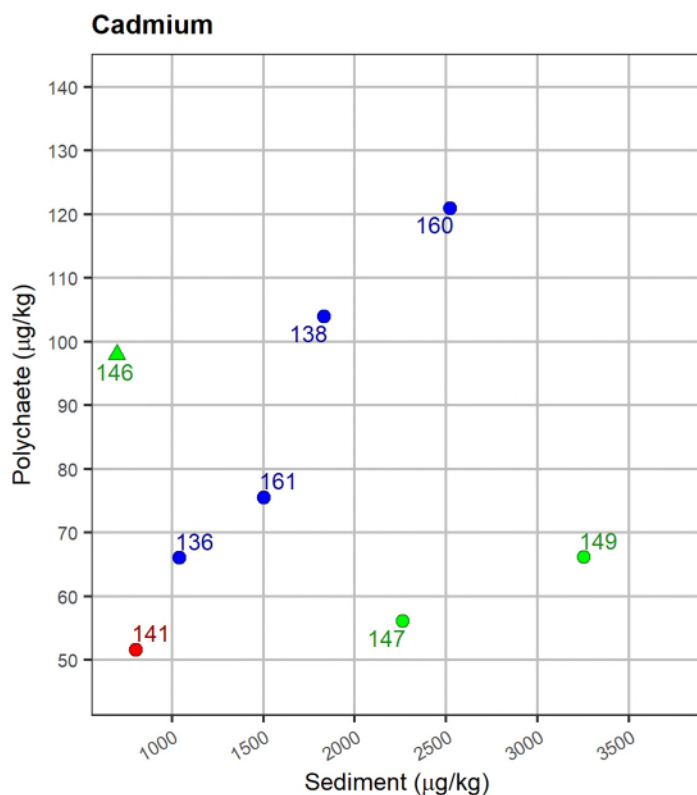
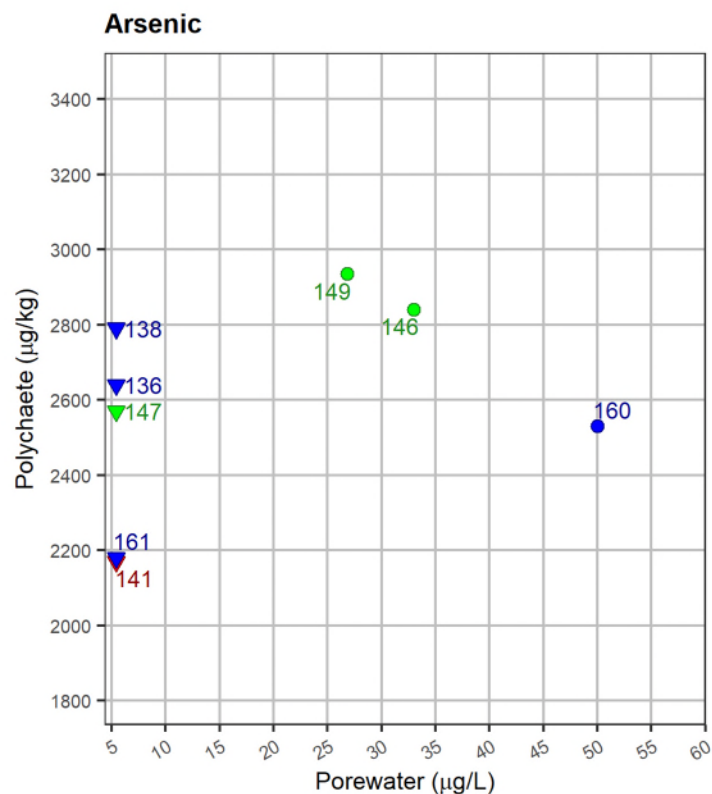
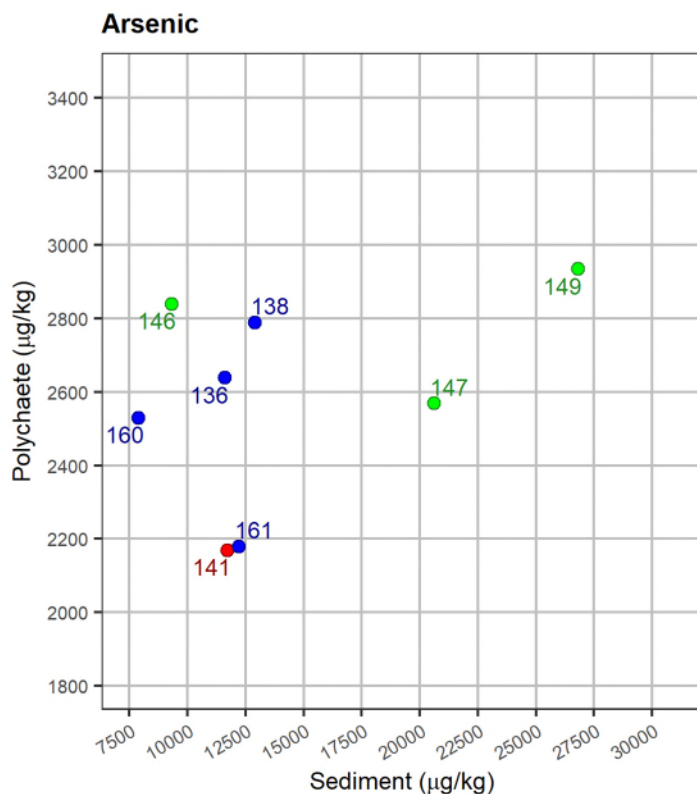
- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN
LABORATORY EXPOSED POLYCHAETES
VERSUS SEDIMENT AND POREWATER: PAHS

OXY Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
**SED POLY-
3B**



Notes:
 For correlation analysis, non-detects included at 1/2 the reporting limit.
 Non-detects plotted at the reporting limit.

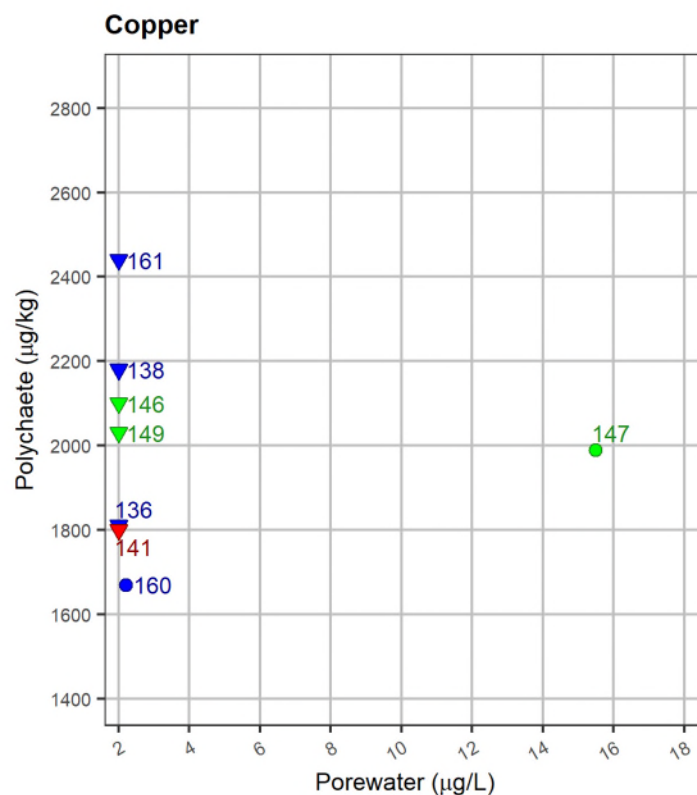
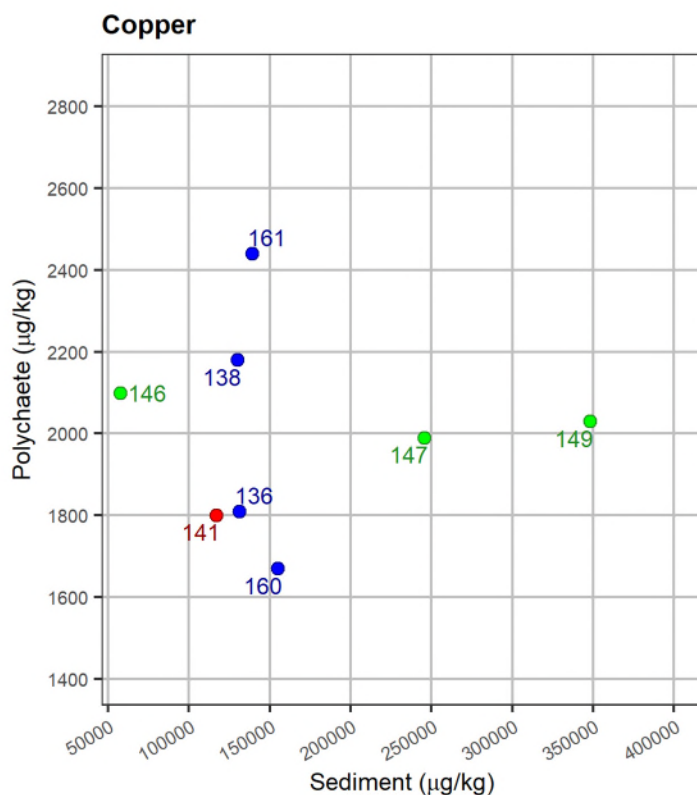
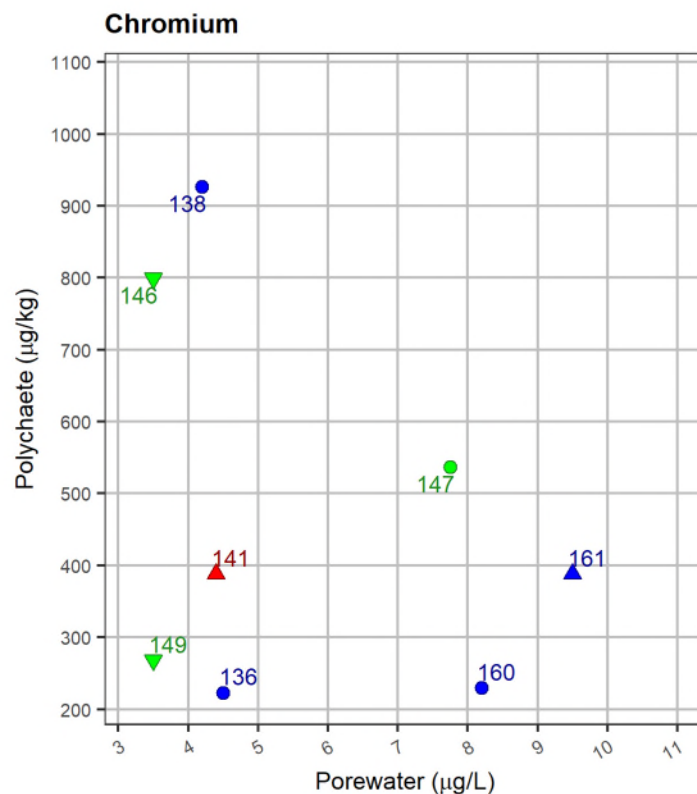
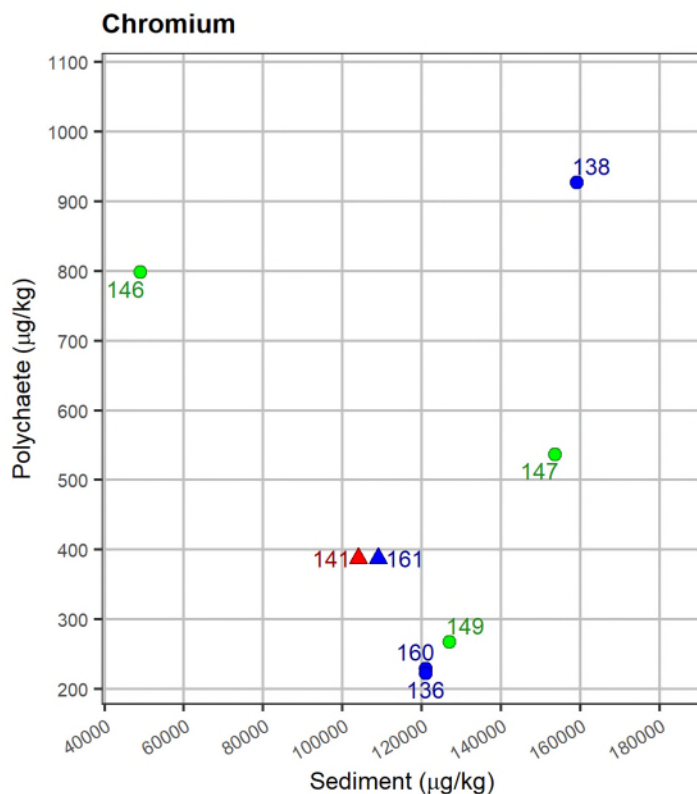
Bay Area (color-code)

- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

DIAMOND ALKALI SUPERFUND SITE NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN LABORATORY EXPOSED POLYCHAETES VERSUS SEDIMENT AND POREWATER: METALS



Notes:
 For correlation analysis, non-detects included at 1/2 the reporting limit.
 Non-detects plotted at the reporting limit.

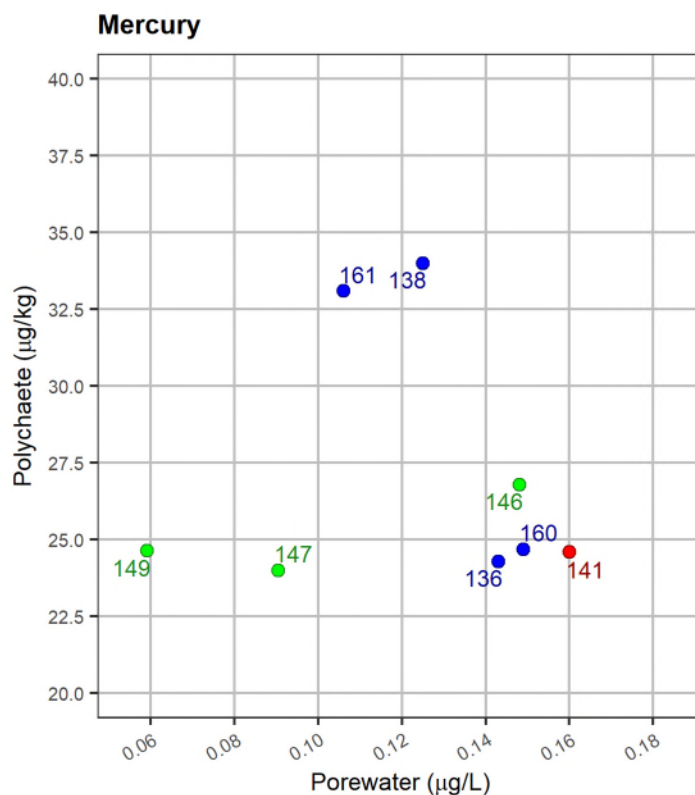
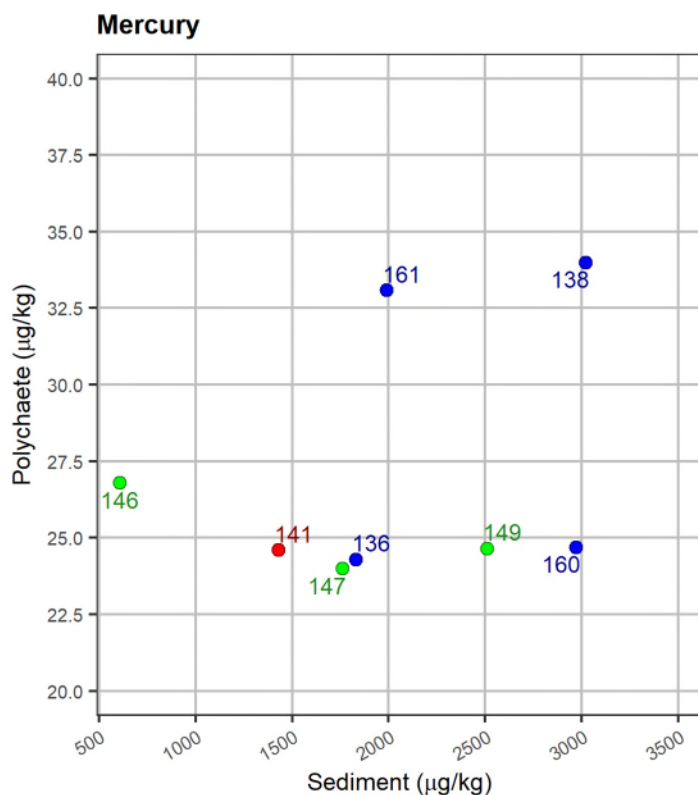
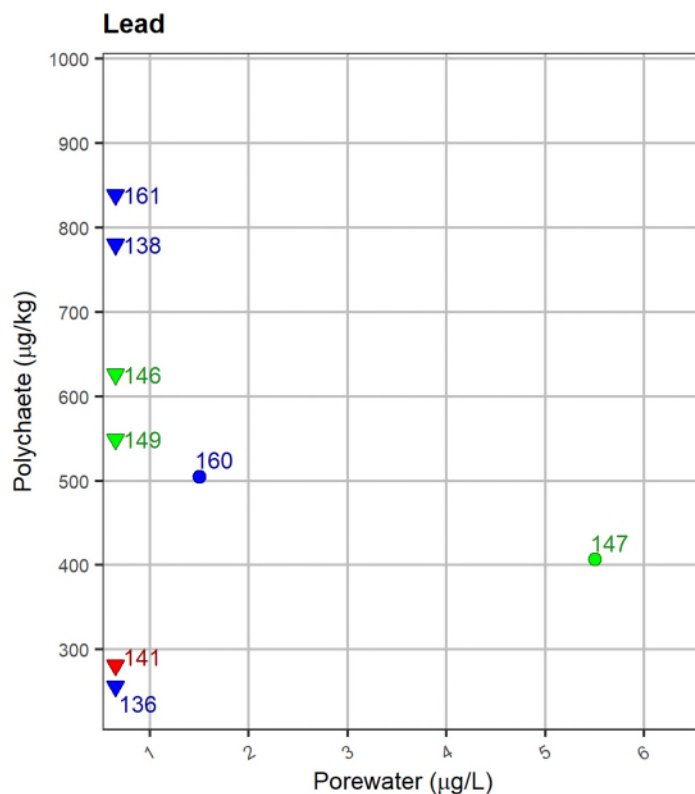
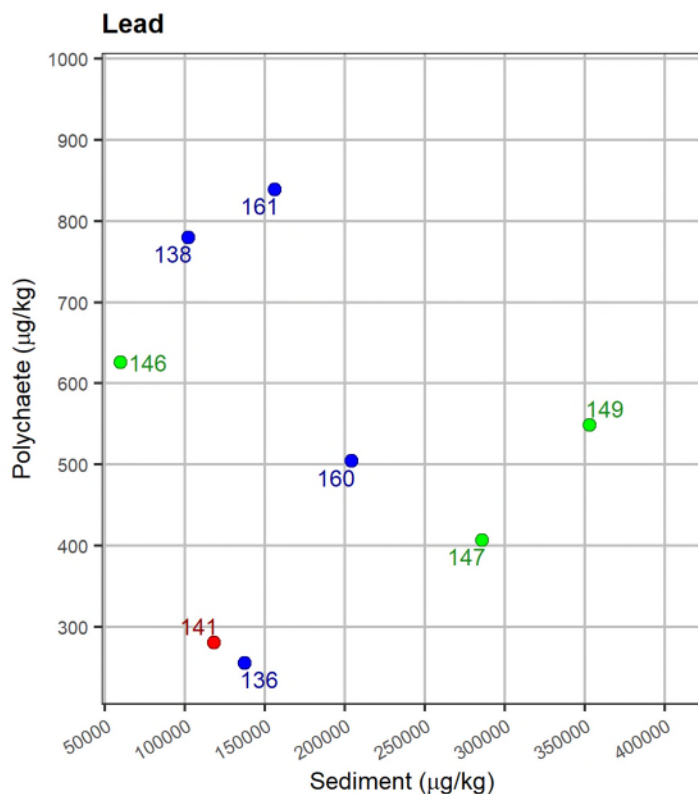
Bay Area (color-code)

- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

DIAMOND ALKALI SUPERFUND SITE NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN LABORATORY EXPOSED POLYCHAETES VERSUS SEDIMENT AND POREWATER: METALS



Notes:
 For correlation analysis, non-detects included at 1/2 the reporting limit.
 Non-detects plotted at the reporting limit.

Bay Area (color-code)

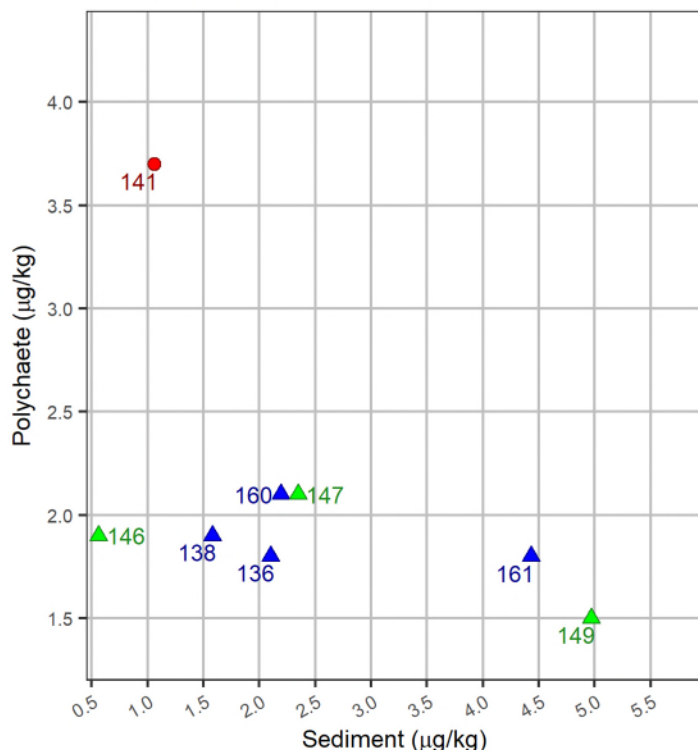
- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

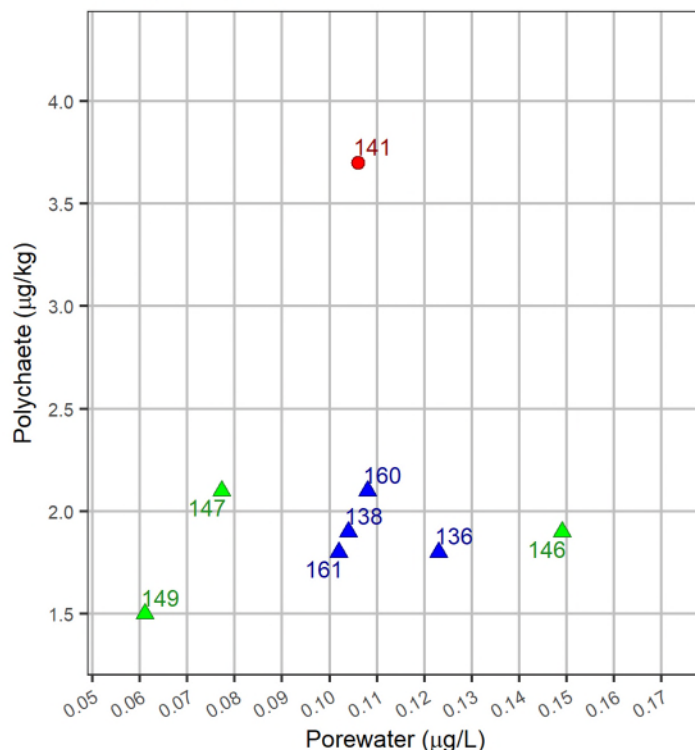
DIAMOND ALKALI SUPERFUND SITE NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN LABORATORY EXPOSED POLYCHAETES VERSUS SEDIMENT AND POREWATER: METALS

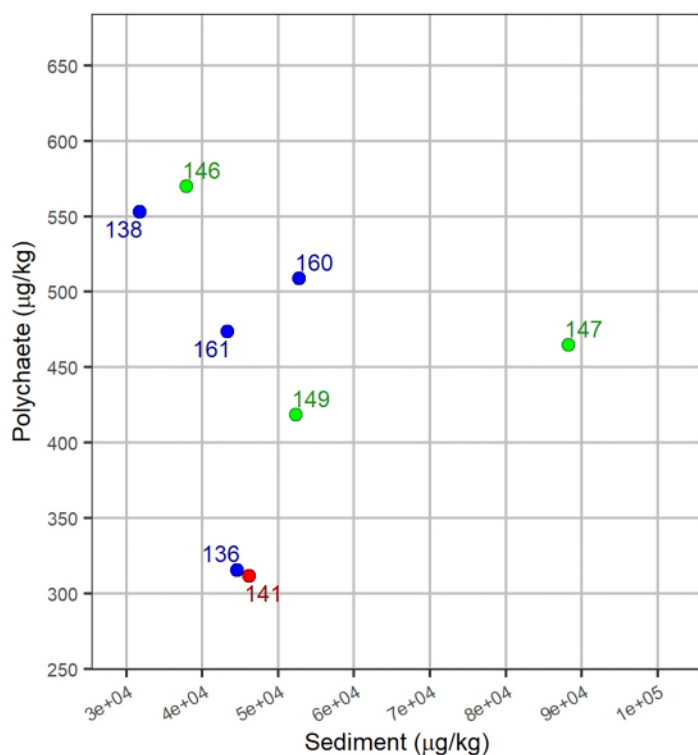
Methyl Mercury



Methyl Mercury



Nickel



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.
Non-detects plotted at the reporting limit.

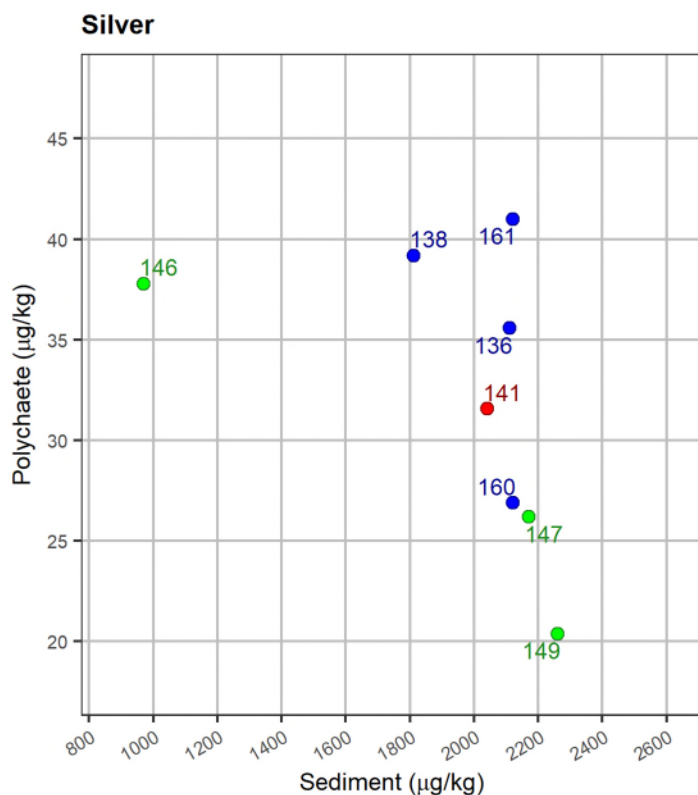
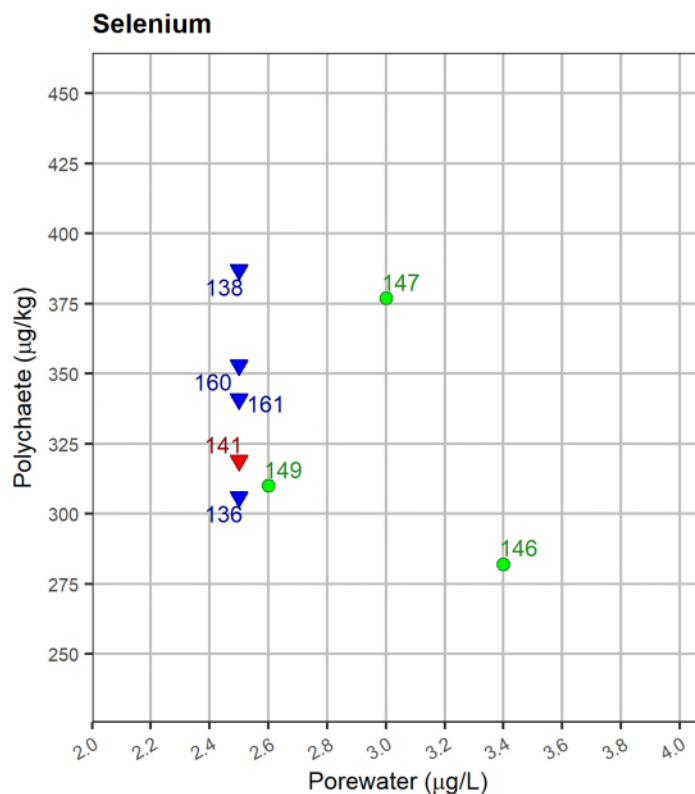
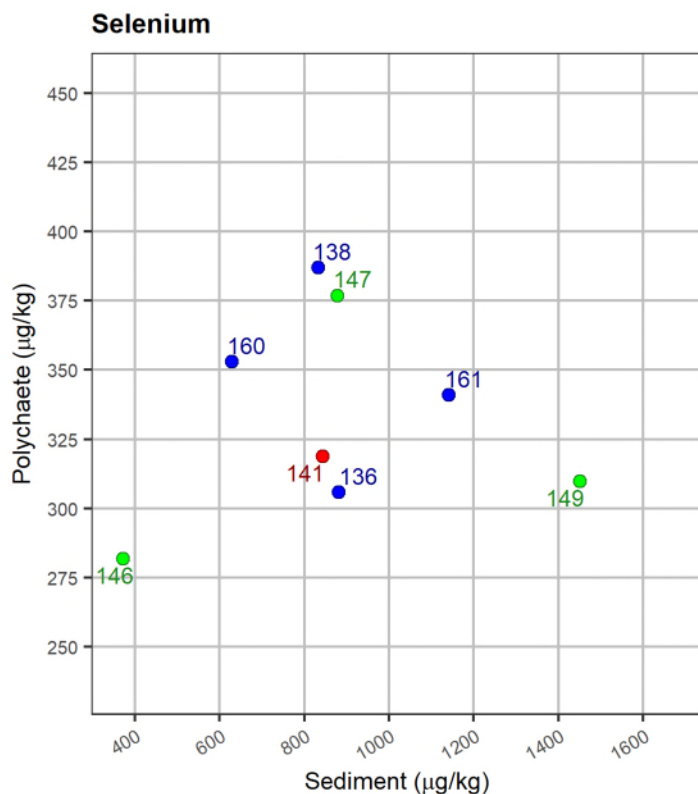
Bay Area (color-code)

- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

DIAMOND ALKALI SUPERFUND SITE NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN LABORATORY EXPOSED POLYCHAETES VERSUS SEDIMENT AND POREWATER: METALS



Notes:
 For correlation analysis, non-detects included at 1/2 the reporting limit.
 Non-detects plotted at the reporting limit.

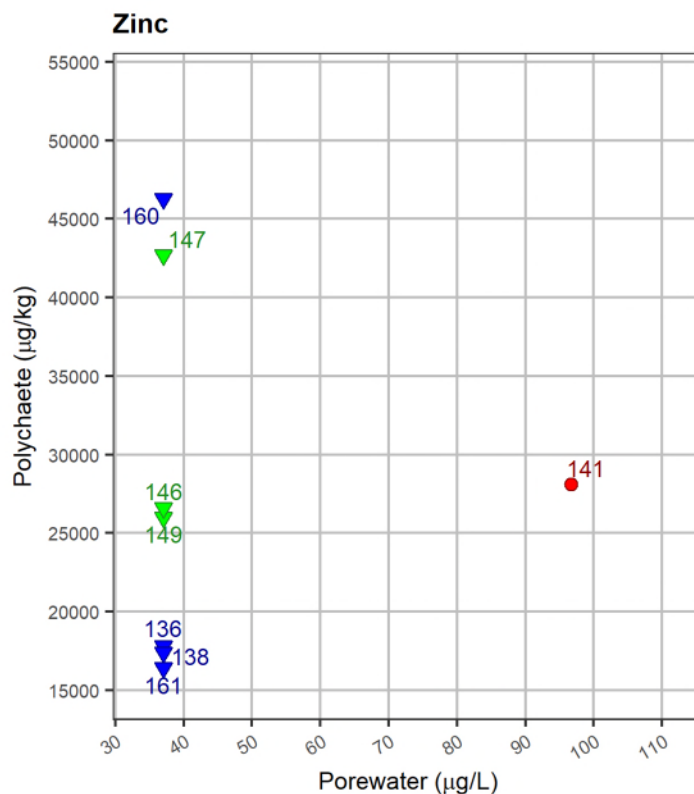
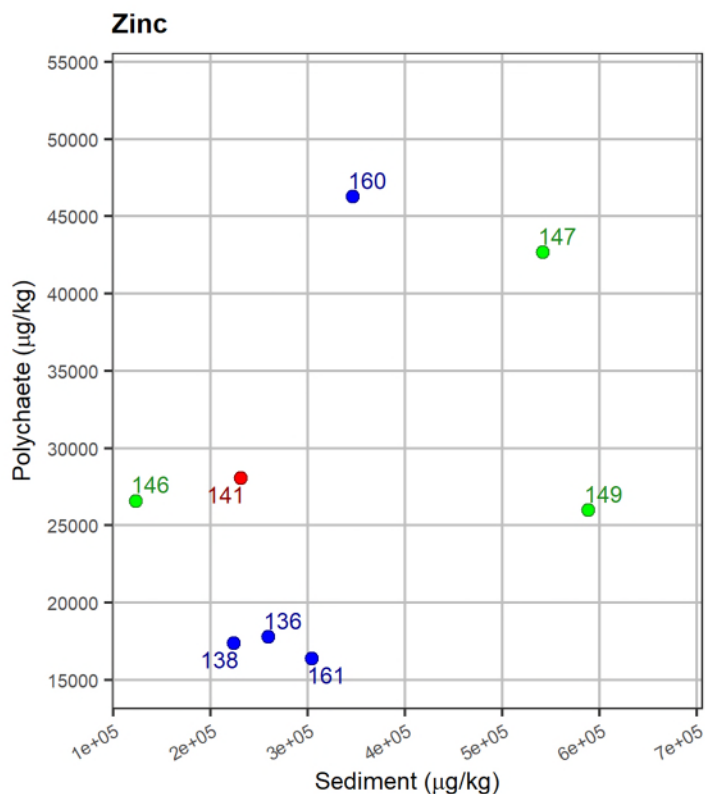
Bay Area (color-code)

- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

DIAMOND ALKALI SUPERFUND SITE NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN LABORATORY EXPOSED POLYCHAETES VERSUS SEDIMENT AND POREWATER: METALS



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.

Non-detects plotted at the reporting limit.

Bay Area (color-code)

- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

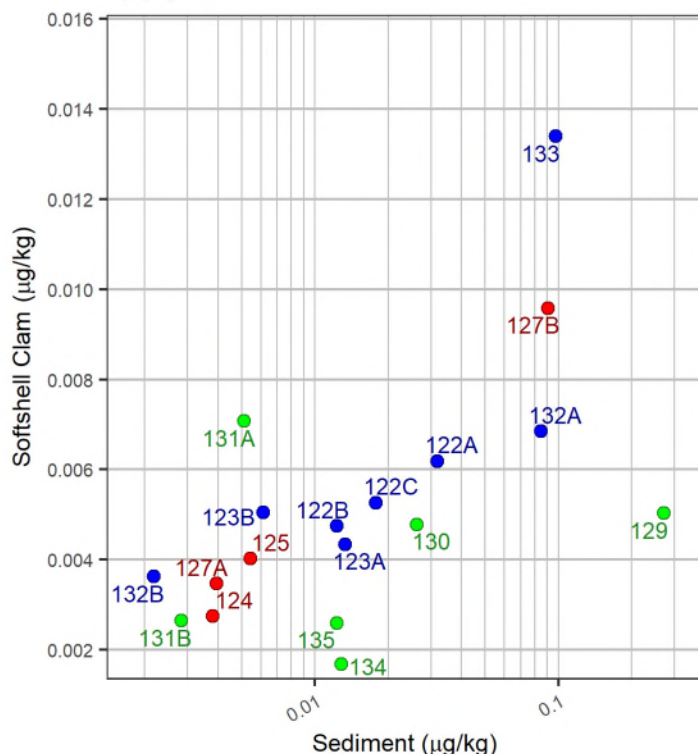
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN
LABORATORY EXPOSED POLYCHAETES
VERSUS SEDIMENT AND POREWATER:
METALS

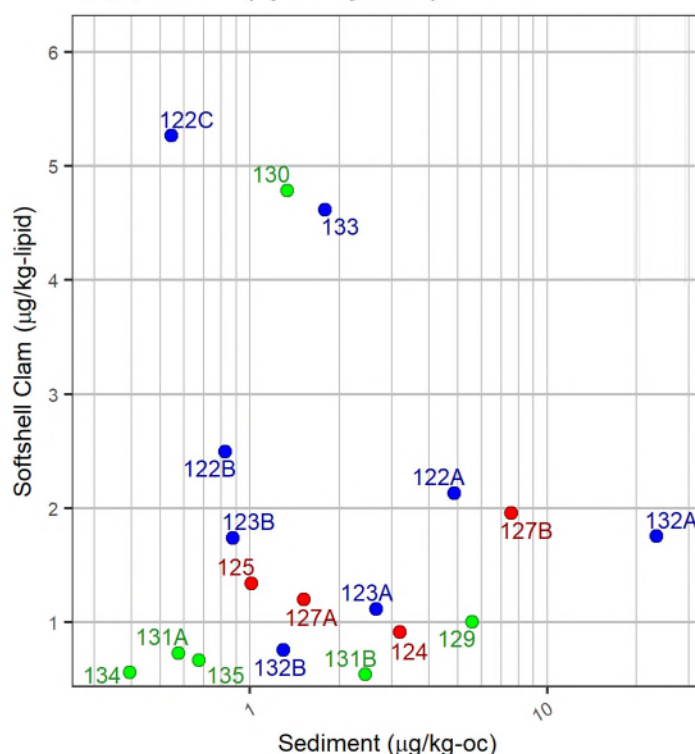


FIGURE
SED POLY-
4F

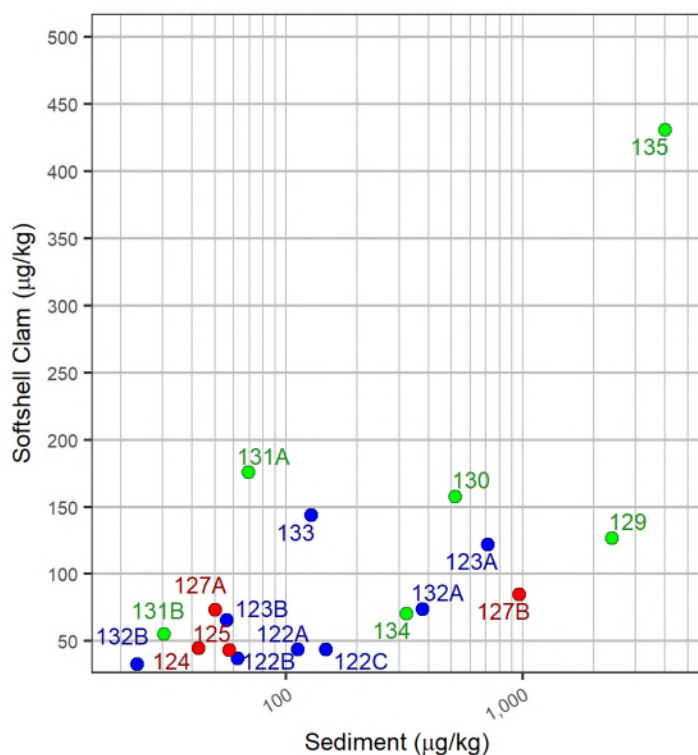
2,3,7,8-TCDD



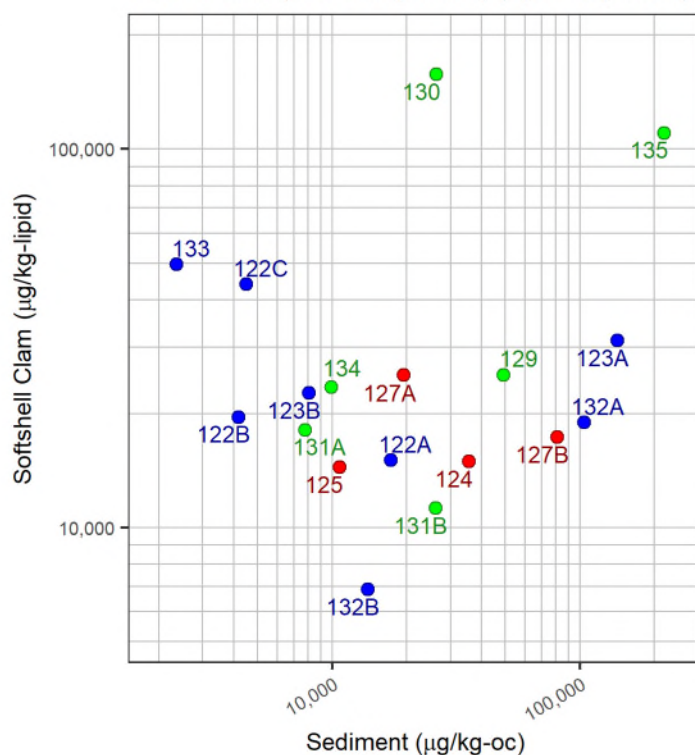
2,3,7,8-TCDD (lipid-adjusted)



Total PCBs (209 Congeners)



Total PCBs (209 Congeners) (lipid-adjusted)



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.
Non-detects plotted at the reporting limit.

Bay Area (color-code)

- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

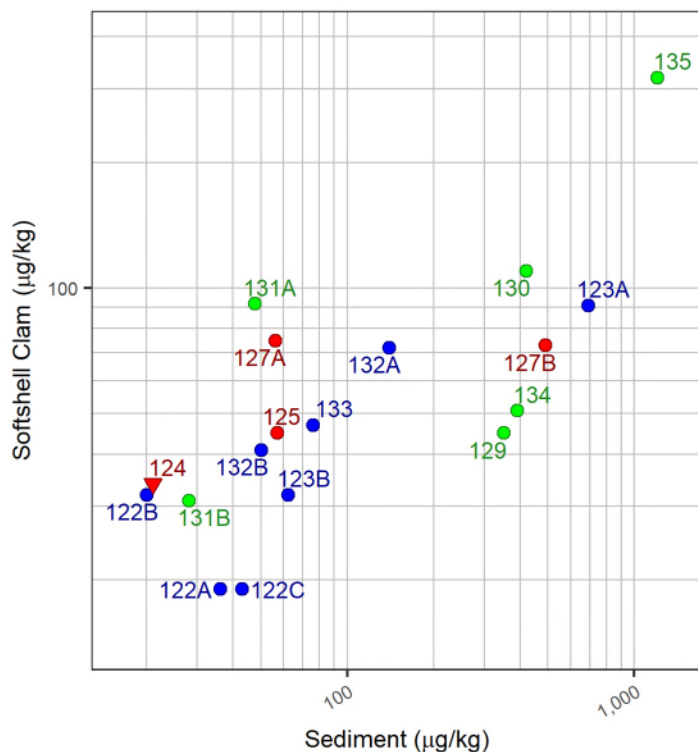
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN
SOFTSHELL CLAMS VERSUS SEDIMENT:
DIOXINS/FURANS & PCBs

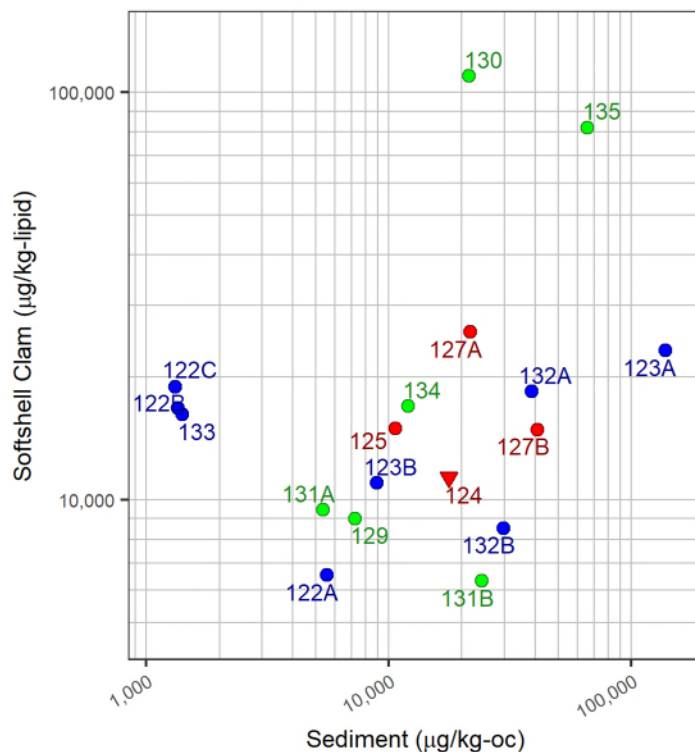
OXY Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
CLAM
SED-1A

Total PCBs (9 Aroclors)



Total PCBs (9 Aroclors) (lipid-adjusted)



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.

Non-detects plotted at the reporting limit.

Bay Area (color-code)

- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

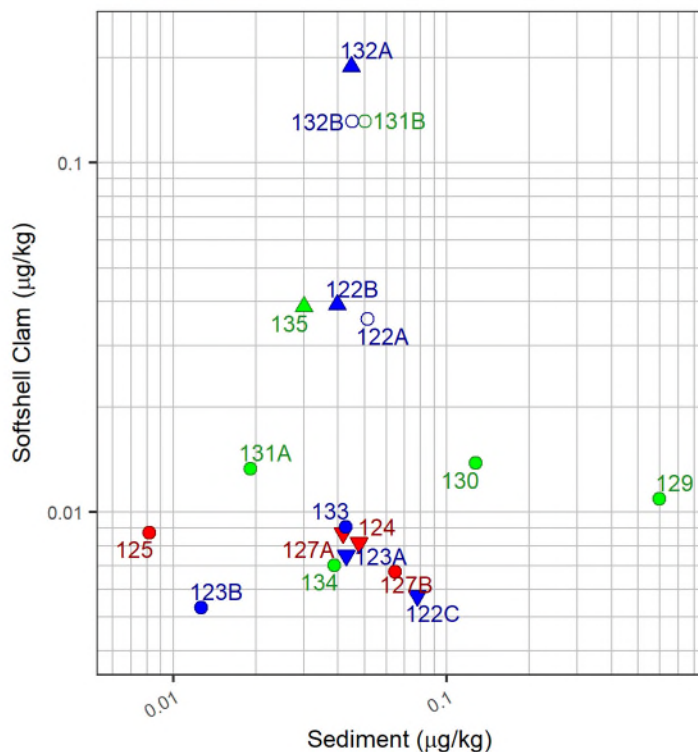
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN
SOFTSHELL CLAMS VERSUS SEDIMENT:
DIOXINS/FURANS & PCBs

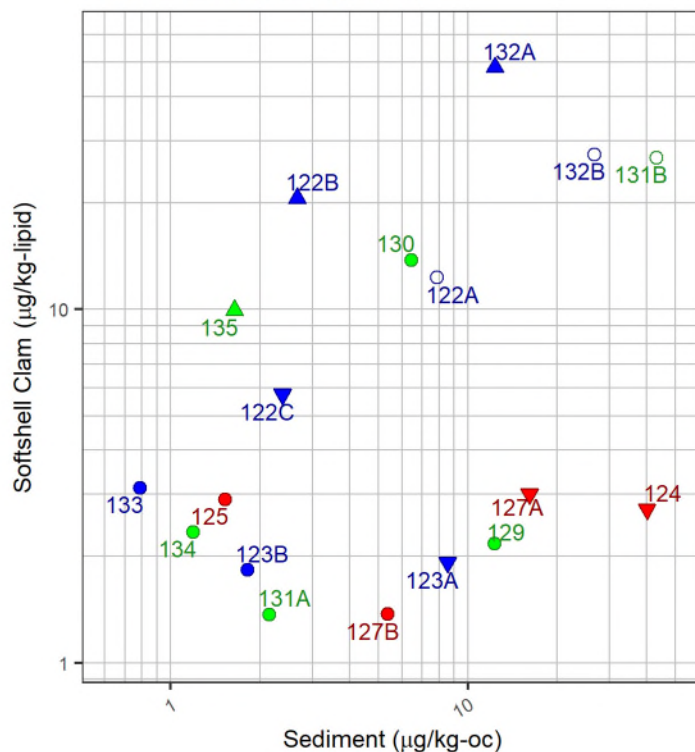


FIGURE
CLAM
SED-1B

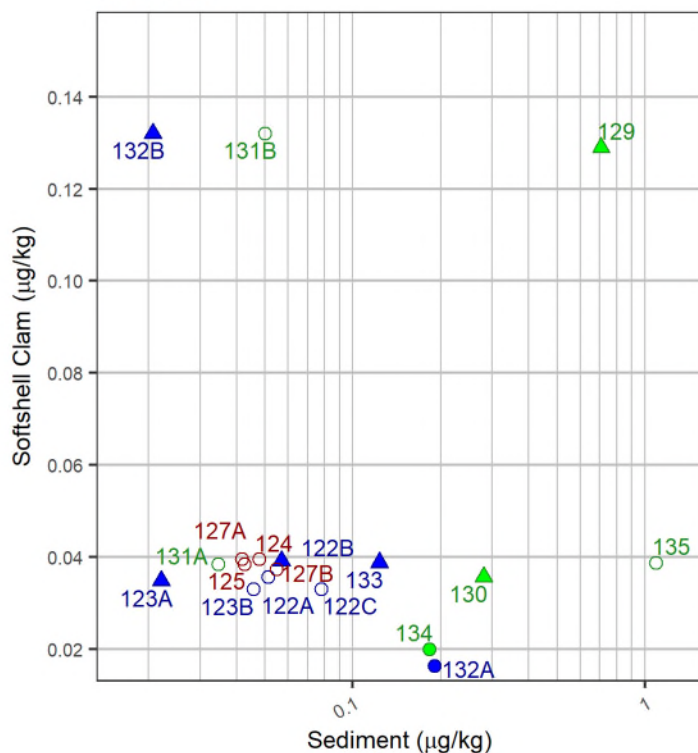
Alpha-BHC



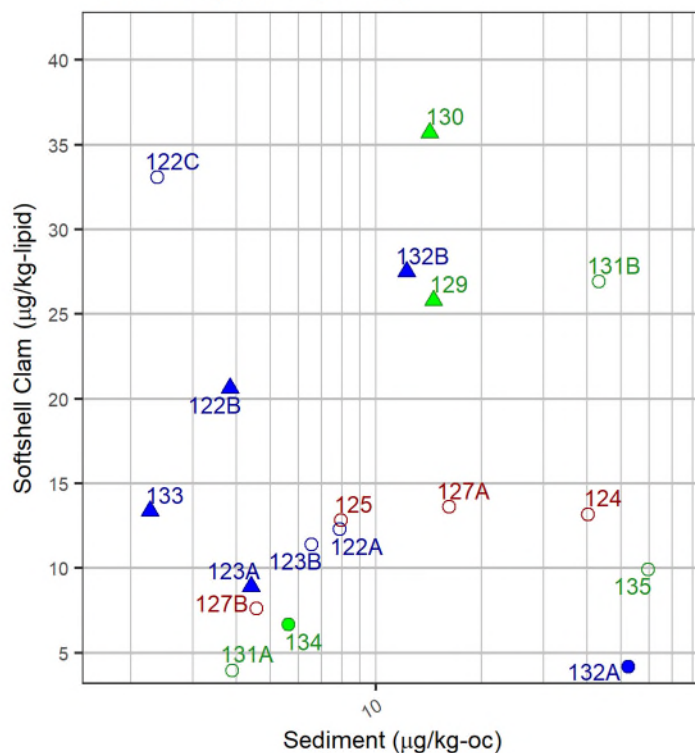
Alpha-BHC (lipid-adjusted)



Beta-BHC



Beta-BHC (lipid-adjusted)



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.
Non-detects plotted at the reporting limit.

Bay Area (color-code)

- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

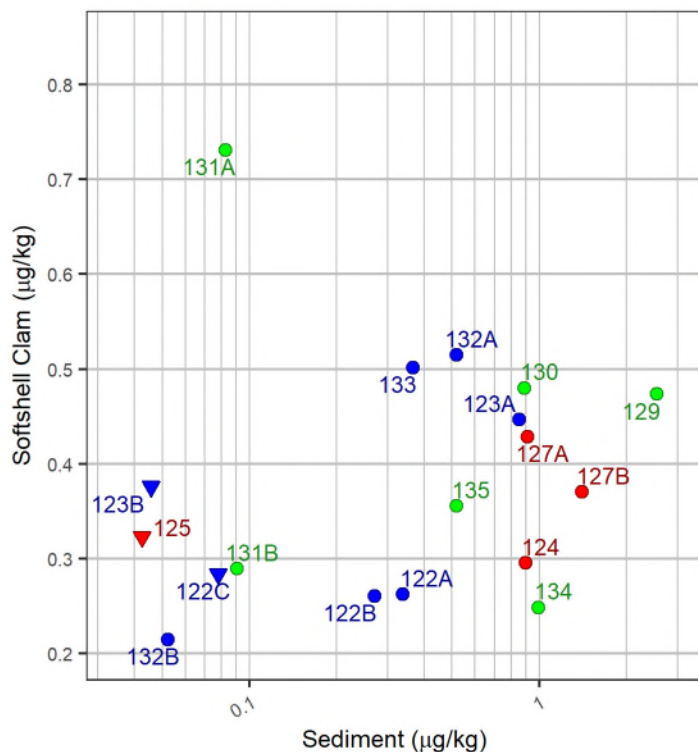
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN
SOFTSHELL CLAMS VERSUS SEDIMENT:
PESTICIDES

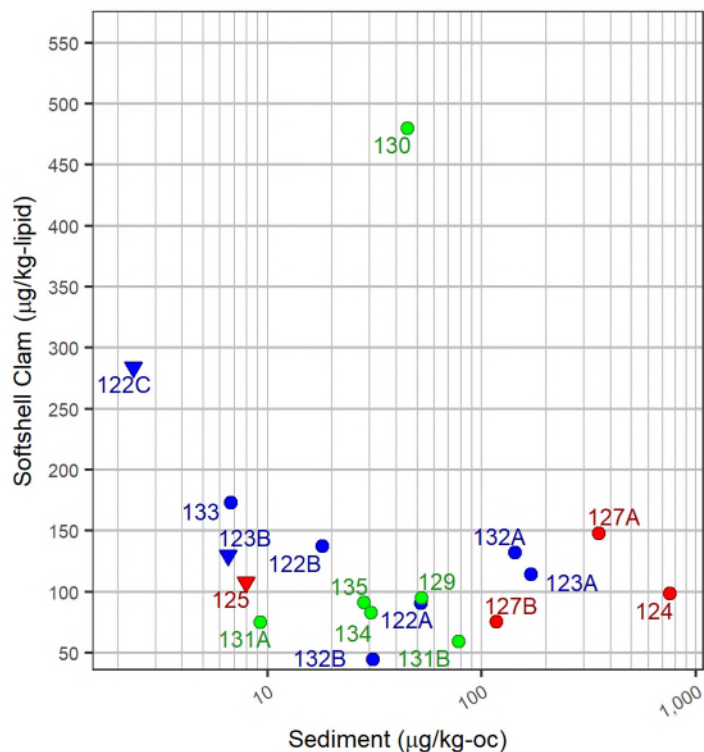
OXY Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
CLAM
SED-2A

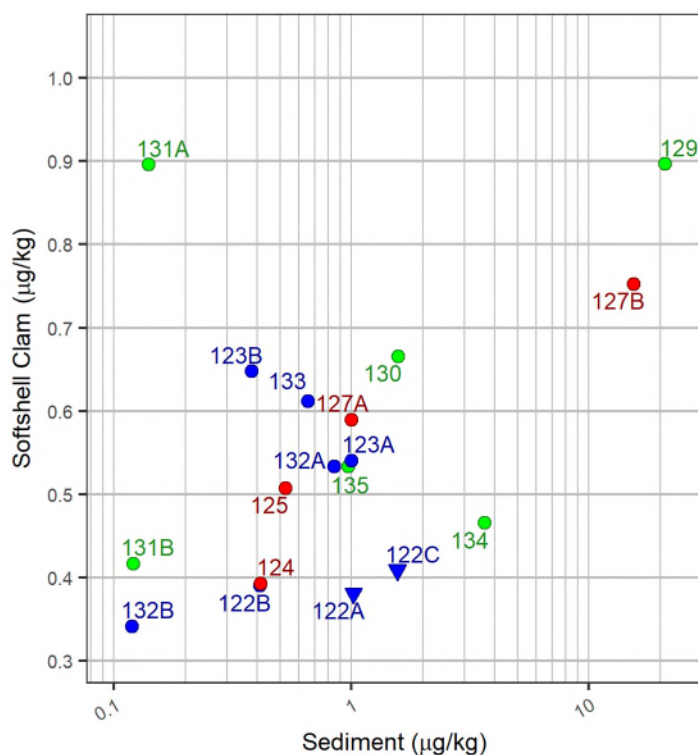
Cis-Nonachlor



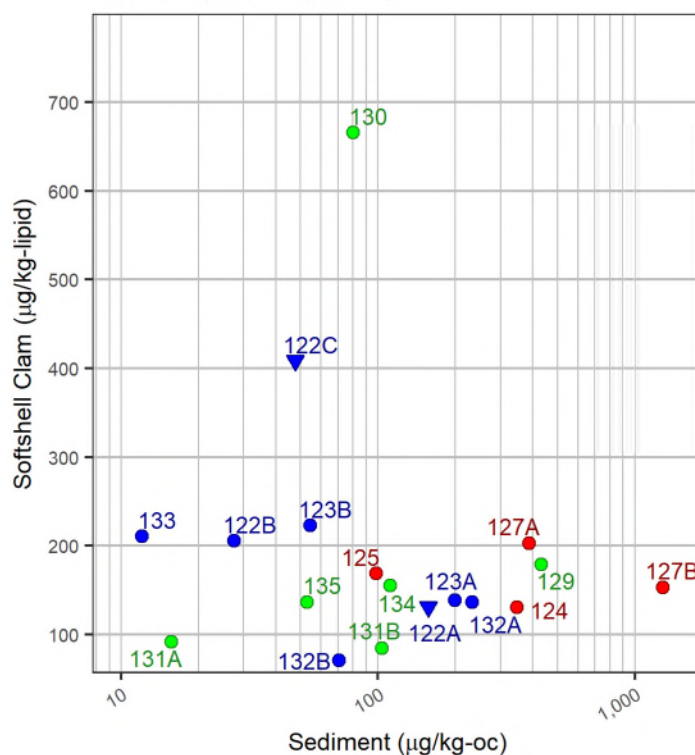
Cis-Nonachlor (lipid-adjusted)



Dieldrin



Dieldrin (lipid-adjusted)



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.
Non-detects plotted at the reporting limit.

Bay Area (color-code)

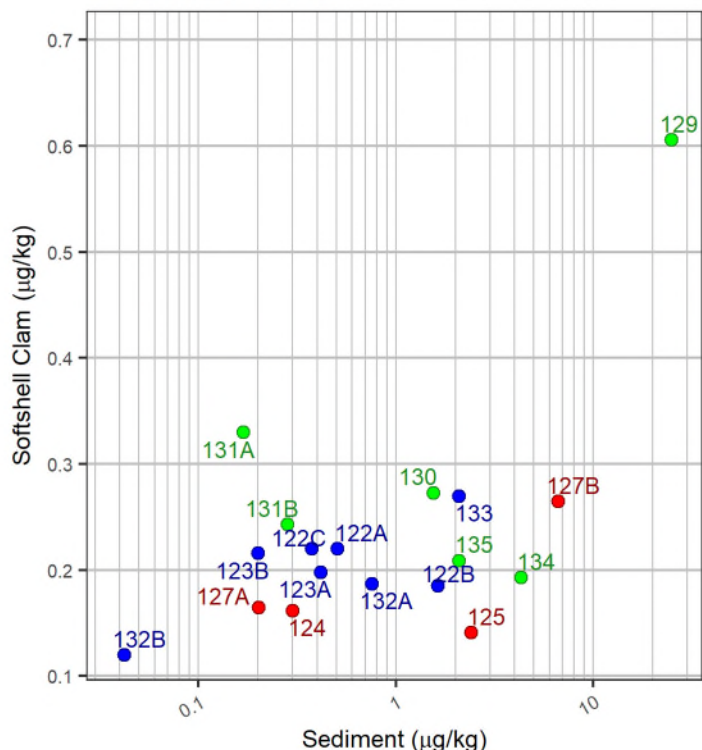
- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

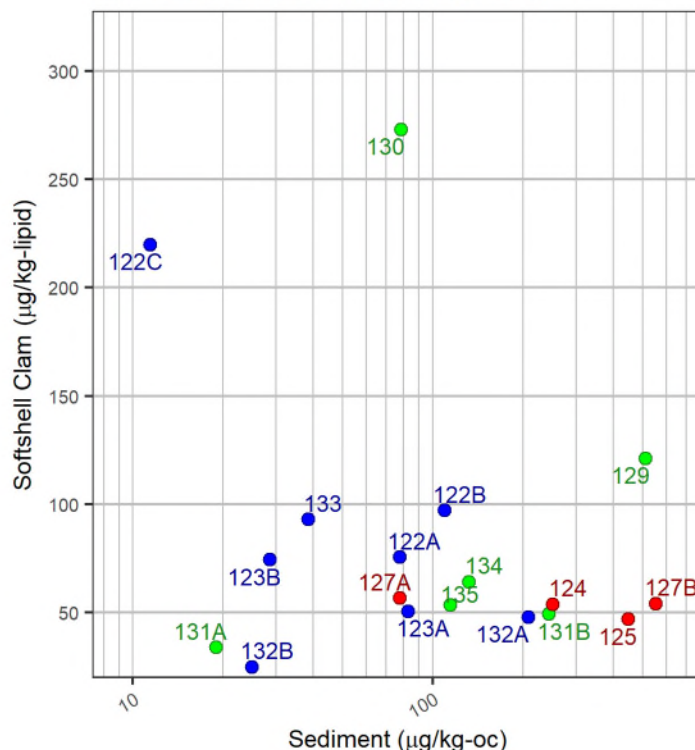
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN
SOFTSHELL CLAMS VERSUS SEDIMENT:
PESTICIDES

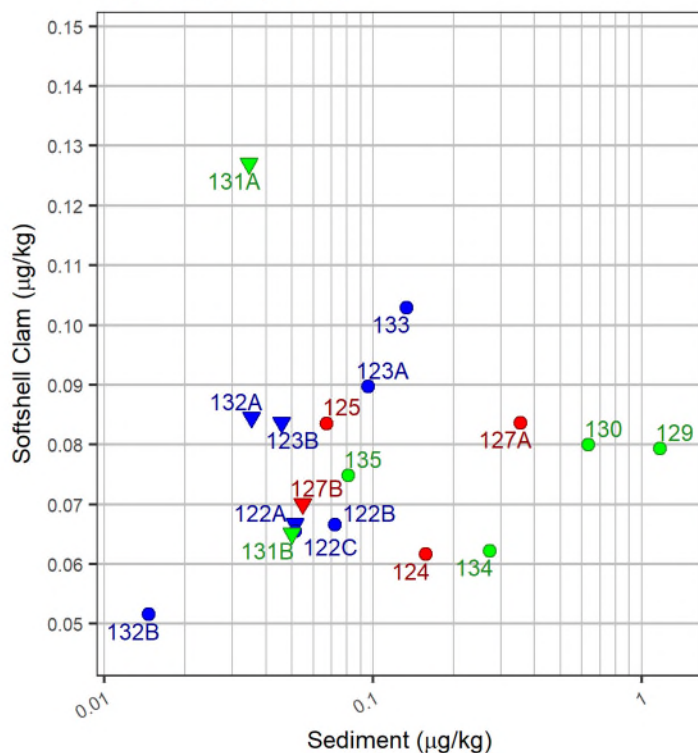
Hexachlorobenzene



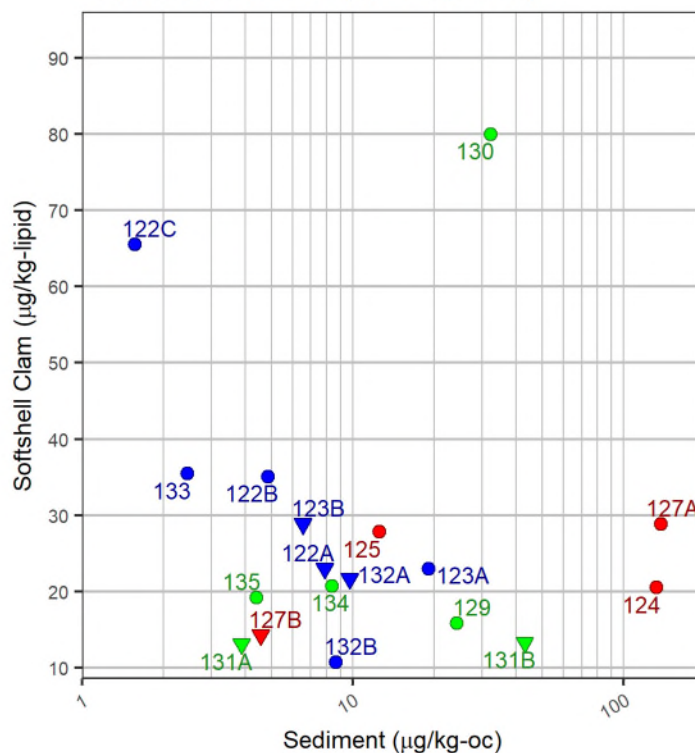
Hexachlorobenzene (lipid-adjusted)



Heptachlor Epoxide



Heptachlor Epoxide (lipid-adjusted)



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.
Non-detects plotted at the reporting limit.

Bay Area (color-code)

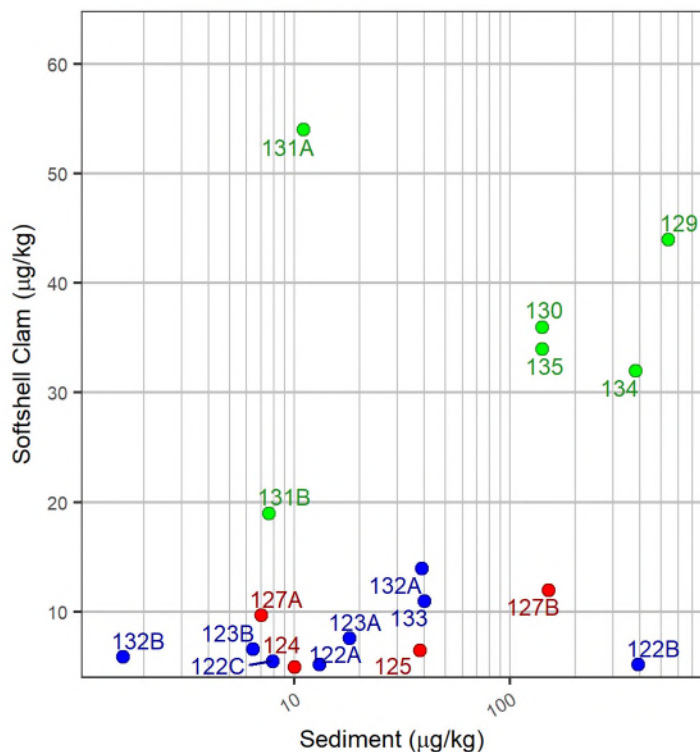
- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

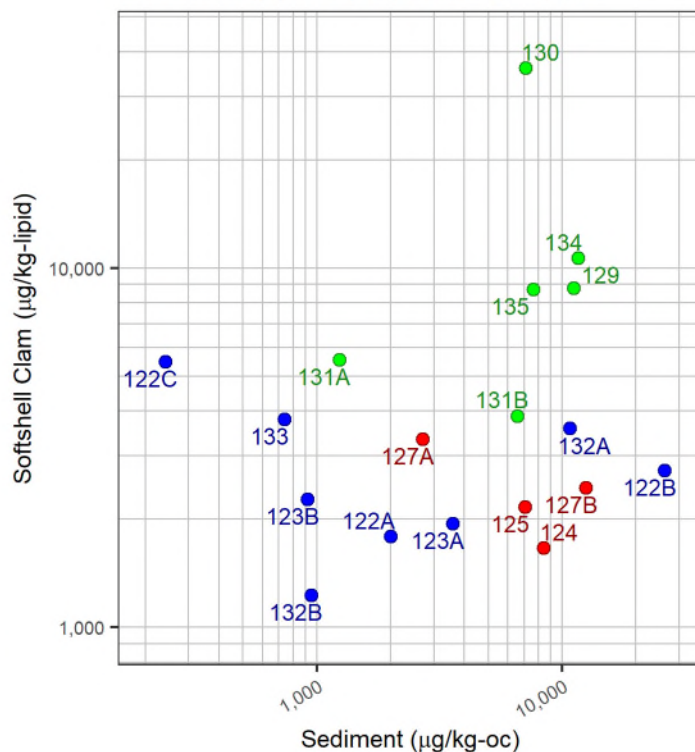
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN
SOFTSHELL CLAMS VERSUS SEDIMENT:
PESTICIDES

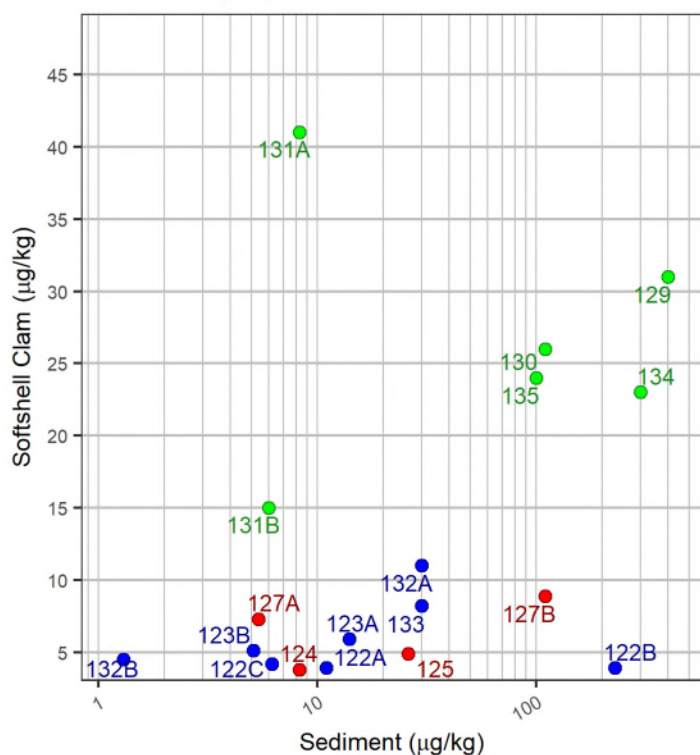
Total DDX (2,4 & 4,4)



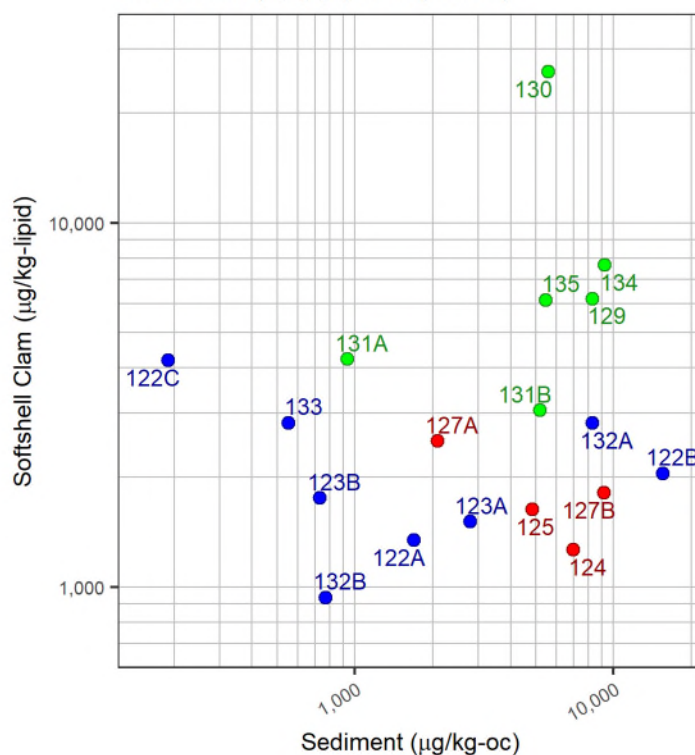
Total DDX (2,4 & 4,4) (lipid-adjusted)



Total DDX (4,4)



Total DDX (4,4) (lipid-adjusted)



Notes:
For correlation analysis, non-detects included at 1/2 the reporting limit.
Non-detects plotted at the reporting limit.

Bay Area (color-code)

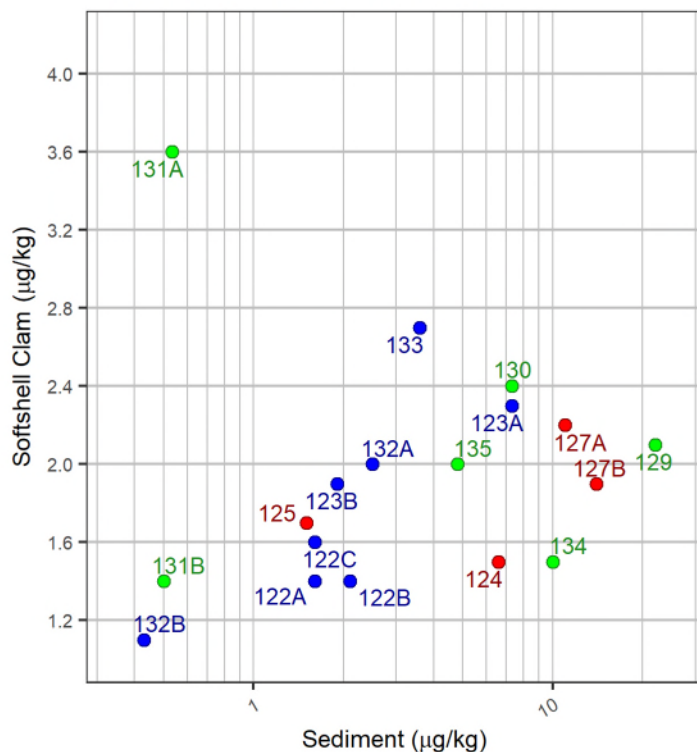
- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

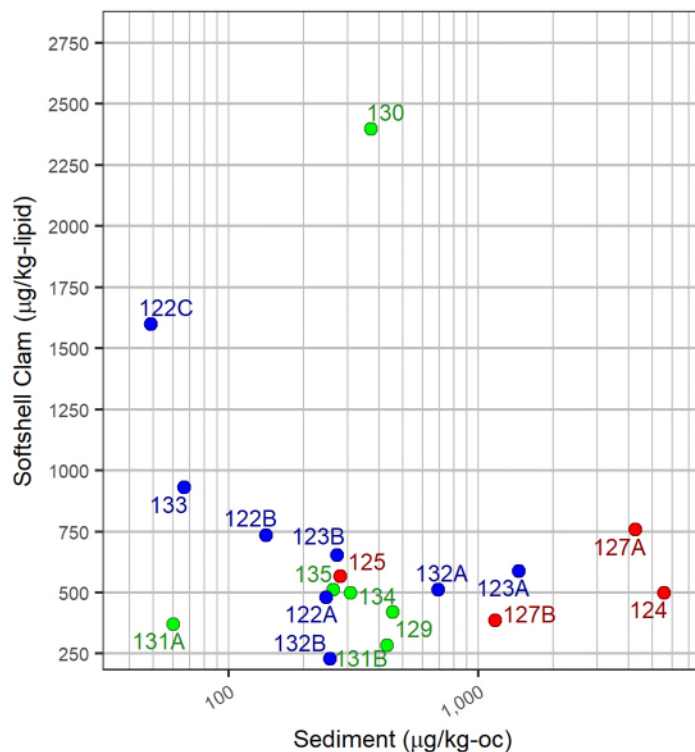
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

**CONCENTRATIONS OF COPCS IN
SOFTSHELL CLAMS VERSUS SEDIMENT:
PESTICIDES**

Total Alpha + Gamma Chlordane



Total Alpha + Gamma Chlordane (lipid-adjusted)



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.
Non-detects plotted at the reporting limit.

Bay Area (color-code)

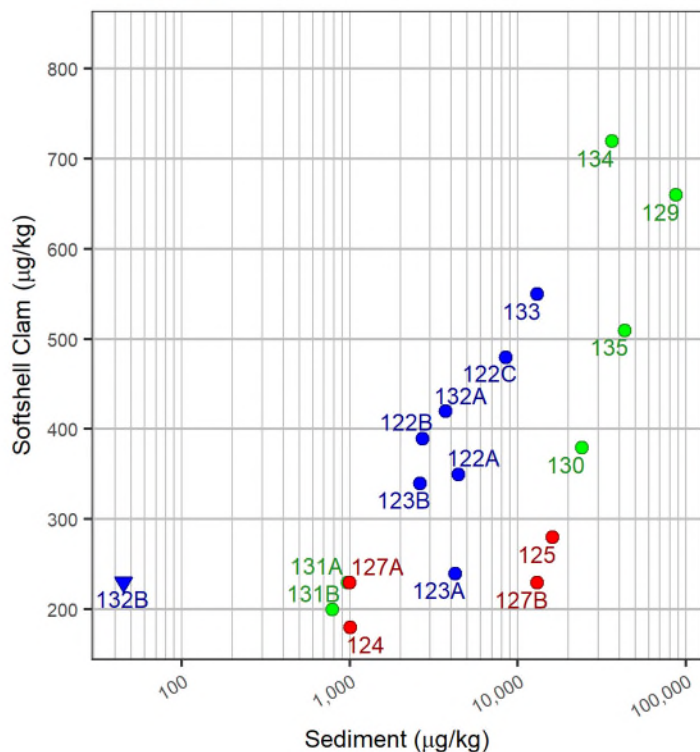
- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

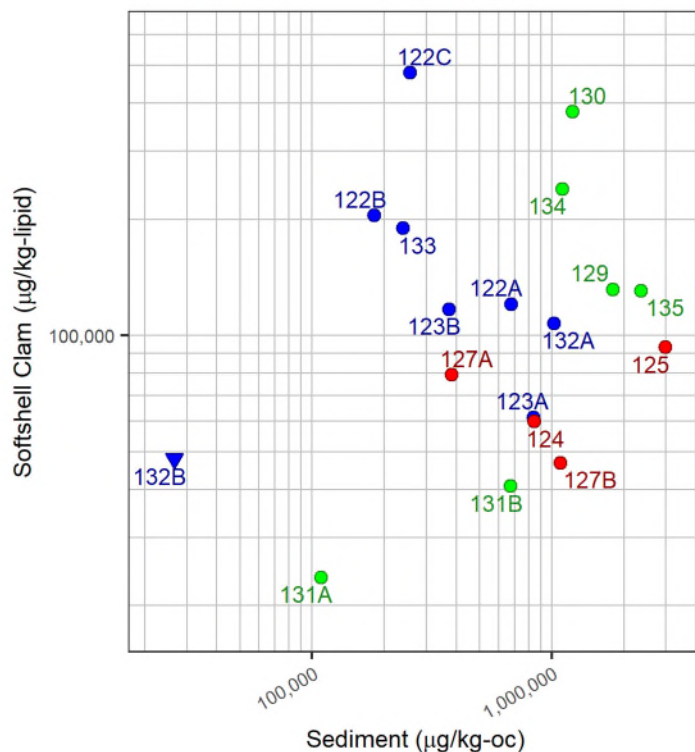
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN
SOFTSHELL CLAMS VERSUS SEDIMENT:
PESTICIDES

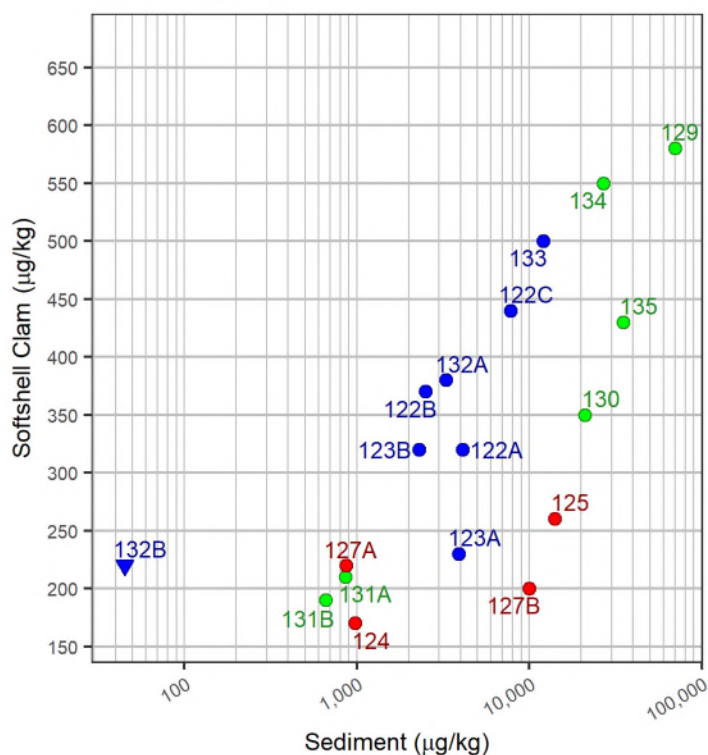
Total PAHs



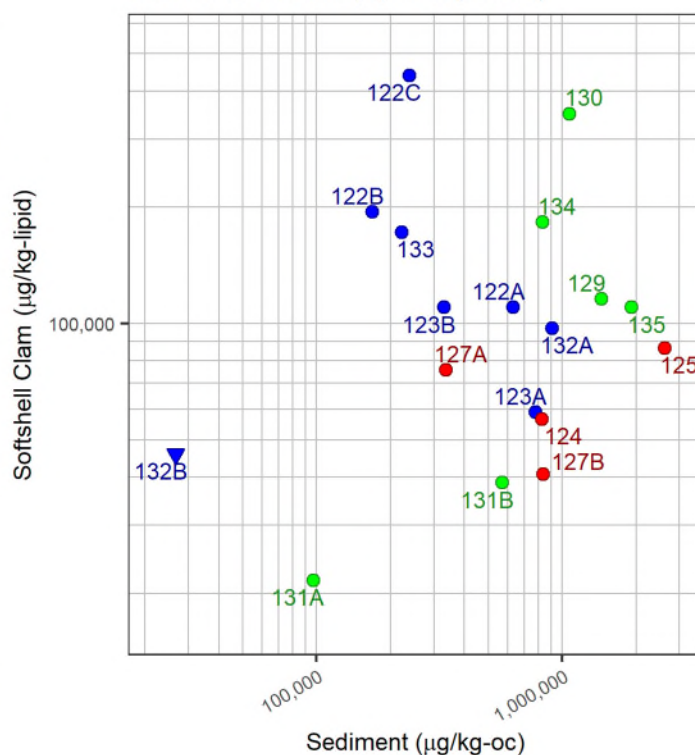
Total PAHs (lipid-adjusted)



Total HMW PAHs



Total HMW PAHs (lipid-adjusted)



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.

Non-detects plotted at the reporting limit.

Bay Area (color-code)

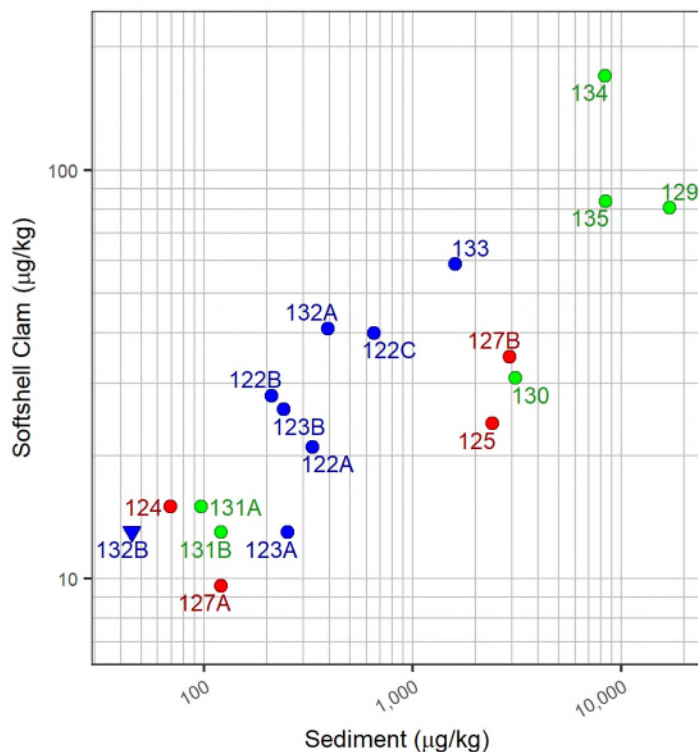
- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

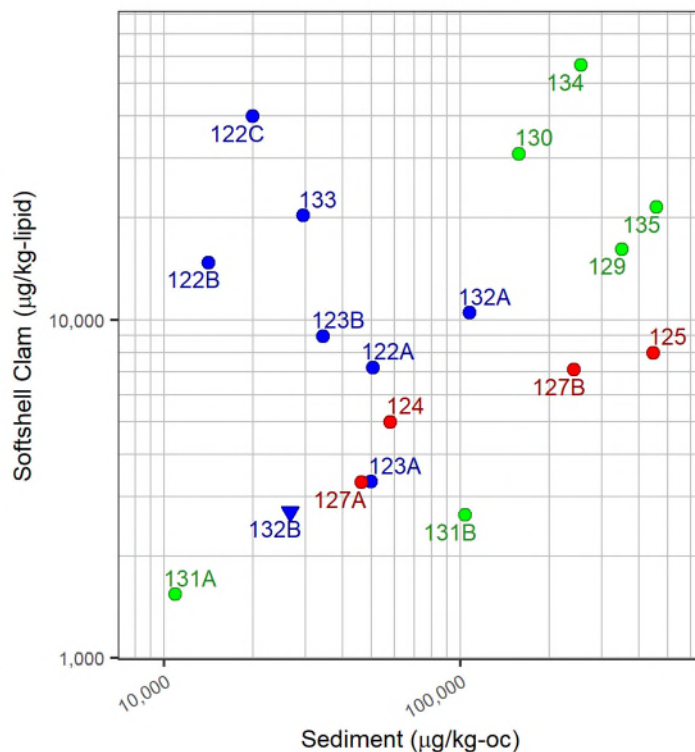
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN
SOFTSHELL CLAMS VERSUS SEDIMENT:
PAHS

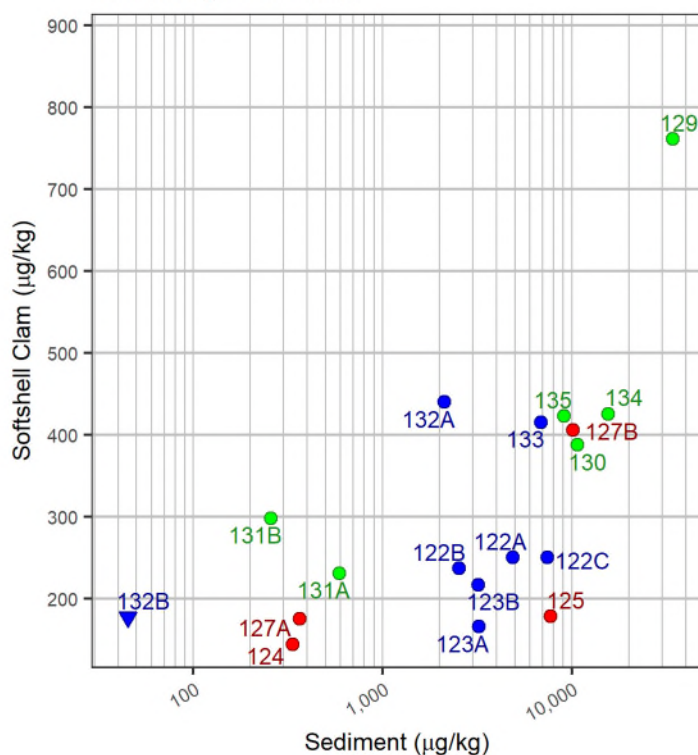
Total LMW PAHs



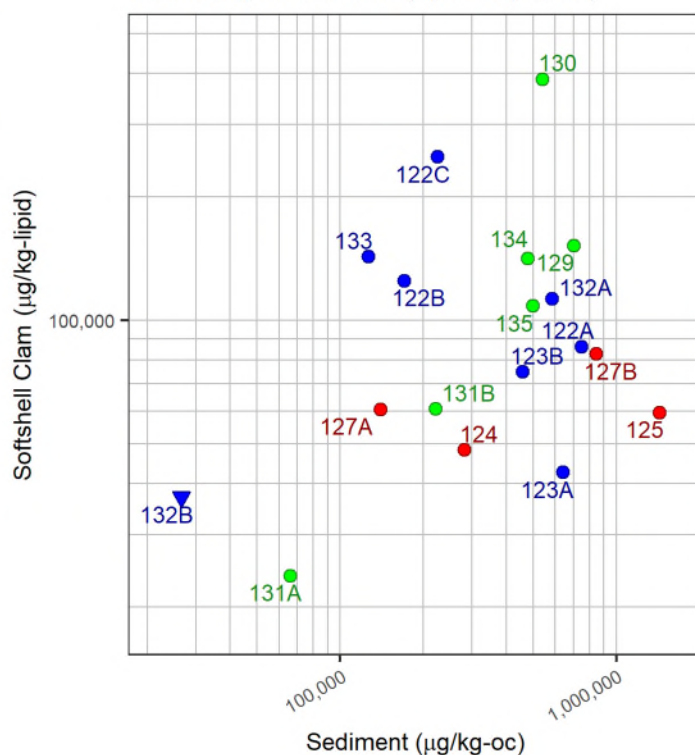
Total LMW PAHs (lipid-adjusted)



Total Alkylated PAHs



Total Alkylated PAHs (lipid-adjusted)



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.
Non-detects plotted at the reporting limit.

Bay Area (color-code)

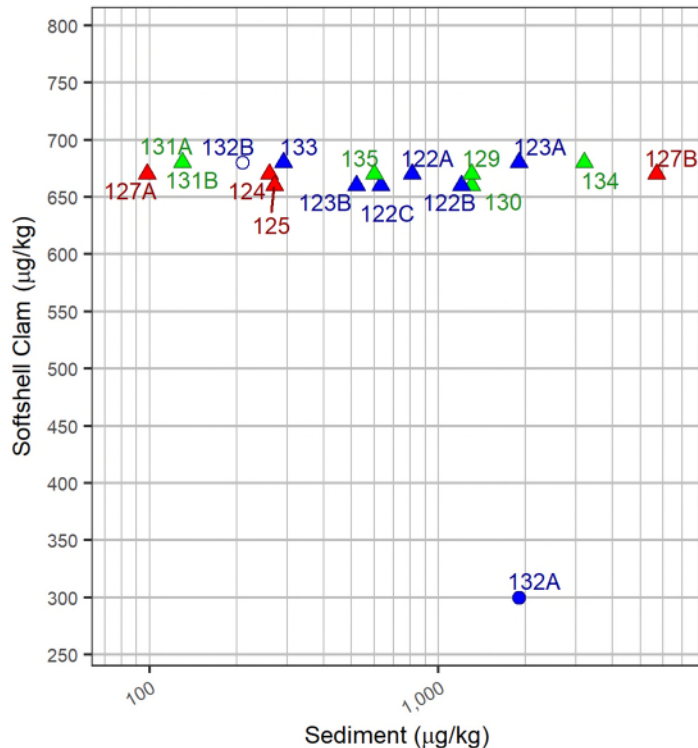
- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

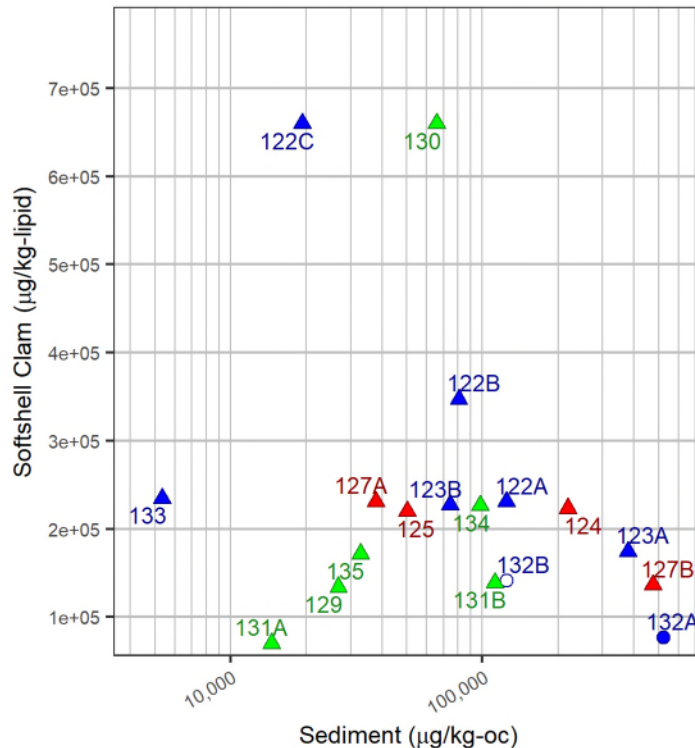
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

**CONCENTRATIONS OF COPCS IN
SOFTSHELL CLAMS VERSUS SEDIMENT:
PAHS**

Bis(2-ethylhexyl)phthalate



Bis(2-ethylhexyl)phthalate (lipid-adjusted)



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.

Non-detects plotted at the reporting limit.

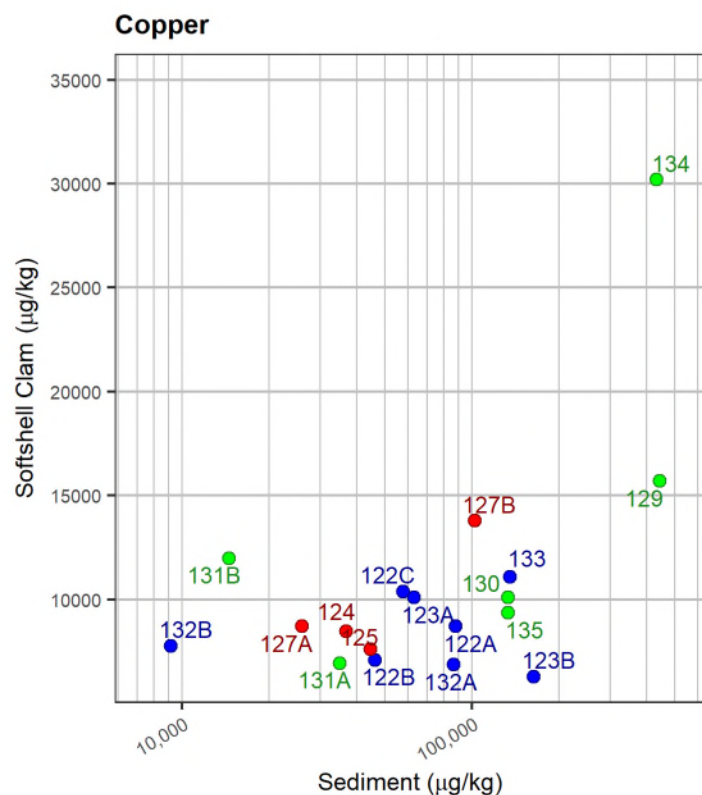
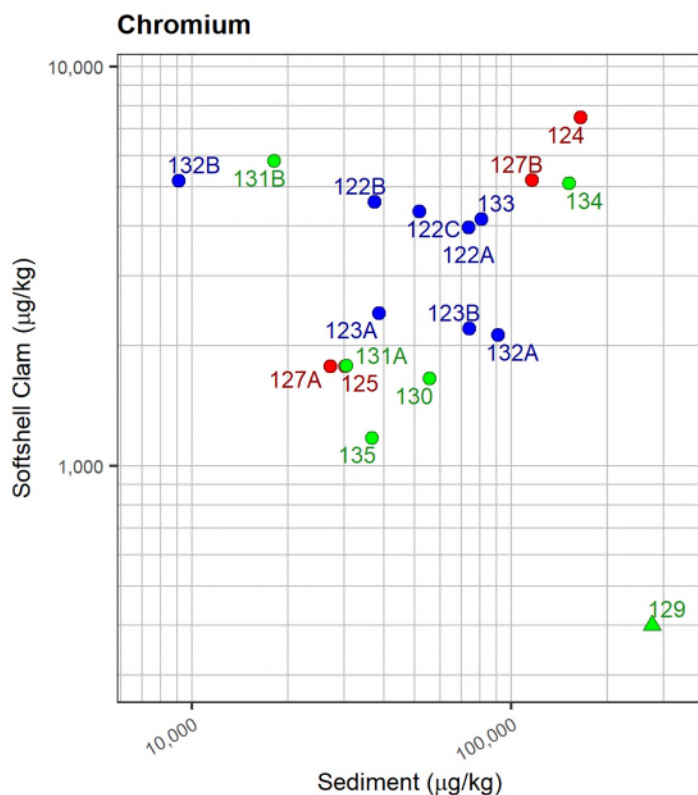
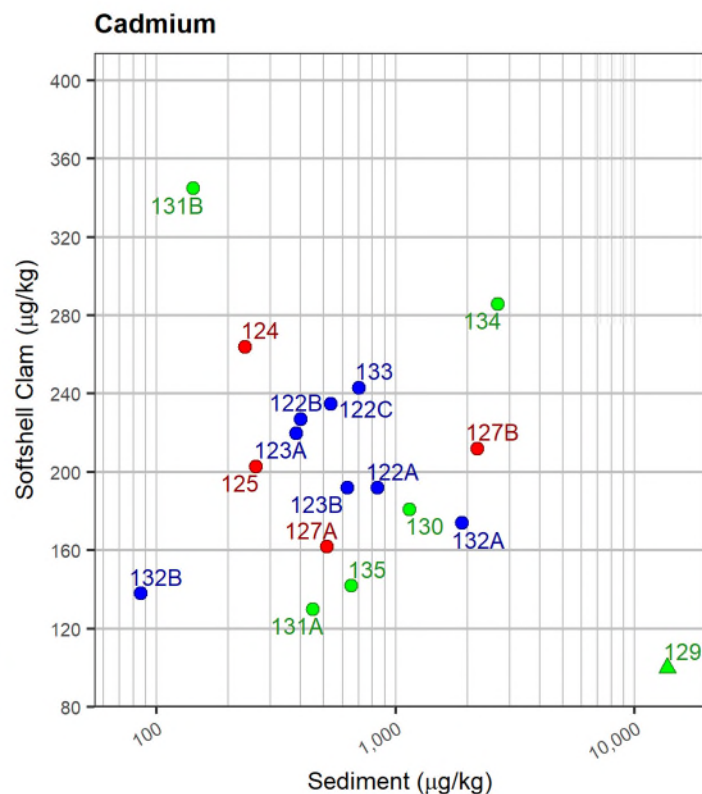
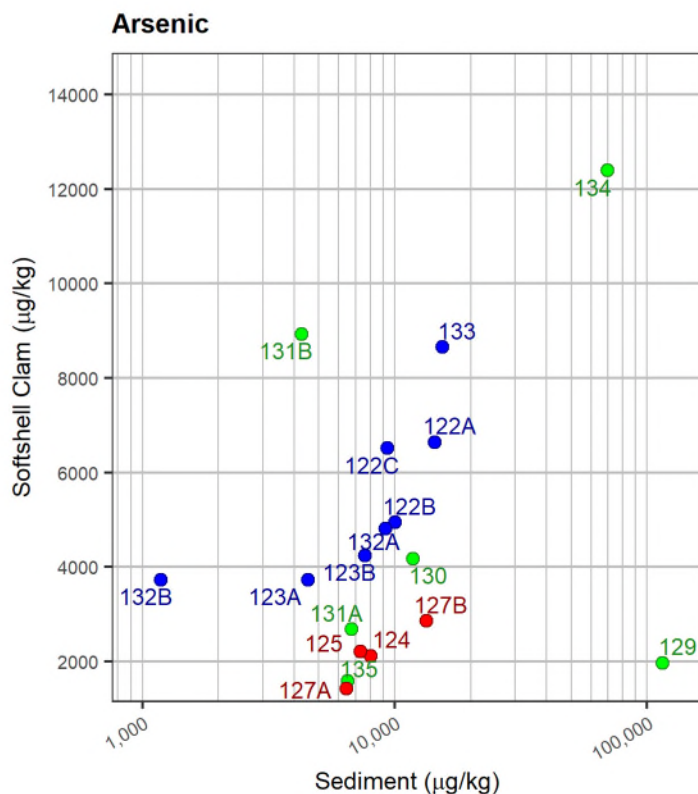
Bay Area (color-code)

- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN
SOFTSHELL CLAMS VERSUS SEDIMENT:
PAHS



Notes:
 For correlation analysis, non-detects included at 1/2 the reporting limit.
 Non-detects plotted at the reporting limit.

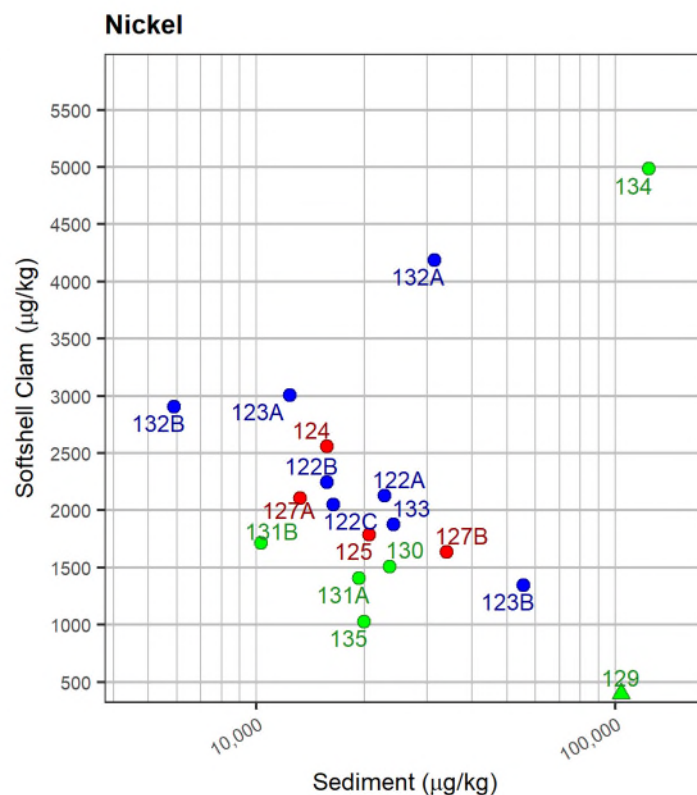
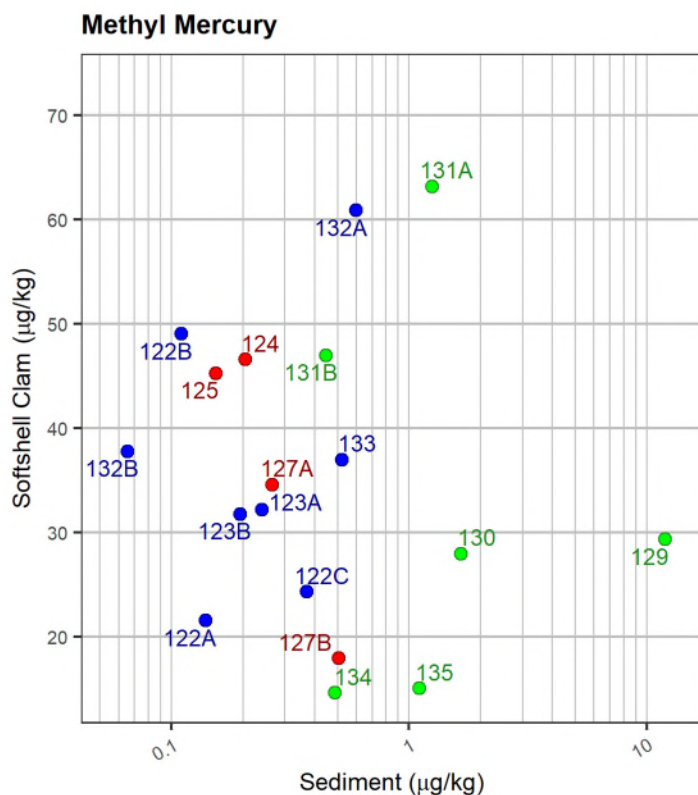
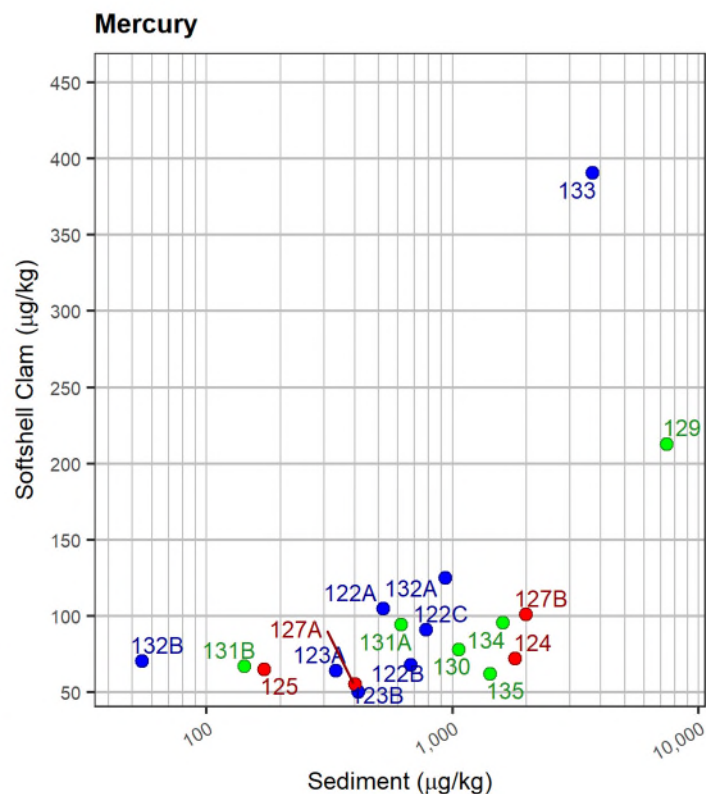
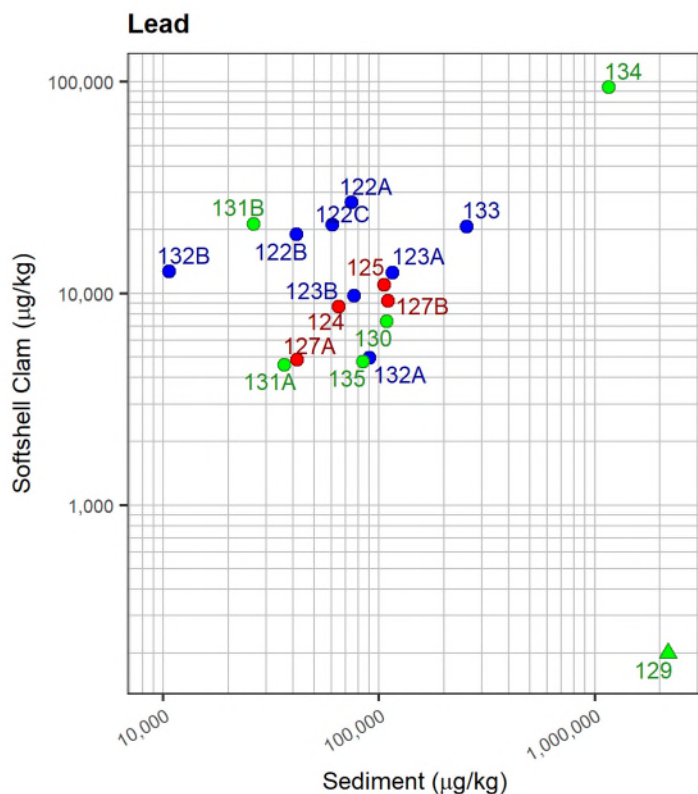
Bay Area (color-code)

- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

DIAMOND ALKALI SUPERFUND SITE
 NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
 REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN SOFTSHELL CLAMS VERSUS SEDIMENT: METALS



Notes:
 For correlation analysis, non-detects included at 1/2 the reporting limit.
 Non-detects plotted at the reporting limit.

Bay Area (color-code)

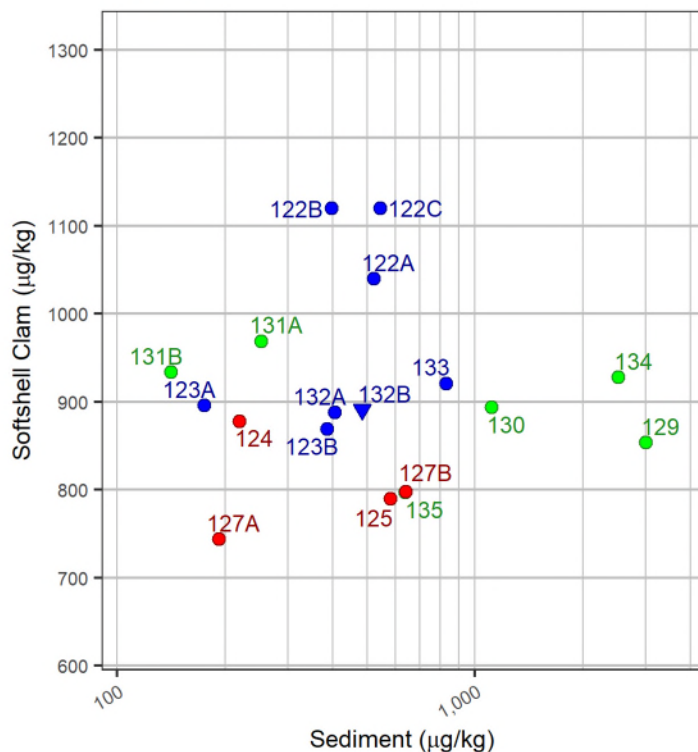
- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

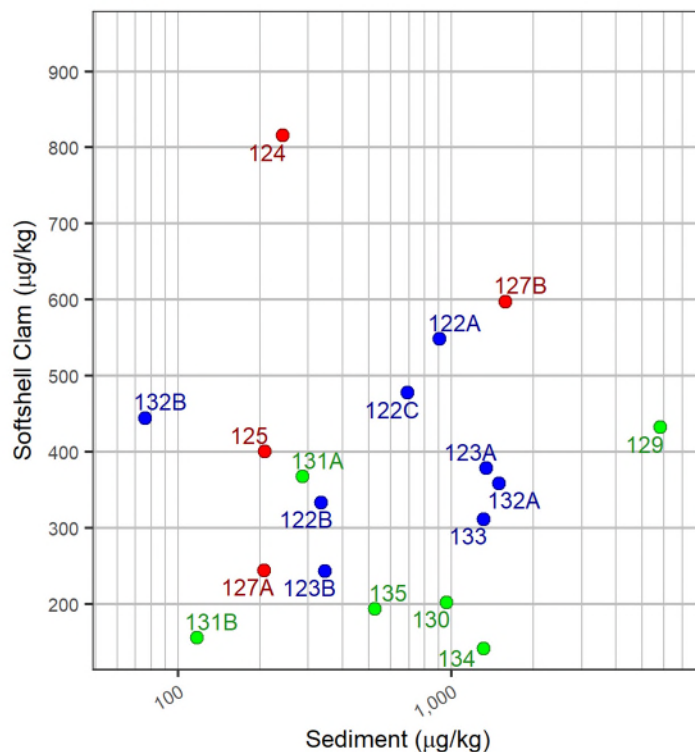
DIAMOND ALKALI SUPERFUND SITE
 NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
 REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN SOFTSHELL CLAMS VERSUS SEDIMENT: METALS

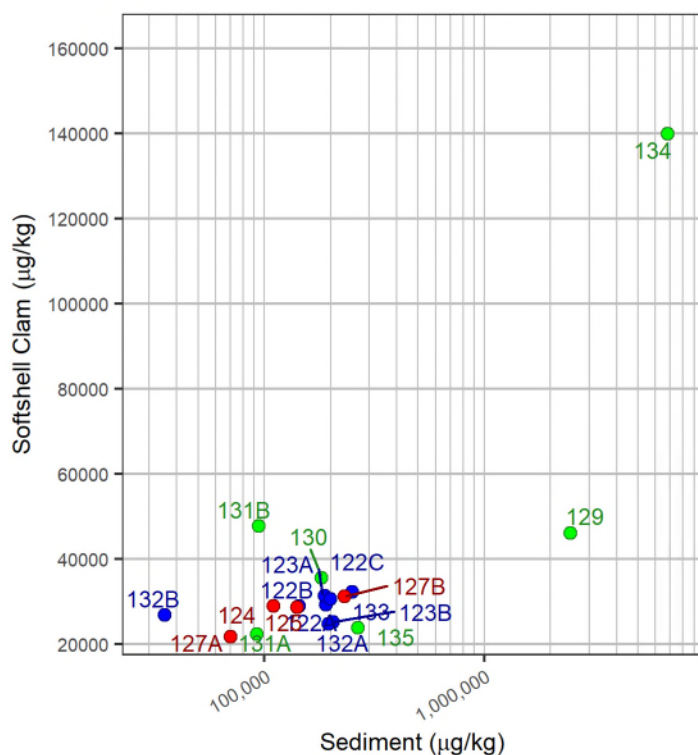
Selenium



Silver



Zinc



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.

Non-detects plotted at the reporting limit.

Bay Area (color-code)

- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

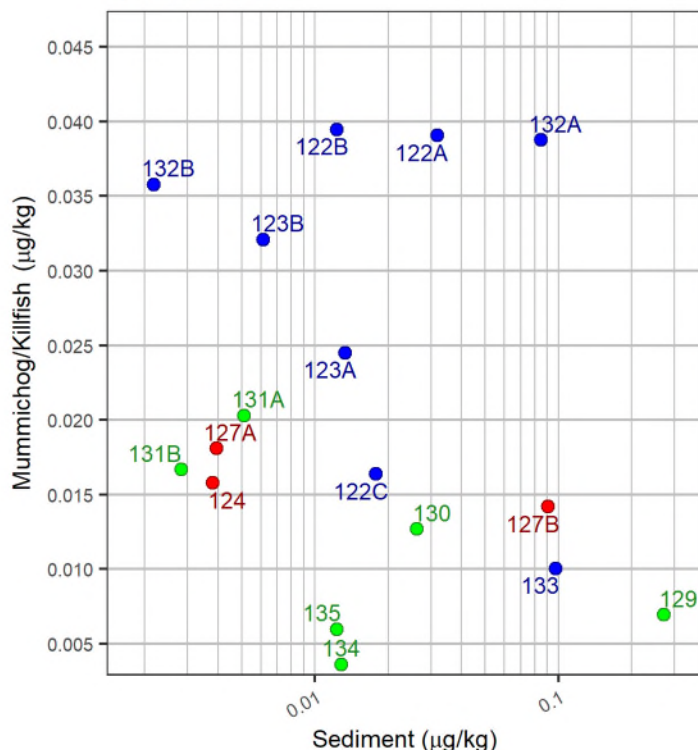
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN
SOFTSHELL CLAMS VERSUS SEDIMENT:
METALS

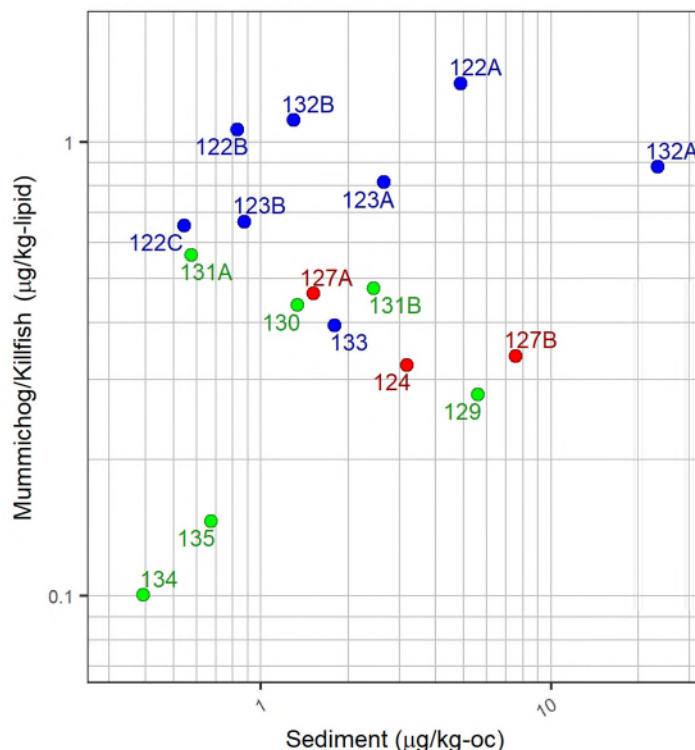
OXY Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
CLAM
SED-4C

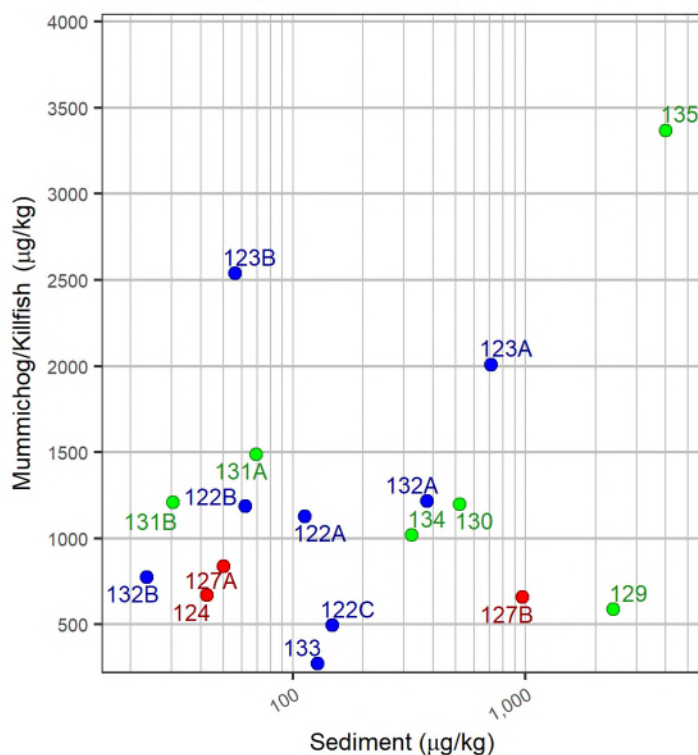
2,3,7,8-TCDD



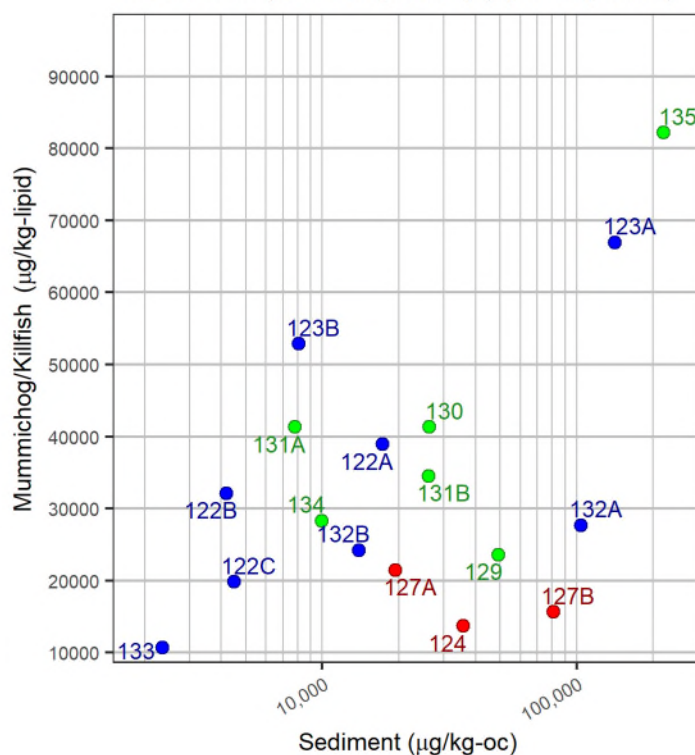
2,3,7,8-TCDD (lipid-adjusted)



Total PCBs (209 Congeners)



Total PCBs (209 Congeners) (lipid-adjusted)



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.
Non-detects plotted at the reporting limit.

Bay Area (color-code)

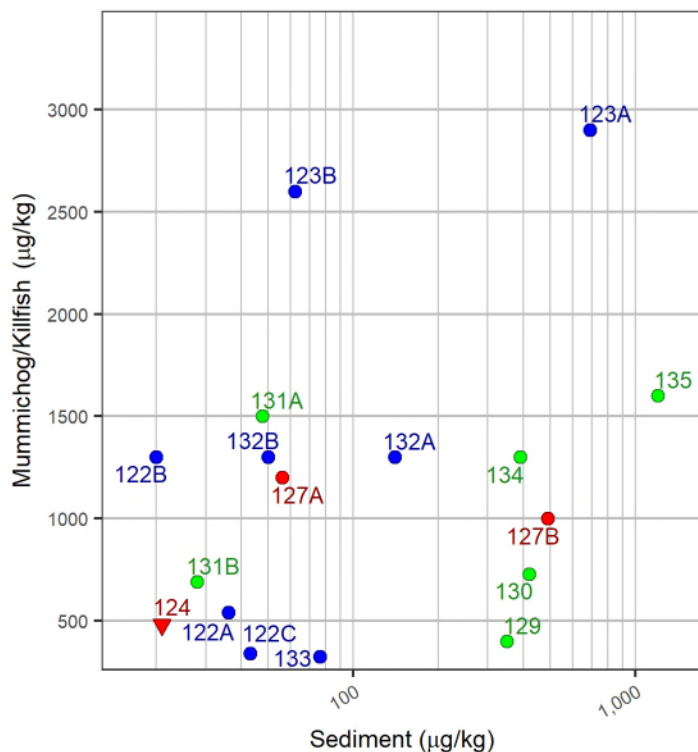
- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

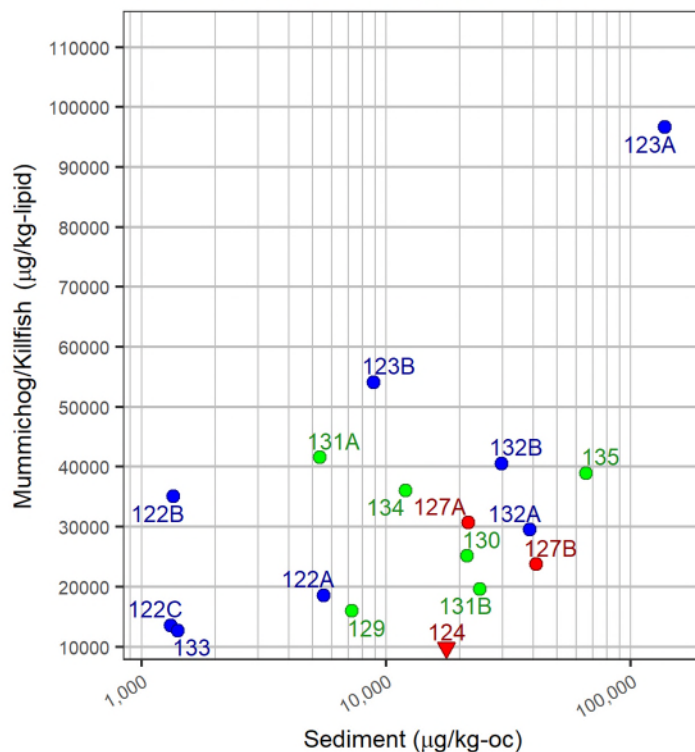
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN
FORAGE FISH VERSUS SEDIMENT:
DIOXINS/FURANS & PCBs

Total PCBs (9 Aroclors)



Total PCBs (9 Aroclors) (lipid-adjusted)



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.
Non-detects plotted at the reporting limit.

Bay Area (color-code)

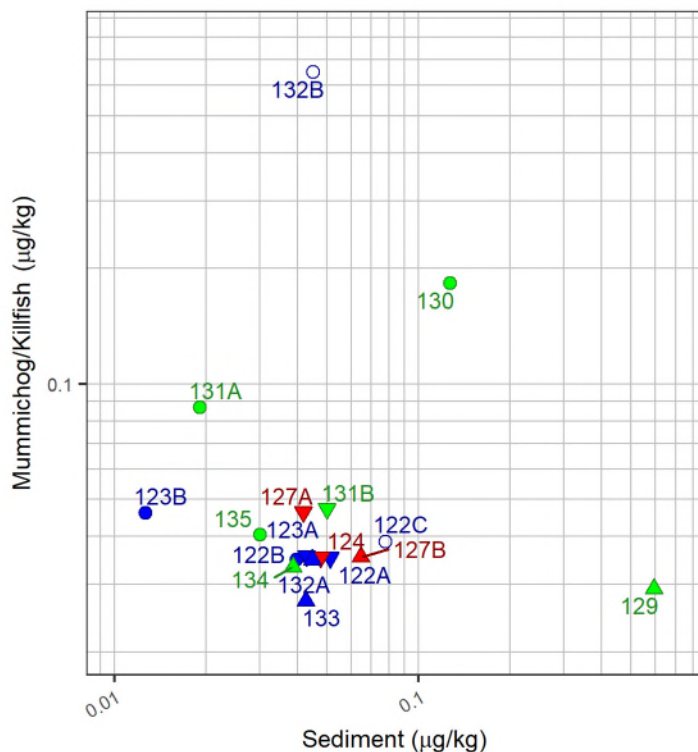
- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

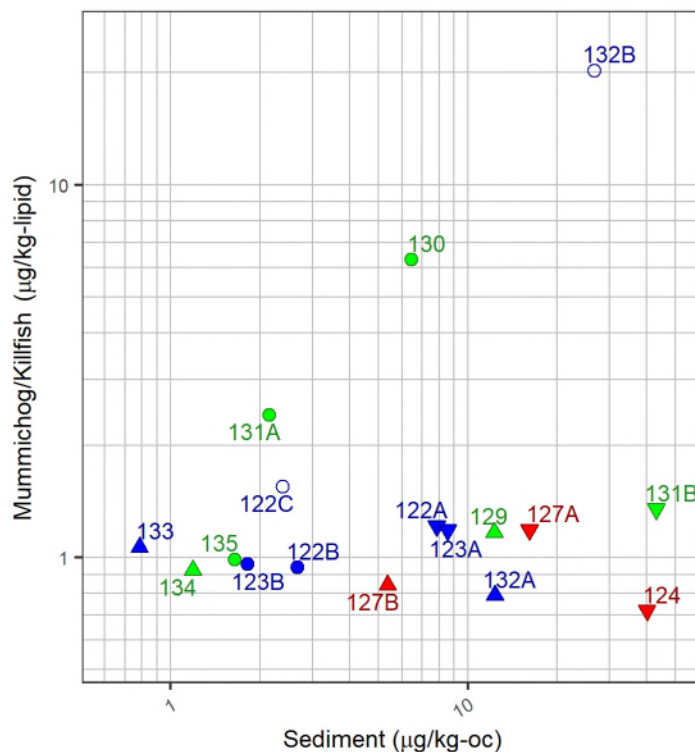
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN
FORAGE FISH VERSUS SEDIMENT:
DIOXINS/FURANS & PCBs

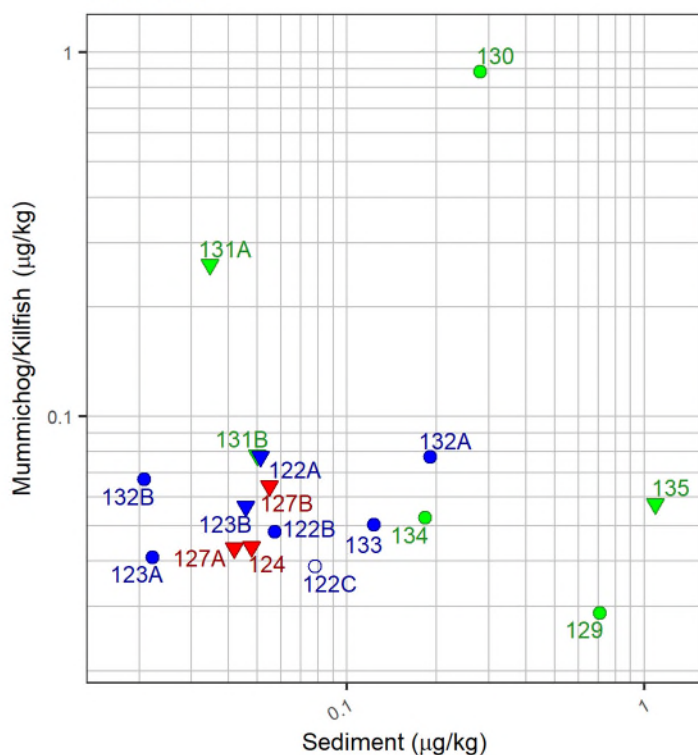
Alpha-BHC



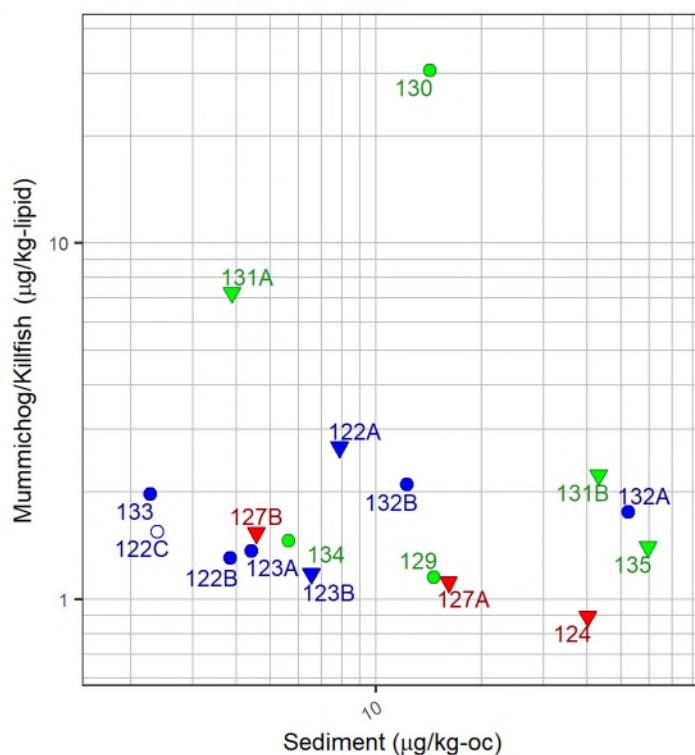
Alpha-BHC (lipid-adjusted)



Beta-BHC



Beta-BHC (lipid-adjusted)



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.
Non-detects plotted at the reporting limit.

Bay Area (color-code)

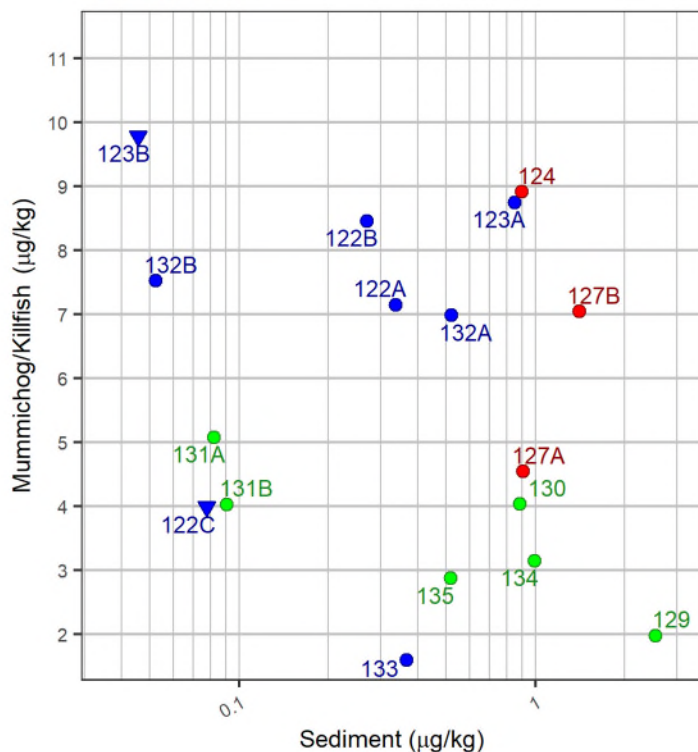
- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

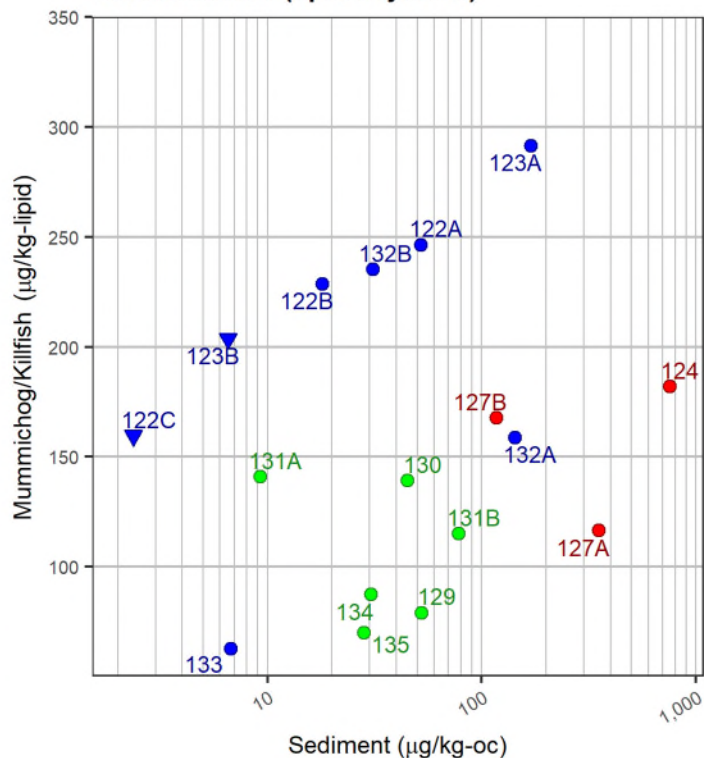
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN
FORAGE FISH VERSUS SEDIMENT:
PESTICIDES

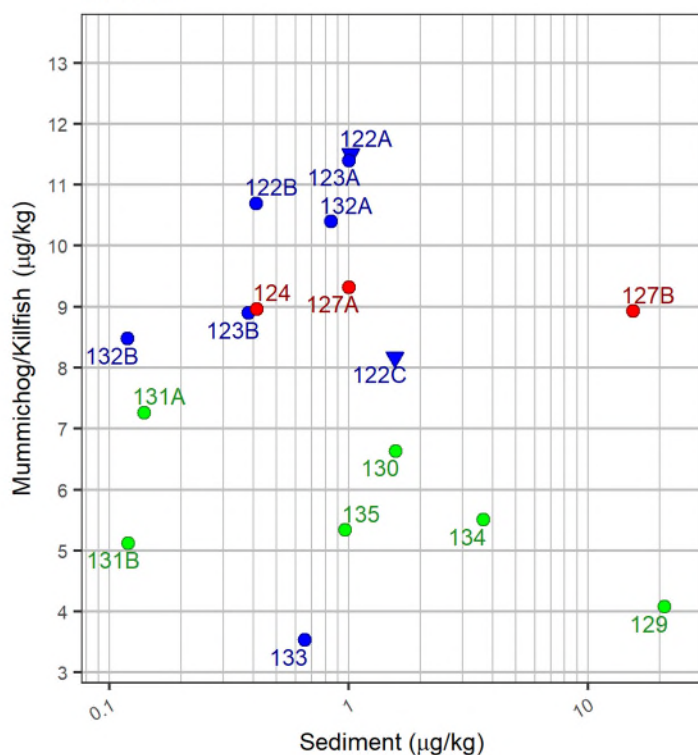
Cis-Nonachlor



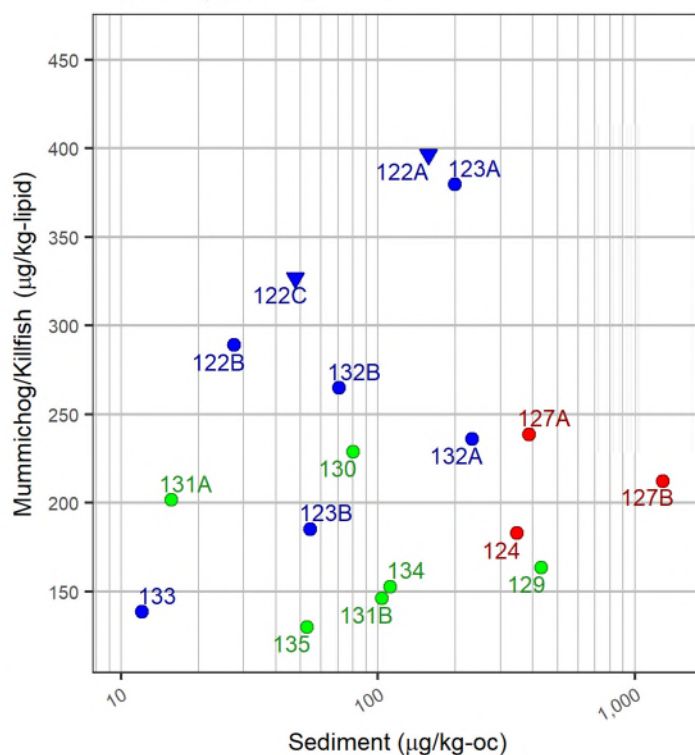
Cis-Nonachlor (lipid-adjusted)



Dieldrin



Dieldrin (lipid-adjusted)



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.

Non-detects plotted at the reporting limit.

Bay Area (color-code)

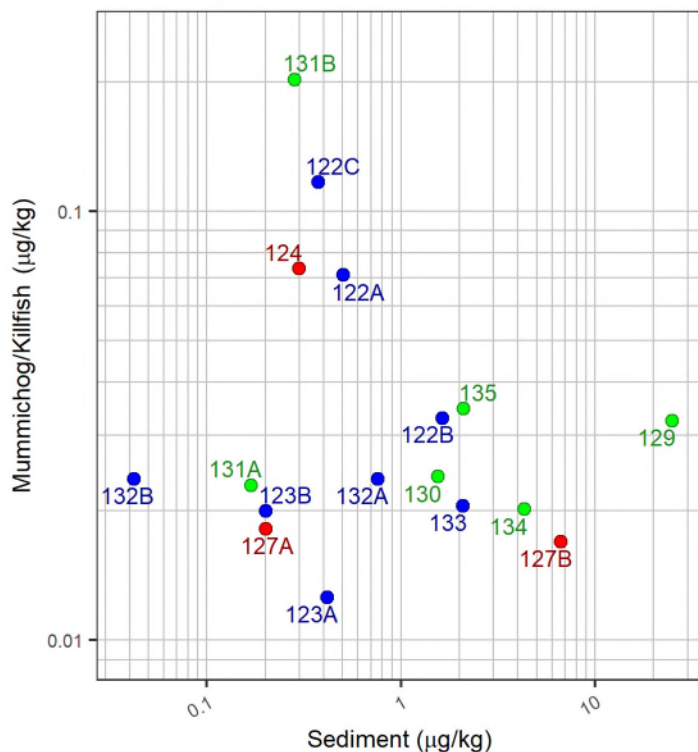
- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

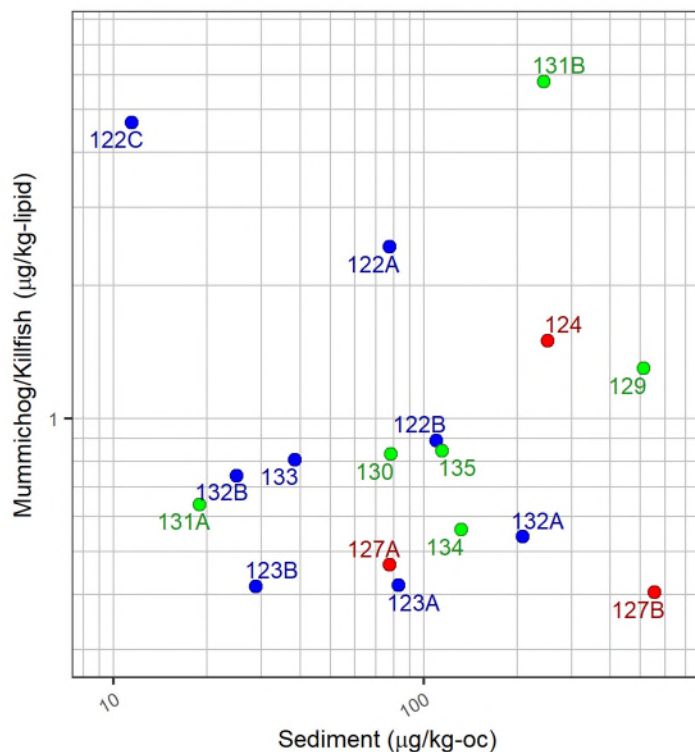
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN
FORAGE FISH VERSUS SEDIMENT:
PESTICIDES

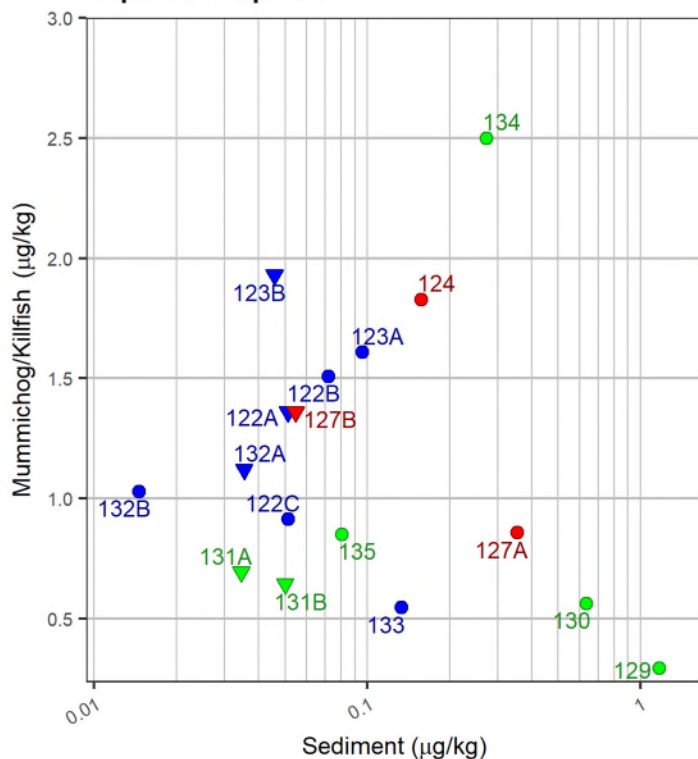
Hexachlorobenzene



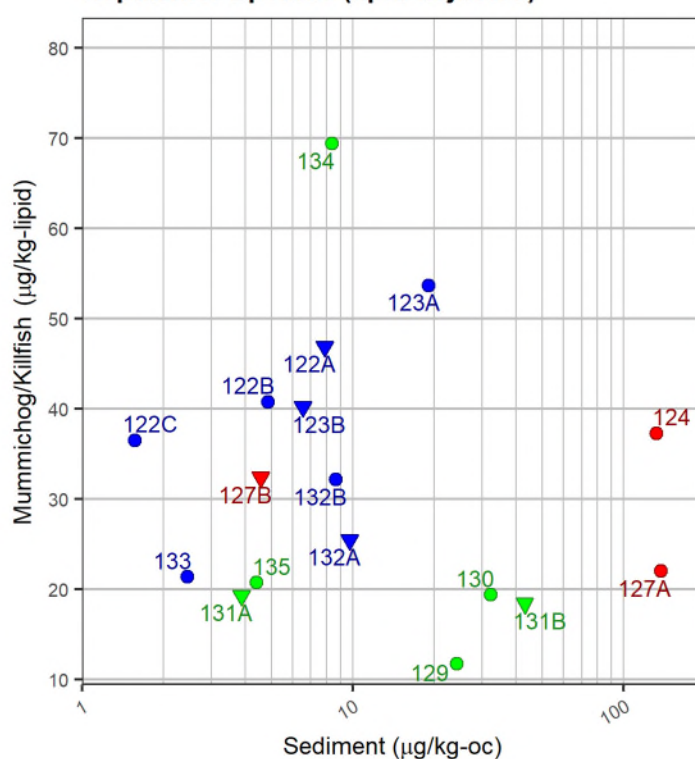
Hexachlorobenzene (lipid-adjusted)



Heptachlor Epoxide



Heptachlor Epoxide (lipid-adjusted)



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.

Non-detects plotted at the reporting limit.

Bay Area (color-code)

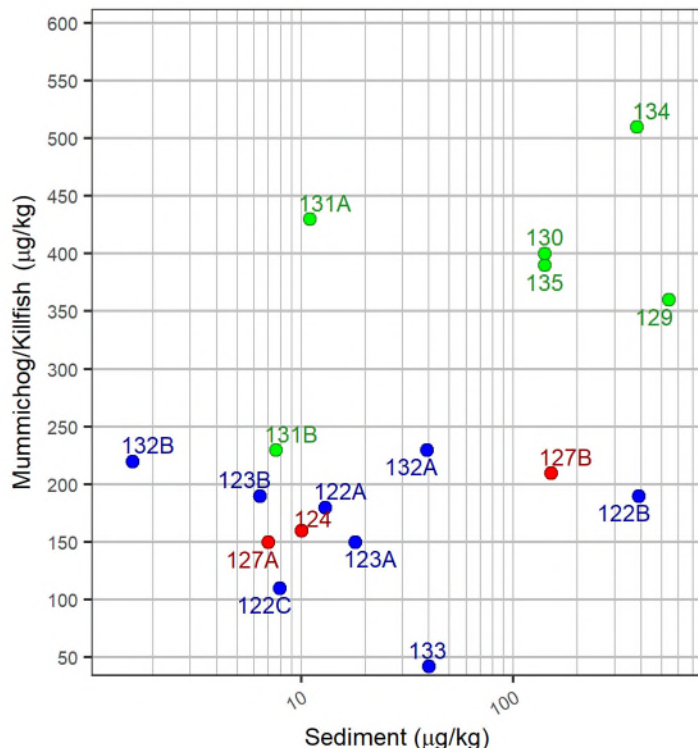
- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

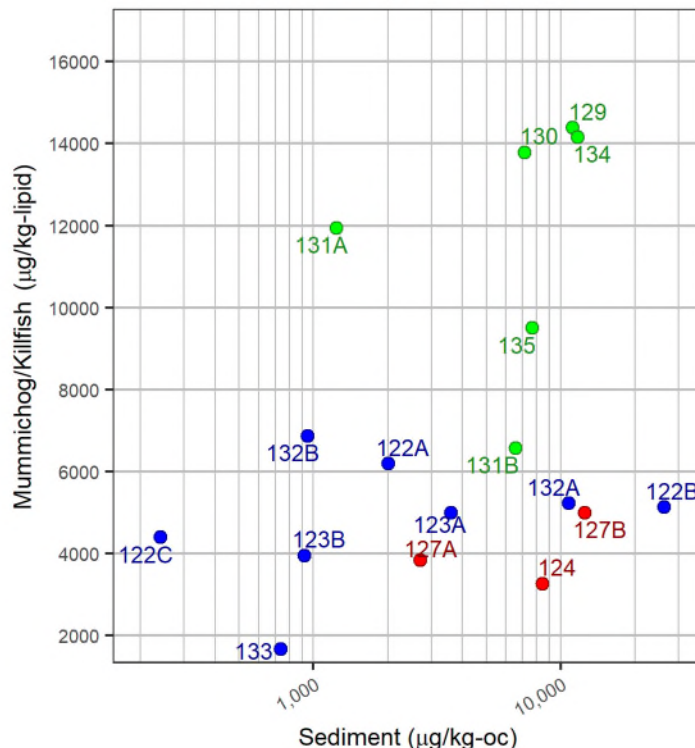
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN
FORAGE FISH VERSUS SEDIMENT:
PESTICIDES

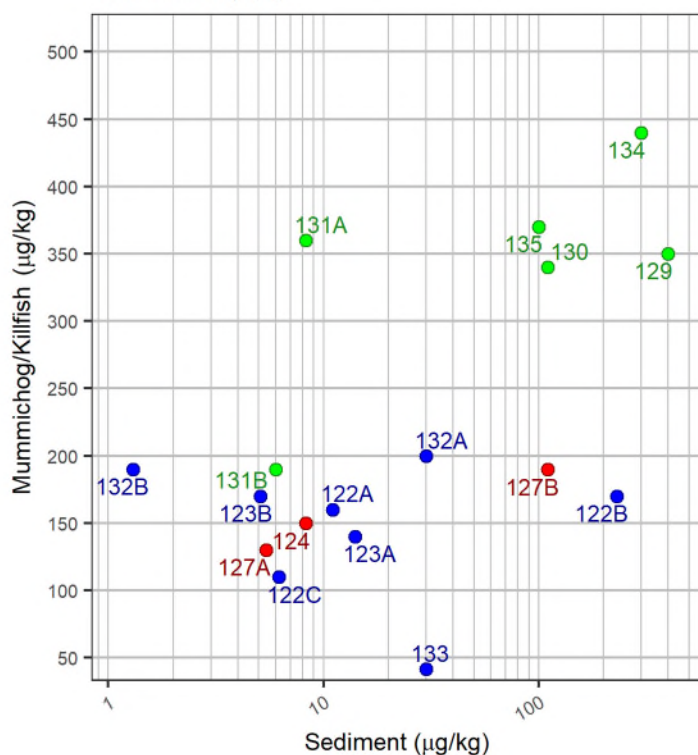
Total DDX (2,4 & 4,4)



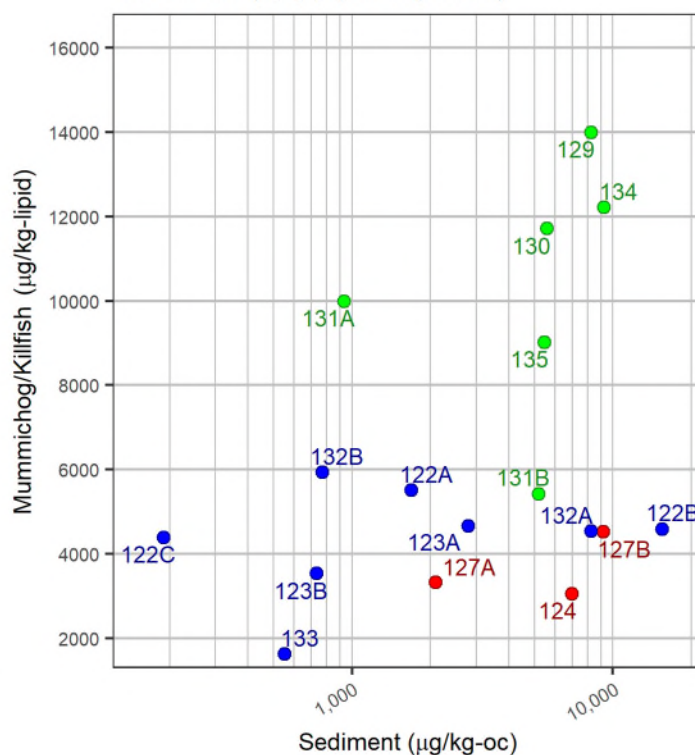
Total DDX (2,4 & 4,4) (lipid-adjusted)



Total DDX (4,4)



Total DDX (4,4) (lipid-adjusted)



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.
Non-detects plotted at the reporting limit.

Bay Area (color-code)

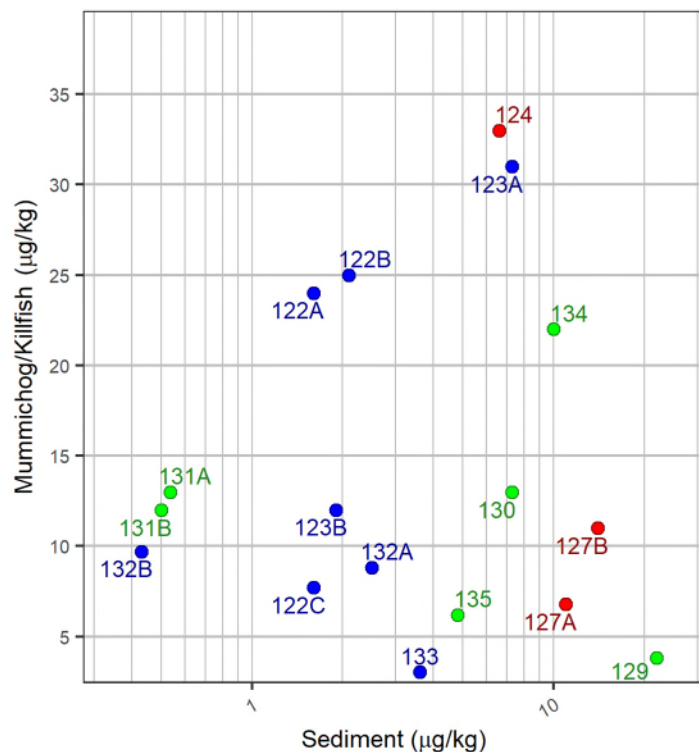
- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

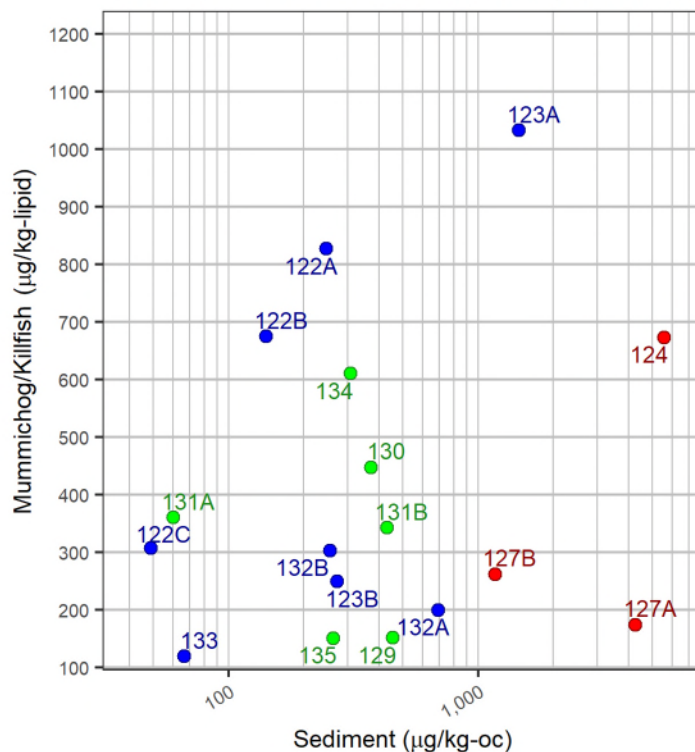
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN
FORAGE FISH VERSUS SEDIMENT:
PESTICIDES

Total Alpha + Gamma Chlordane



Total Alpha + Gamma Chlordane (lipid-adjusted)



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.
Non-detects plotted at the reporting limit.

Bay Area (color-code)

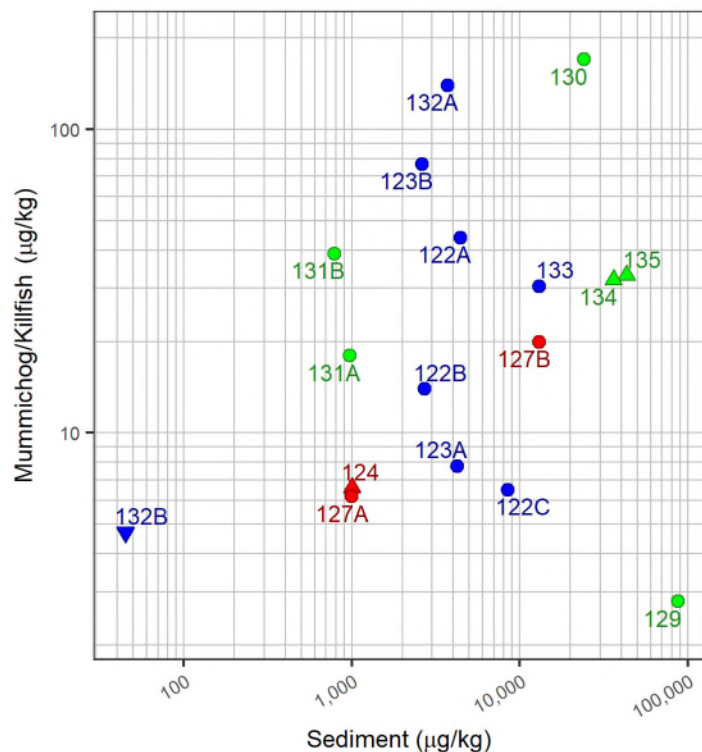
- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

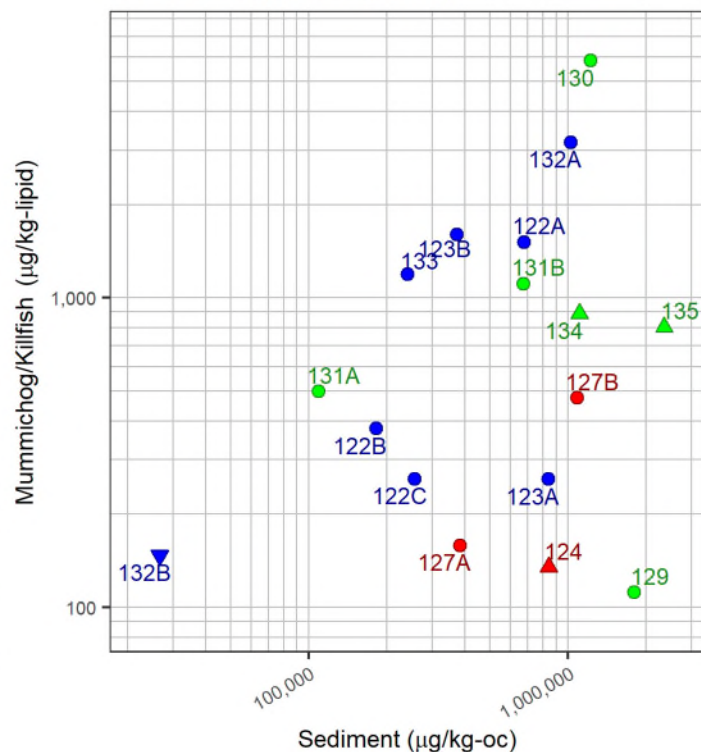
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN
FORAGE FISH VERSUS SEDIMENT:
PESTICIDES

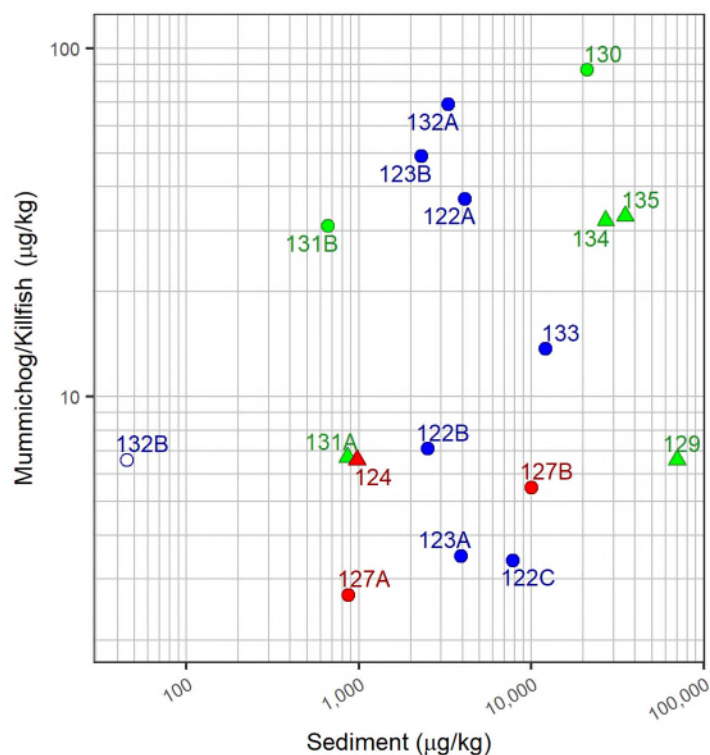
Total PAHs



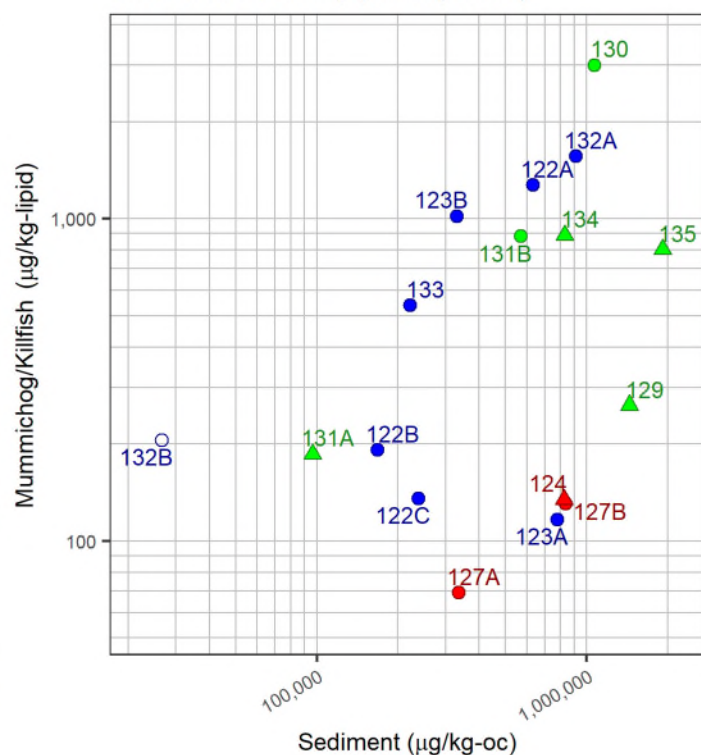
Total PAHs (lipid-adjusted)



Total HMW PAHs



Total HMW PAHs (lipid-adjusted)



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.

Non-detects plotted at the reporting limit.

Bay Area (color-code)

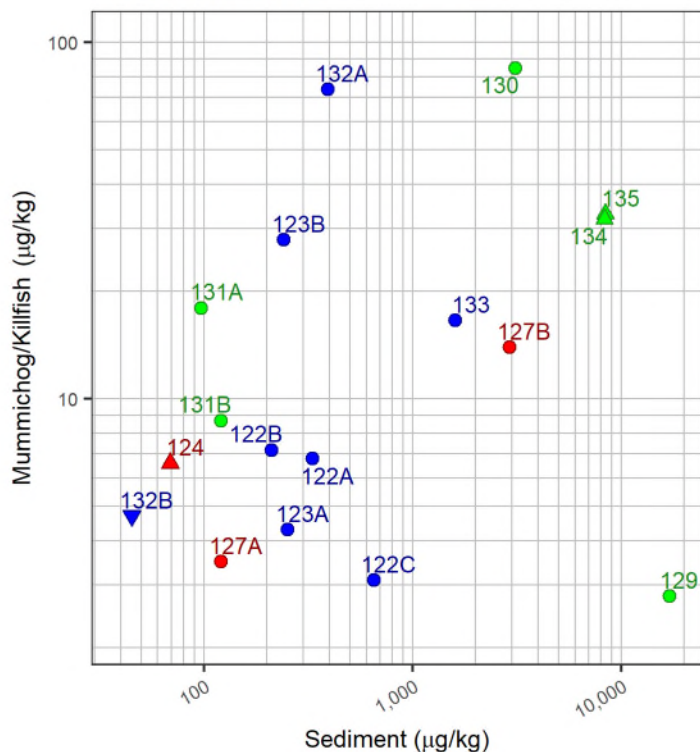
- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

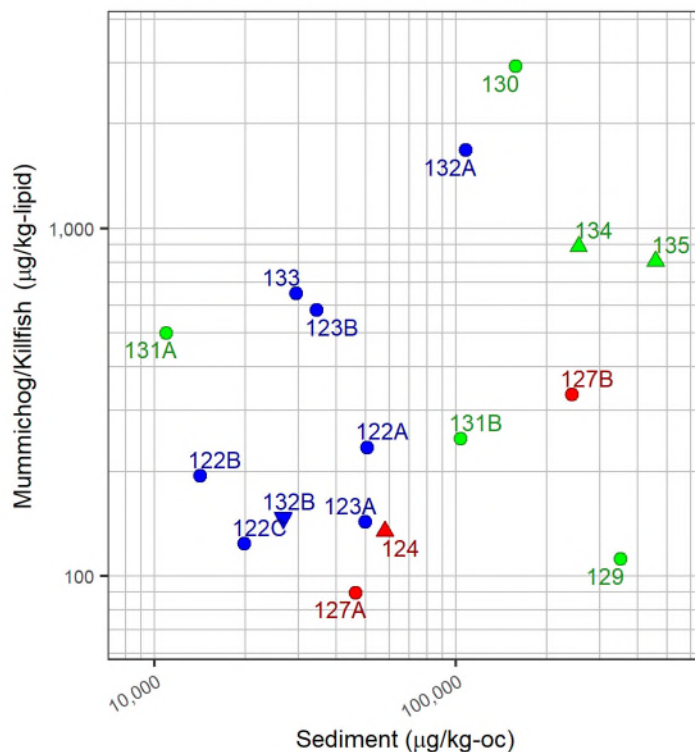
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN
FORAGE FISHS VERSUS SEDIMENT:
PAHS

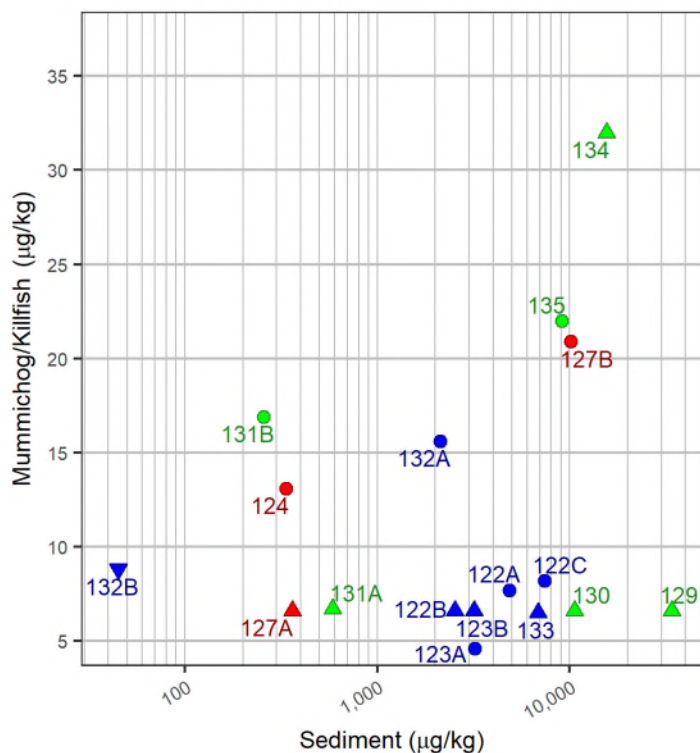
Total LMW PAHs



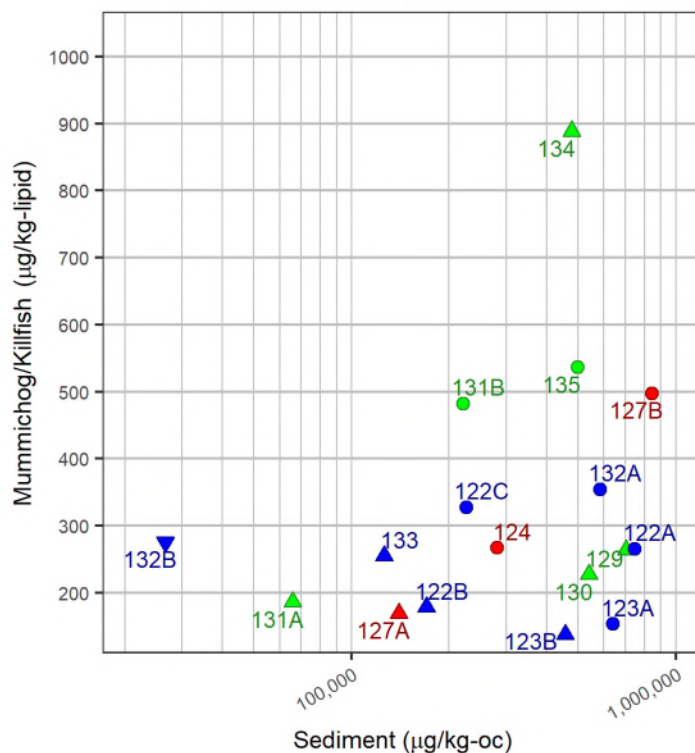
Total LMW PAHs (lipid-adjusted)



Total Alkylated PAHs



Total Alkylated PAHs (lipid-adjusted)



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.
Non-detects plotted at the reporting limit.

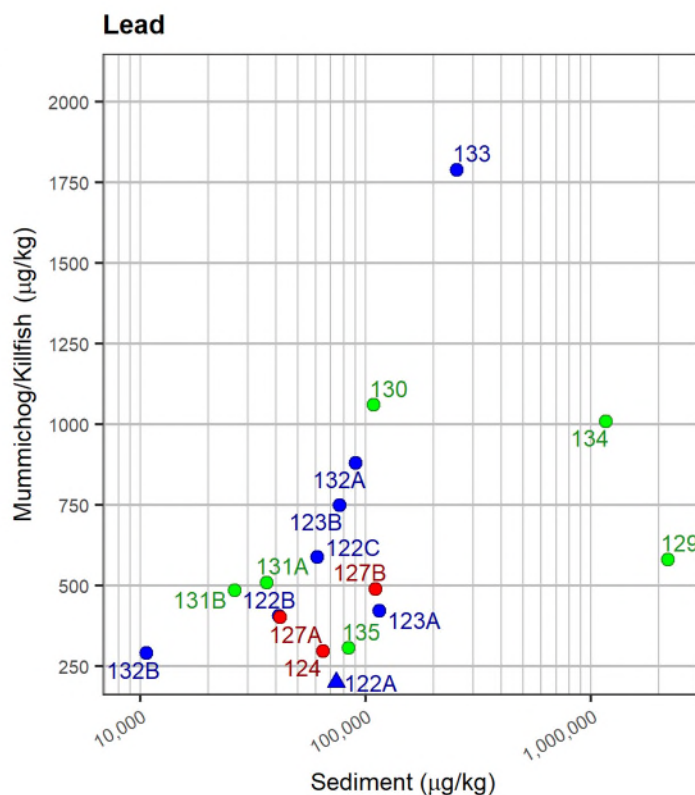
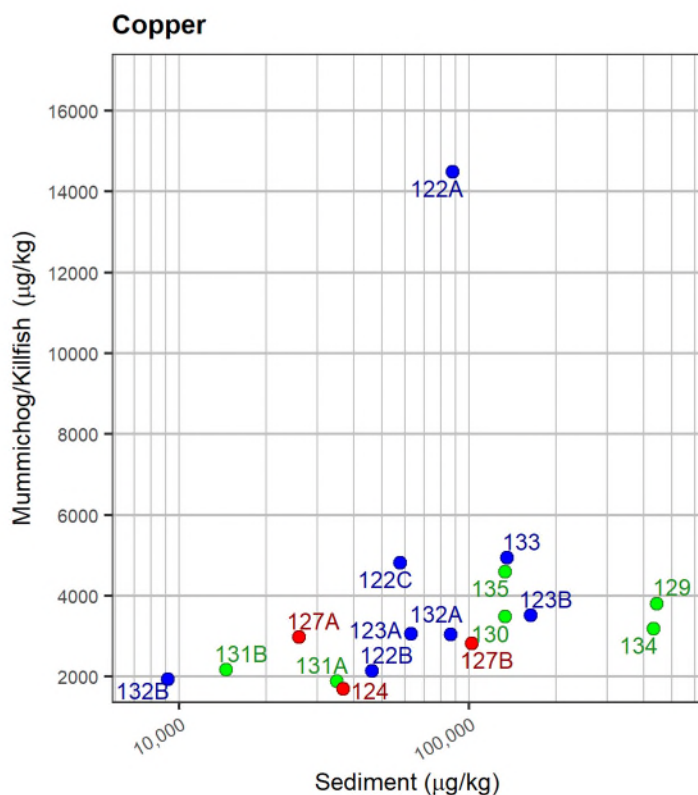
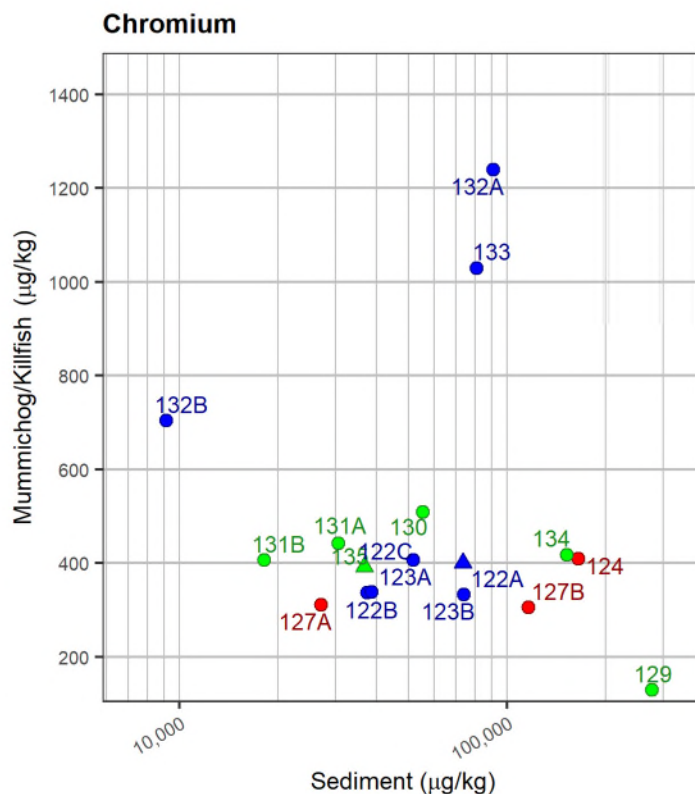
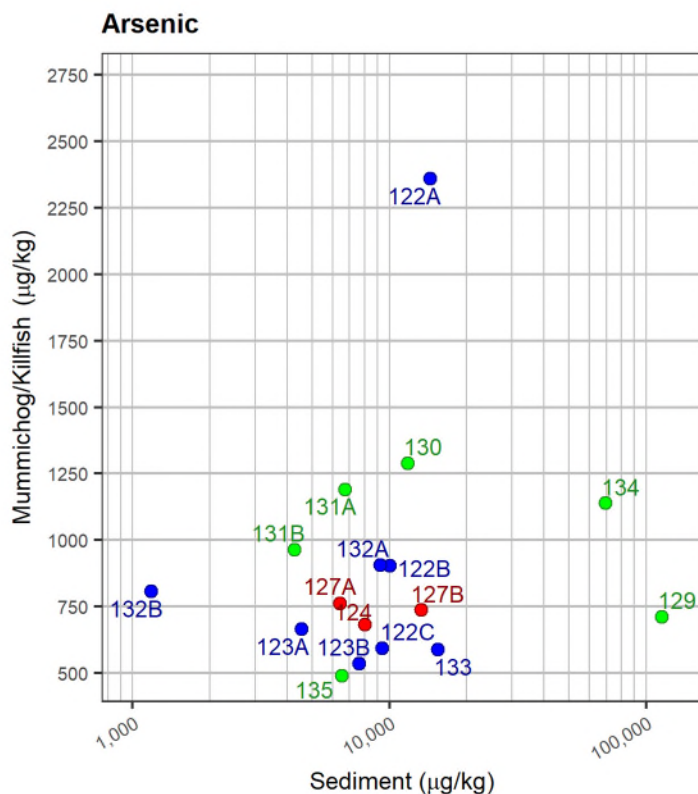
Bay Area (color-code)

- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN
FORAGE FISHS VERSUS SEDIMENT:
PAHS



Notes:
 For correlation analysis, non-detects included at 1/2 the reporting limit.
 Non-detects plotted at the reporting limit.

Bay Area (color-code)

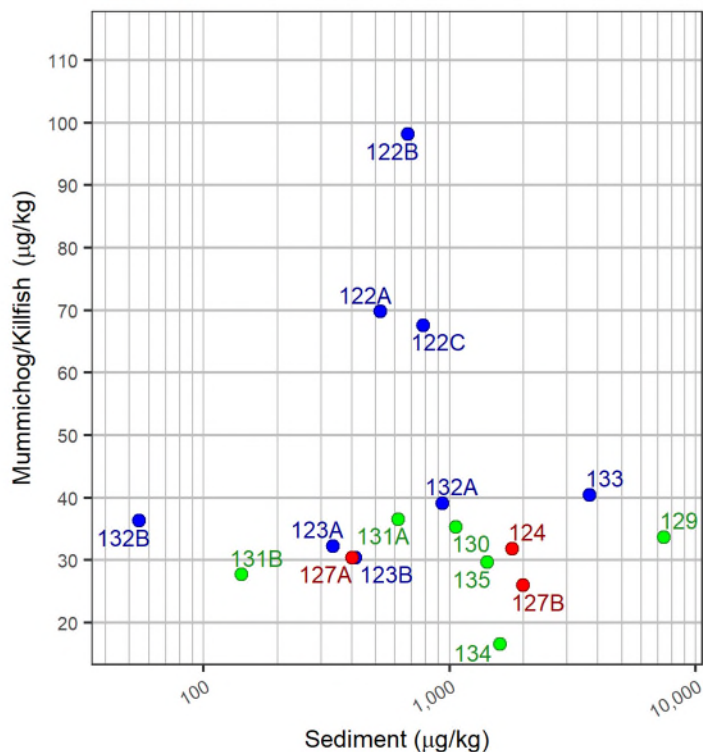
- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

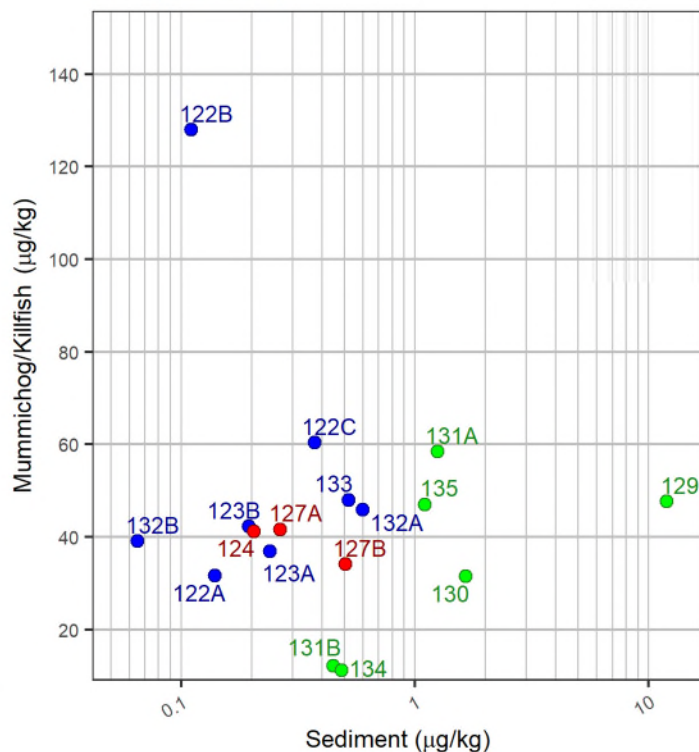
DIAMOND ALKALI SUPERFUND SITE
 NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
 REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN FORAGE FISH VERSUS SEDIMENT: METALS

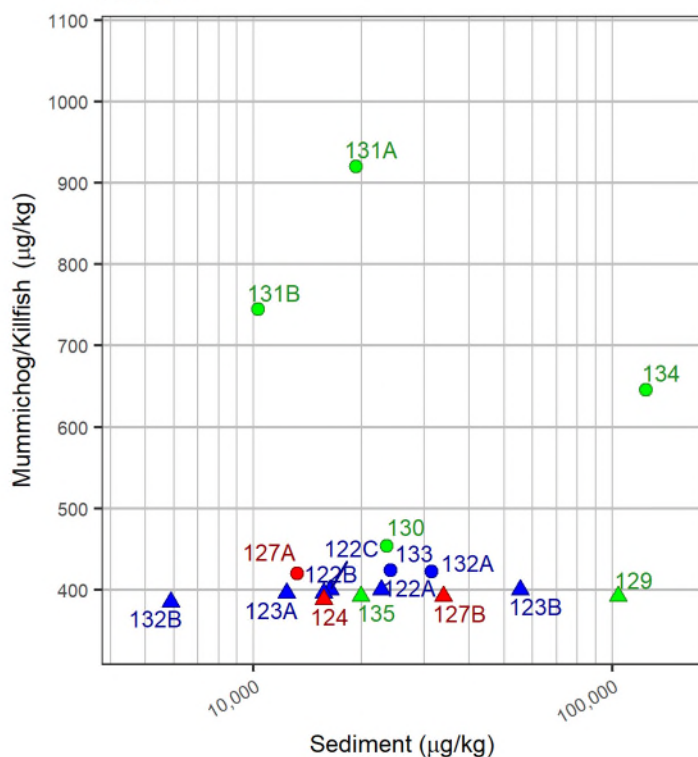
Mercury



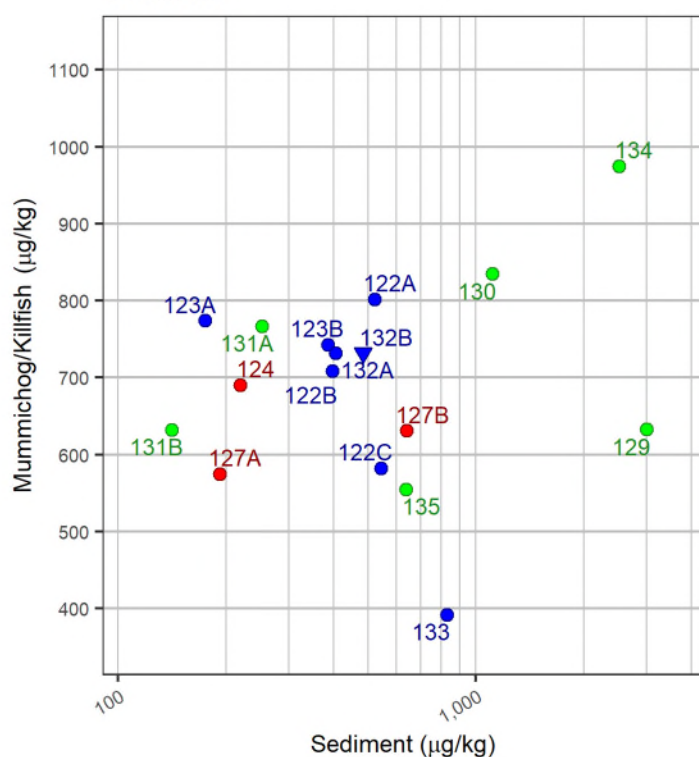
Methyl Mercury



Nickel



Selenium



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.
Non-detects plotted at the reporting limit.

Bay Area (color-code)

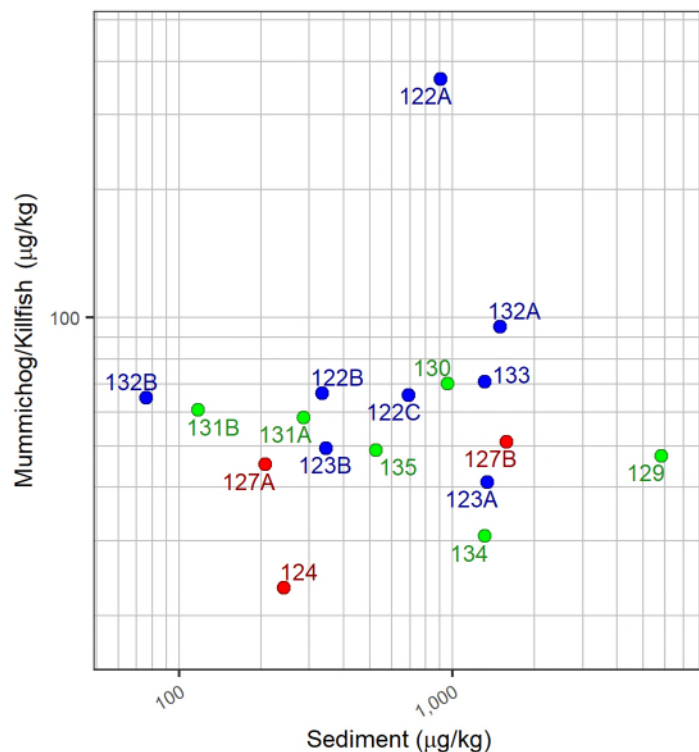
- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

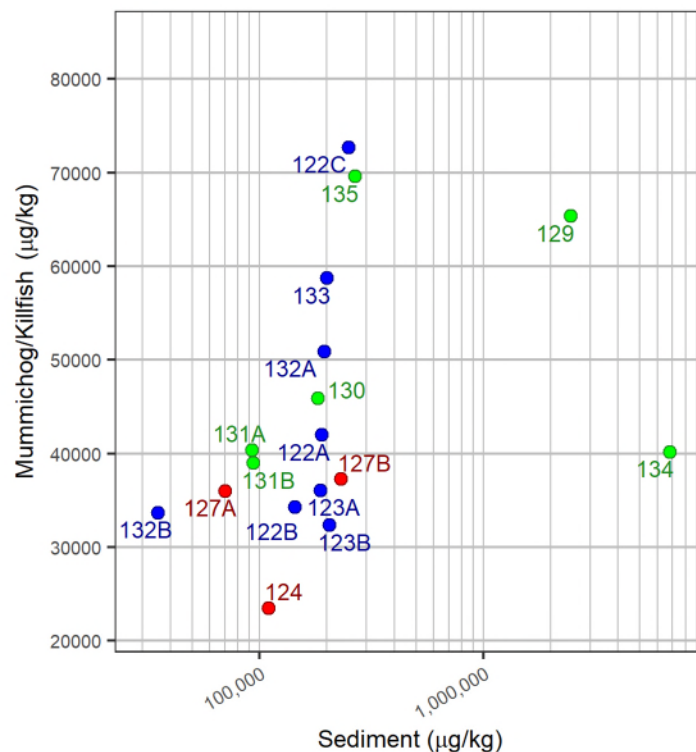
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN
FORAGE FISH VERSUS SEDIMENT:
METALS

Silver



Zinc



Notes:

For correlation analysis, non-detects included at 1/2 the reporting limit.
Non-detects plotted at the reporting limit.

Bay Area (color-code)

- North
- Central
- South

- Filled Symbol = Both Samples Detected
- Open Symbol = Both Samples Non-detect
- ▲ Filled Symbol = Biota Non-detect and Sediment/Porewater Detect
- ▼ Filled Symbol = Biota Detect and Sediment/Porewater Non-detect

DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

CONCENTRATIONS OF COPCS IN
FORAGE FISH VERSUS SEDIMENT:
METALS