CITY: SYR DIV/GROUP: AIT DB: AMB KEW JCR LD: LP
GE HOUSATONIC (30929.0000.00003)
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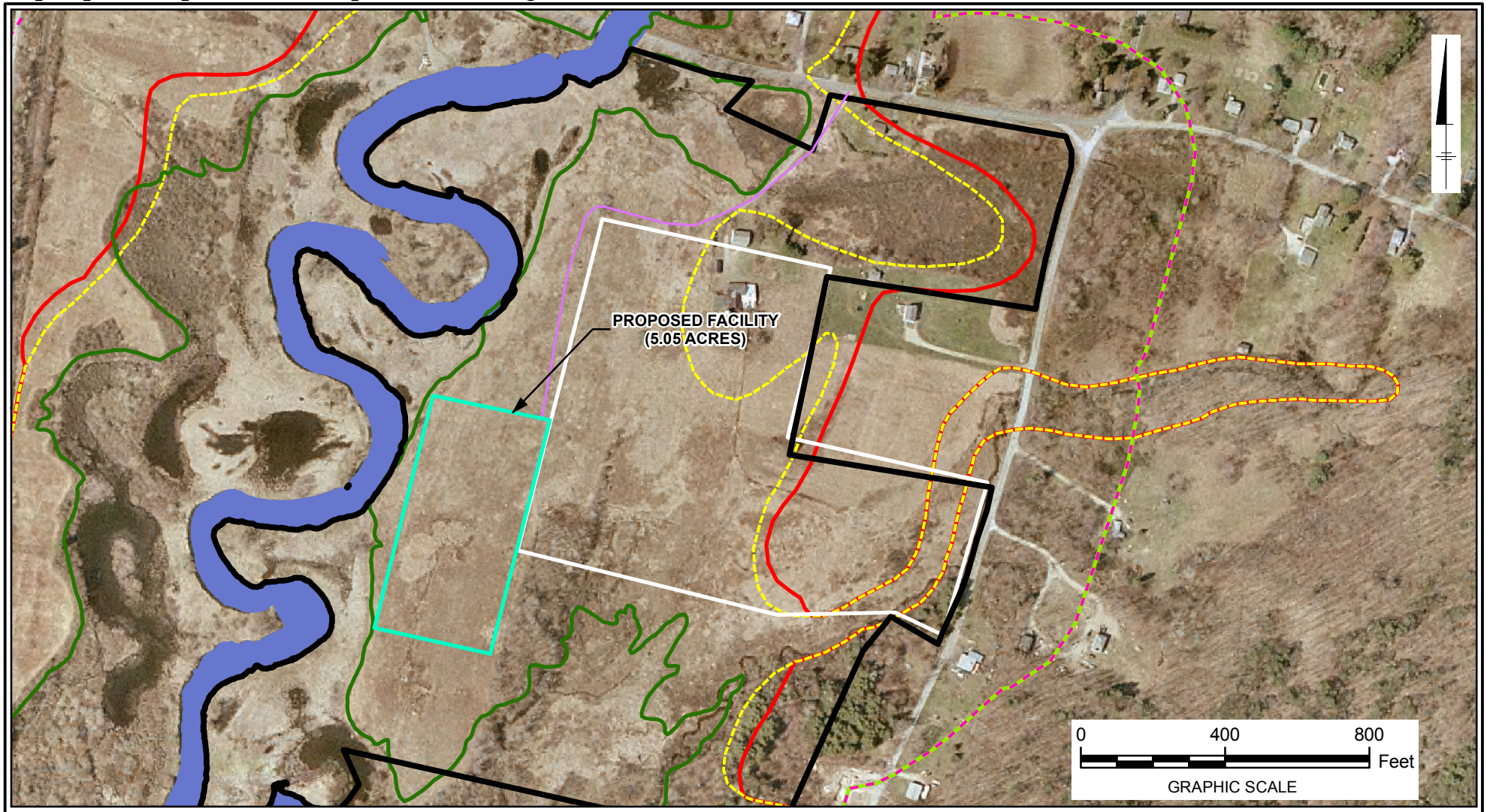


LEGEND:

- FACILITY ROAD (APPROXIMATE)
- NHESP PRIORITY HABITATS OF RARE SPECIES
- NHESP ESTIMATED HABITATS OF RARE WILDLIFE
- PROPOSED FACILITY LOCATION (APPROXIMATE)
- GE PARCEL
- AREA SUBJECT TO AGRICULTURAL PRESERVATION RESTRICTION
- 1 mg/kg PCB ISOPLETH
- FEMA 100-YEAR FLOODPLAIN
- FEMA 500-YEAR FLOODPLAIN
- HOUSATONIC RIVER

NOTES:

1. HYDROGRAPHY, FLOODPLAIN AND TAX PARCEL DATA PROVIDED BY QEA.
2. 2005 NATURAL COLOR .5 METER RESOLUTION IMAGERY FROM MASSGIS.

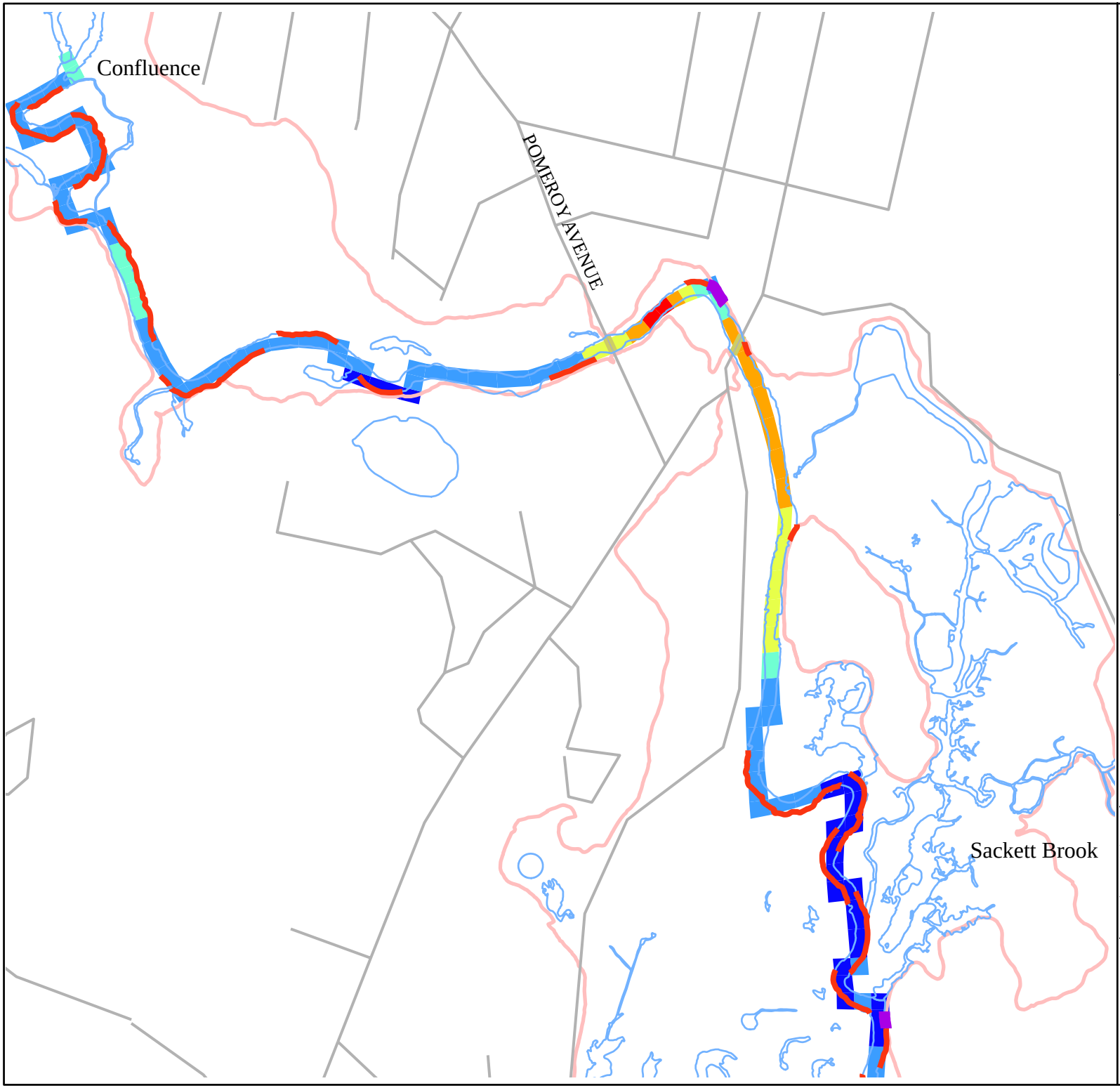
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

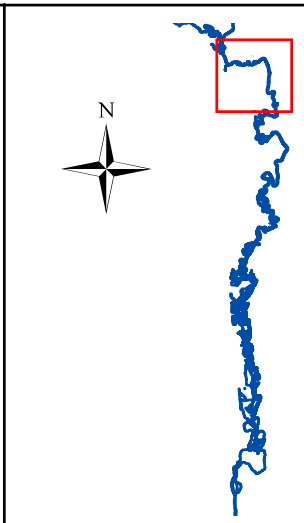
RESPONSE TO EPA INTERIM COMMENTS ON CMS REPORT

PROPOSED FACILITY LOCATION

ARCADIS

FIGURE
GC3-1





SCALE

1,000 500 0 Feet

LEGEND

- Existing Rip Rap (EPA)
- Observed Bank Erosion (EPA)
- Surface Water
- Bridge (or Former Bridge) Crossings
- Major Roads
- 1 mg/kg PCB Isopleth

Maximum Shear Stress (dynes/cm2)

- 0 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- 200 - 250
- 250 - 300

Figure GC6-1a. Maximum shear stress at bank-full flow estimated from the EPA hydrodynamic model.

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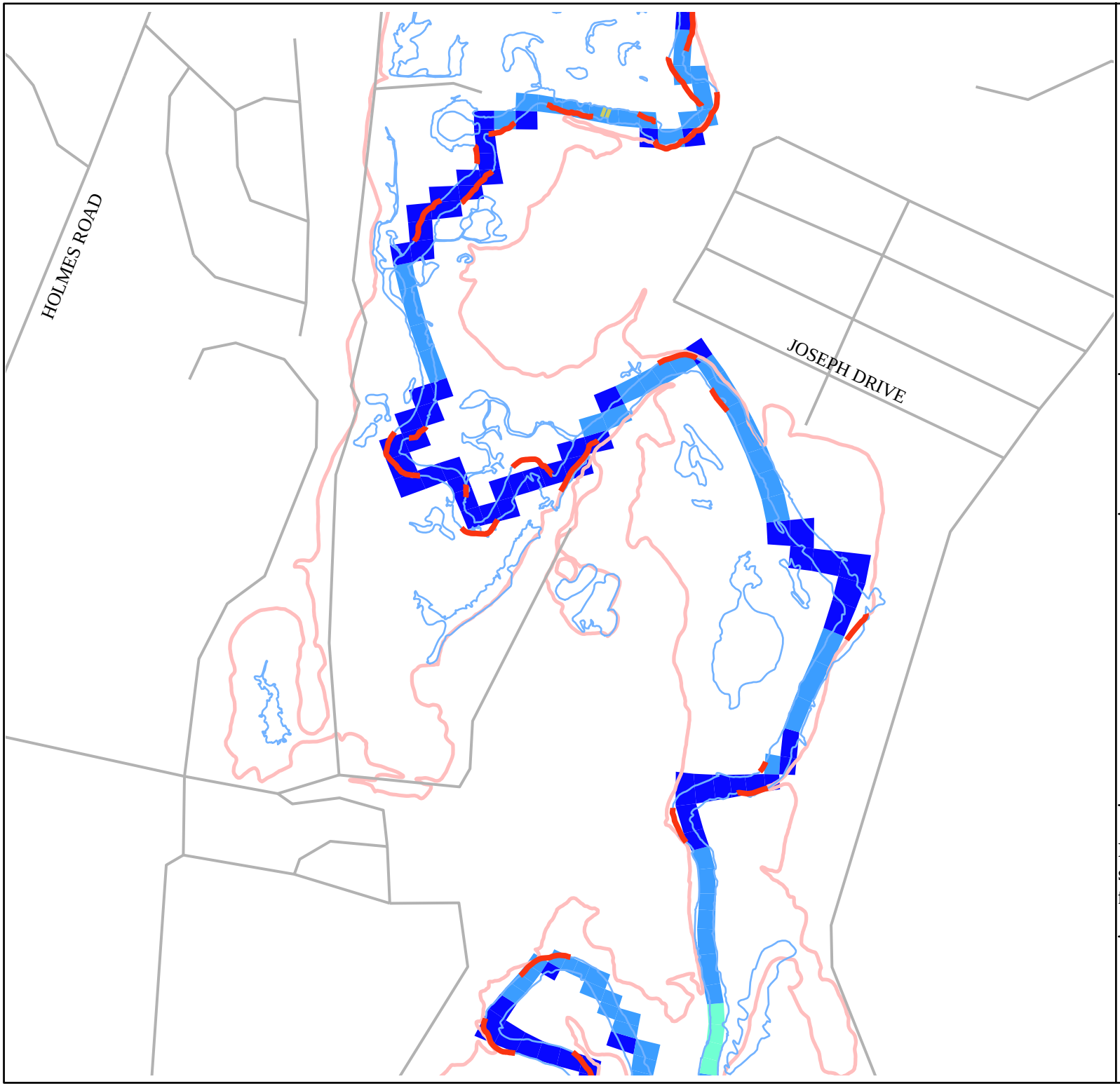

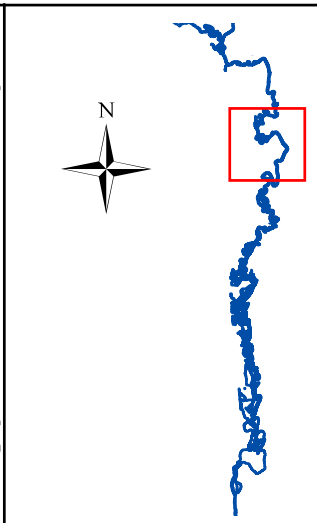

SCALE

1,000 500 0 Feet

LEGEND

- Existing Rip Rap (EPA)
- Observed Bank Erosion (EPA)
- Surface Water
- Bridge (or Former Bridge) Crossings
- Major Roads
- 1 mg/kg PCB Isopleth

Maximum Shear Stress (dynes/cm2)

- 0 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- 200 - 250
- 250 - 300

Figure GC6-1b. Maximum shear stress at bank-full flow estimated from the EPA hydrodynamic model.

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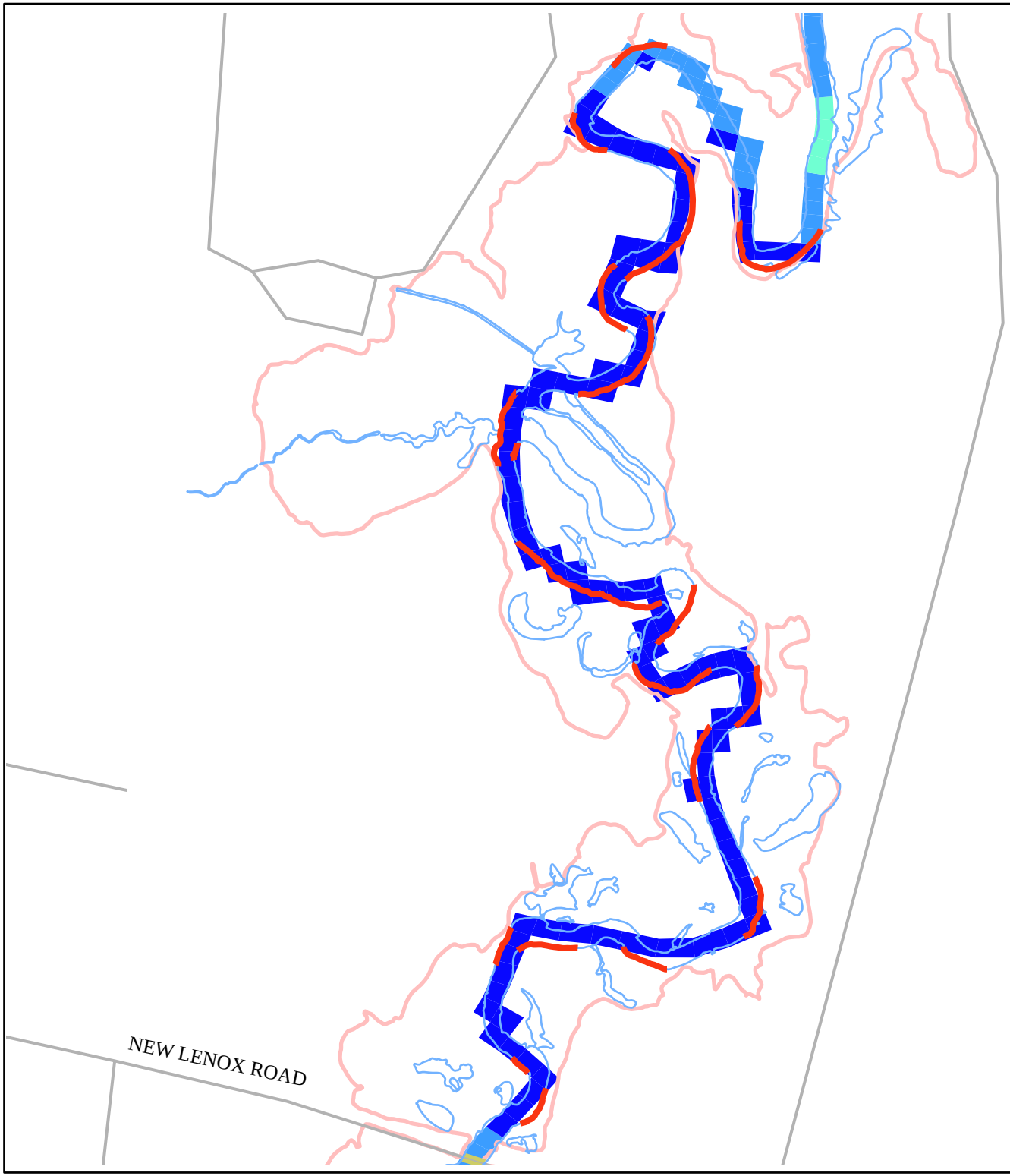

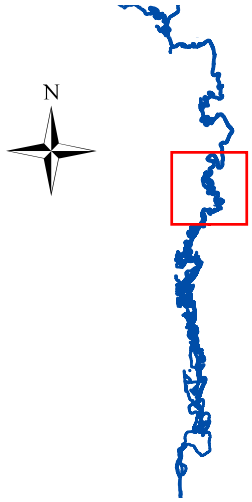

SCALE

1,000 500 0 Feet

LEGEND

- Existing Rip Rap (EPA)
- Observed Bank Erosion (EPA)
- Surface Water
- Bridge (or Former Bridge) Crossings
- Major Roads
- 1 mg/kg PCB Isopleth

Maximum Shear Stress (dynes/cm2)

- 0 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- 200 - 250
- 250 - 300

Figure GC6-1c. Maximum shear stress at bank-full flow estimated from the EPA hydrodynamic model.

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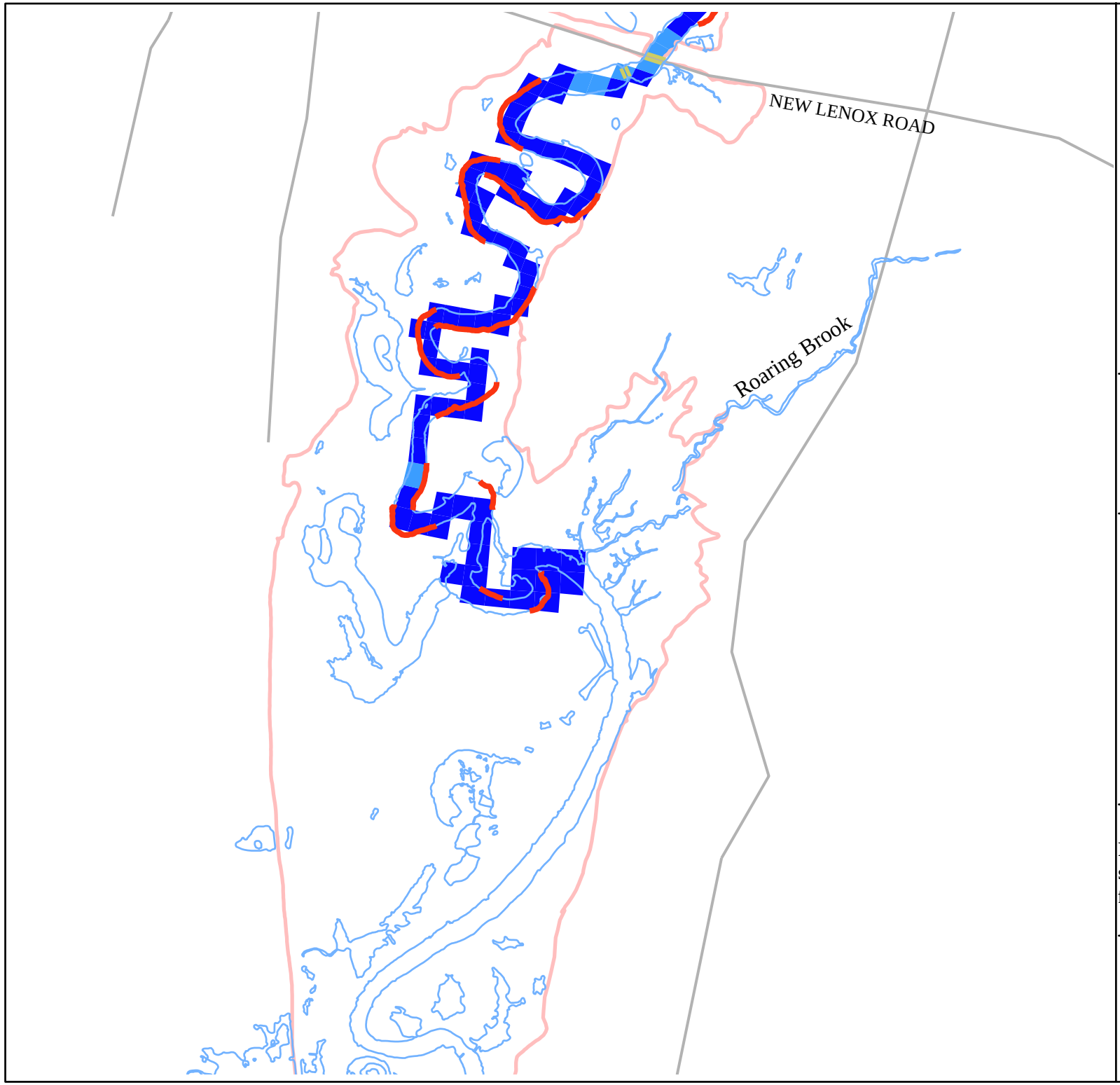

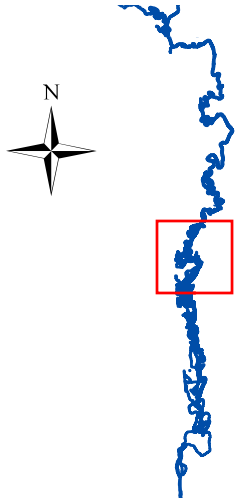

SCALE

1,000 500 0 Feet

LEGEND

- Existing Rip Rap (EPA)
- Observed Bank Erosion (EPA)
- Surface Water
- Bridge (or Former Bridge) Crossings
- Major Roads
- 1 mg/kg PCB Isopleth

Maximum Shear Stress (dynes/cm2)

- 0 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- 200 - 250
- 250 - 300

Figure GC6-1d. Maximum shear stress at bank-full flow estimated from the EPA hydrodynamic model.

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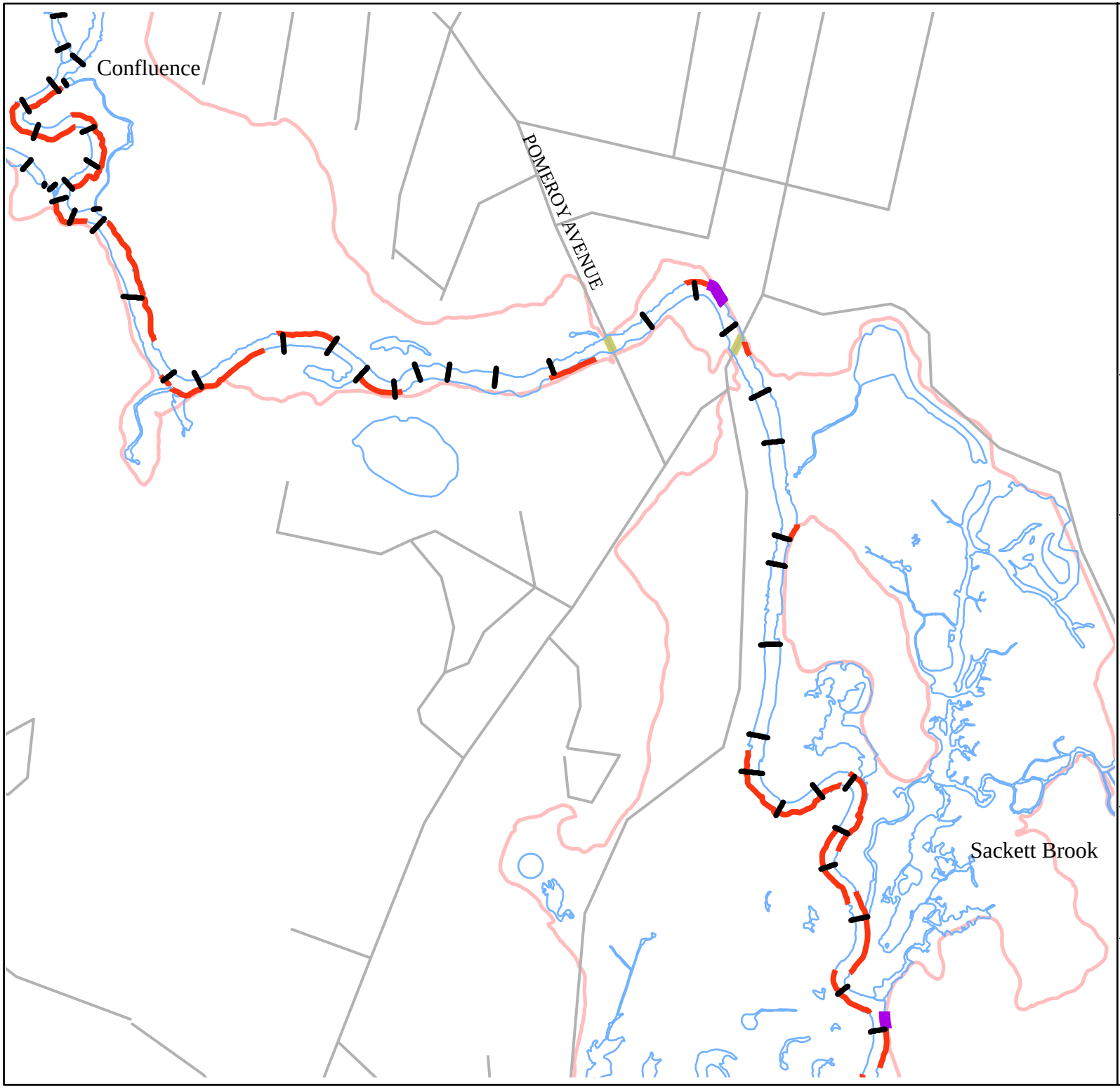

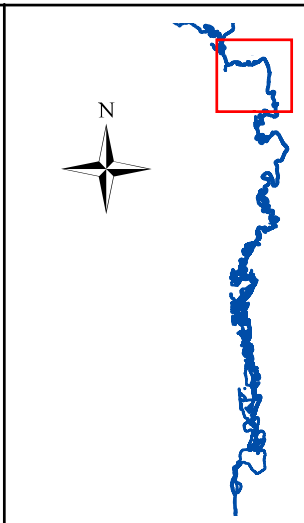

SCALE

1,000 500 0 Feet

LEGEND

- Existing Rip Rap (EPA)
- Observed Bank Erosion (EPA)
- Surface Water
- Bridge (or Former Bridge) Crossings
- Major Roads
- 1 mg/kg PCB Isopleth
- EPA Bathymetry Transects

Figure GC6-2a. EPA 1998 bathymetric survey transect locations.

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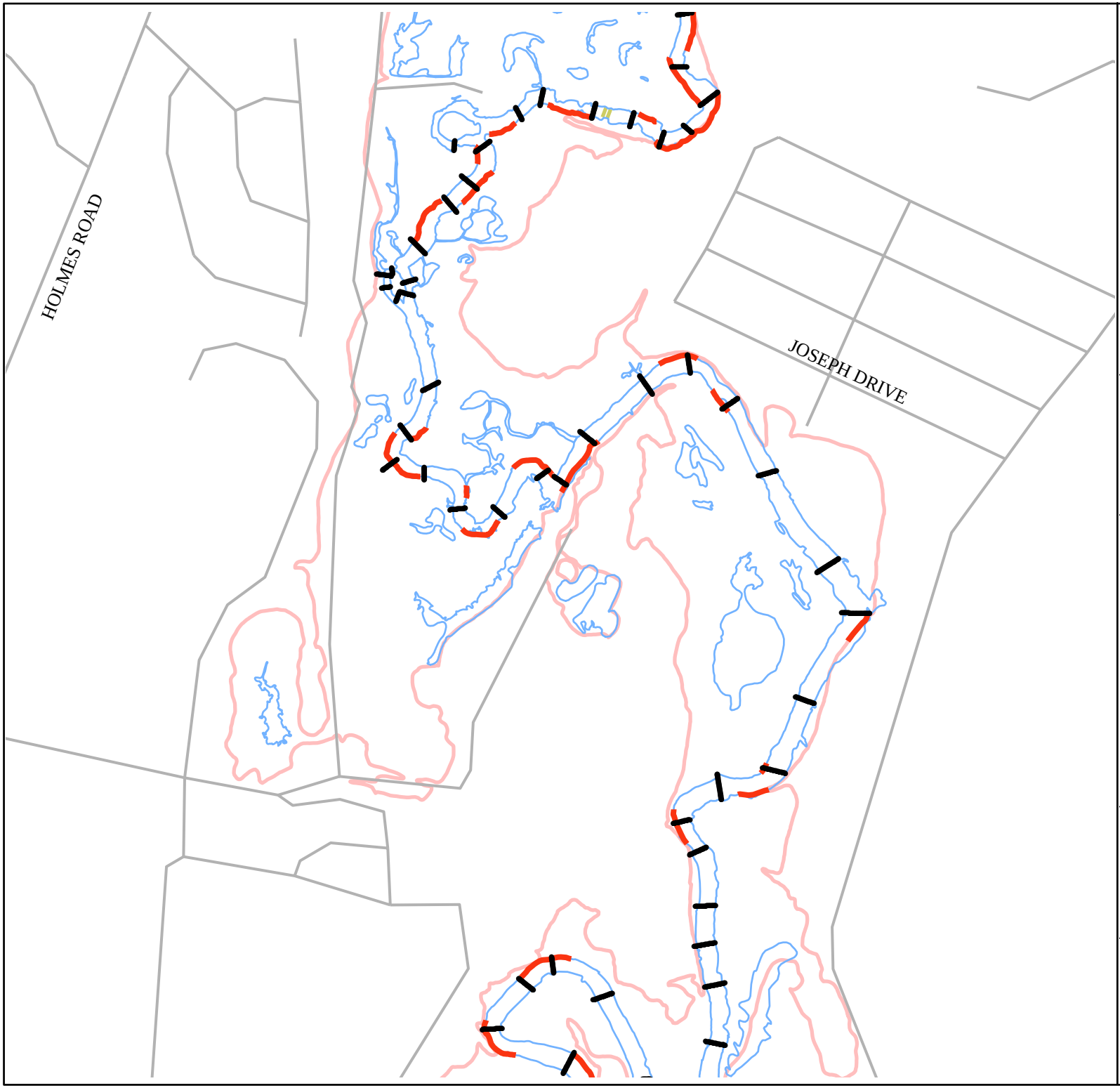

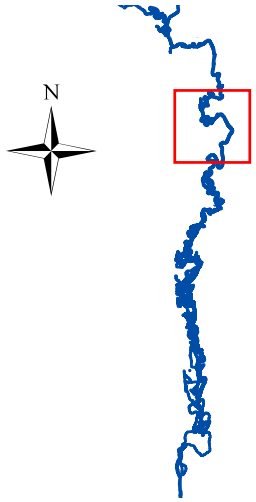

SCALE

1,000 500 0 Feet

LEGEND

- Existing Rip Rap (EPA)
- Observed Bank Erosion (EPA)
- Surface Water
- Bridge (or Former Bridge) Crossings
- Major Roads
- 1 mg/kg PCB Isopleth
- EPA Bathymetry Transects

Figure GC6-2b. EPA 1998 bathymetric survey transect locations.

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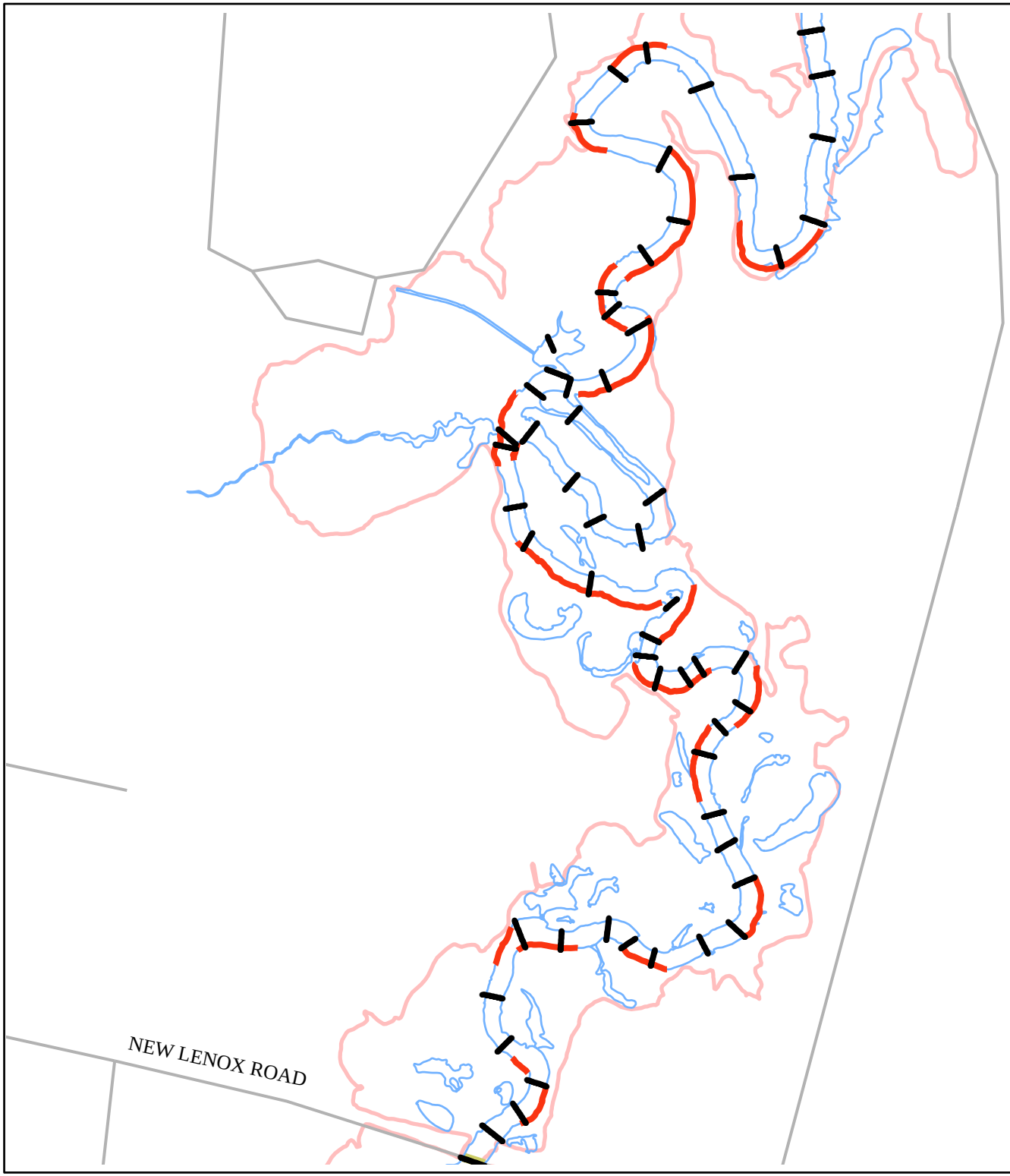

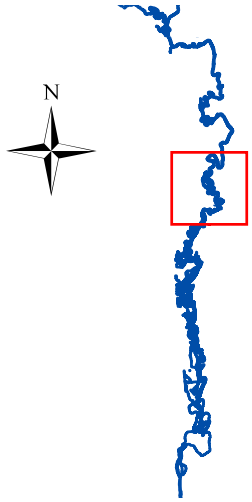

SCALE

1,000 500 0 Feet

LEGEND

- Existing Rip Rap (EPA)
- Observed Bank Erosion (EPA)
- Surface Water
- Bridge (or Former Bridge) Crossings
- Major Roads
- 1 mg/kg PCB Isopleth
- EPA Bathymetry Transects

Figure GC6-2c. EPA 1998 bathymetric survey transect locations.

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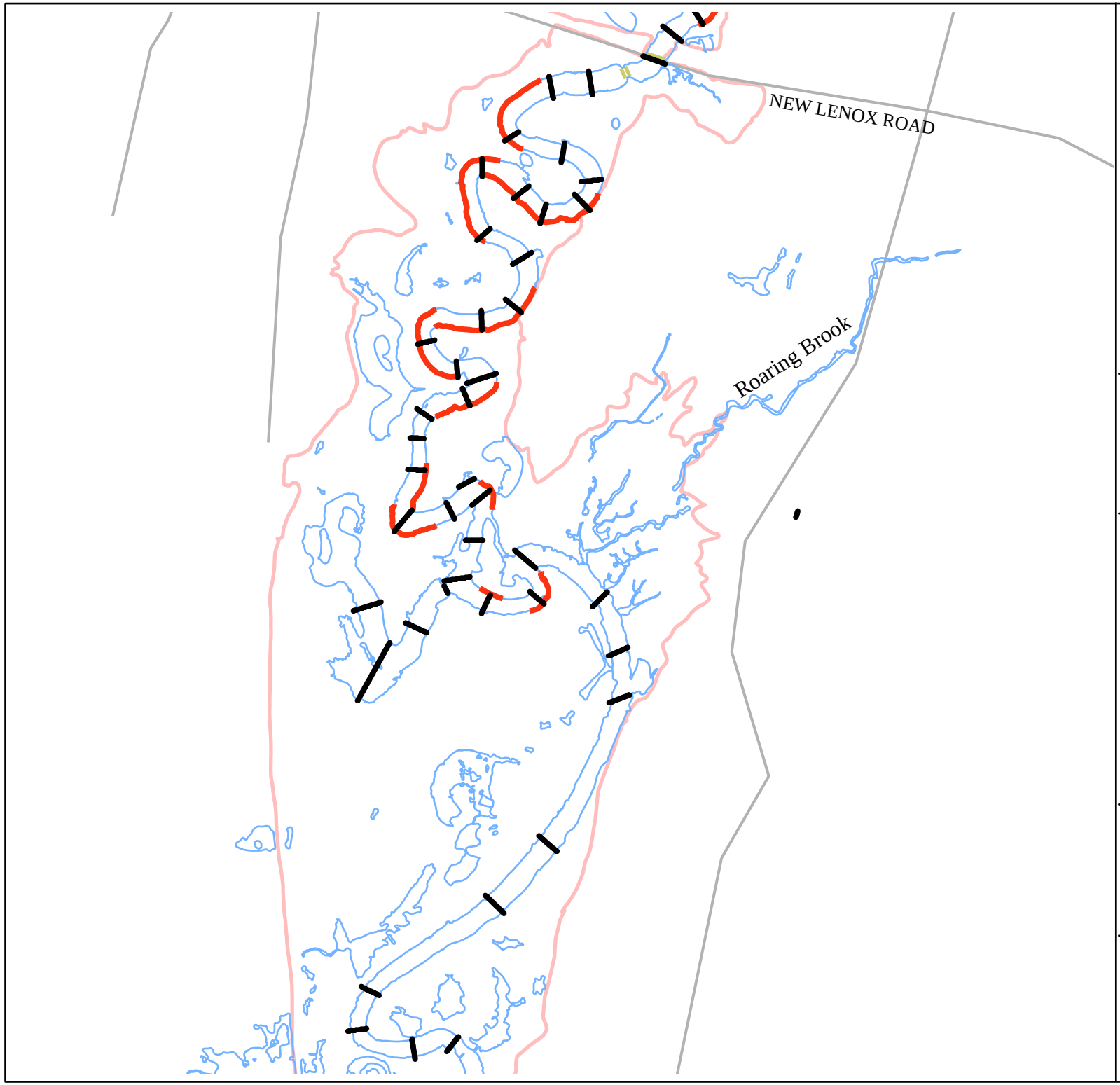

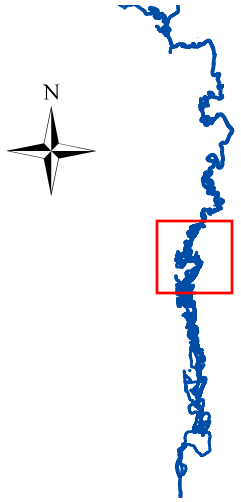

SCALE

1,000 500 0 Feet

LEGEND

- Existing Rip Rap (EPA)
- Observed Bank Erosion (EPA)
- Surface Water
- Bridge (or Former Bridge) Crossings
- Major Roads
- 1 mg/kg PCB Isopleth
- EPA Bathymetry Transects

Figure GC6-2d. EPA 1998 bathymetric survey transect locations.

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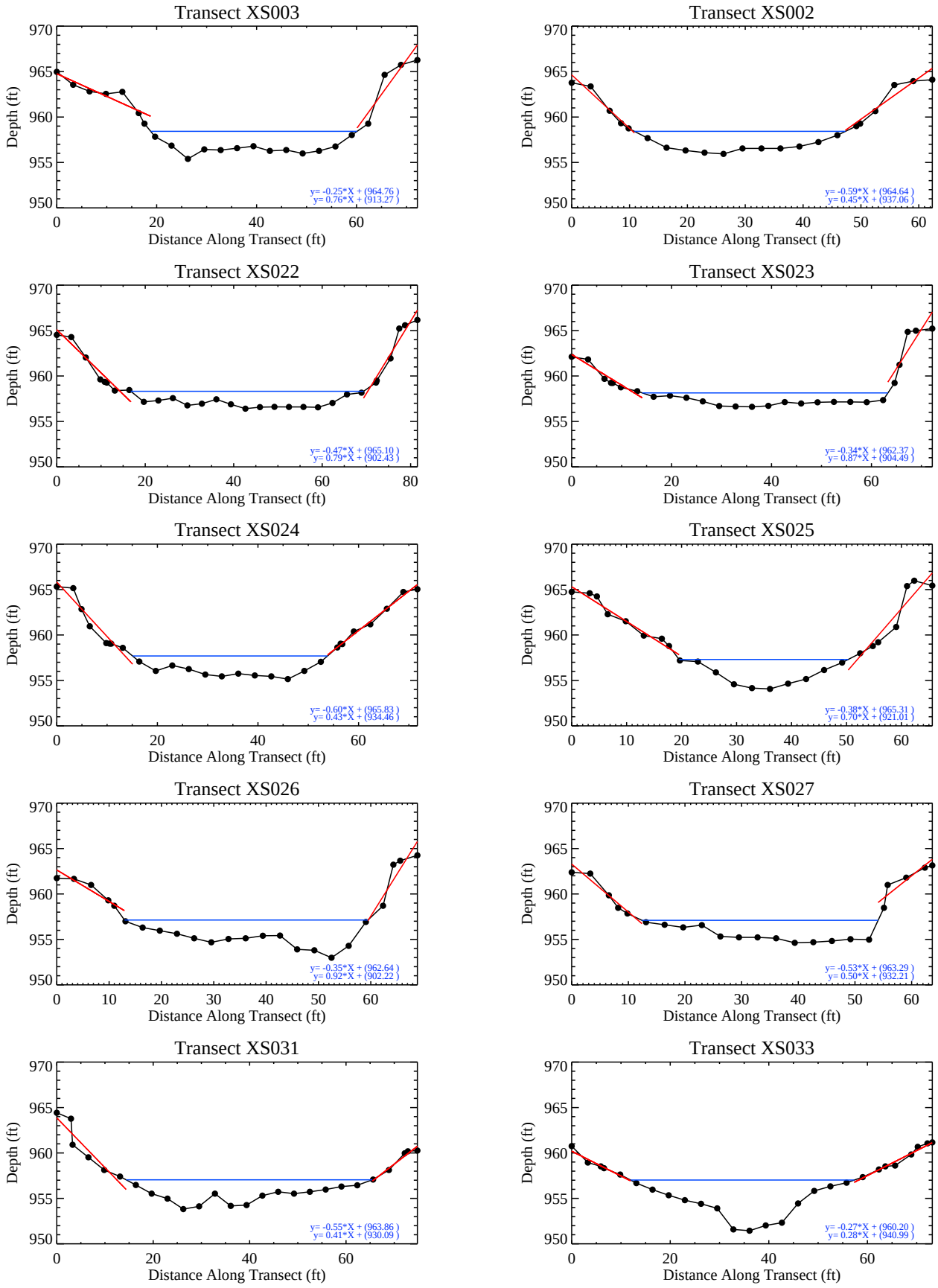
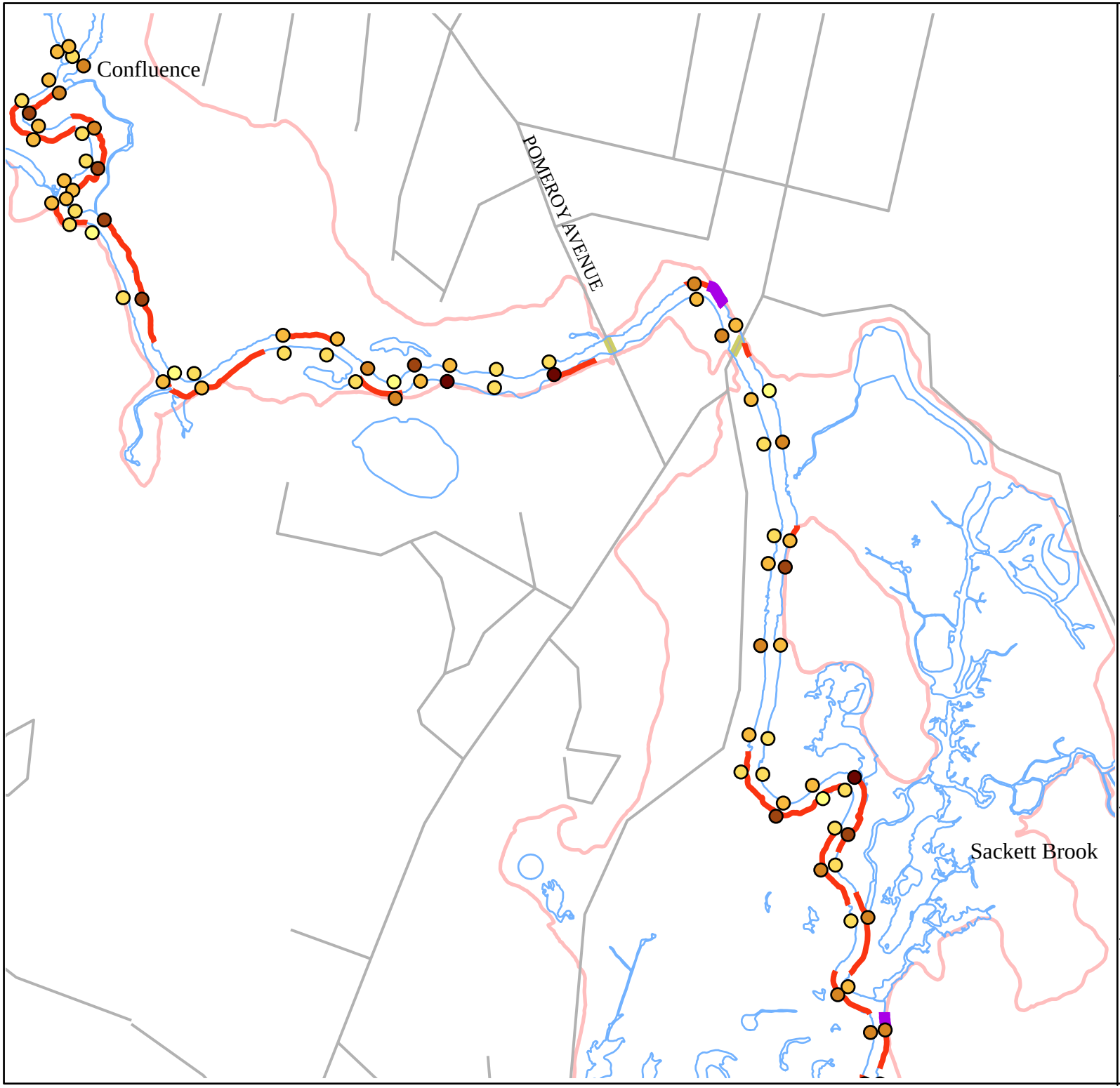
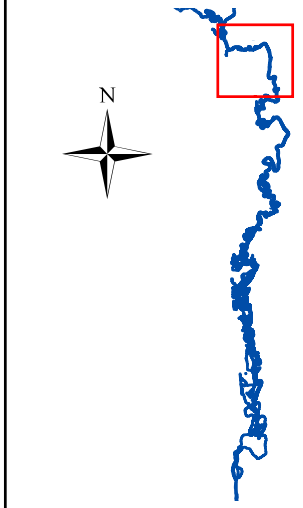


Figure GC6-2e. EPA transect data from Reach 5A used to calculate bank slope.





SCALE

1,000 500 0 Feet

LEGEND

- Existing Rip Rap (EPA)
- Observed Bank Erosion (EPA)
- Surface Water
- Bridge (or Former Bridge) Crossings
- Major Roads
- 1 mg/kg PCB Isopleth

Estimated Existing Bank Slope

- 0 - 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1
- > 1

Figure GC6-3a. Existing bank slopes calculated from EPA 1998 bathymetric survey data.

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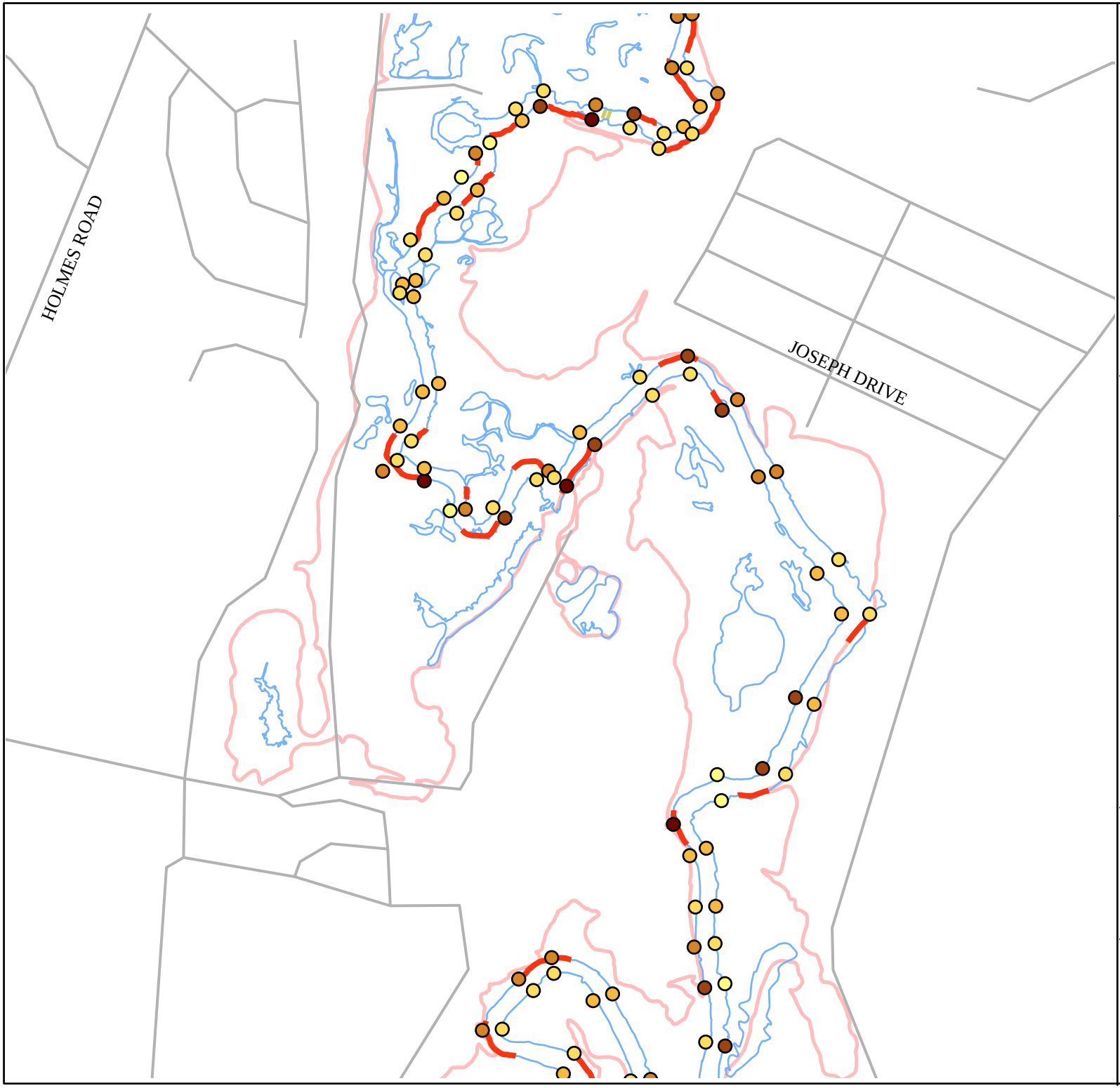

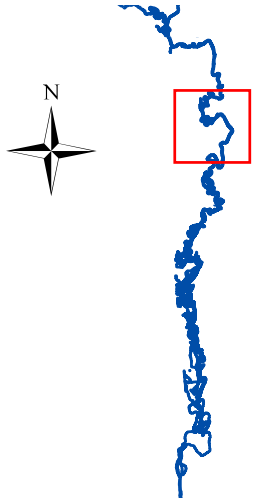

SCALE

1,000 500 0 Feet

LEGEND

- Existing Rip Rap (EPA)
- Observed Bank Erosion (EPA)
- Surface Water
- Bridge (or Former Bridge) Crossings
- Major Roads
- 1 mg/kg PCB Isopleth

Estimated Existing Bank Slope

- 0 - 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1
- > 1

Figure GC6-3b. Existing bank slopes calculated from EPA 1998 bathymetric survey data.

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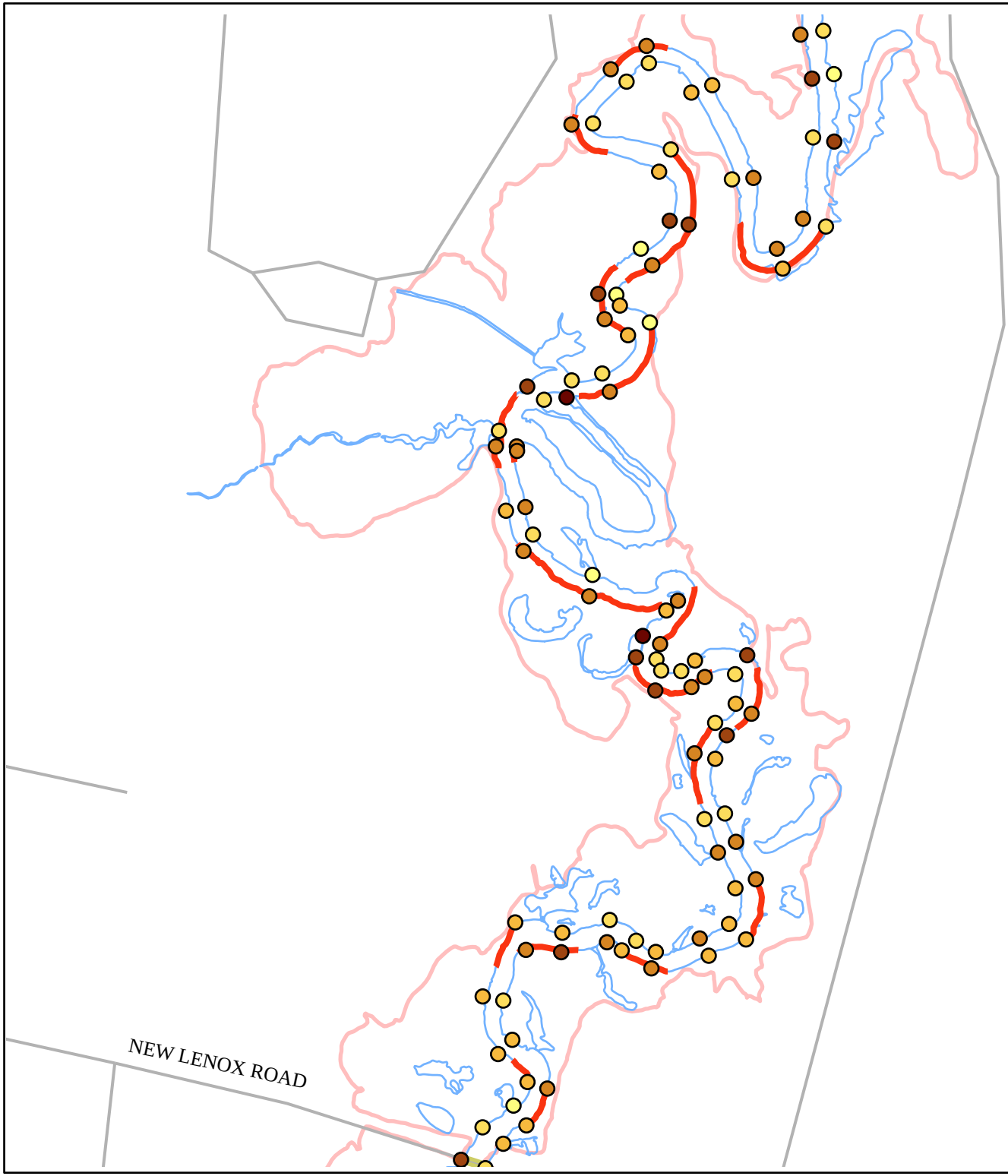

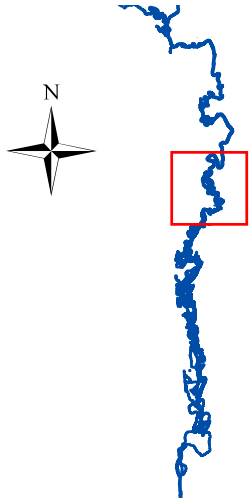

SCALE

1,000 500 0 Feet

LEGEND

- Existing Rip Rap (EPA)
- Observed Bank Erosion (EPA)
- Surface Water
- Bridge (or Former Bridge) Crossings
- Major Roads
- 1 mg/kg PCB Isopleth

Estimated Existing Bank Slope

- 0 - 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1
- > 1

Figure GC6-3c. Existing bank slopes calculated from EPA 1998 bathymetric survey data.

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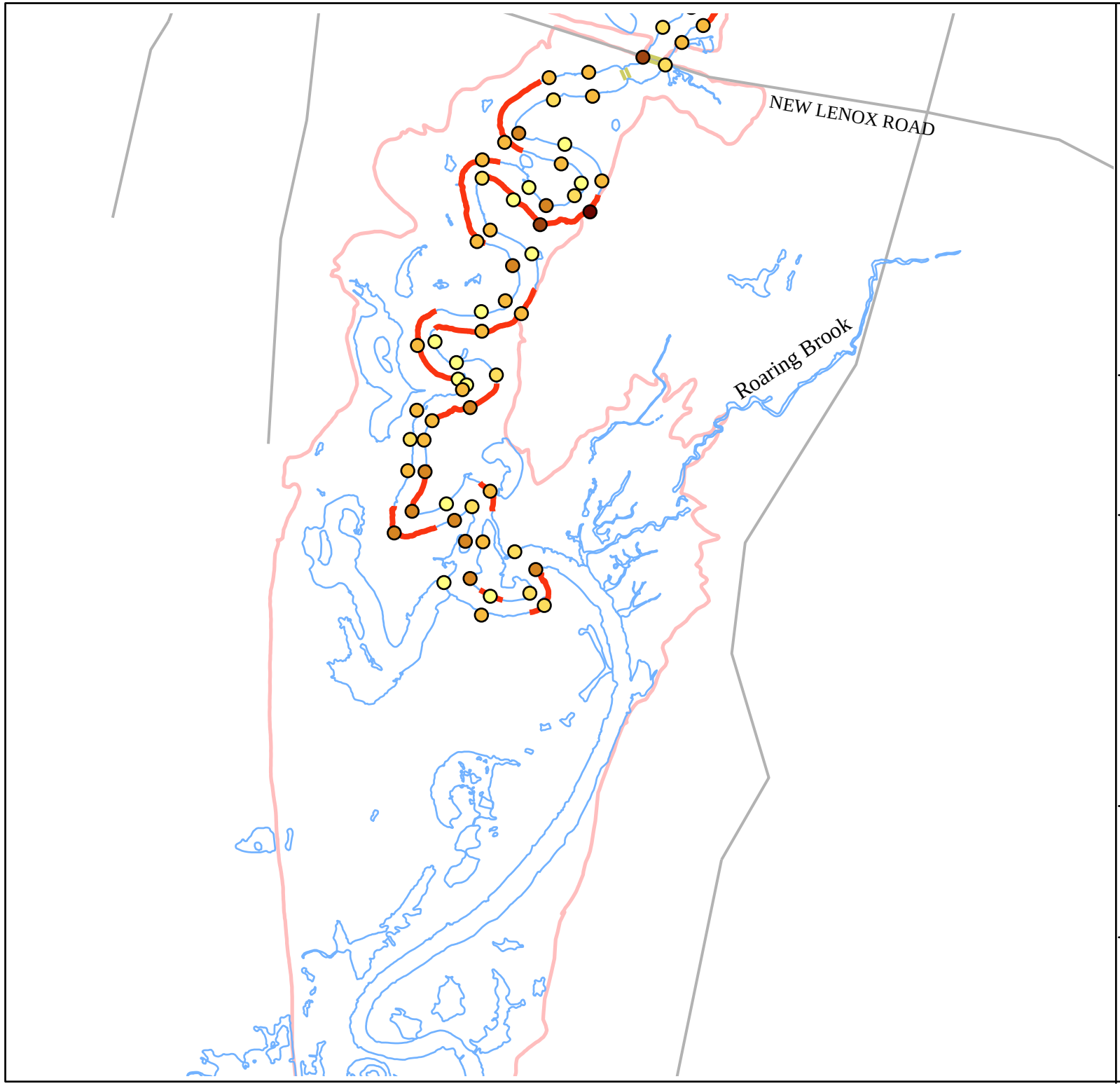

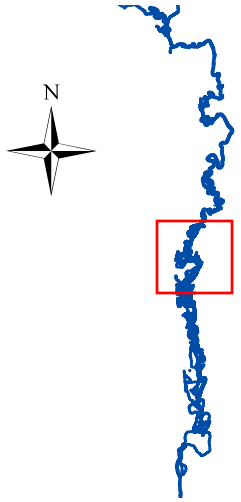

SCALE

1,000 500 0 Feet

LEGEND

- Existing Rip Rap (EPA)
- Observed Bank Erosion (EPA)
- Surface Water
- Bridge (or Former Bridge) Crossings
- Major Roads
- 1 mg/kg PCB Isopleth

Estimated Existing Bank Slope

- 0 - 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1
- > 1

Figure GC6-3d. Existing bank slopes calculated from EPA 1998 bathymetric survey data.

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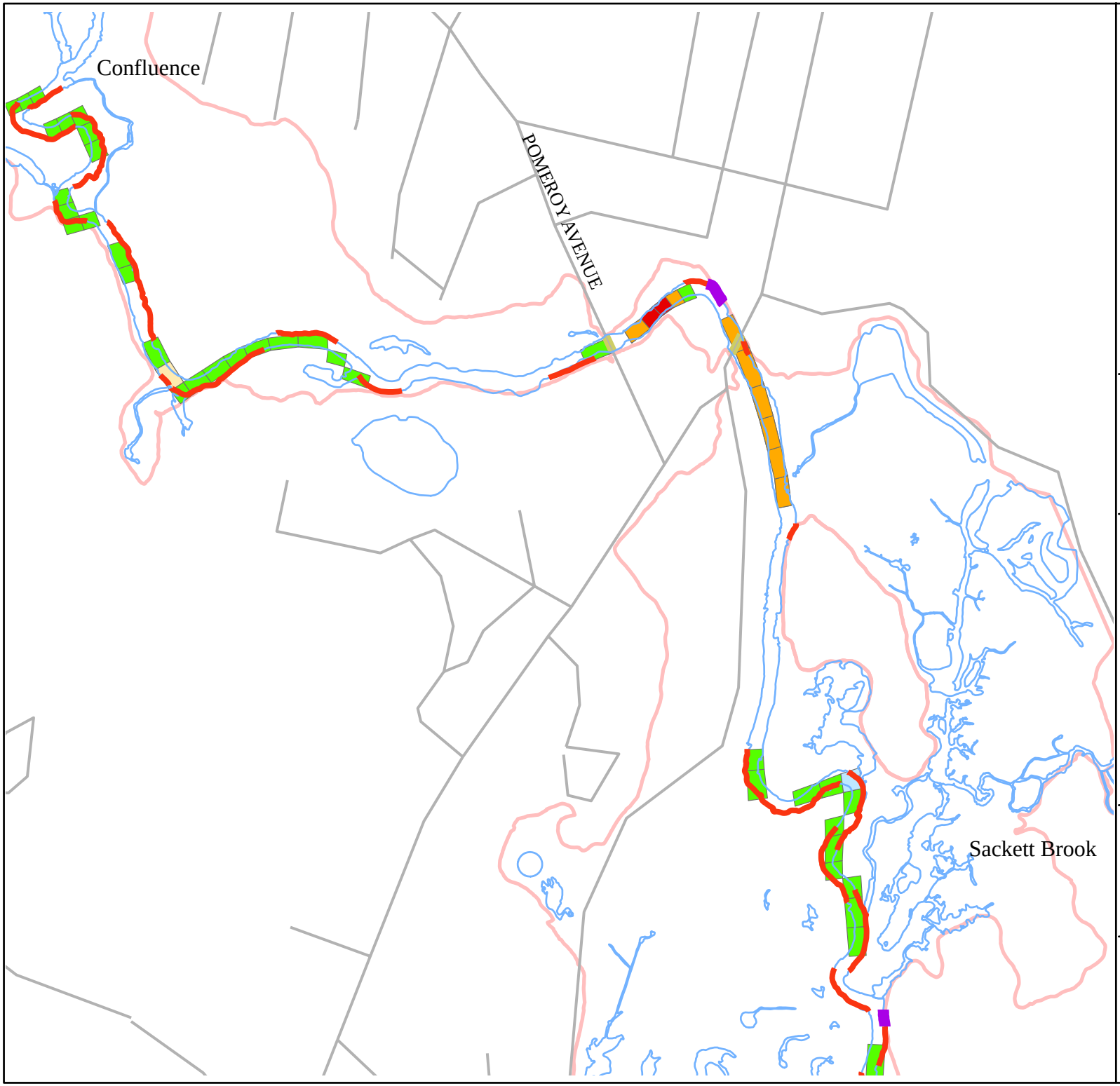

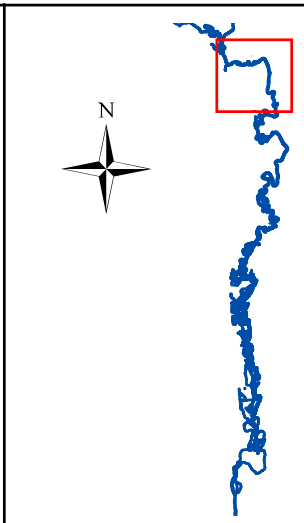

SCALE

1,000 500 0 Feet

LEGEND

- Existing Rip Rap (EPA)
- Observed Bank Erosion (EPA)
- Surface Water
- Bridge (or Former Bridge) Crossings
- Major Roads
- 1 mg/kg PCB Isopleth

Unsuitable Areas Based on Maximum Shear Stress

- 200 - 250 dynes/cm2
- > 250 dynes/cm2

Unsuitable Areas Based on Bank Slope

- Average Bank Slope < 0.5
- Right Bank Slope < 0.5
- Left Bank Slope < 0.5

Figure GC6-4a. Areas where bioengineering would appear to be inapplicable for non-ecological reasons.

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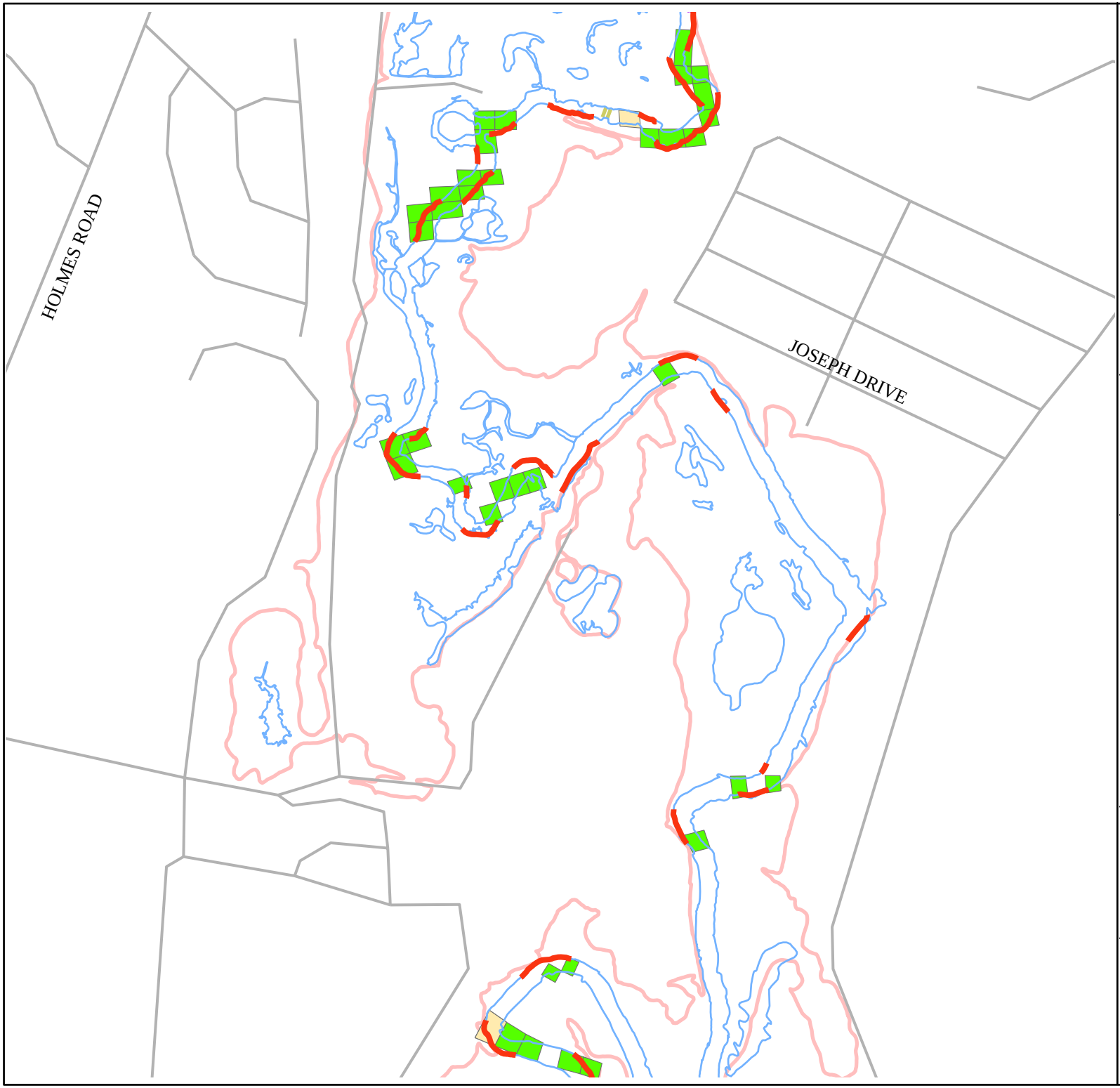

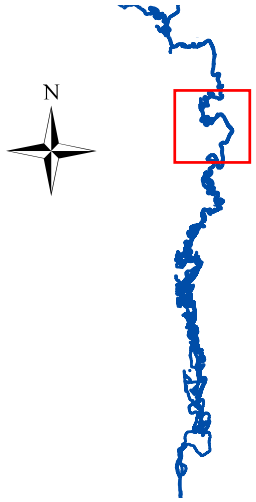

SCALE

1,000 500 0 Feet

LEGEND

- Existing Rip Rap (EPA)
- Observed Bank Erosion (EPA)
- Surface Water
- Bridge (or Former Bridge) Crossings
- Major Roads
- 1 mg/kg PCB Isopleth

Unsuitable Areas Based on Maximum Shear Stress

- 200 - 250 dynes/cm2
- > 250 dynes/cm2

Unsuitable Areas Based on Bank Slope

- Average Bank Slope < 0.5
- Right Bank Slope < 0.5
- Left Bank Slope < 0.5

Figure GC6-4b. Areas where bioengineering would appear to be inapplicable for non-ecological reasons.

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March 2009

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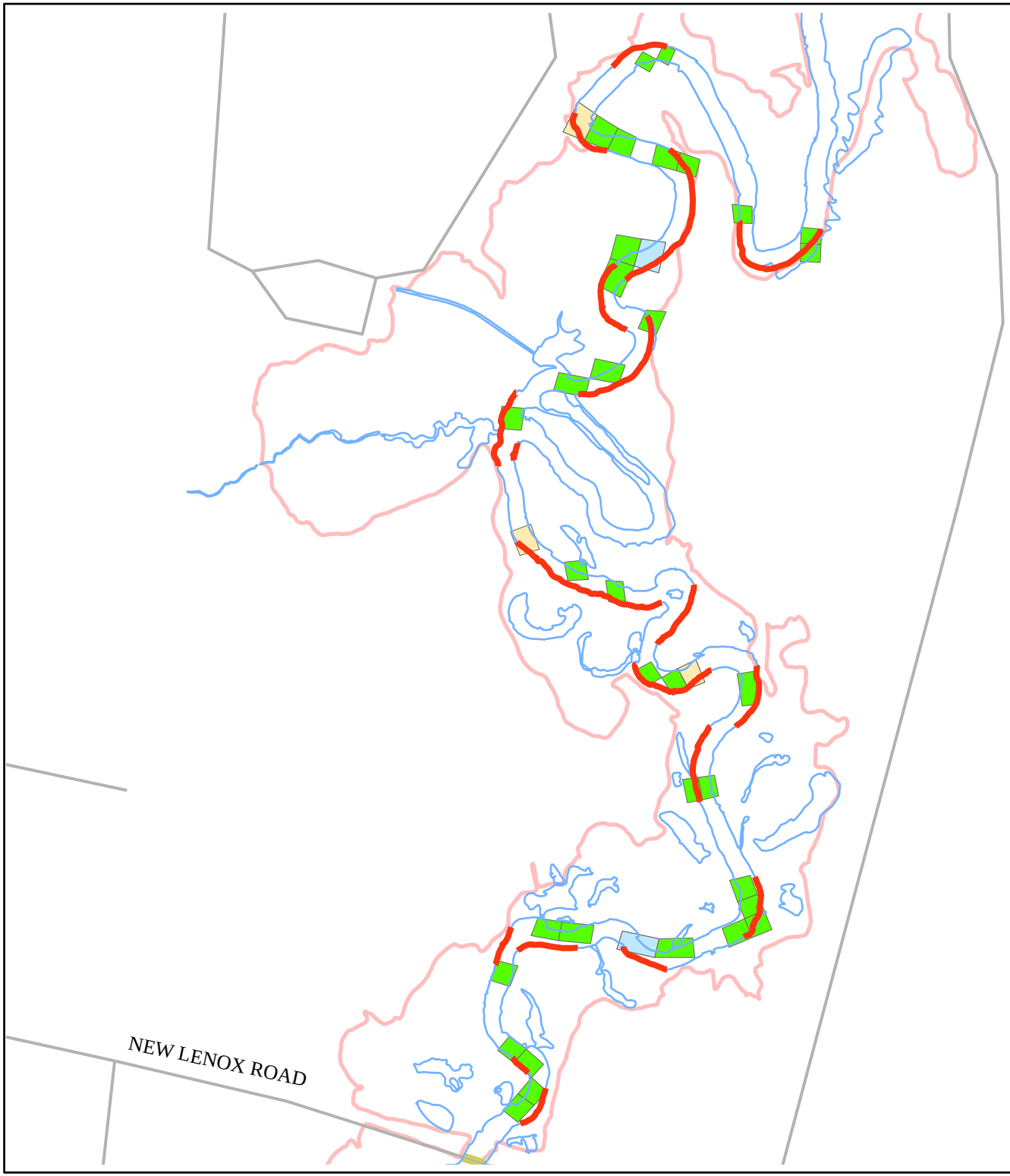

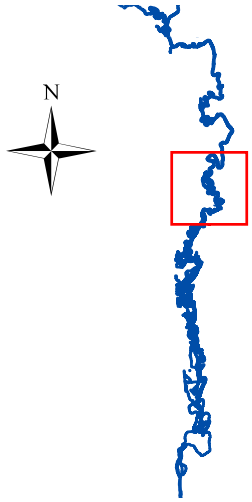

SCALE

1,000 500 0 Feet

LEGEND

- Existing Rip Rap (EPA)
- Observed Bank Erosion (EPA)
- Surface Water
- Bridge (or Former Bridge) Crossings
- Major Roads
- 1 mg/kg PCB Isopleth

Unsuitable Areas Based on Maximum Shear Stress

- 200 - 250 dynes/cm2
- > 250 dynes/cm2

Unsuitable Areas Based on Bank Slope

- Average Bank Slope < 0.5
- Right Bank Slope < 0.5
- Left Bank Slope < 0.5

Figure GC6-4c. Areas where bioengineering would appear to be inapplicable for non-ecological reasons.

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March 2009

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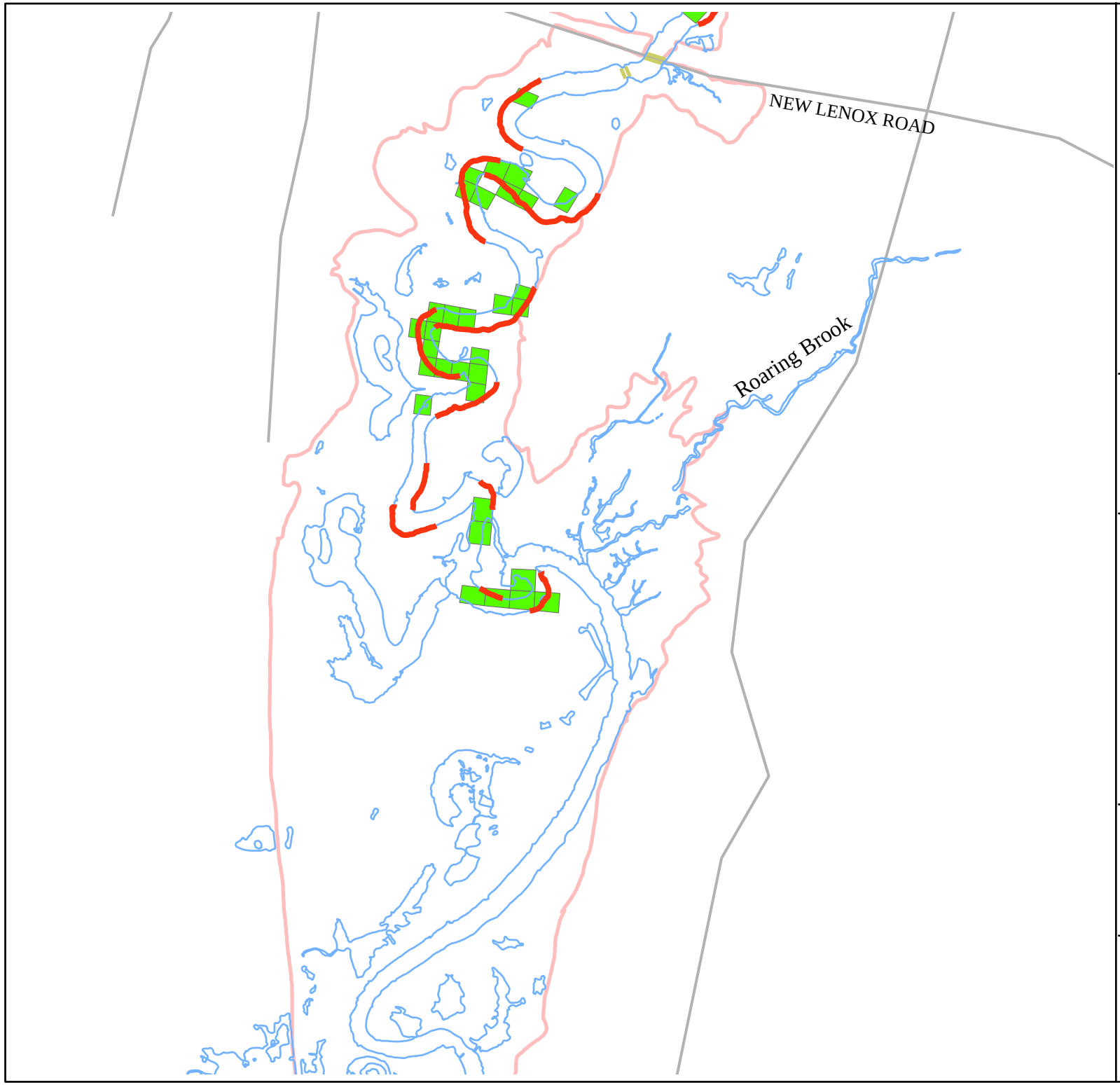

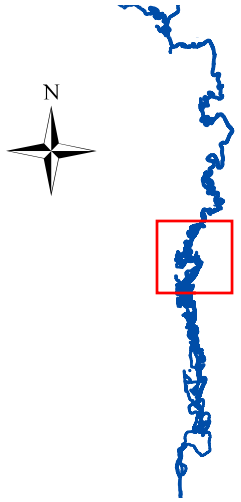

SCALE

1,000 500 0 Feet

LEGEND

- Existing Rip Rap (EPA)
- Observed Bank Erosion (EPA)
- Surface Water
- Bridge (or Former Bridge) Crossings
- Major Roads
- 1 mg/kg PCB Isopleth

Unsuitable Areas Based on Maximum Shear Stress

- 200 - 250 dynes/cm2
- > 250 dynes/cm2

Unsuitable Areas Based on Bank Slope

- Average Bank Slope < 0.5
- Right Bank Slope < 0.5
- Left Bank Slope < 0.5

Figure GC6-4d. Areas where bioengineering would appear to be inapplicable for non-ecological reasons.

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March 2009

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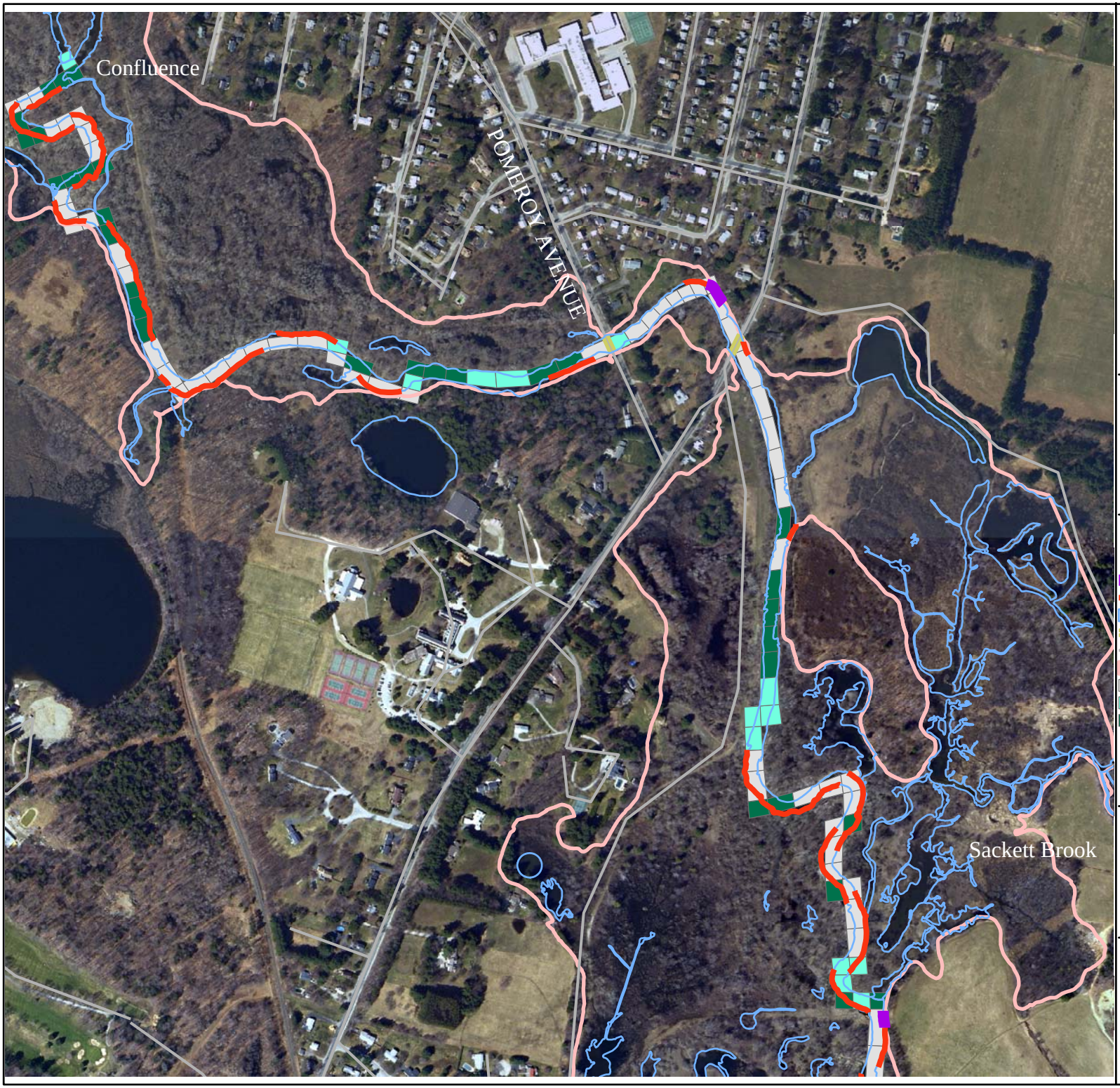

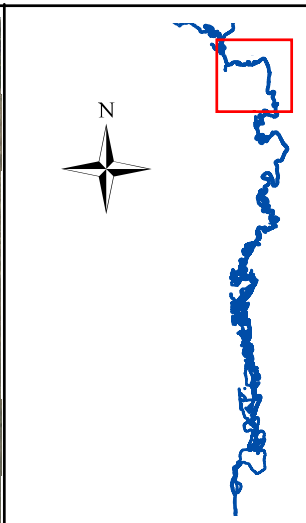

SCALE

1,000 500 0 Feet

LEGEND

- Existing Rip Rap (EPA)
- Observed Bank Erosion (EPA)
- Surface Water
- Bridge (or Former Bridge) Crossings
- Major Roads
- 1 mg/kg PCB Isopleth
- Bioengineering not applicable
- Feasible under existing conditions
- Feasible with slope reduced

Figure GC6-5a. Potential locations where bioengineering could be considered based on non-ecological factors.

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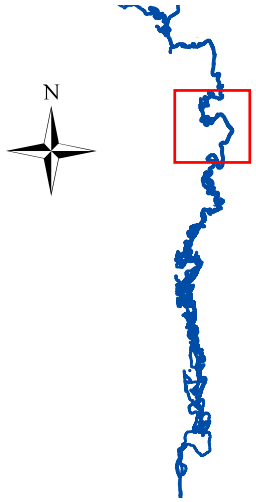

SCALE

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LEGEND

- Existing Rip Rap (EPA)
- Observed Bank Erosion (EPA)
- Surface Water
- Bridge (or Former Bridge) Crossings
- Major Roads
- 1 mg/kg PCB Isopleth
- Bioengineering not applicable
- Feasible under existing conditions
- Feasible with slope reduced

Figure GC6-5b. Potential locations where bioengineering could be considered based on non-ecological factors.

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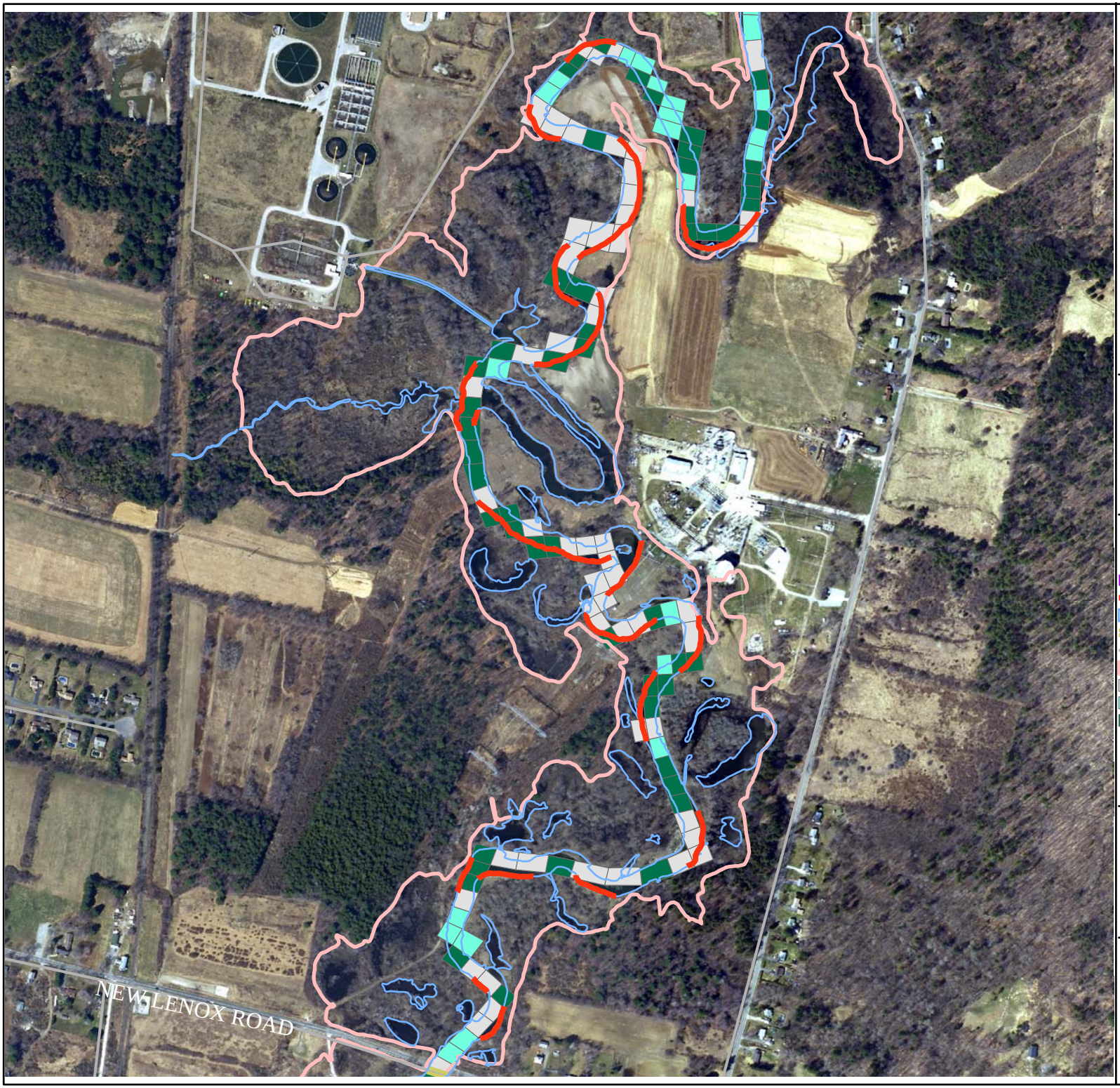

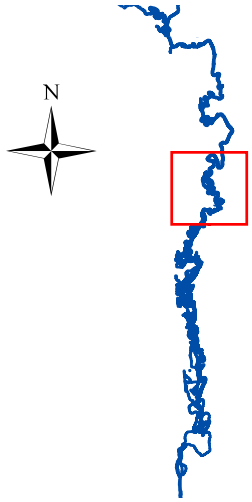

SCALE

1,000 500 0 Feet

LEGEND

- Existing Rip Rap (EPA)
- Observed Bank Erosion (EPA)
- Surface Water
- Bridge (or Former Bridge) Crossings
- Major Roads
- 1 mg/kg PCB Isopleth
- Bioengineering not applicable
- Feasible under existing conditions
- Feasible with slope reduced

Figure GC6-5c. Potential locations where bioengineering could be considered based on non-ecological factors.

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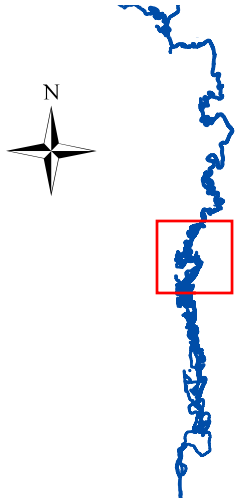

SCALE

1,000 500 0 Feet

LEGEND

- Existing Rip Rap (EPA)
- Observed Bank Erosion (EPA)
- Surface Water
- Bridge (or Former Bridge) Crossings
- Major Roads
- 1 mg/kg PCB Isopleth
- Bioengineering not applicable
- Feasible under existing conditions
- Feasible with slope reduced

Figure GC6-5d. Potential locations where bioengineering could be considered based on non-ecological factors.

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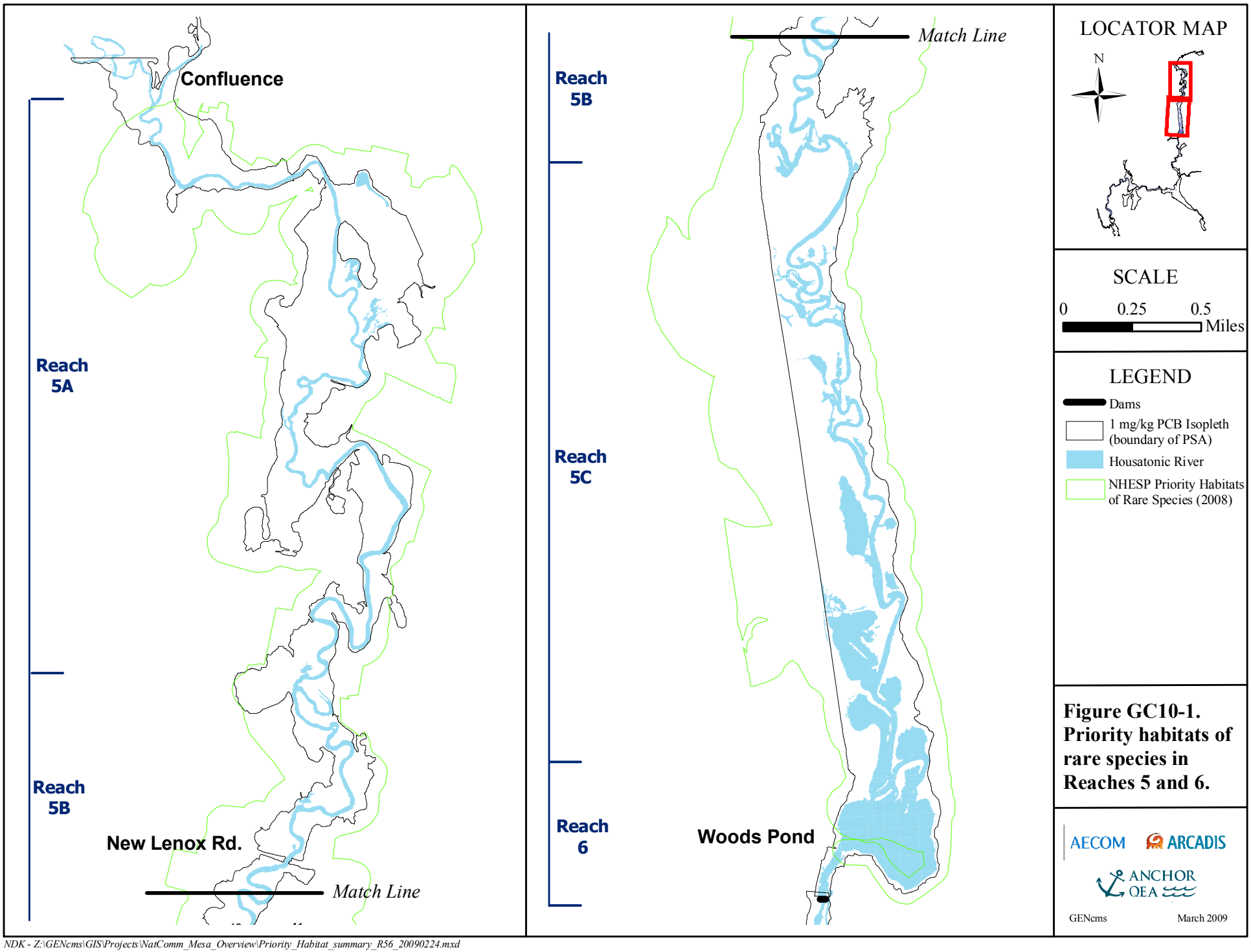

Figure GC10-1. Priority habitats of rare species in Reaches 5 and 6.

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Figure GC10-2a. Construction Timing to Minimize Rare Species Impacts in Reach 5A

Common Name	Latin Name	Construction Windows to Minimize Impacts to Rare Species in Reach 5A[1]											
		Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec
American bittern	*Botaurus lentiginosus*												
Arrow clubtail	*Stylurus spiniceps*												
Bristly buttercup	*Ranunculus pensylvanicus*												
Brook snaketail	*Ophiogomphus aspersus*												
Common moorhen	*Gallinula chloropus*												
Culver's root	*Veronicastrum virginicum*												
Fen cuckoo flower	*Cardamine pratensis* var. *palustris*												
Hairy wild rye	*Elymus villosus*												
Intermediate spike-rush	*Eleocharis intermedia*												
Mustard white (Butterfly)	*Pieris oleracea*												
Riffle snaketail	*Ophiogomphus carolus*												
Straight-leaved pondweed	*Potamogeton strictifolius*												
Triangle floater	*Alasmidonta undulata*												
Wapato	*Sagittaria cuneata*												
White adder's-mouth	*Malaxis monophyllos var. brachypoda*												
Wood turtle	*Glyptemys insculpta*												
Zebra clubtail	*Stylurus scudderi*												

[1] Green cells indicate time periods in which construction activities would have relatively less impacts, based on the life history cycles of each species. Red cells indicate time periods in which construction activities would have substantial impacts to the species.

Figure GC10-2b. Construction Timing to Minimize Rare Species Impacts in Reach 5B

Common Name	Latin Name	Construction Windows to Minimize Impacts to Rare Species in Reach 5B[1]											
		Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec
American bittern	*Botaurus lentiginosus*												
Arrow clubtail	*Stylurus spiniceps*												
Bur oak	*Quercus macrocarpa*												
Crooked-stem aster	*Symphyotrichum prenanthoides*												
Foxtail sedge	*Carex alopecoidea*												
Intermediate spike-rush	*Eleocharis intermedia*												
Jefferson salamander	*Ambystoma jeffersonianum*												
Mustard white (Butterfly)	*Pieris oleracea*												
Narrow-leaved Spring Beauty	*Claytonia virginica*												
Wapato	*Sagittaria cuneata*												
Wood turtle	*Glyptemys insculpta*												
Zebra clubtail	*Stylurus scudderi*												

[1] Green cells indicate time periods in which construction activities would have relatively less impacts, based on the life history cycles of each species. Red cells indicate time periods in which construction activities would have substantial impacts to the species.

Figure GC10-2c. Construction Timing to Minimize Rare Species Impacts in Reach 5C

Common Name	Latin Name	Construction Windows to Minimize Impacts to Rare Species in Reach 5C[1]											
		Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec
American bittern	*Botaurus lentiginosus*												
Arrow clubtail	*Stylurus spiniceps*												
Bald eagle	*Haliaeetus leucocephalus*												
Bristly buttercup	*Ranunculus pensylvanicus*												
Bur oak	*Quercus macrocarpa*												
Common moorhen	*Gallinula chloropus*												
Foxtail sedge	*Carex alopecoidea*												
Gray's sedge	*Carex grayi*												
Hemlock parsley	*Conioselinum chinense*												
Intermediate spike-rush	*Eleocharis intermedia*												
Jefferson salamander	*Ambystoma jeffersonianum*												
Mustard white (Butterfly)	*Pieris oleracea*												
Wapato	*Sagittaria cuneata*												
Water shrew	*Sorex palustris*												
Wood turtle	*Glyptemys insculpta*												
Zebra clubtail	*Stylurus scudderi*												

[1] Green cells indicate time periods in which construction activities would have relatively less impacts, based on the life history cycles of each species. Red cells indicate time periods in which construction activities would have substantial impacts to the species.

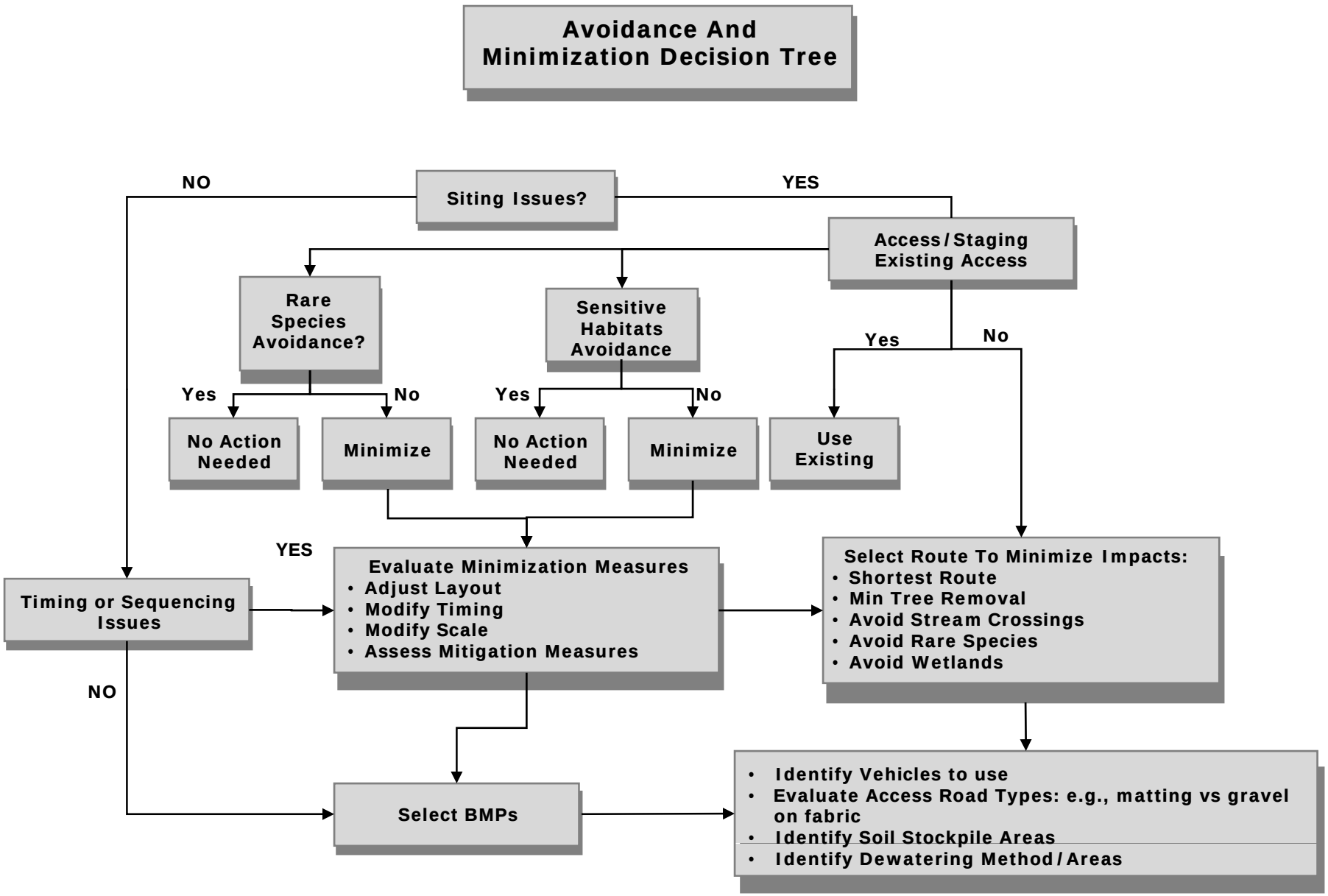
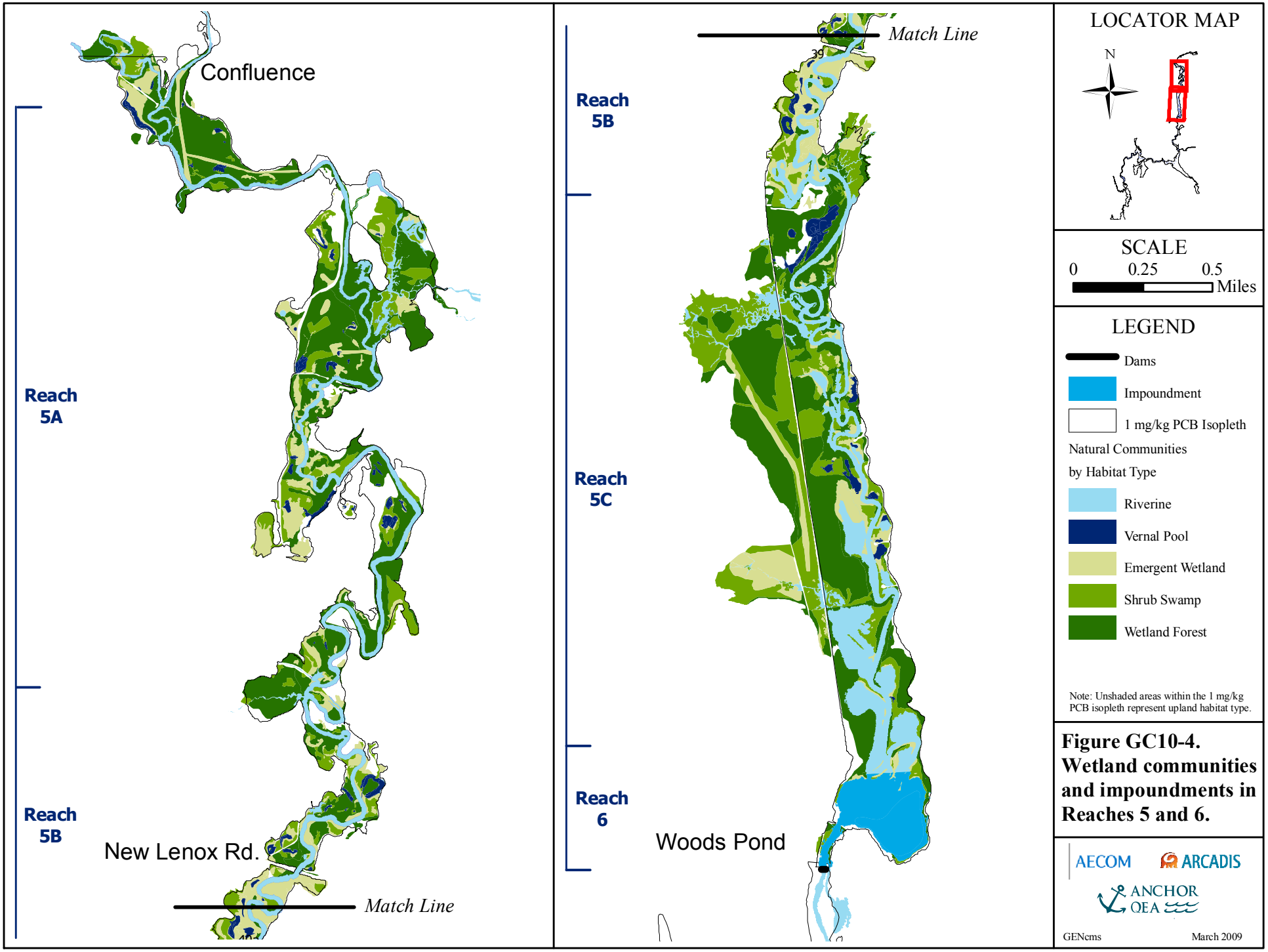


Figure GC10-3



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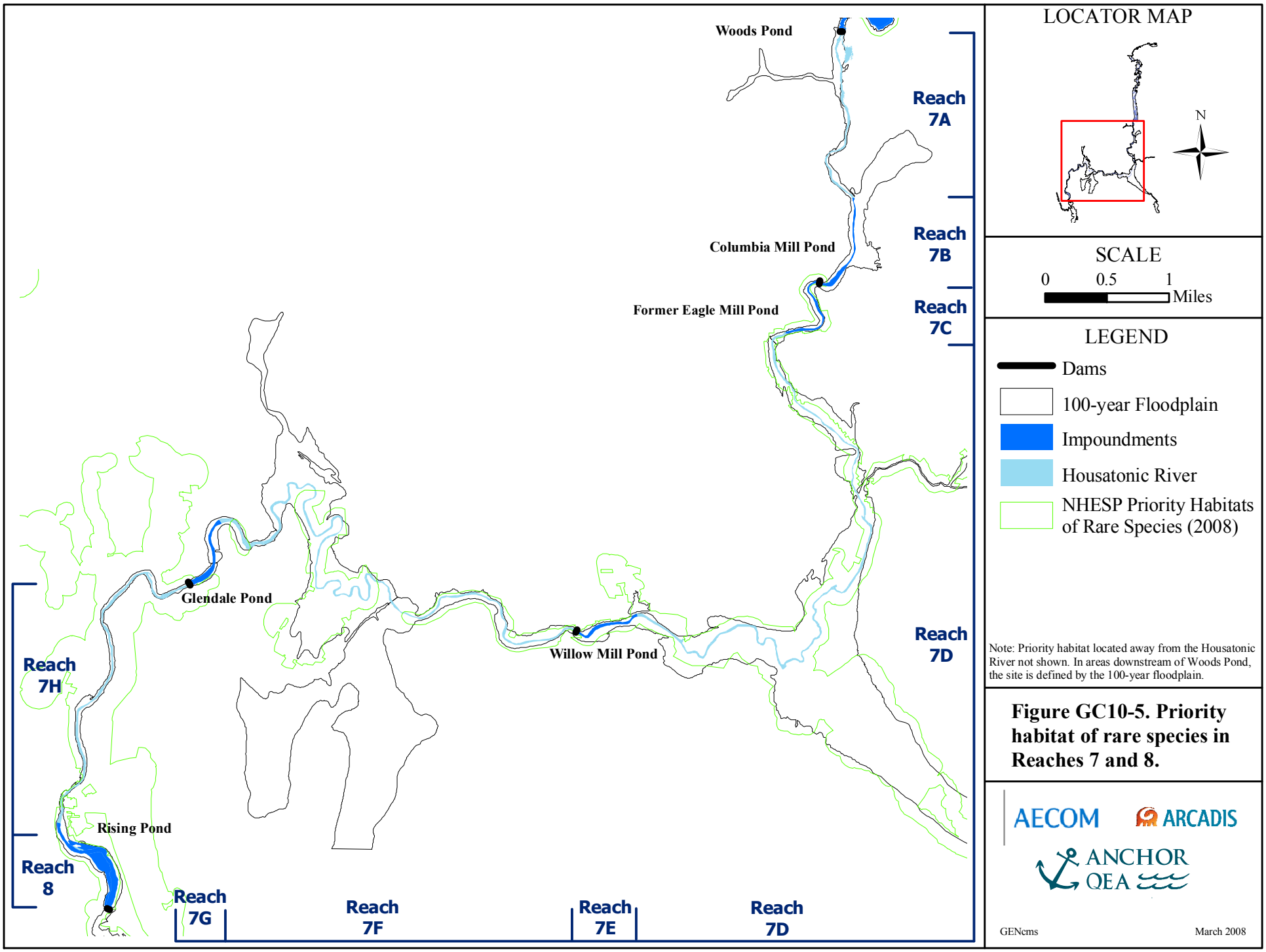
Woods Pond
Reach 7A
Reach 7B
Columbia Mill Pond
Reach 7C
Former Eagle Mill Pond
Glendale Pond
Willow Mill Pond
Reach 7D
Reach 7H
Rising Pond
Reach 8
Reach 7G
Reach 7F
Reach 7E
Reach 7D
LOCATOR MAP
N
SCALE
0 0.5 1
Miles
LEGEND
Dams
100-year Floodplain
Impoundments
Housatonic River
NHESP Priority Habitats of Rare Species (2008)
Note: Priority habitat located away from the Housatonic River not shown. In areas downstream of Woods Pond, the site is defined by the 100-year floodplain.
Figure GC10-5. Priority habitat of rare species in Reaches 7 and 8.
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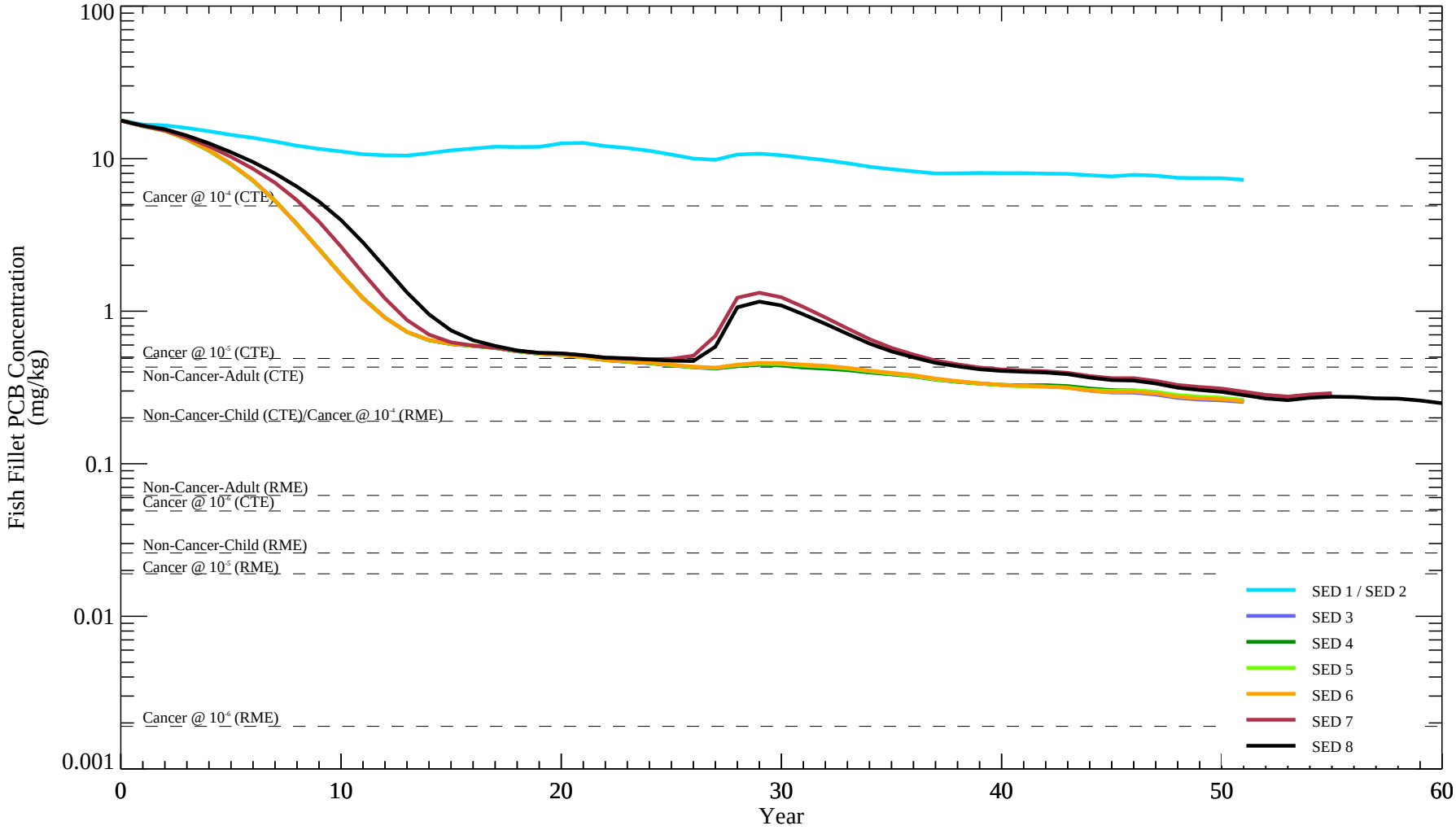

Figure GC18-1. Average fillet PCB concentrations in largemouth bass from Reach 5A

Notes: Average calculated for days from Aug. 28th through Oct. 26th of each year; Average calculated for fish ages 5 to 9.
Fillet based concentrations were calculated as whole body concentrations divided by 5.0.
Horizontal lines represent fish consumption (deterministic) IMPGs.

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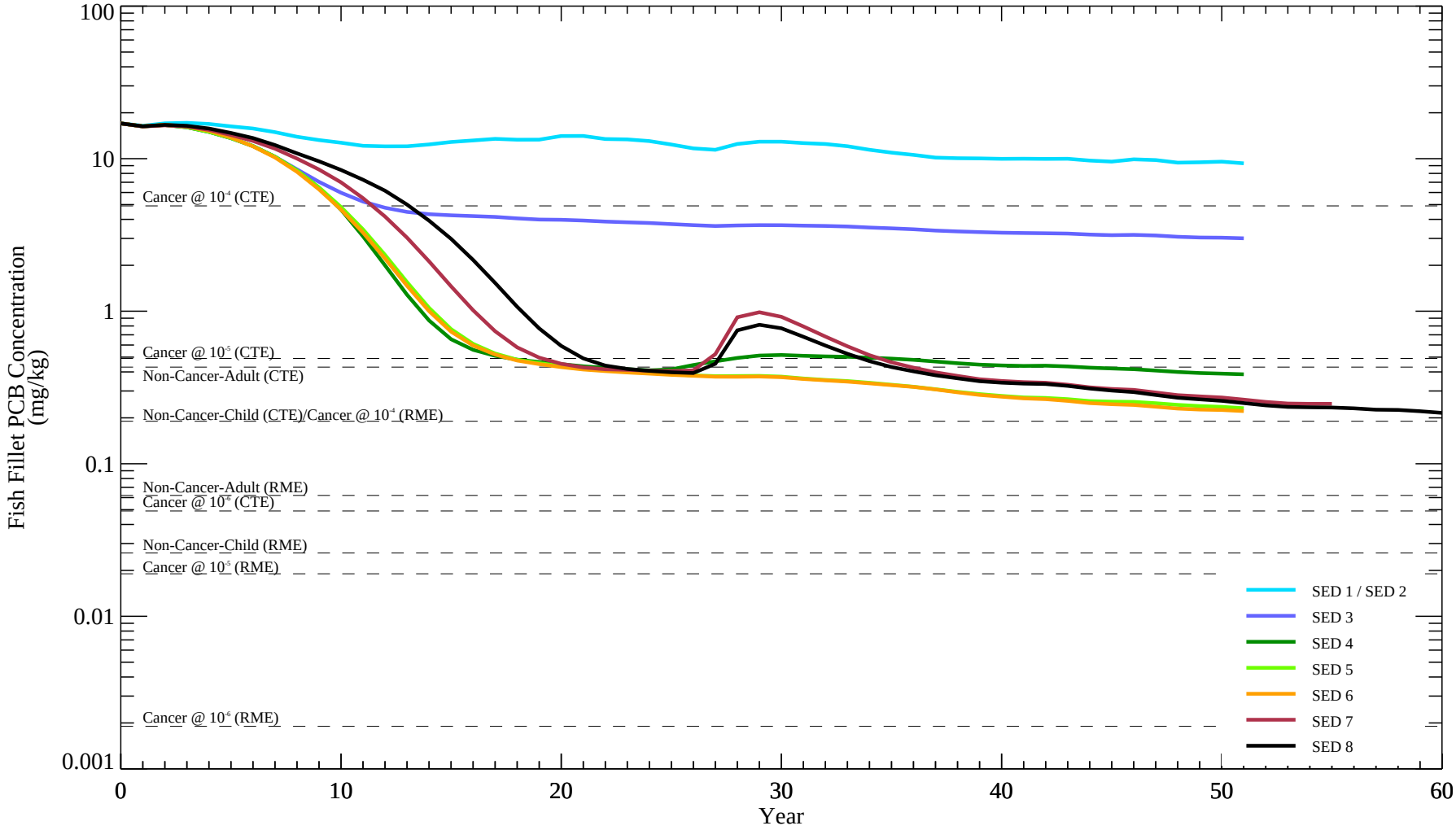

Figure GC18-2. Average fillet PCB concentrations in largemouth bass from Reach 5B

Notes: Average calculated for days from Aug. 28th through Oct. 26th of each year; Average calculated for fish ages 5 to 9.
Fillet based concentrations were calculated as whole body concentrations divided by 5.0.
Horizontal lines represent fish consumption (deterministic) IMPGs.

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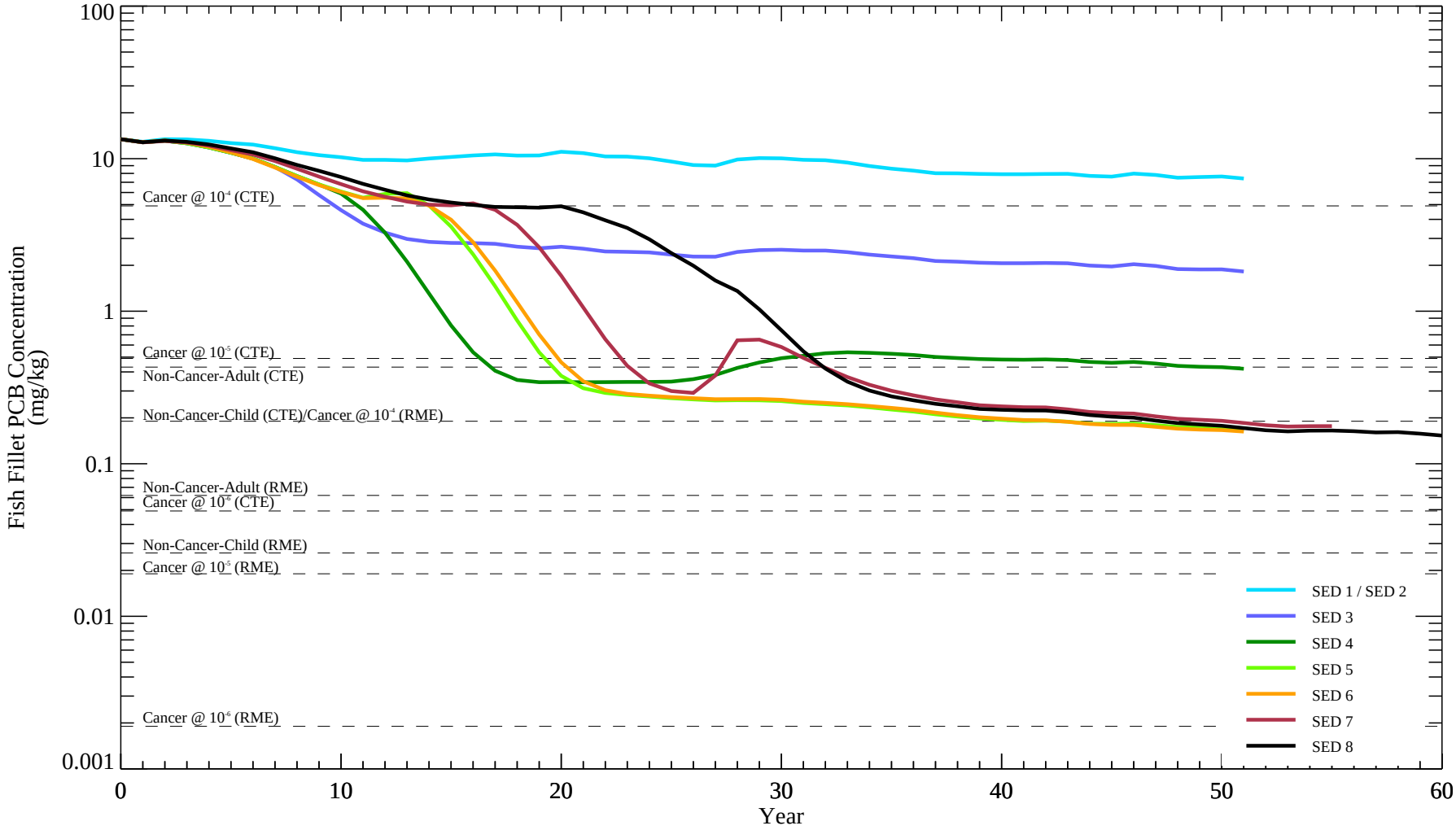

Figure GC18-3. Average fillet PCB concentrations in largemouth bass from Reach 5C

Notes: Average calculated for days from Aug. 28th through Oct. 26th of each year; Average calculated for fish ages 5 to 9.
Fillet based concentrations were calculated as whole body concentrations divided by 5.0.
Horizontal lines represent fish consumption (deterministic) IMPGs.

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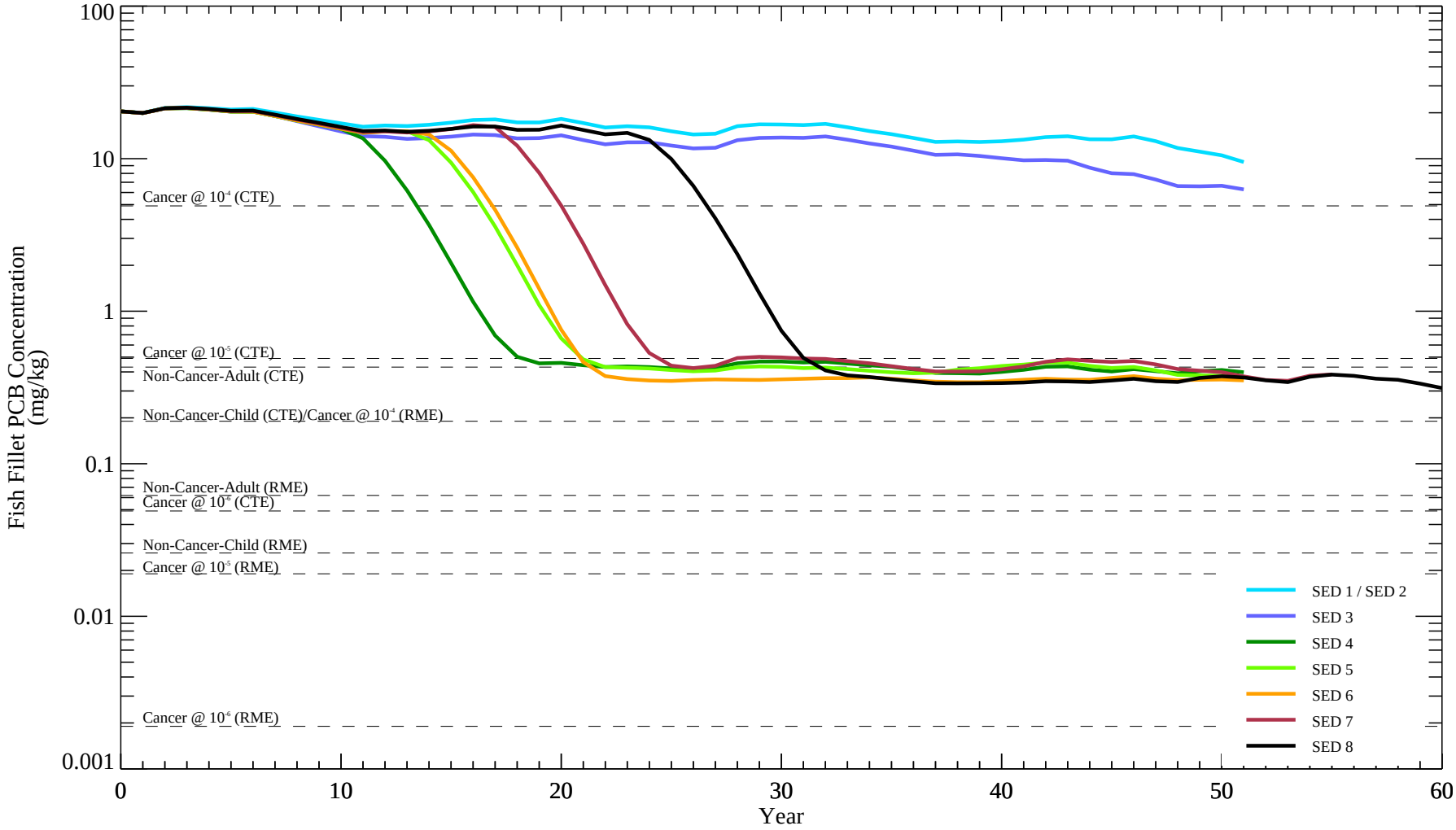

Figure GC18-4. Average fillet PCB concentrations in largemouth bass from Reach 5D

Notes: Average calculated for days from Aug. 28th through Oct. 26th of each year; Average calculated for fish ages 5 to 9.
Fillet based concentrations were calculated as whole body concentrations divided by 5.0.
Horizontal lines represent fish consumption (deterministic) IMPGs.

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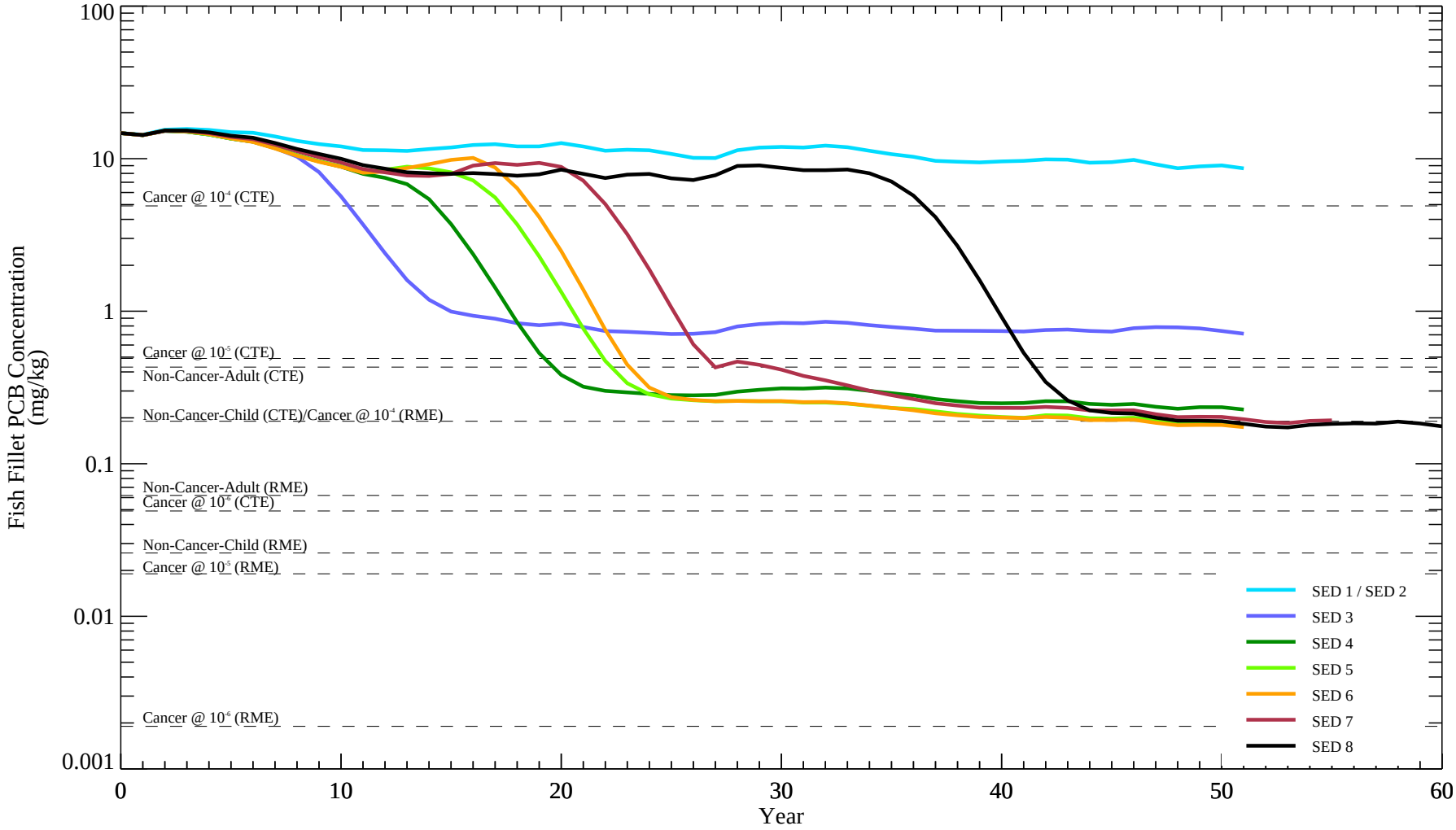

Figure GC18-5. Average fillet PCB concentrations in largemouth bass from Reach 6

Notes: Average calculated for days from Aug. 28th through Oct. 26th of each year; Average calculated for fish ages 5 to 9.
Fillet based concentrations were calculated as whole body concentrations divided by 5.0.
Horizontal lines represent fish consumption (deterministic) IMPGs.

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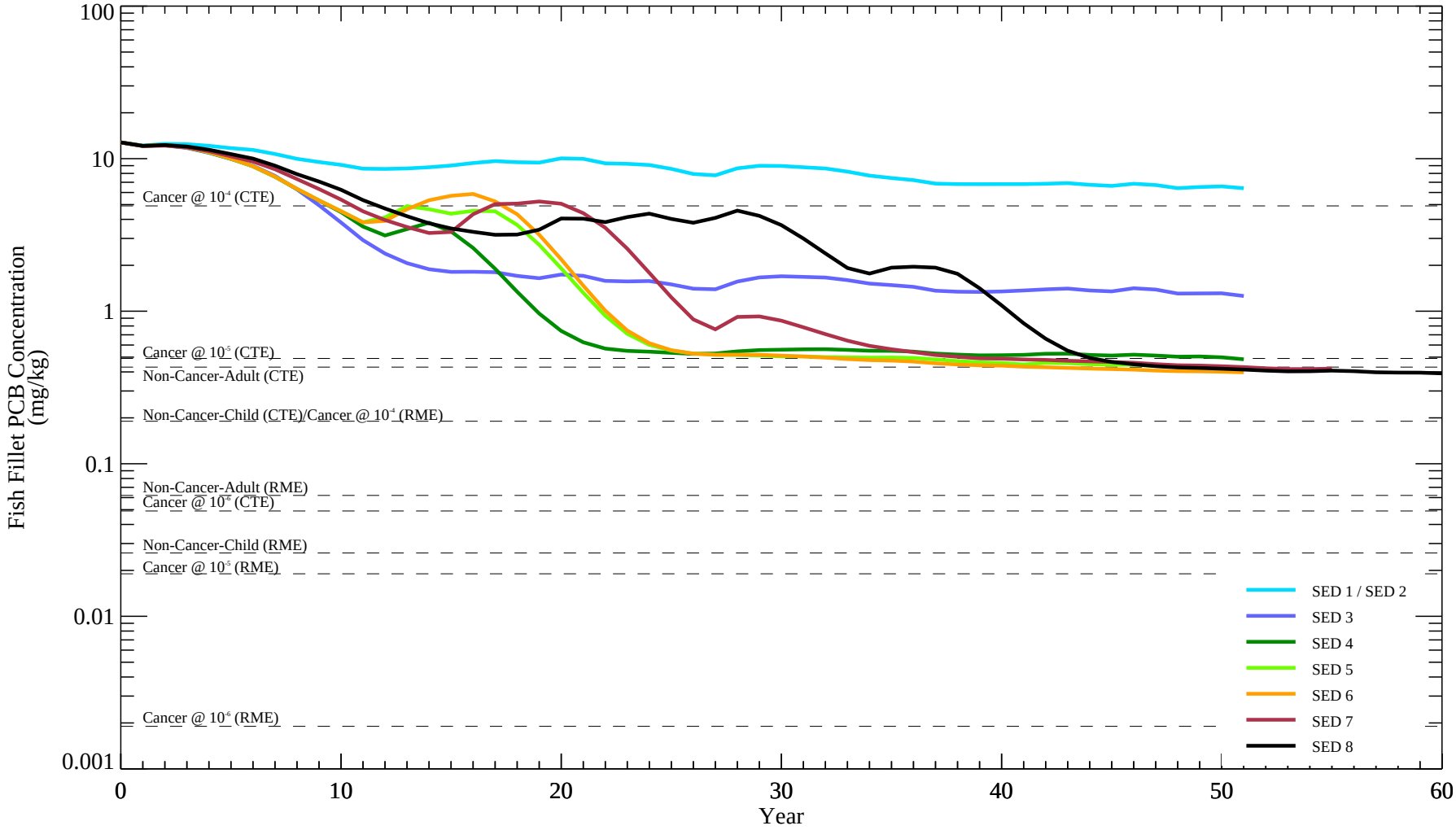

Figure GC18-6. Average fillet PCB concentrations in largemouth bass from Reach 7A

Notes: Average calculated for days from Aug. 28th through Oct. 26th of each year; Average calculated for fish ages 5 to 9.
Fillet based concentrations were calculated as whole body concentrations divided by 5.0.
Horizontal lines represent fish consumption (deterministic) IMPGs.

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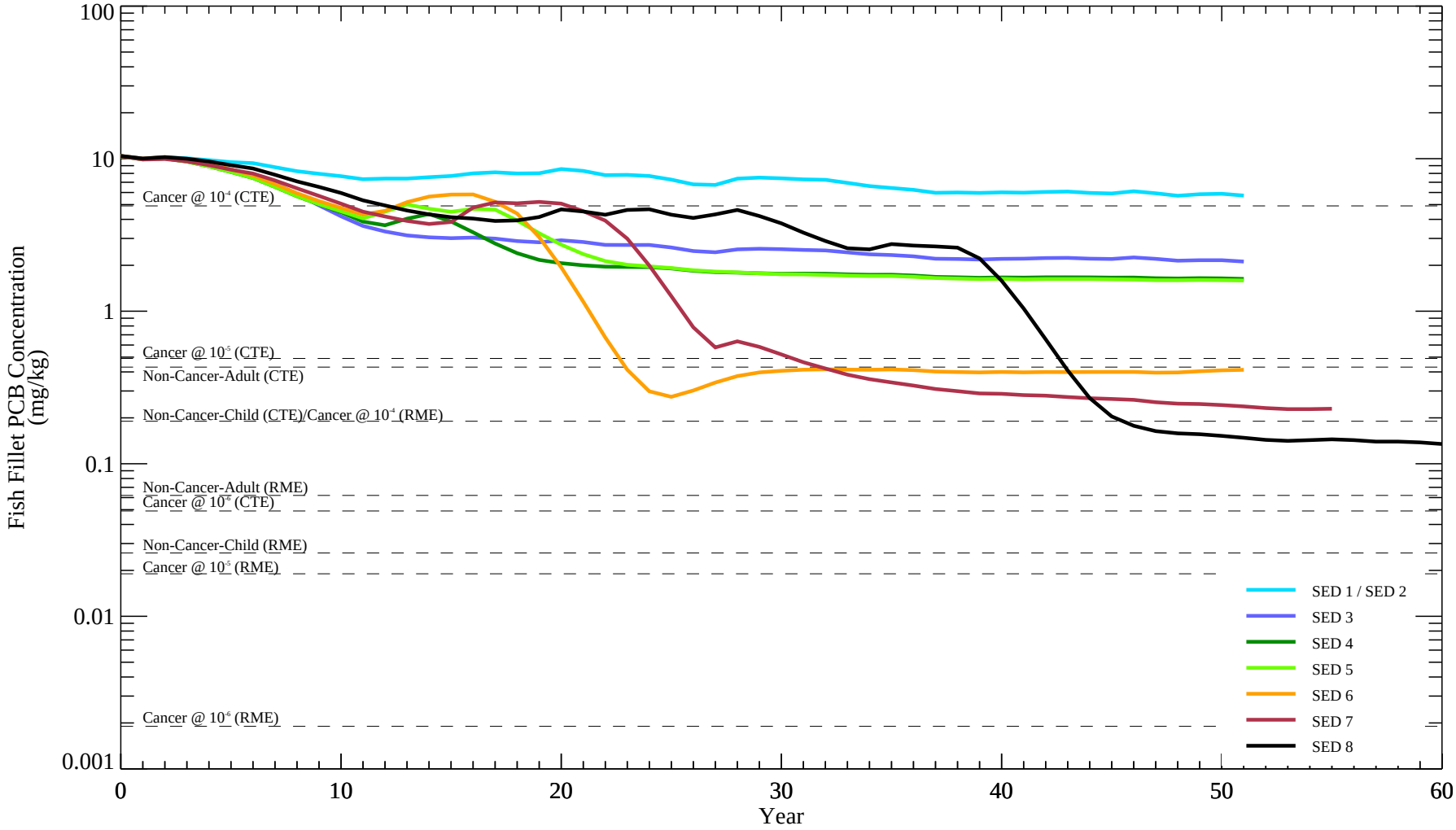

Figure GC18-7. Average fillet PCB concentrations in largemouth bass from Reach 7B

Notes: Average calculated for days from Aug. 28th through Oct. 26th of each year; Average calculated for fish ages 5 to 9.
Fillet based concentrations were calculated as whole body concentrations divided by 5.0.
Horizontal lines represent fish consumption (deterministic) IMPGs.
Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.

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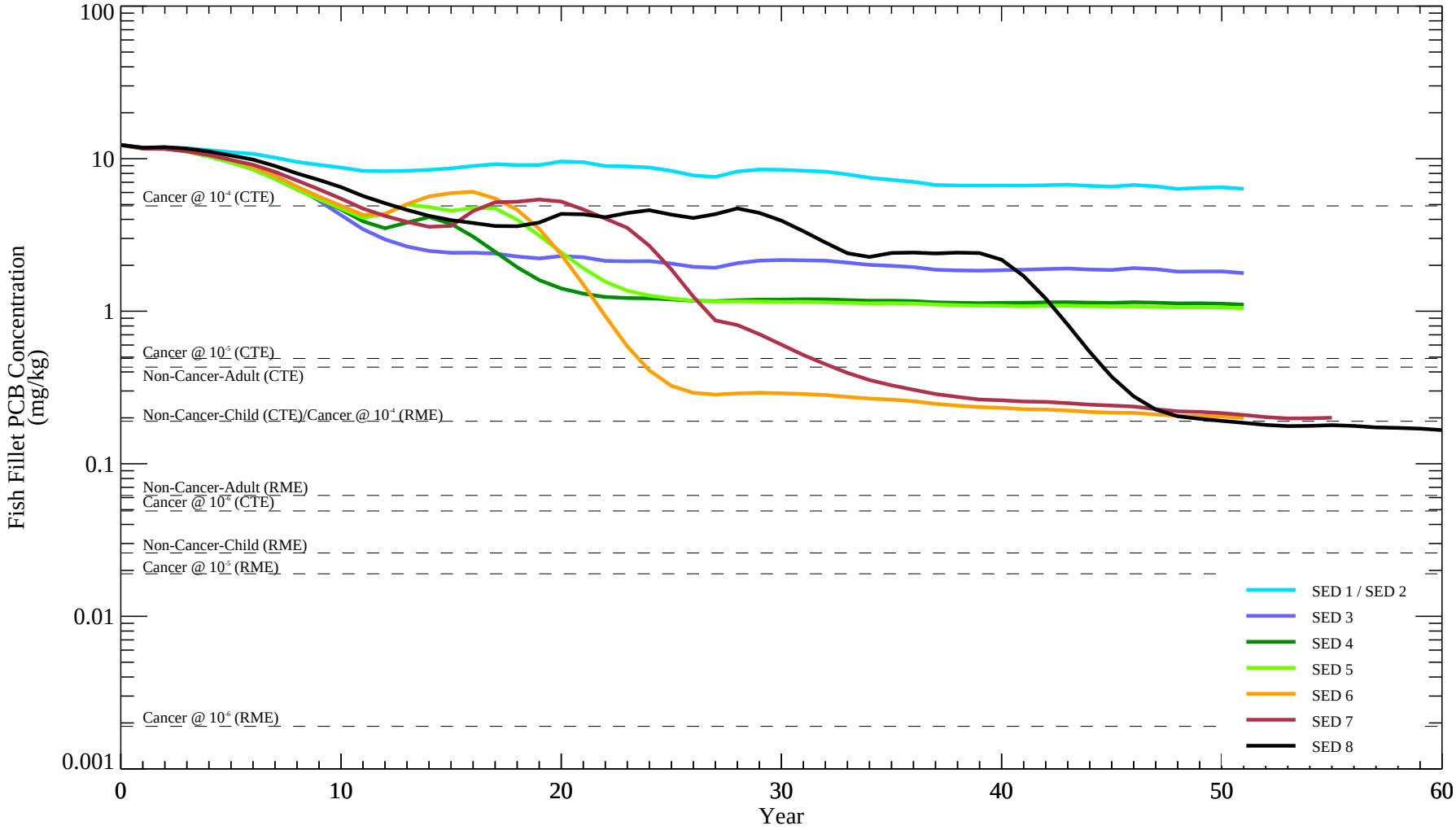

Figure GC18-8. Average fillet PCB concentrations in largemouth bass from Reach 7C

Notes: Average calculated for days from Aug. 28th through Oct. 26th of each year; Average calculated for fish ages 5 to 9.
Fillet based concentrations were calculated as whole body concentrations divided by 5.0.
Horizontal lines represent fish consumption (deterministic) IMPGs.
Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.

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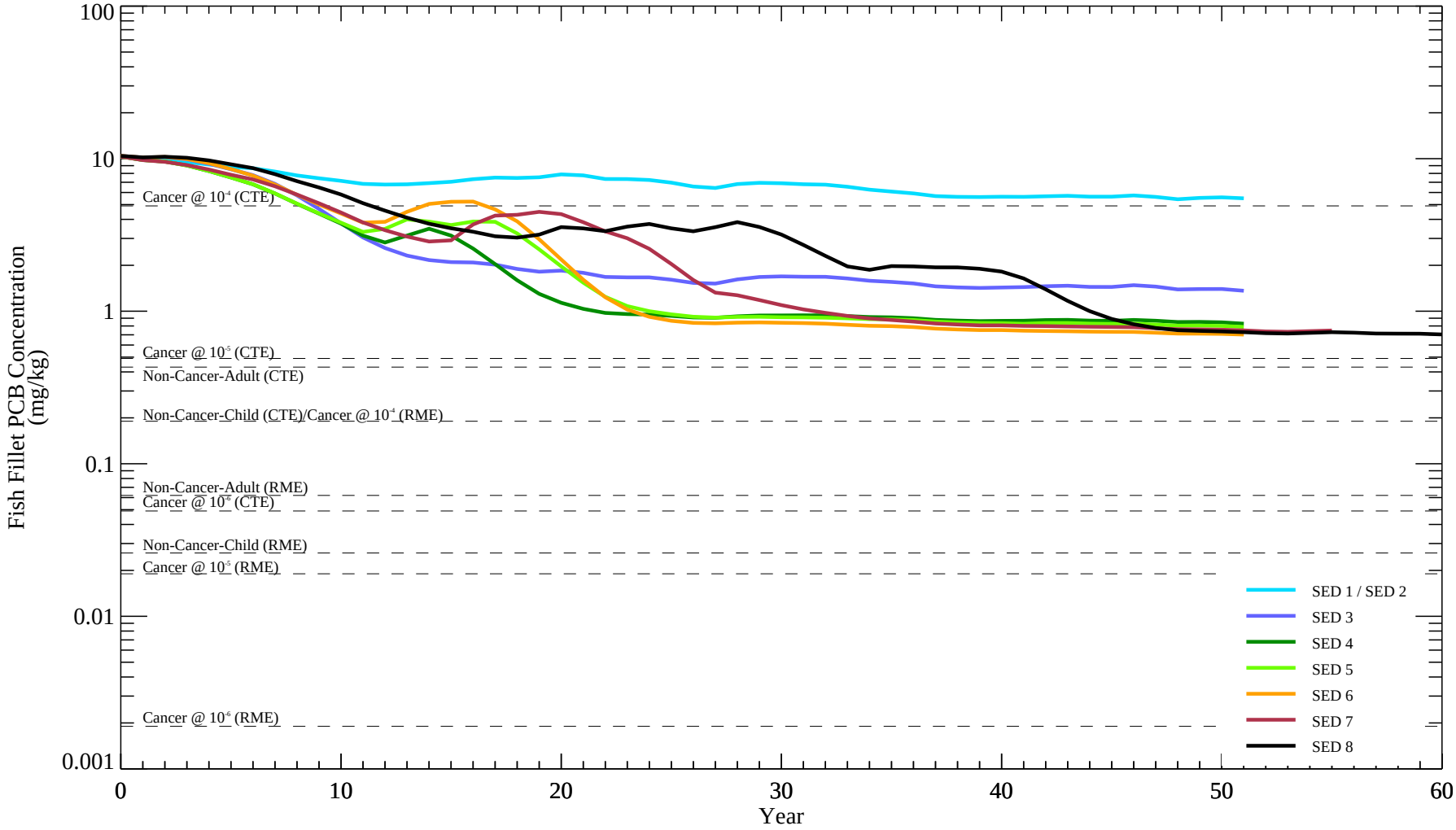

Figure GC18-9. Average fillet PCB concentrations in largemouth bass from Reach 7D

Notes: Average calculated for days from Aug. 28th through Oct. 26th of each year; Average calculated for fish ages 5 to 9.
Fillet based concentrations were calculated as whole body concentrations divided by 5.0.
Horizontal lines represent fish consumption (deterministic) IMPGs.
Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.

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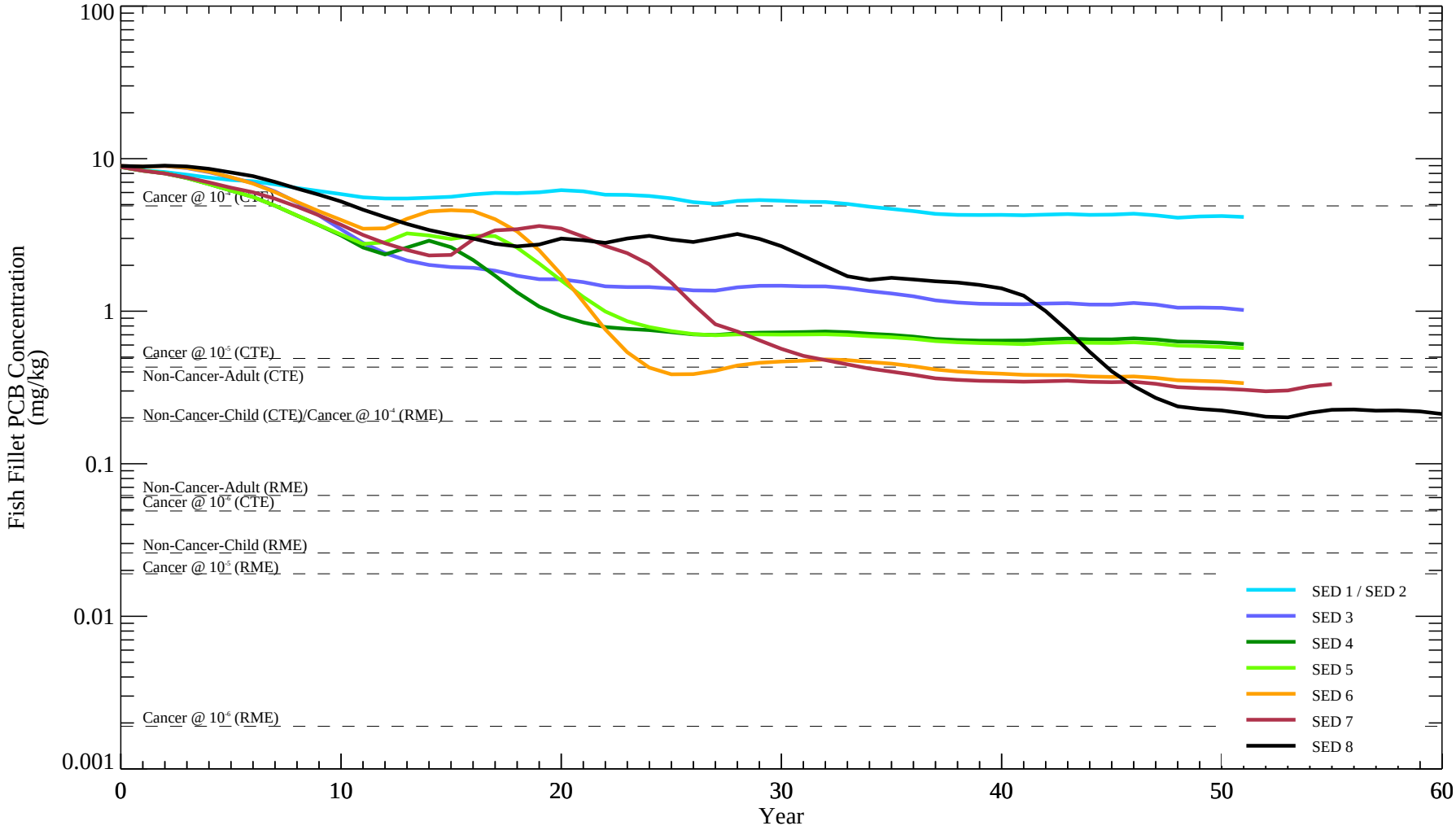

Figure GC18-10. Average fillet PCB concentrations in largemouth bass from Reach 7E

Notes: Average calculated for days from Aug. 28th through Oct. 26th of each year; Average calculated for fish ages 5 to 9.
Fillet based concentrations were calculated as whole body concentrations divided by 5.0.
Horizontal lines represent fish consumption (deterministic) IMPGs.
Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.

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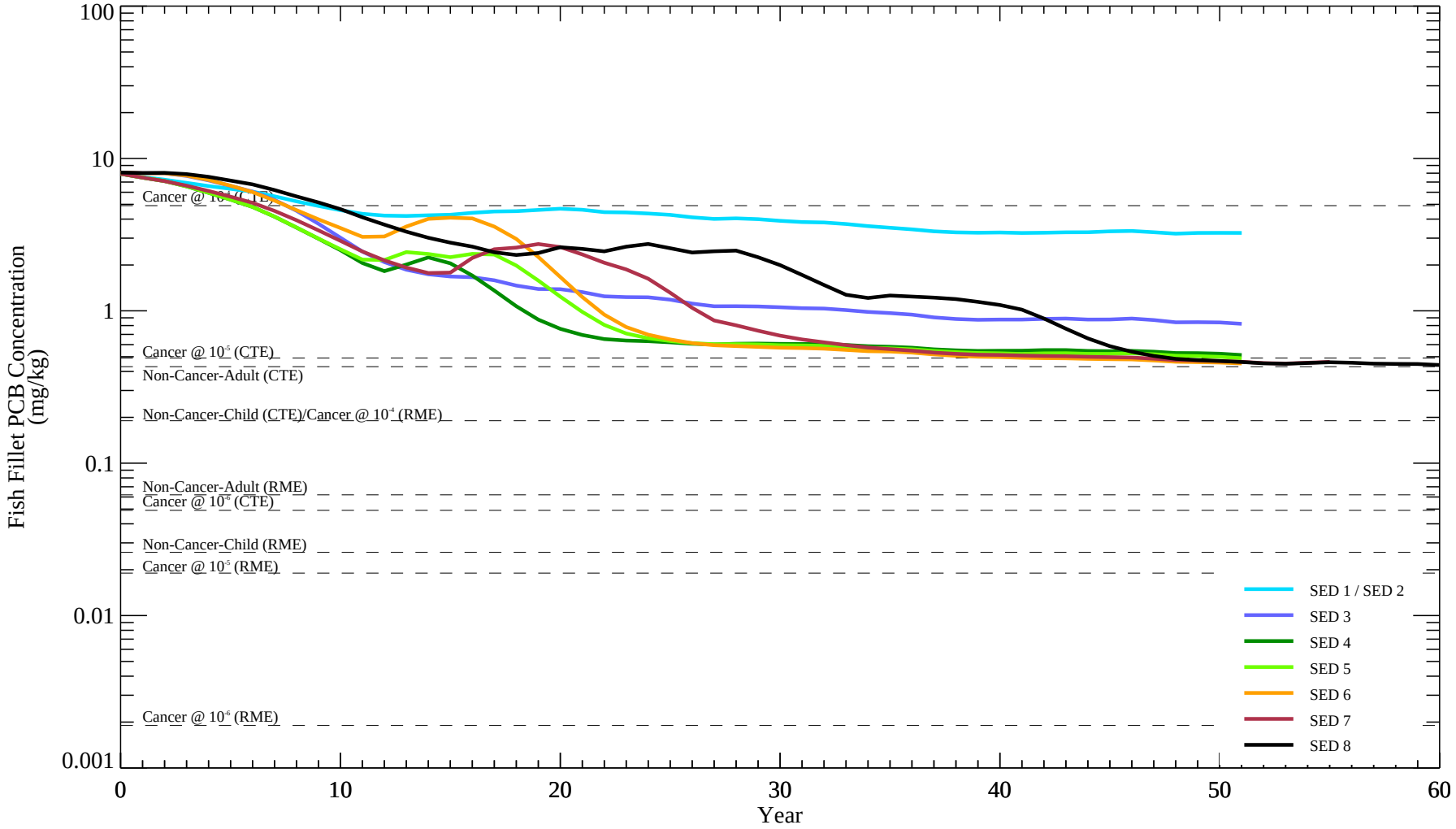

Figure GC18-11. Average fillet PCB concentrations in largemouth bass from Reach 7F

Notes: Average calculated for days from Aug. 28th through Oct. 26th of each year; Average calculated for fish ages 5 to 9.
Fillet based concentrations were calculated as whole body concentrations divided by 5.0.
Horizontal lines represent fish consumption (deterministic) IMPGs.
Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.

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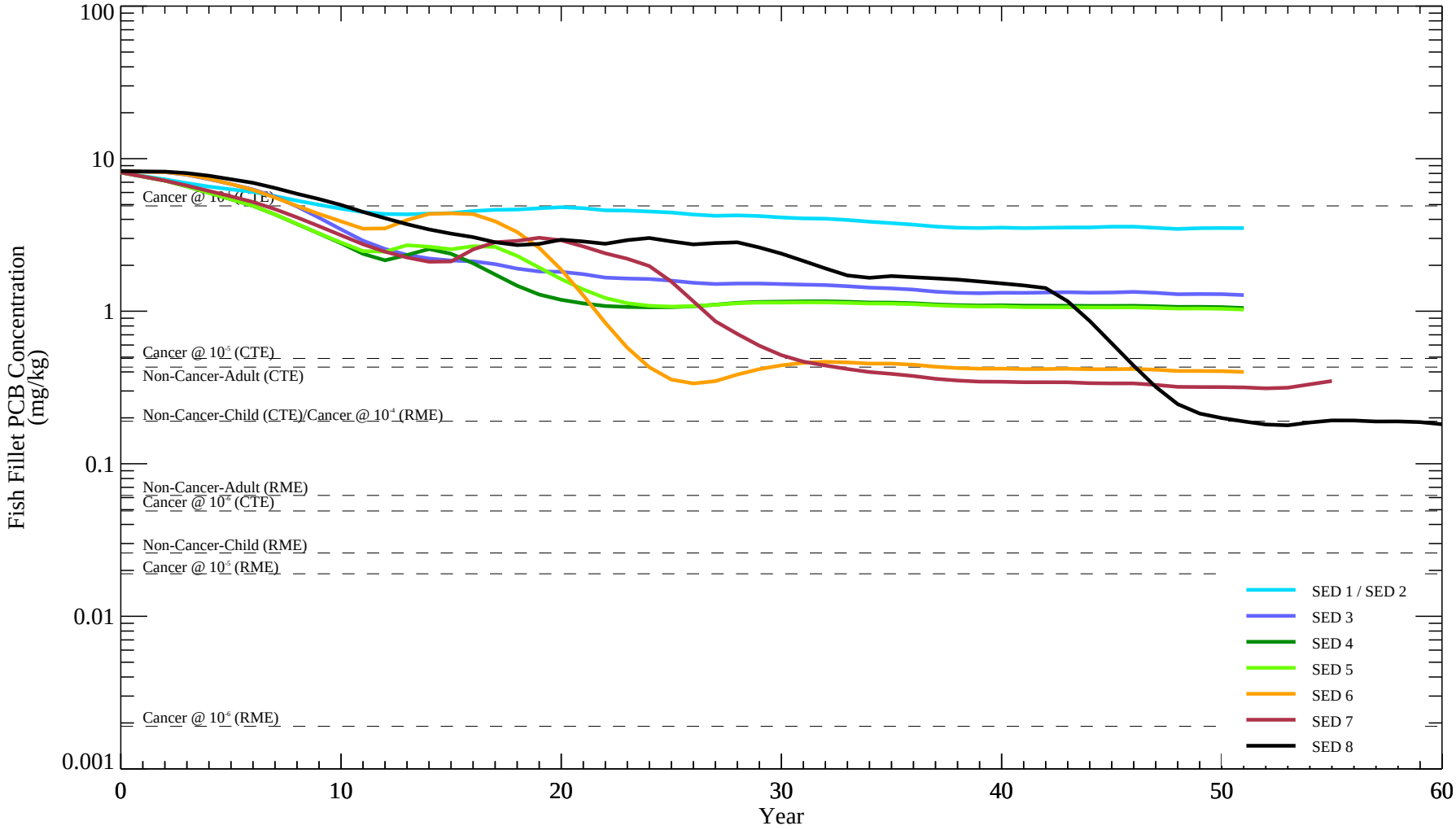

Figure GC18-12. Average fillet PCB concentrations in largemouth bass from Reach 7G

Notes: Average calculated for days from Aug. 28th through Oct. 26th of each year; Average calculated for fish ages 5 to 9.
Fillet based concentrations were calculated as whole body concentrations divided by 5.0.
Horizontal lines represent fish consumption (deterministic) IMPGs.
Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.

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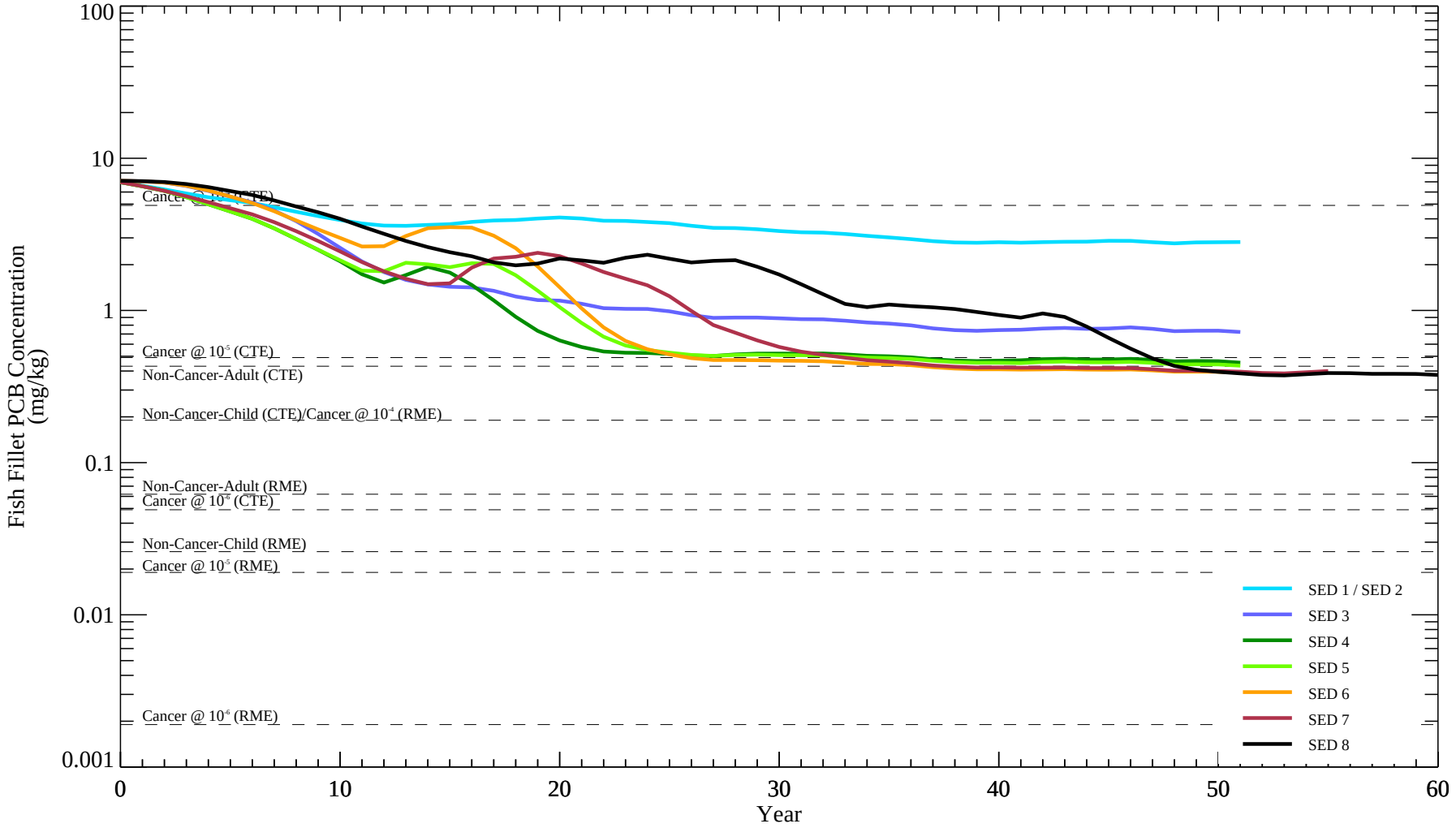

Figure GC18-13. Average fillet PCB concentrations in largemouth bass from Reach 7H

Notes: Average calculated for days from Aug. 28th through Oct. 26th of each year; Average calculated for fish ages 5 to 9.
Fillet based concentrations were calculated as whole body concentrations divided by 5.0.
Horizontal lines represent fish consumption (deterministic) IMPGs.
Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.

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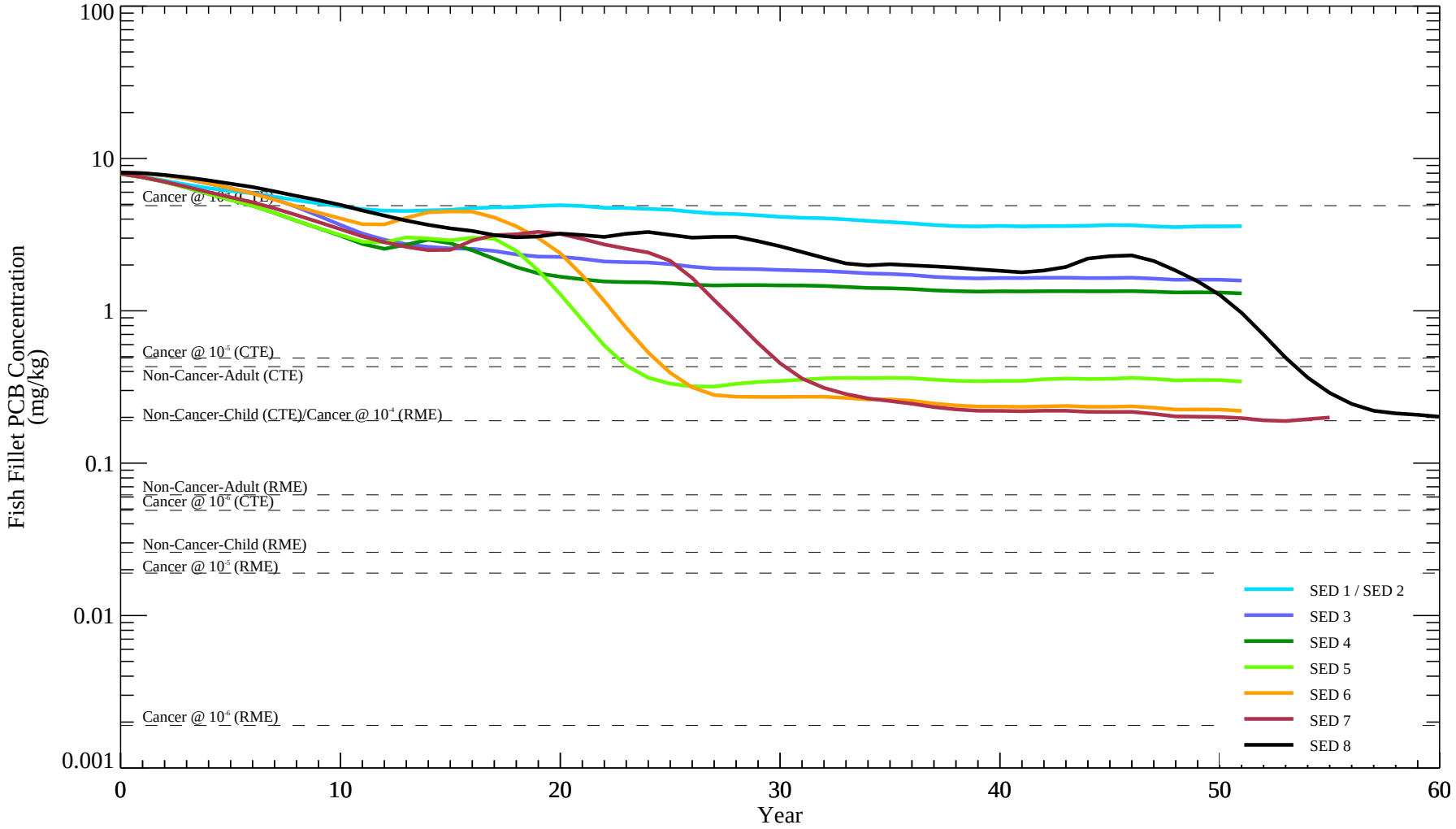

Figure GC18-14. Average fillet PCB concentrations in largemouth bass from Reach 8

Notes: Average calculated for days from Aug. 28th through Oct. 26th of each year; Average calculated for fish ages 5 to 9.
Fillet based concentrations were calculated as whole body concentrations divided by 5.0.
Horizontal lines represent fish consumption (deterministic) IMPGs.
Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.

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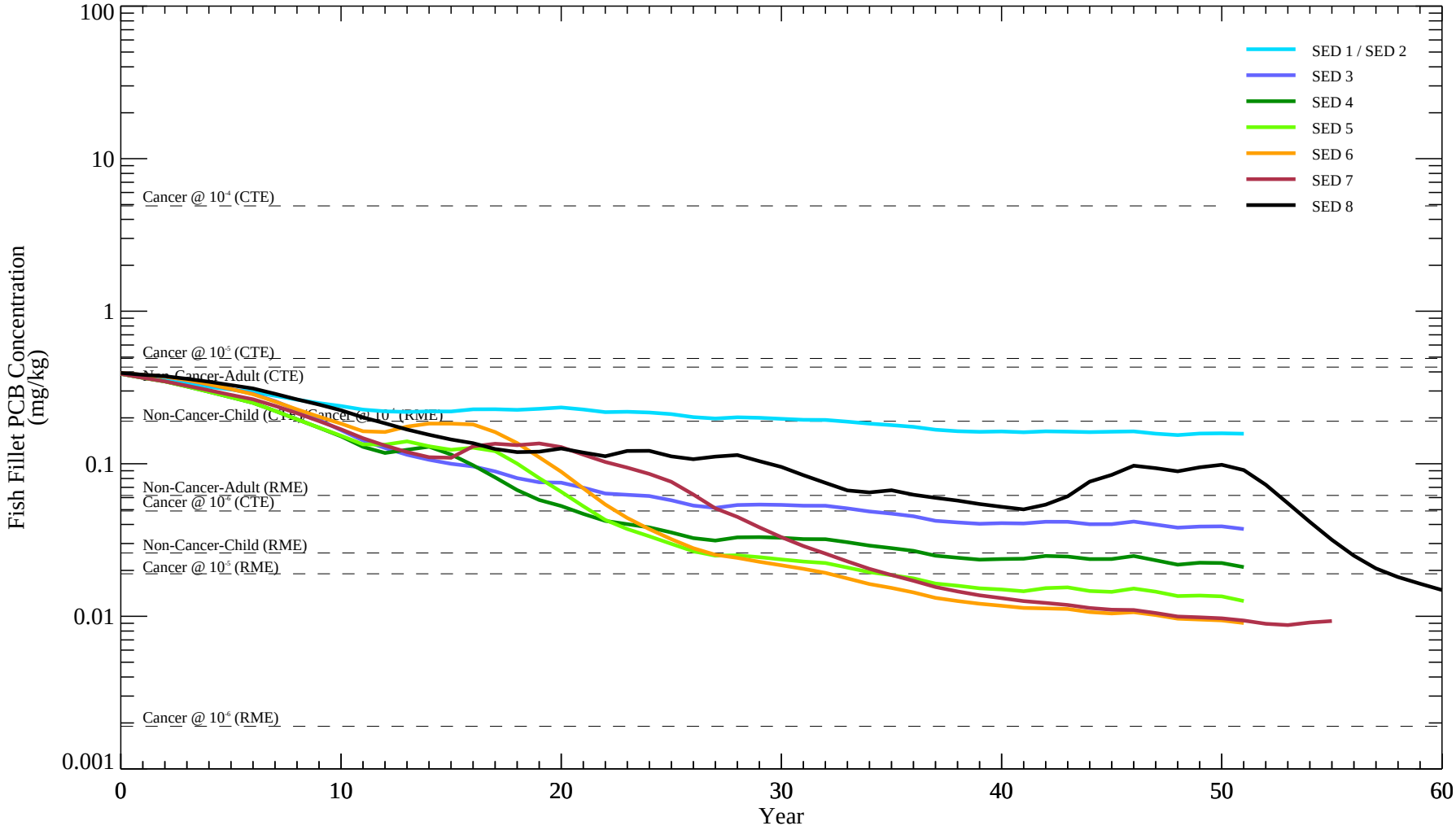

Figure GC18-15. Average fillet PCB concentrations in largemouth bass from Bulls Bridge

Notes: Average calculated for days from Aug. 28th through Oct. 26th of each year; Average calculated for fish ages 5 to 9.
Fillet based concentrations were calculated as whole body concentrations divided by 5.0.
Horizontal lines represent fish consumption (deterministic) IMPGs.
Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.

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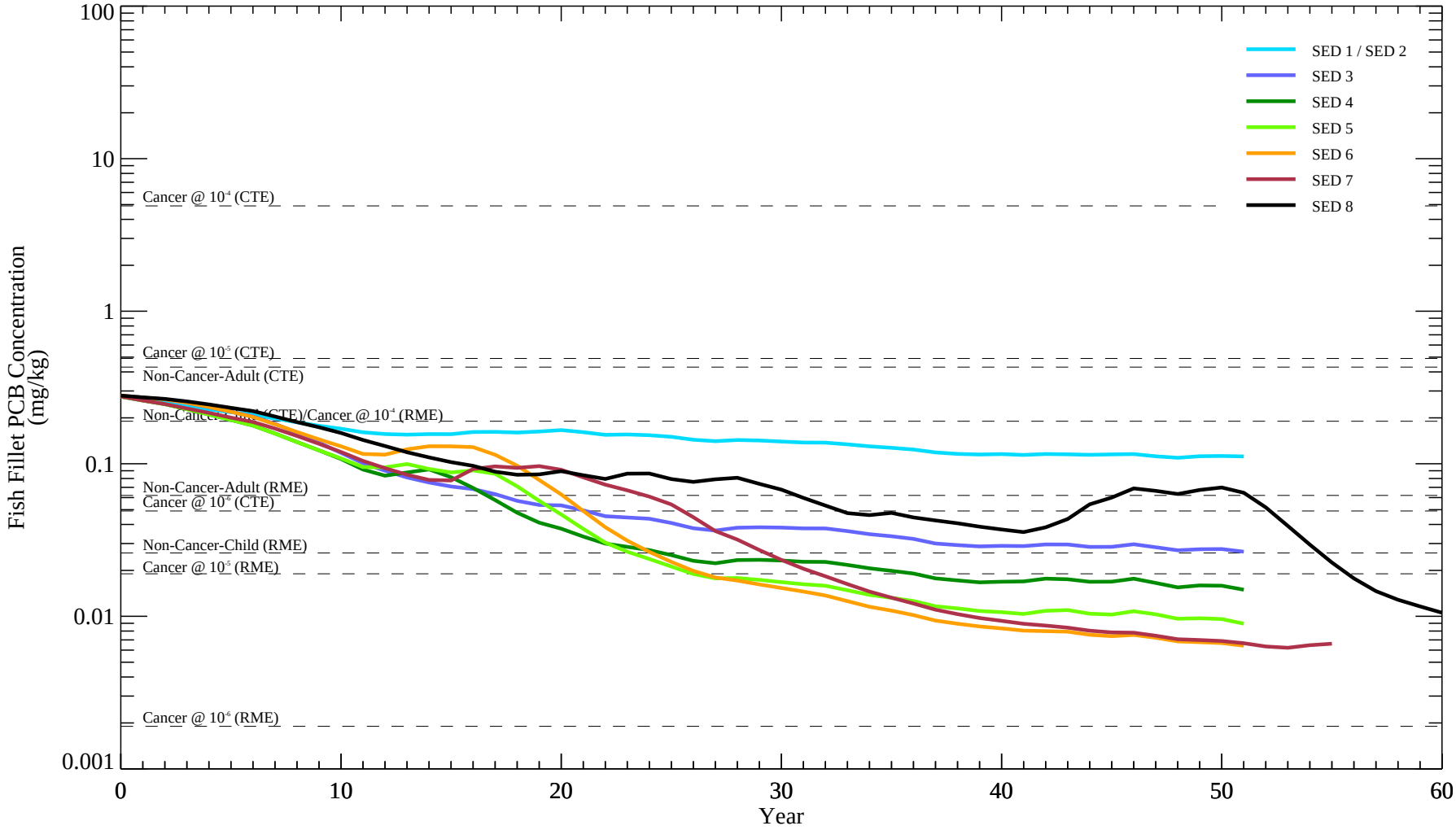

Figure GC18-16. Average fillet PCB concentrations in largemouth bass from Lake Lillinonah

Notes: Average calculated for days from Aug. 28th through Oct. 26th of each year; Average calculated for fish ages 5 to 9.
Fillet based concentrations were calculated as whole body concentrations divided by 5.0.
Horizontal lines represent fish consumption (deterministic) IMPGs.
Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.

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Thu Feb 12 11:38:02 2009

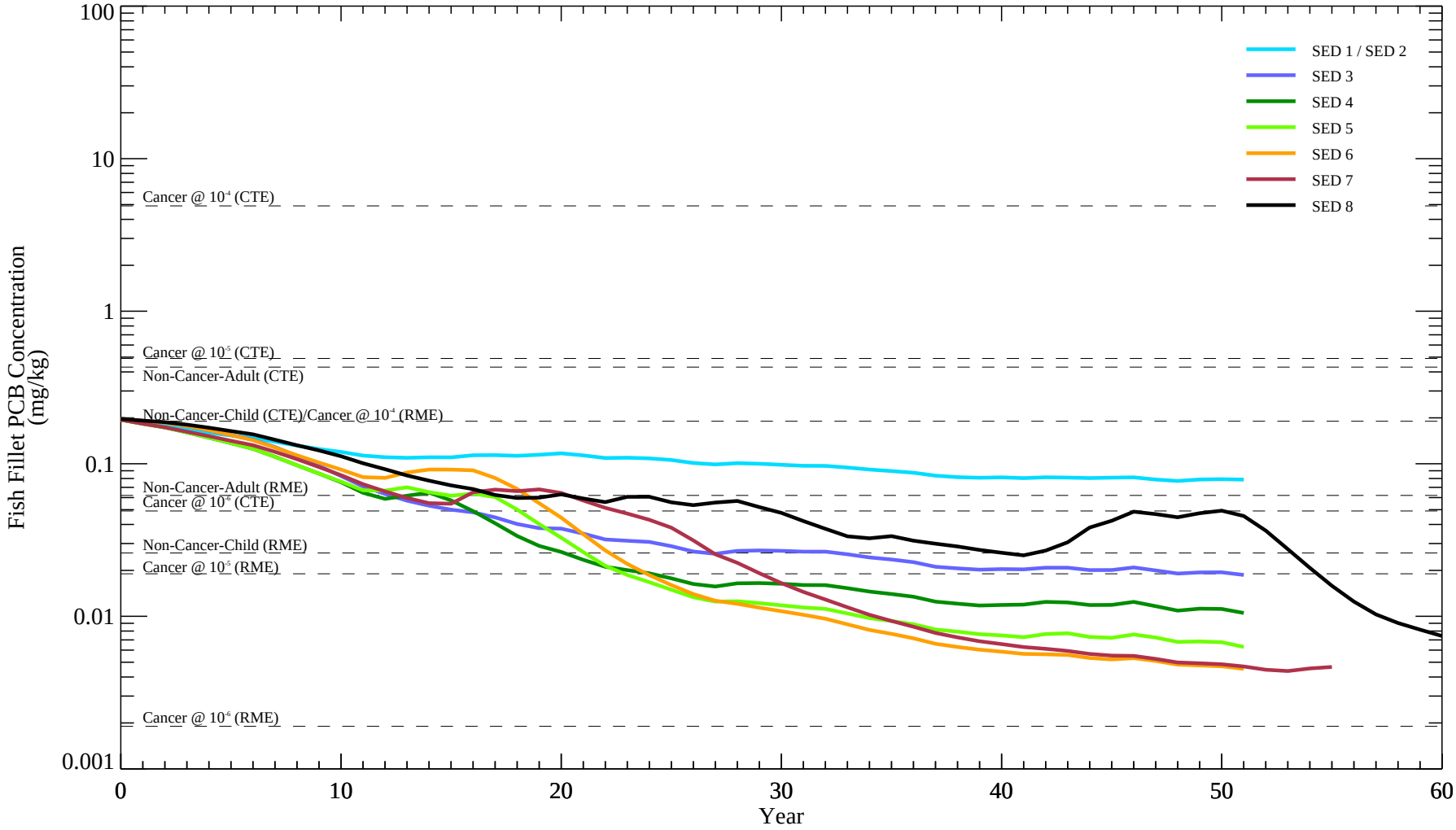

Figure GC18-17. Average fillet PCB concentrations in largemouth bass from Lake Zoar

Notes: Average calculated for days from Aug. 28th through Oct. 26th of each year; Average calculated for fish ages 5 to 9.
Fillet based concentrations were calculated as whole body concentrations divided by 5.0.
Horizontal lines represent fish consumption (deterministic) IMPGs.
Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.

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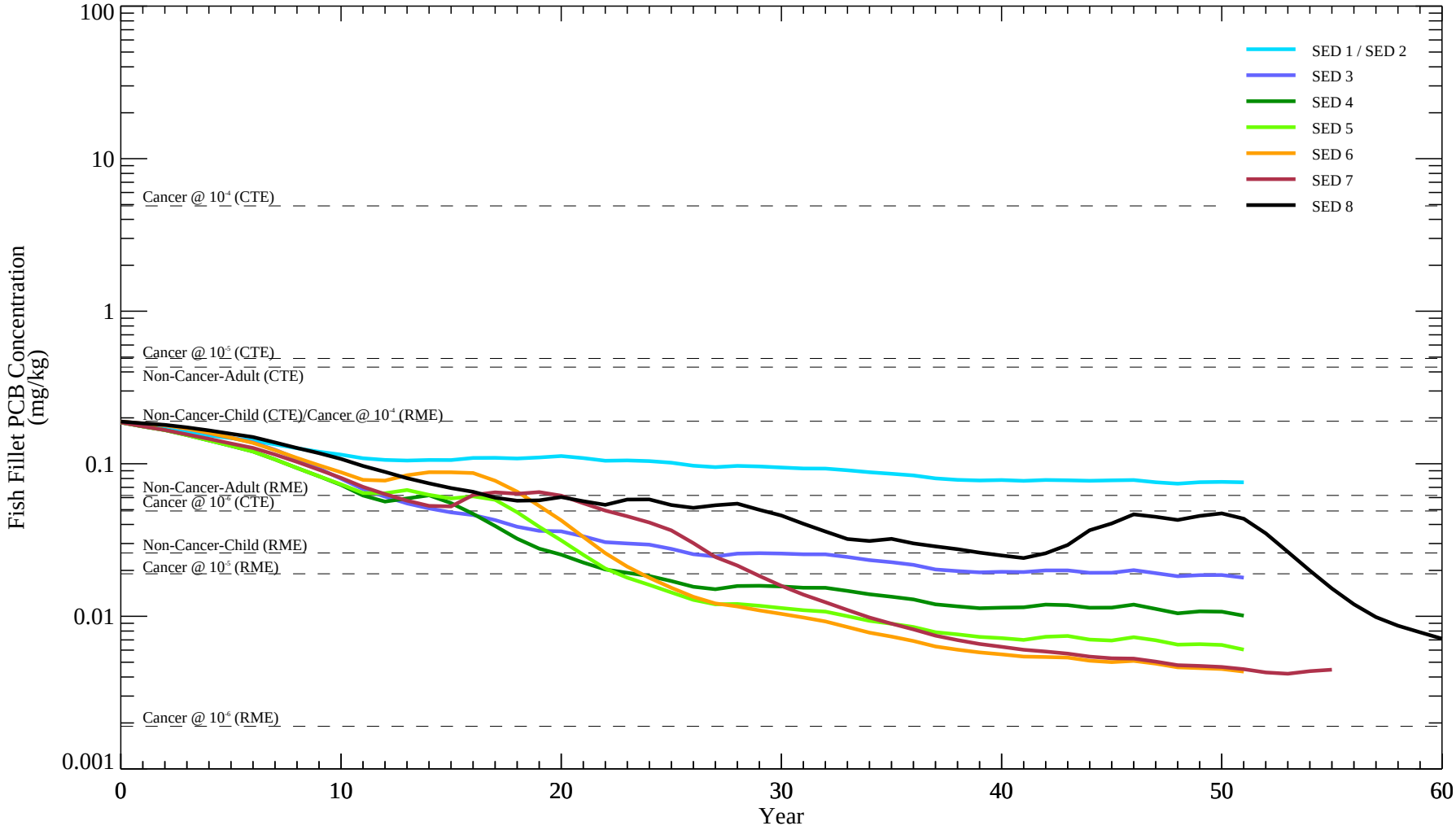

Figure GC18-18. Average fillet PCB concentrations in largemouth bass from Lake Housatonic

Notes: Average calculated for days from Aug. 28th through Oct. 26th of each year; Average calculated for fish ages 5 to 9.
Fillet based concentrations were calculated as whole body concentrations divided by 5.0.
Horizontal lines represent fish consumption (deterministic) IMPGs.
Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.

DR/LD - Z:\GENcms\DOCUMENTS\reports\CMS-Report_Supplement\figures\GC_18_SC_94\cms_alternatives_overlay_suppl.pro
Thu Feb 12 11:47:22 2009

Water Column (SED 1 / SED 2)

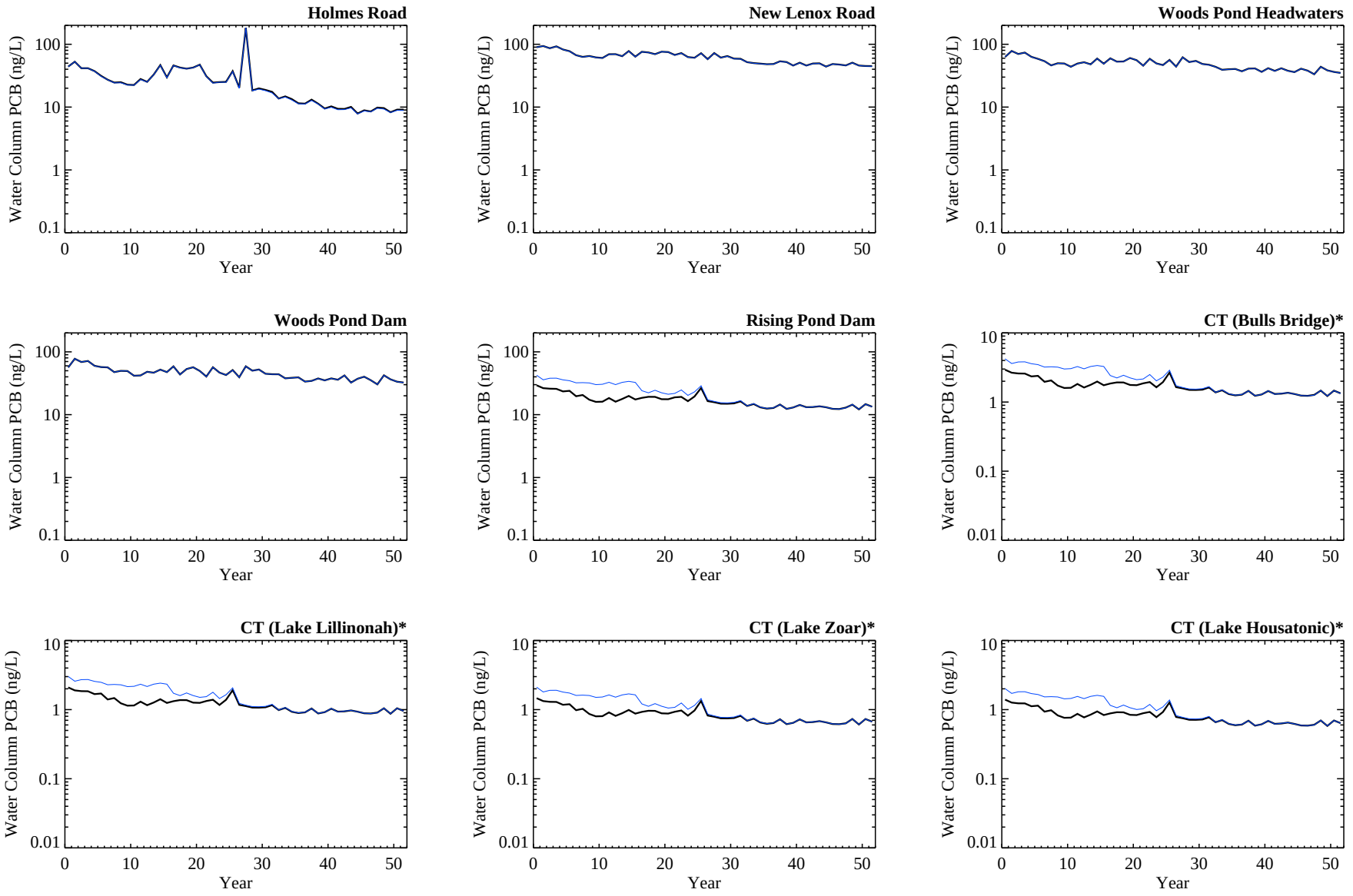

Figure GC19-1a. Temporal profile of model-predicted annual average water column PCB concentration by subreach under SED 1 / SED 2.

* *Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.*

Reaches 5/6 (Base Case) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED1CMSBS_0712-01\bins\; Reaches 5/6 (Lower Bound) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED1CMSLB_0712-19\bins
Reaches 7/8 (Base Case) - \\TENMILE\EFDC_Output\r78\CMS\Proj_R78_SED1CMSBS_0712-28\bins\; Reaches 7/8 (Lower Bound) - \\TENMILE\EFDC_Output\r78\CMS\Proj_R78_SED1CMSLB_0712-35\bins
CT Impoundments (Base Case) - z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED01_0712-28_base
CT Impoundments (Lower Bound)- z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED01_0712-35_low_bound

wk/if - Z:\GENcms\MODEL\EPA_EFDC\Post_Processors\Summary\Temporal_wcPCBs_rev3.pro
Tue Mar 03 09:12:30 2009

Water Column (SED 3)

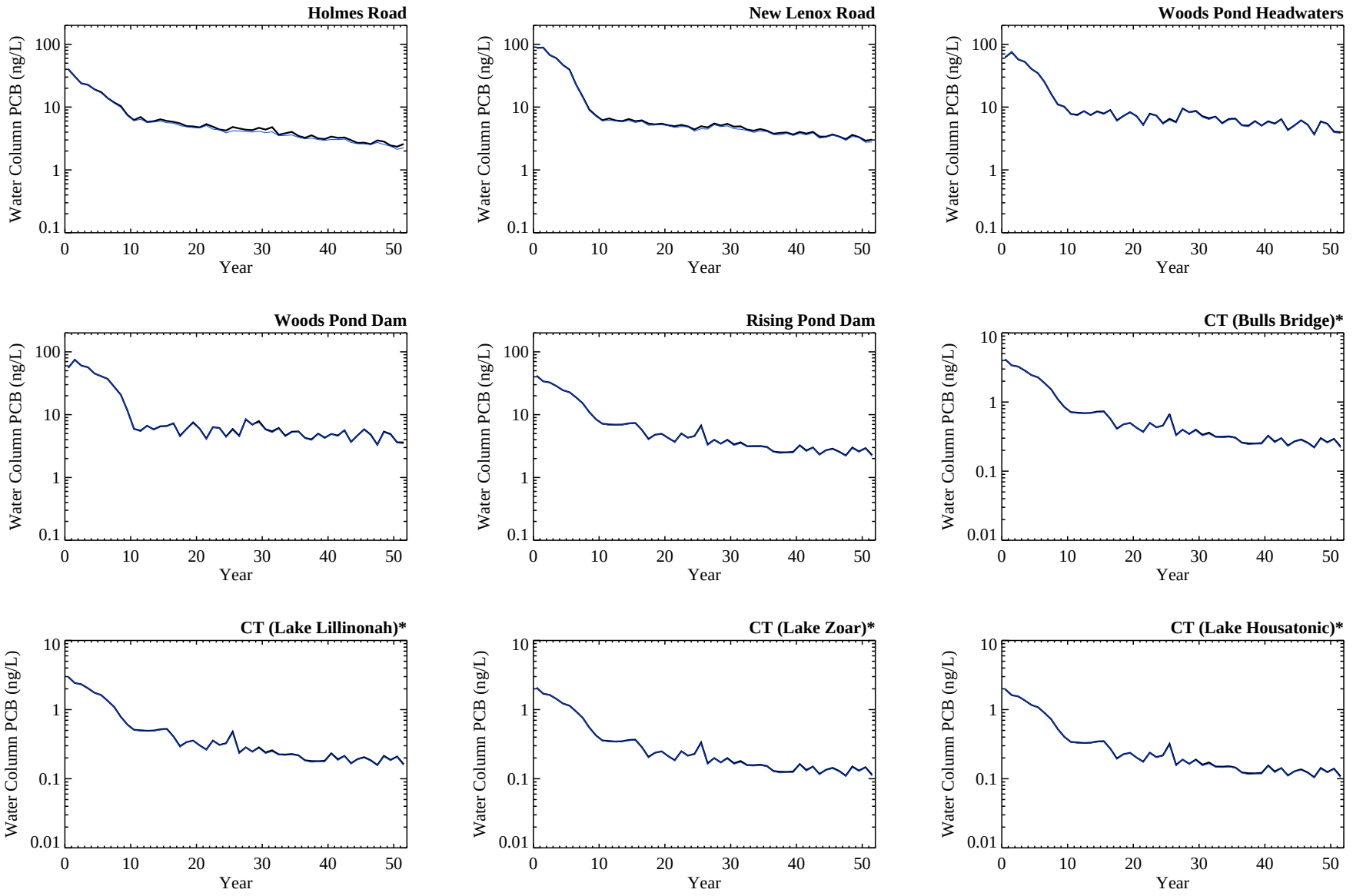

Figure GC19-1b. Temporal profile of model-predicted annual average water column PCB concentration by subreach under SED 3.

* *Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.*

Reaches 5/6 (Base Case) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED3CMSBS_0712-13\bins\; Reaches 5/6 (Lower Bound) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED3CMSLB_0712-20\bins
Reaches 7/8 (Base Case) - \\TENMILE\EFDC_Output\r78\CMS\Proj_R78_SED3CMSBS_0712-29\bins\; Reaches 7/8 (Lower Bound) - \\TENMILE\EFDC_Output\r78\CMS\Proj_R78_SED3CMSLB_0712-36\bins
CT Impoundments (Base Case) - z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED03_0712-29_base
CT Impoundments (Lower Bound)- z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED03_0712-36_low_bound

wk/if - Z:\GENcms\MODEL\EPA_EFDC\Post_Processors\Summary\Temporal_wcPCBs_rev3.pro
Tue Mar 03 09:12:34 2009

Water Column (SED 4)

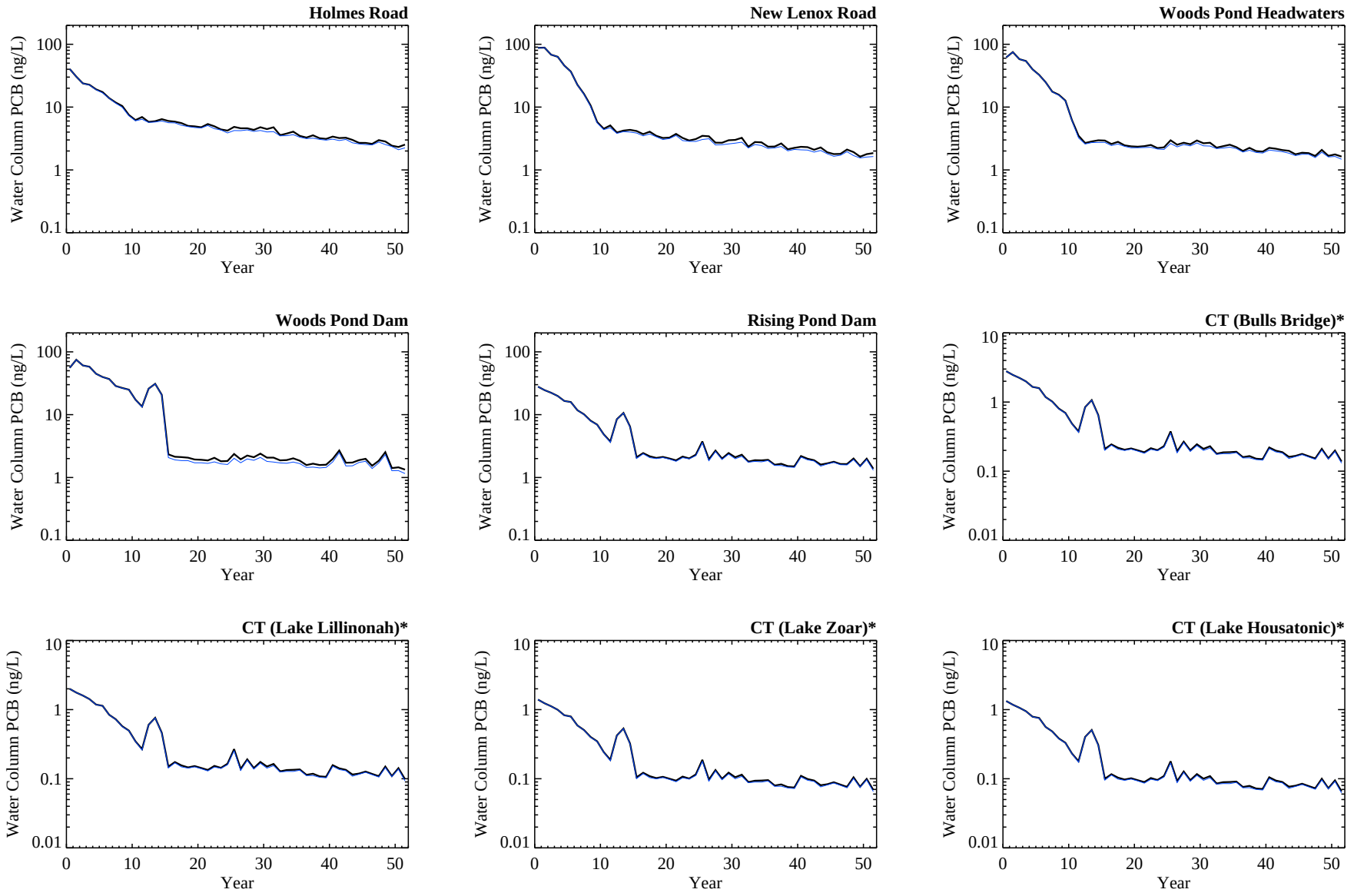

Figure GC19-1c. Temporal profile of model-predicted annual average water column PCB concentration by subreach under SED 4.

* *Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.*

Reaches 5/6 (Base Case) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED4CMSBS_0801-01\bins\; Reaches 5/6 (Lower Bound) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED4CMSLB_0801-03\bins
Reaches 7/8 (Base Case) - \\TENMILE\EFDC_Output\r78\CMS\Proj_R78_SED4CMSBS_0802-01\bins\; Reaches 7/8 (Lower Bound) - \\TENMILE\EFDC_Output\r78\CMS\Proj_R78_SED4CMSLB_0802-03\bins
CT Impoundments (Base Case) - z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED04_0802-01_base
CT Impoundments (Lower Bound)- z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED04_0802-03_low_bound

wk/if - Z:\GENcms\MODEL\EPA_EFDC\Post_Processors\Summary\Temporal_wcPCBs_rev3.pro
Tue Mar 03 09:12:38 2009

Water Column (SED 5)

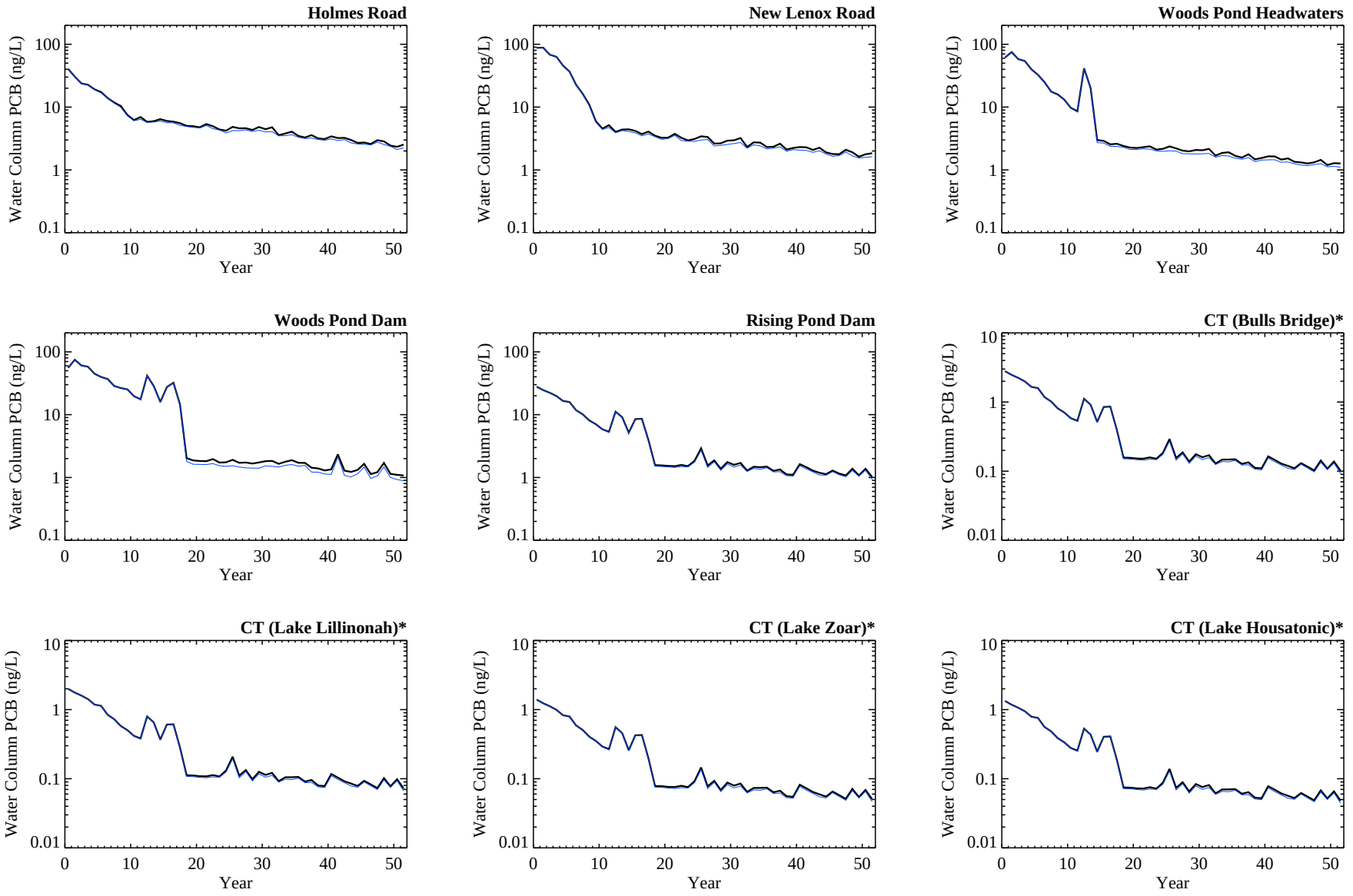

Figure GC19-1d. Temporal profile of model-predicted annual average water column PCB concentration by subreach under SED 5.

* *Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.*

Reaches 5/6 (Base Case) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED5CMSBS_0801-02\bins\; Reaches 5/6 (Lower Bound) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED5CMSLB_0801-04\bins
Reaches 7/8 (Base Case) - \\TENMILE\EFDC_Output\r78\CMS\Proj_R78_SED5CMSBS_0802-02\bins\; Reaches 7/8 (Lower Bound) - \\TENMILE\EFDC_Output\r78\CMS\Proj_R78_SED5CMSLB_0802-04\bins
CT Impoundments (Base Case) - z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED05_0802-02_base
CT Impoundments (Lower Bound)- z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED05_0802-04_low_bound

wk/if - Z:\GENcms\MODEL\EPA_EFDC\Post_Processors\Summary\Temporal_wcPCBs_rev3.pro
Tue Mar 03 09:12:42 2009

Water Column (SED 6)

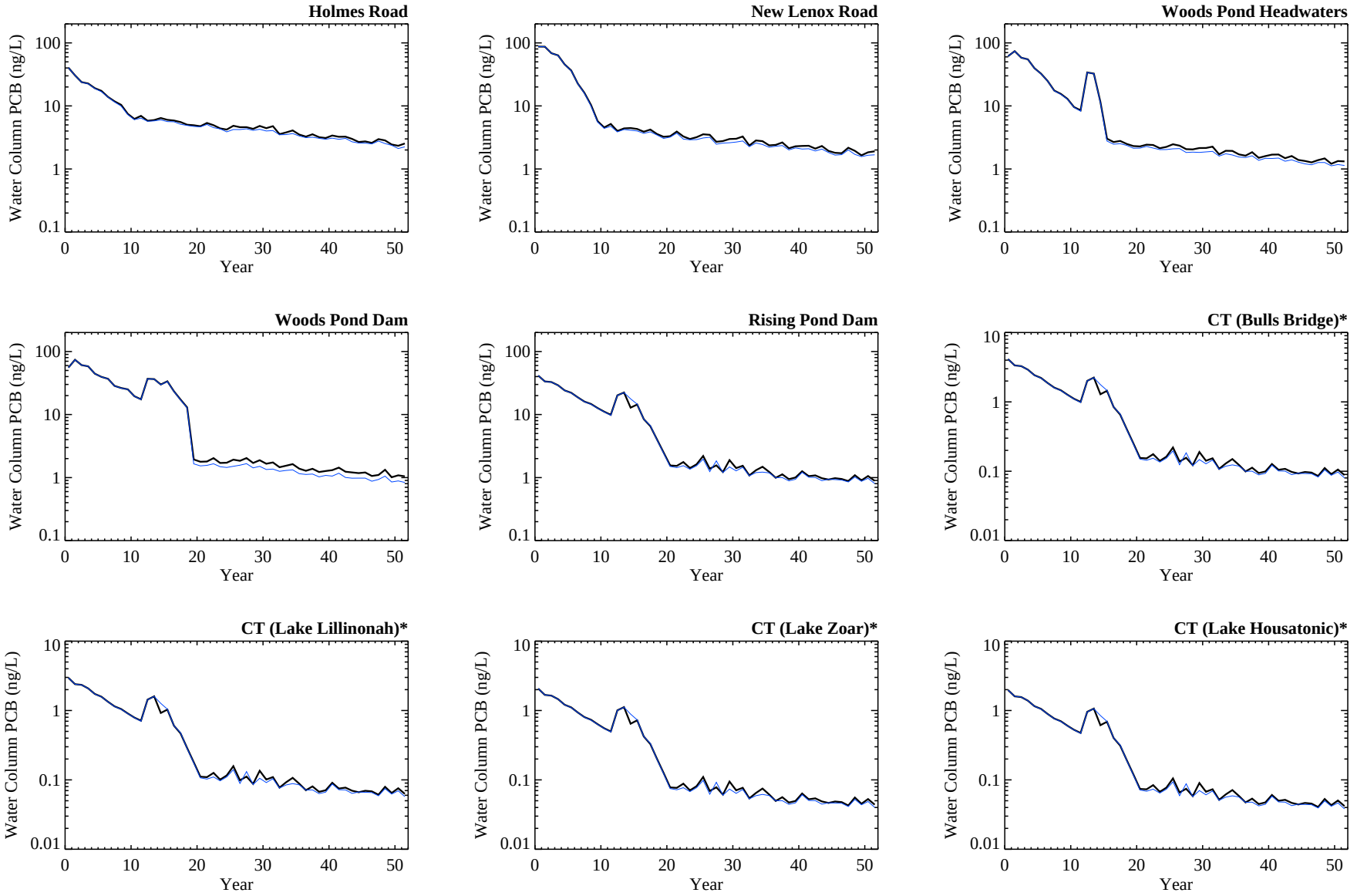

Figure GC19-1e. Temporal profile of model-predicted annual average water column PCB concentration by subreach under SED 6.

Notes: Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.

* *Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.*

Reaches 5/6 (Base Case) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED6CMSBS_0712-16\bins\; Reaches 5/6 (Lower Bound) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED6CMSLB_0712-23\bins
Reaches 7/8 (Base Case) - \\Nas-01-9a-c0\EFDC_Output\r78\CMS\Proj_R78_SED6CMSBS_0810-05\bins\; Reaches 7/8 (Lower Bound) - \\Nas-01-9a-c0\EFDC_Output\r78\CMS\Proj_R78_SED6CMSLB_0810-08\bins
CT Impoundments (Base Case) - z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED06_0810-05_base
CT Impoundments (Lower Bound)- z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED06_0810-08_low_bound

wk/if - Z:\GENcms\MODEL\EPA_EFDC\Post_Processors\Summary\Temporal_wcPCBs_rev3.pro
Tue Mar 03 09:12:49 2009

Water Column (SED 7)

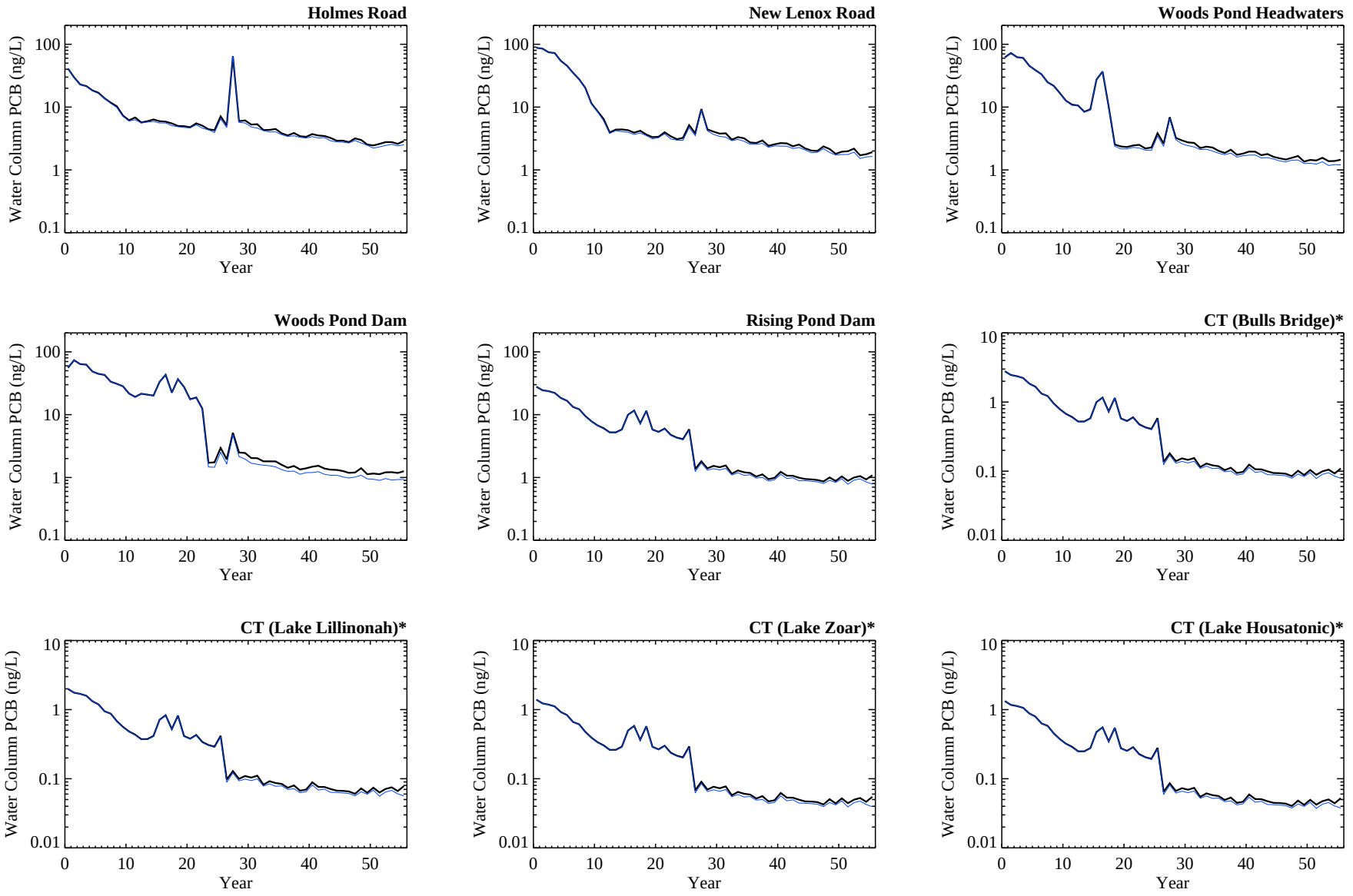

Figure GC19-1f. Temporal profile of model-predicted annual average water column PCB concentration by subreach under SED 7.

Notes: Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.

* *Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.*

Reaches 5/6 (Base Case) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED7CMSBS_0810-01\bins\; Reaches 5/6 (Lower Bound) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED7CMSLB_0810-03\bins
Reaches 7/8 (Base Case) - \\Nas-01-9a-c0\EFDC_Output\r78\CMS\Proj_R78_SED7CMSBS_0810-15\bins\; Reaches 7/8 (Lower Bound) - \\Nas-01-9a-c0\EFDC_Output\r78\CMS\Proj_R78_SED7CMSLB_0810-16\bins
CT Impoundments (Base Case) - z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED07_0810-15_base
CT Impoundments (Lower Bound)- z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED07_0810-16_low_bound

wk/if - Z:\GENcms\MODEL\EPA_EFDC\Post_Processors\Summary\Temporal_wcPCBs_rev3.pro
Tue Mar 03 09:12:56 2009

Water Column (SED 8)

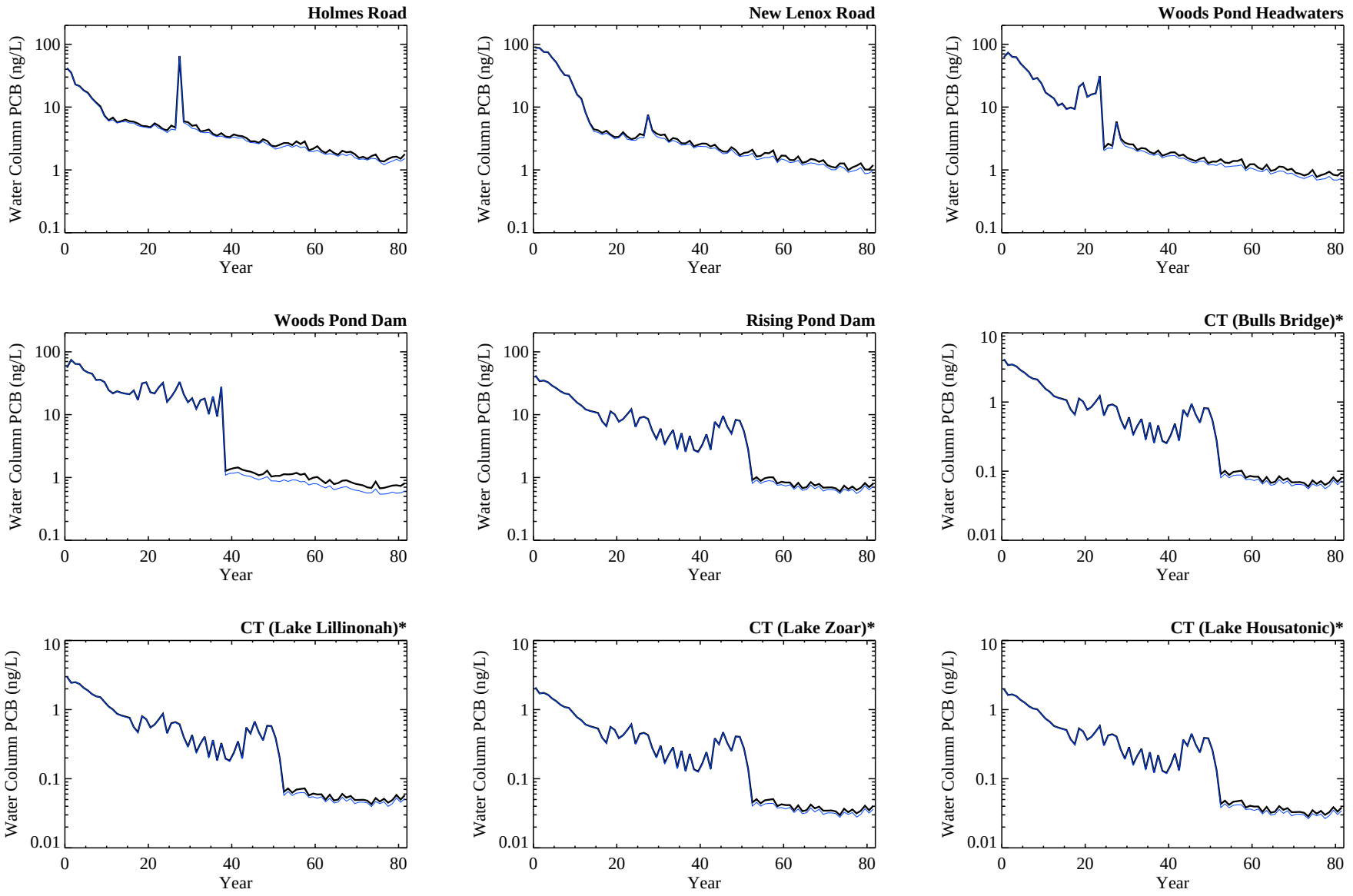

Figure GC19-1g. Temporal profile of model-predicted annual average water column PCB concentration by subreach under SED 8.

Notes: Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.

* *Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.*

Reaches 5/6 (Base Case) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED8CMSBS_0712-18\bins\; Reaches 5/6 (Lower Bound) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED8CMSLB_0712-25\bins
Reaches 7/8 (Base Case) - \\Nas-01-9a-c0\EFDC_Output\r78\CMS\Proj_R78_SED8CMSBS_0810-07\bins\; Reaches 7/8 (Lower Bound) - \\Nas-01-9a-c0\EFDC_Output\r78\CMS\Proj_R78_SED8CMSLB_0810-10\bins
CT Impoundments (Base Case) - z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED08_0810-07_base
CT Impoundments (Lower Bound)- z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED08_0810-10_low_bound

wk/if - Z:\GENcms\MODEL\EPA_EFDC\Post_Processors\Summary\Temporal_wcPCBs_rev3.pro
Tue Mar 03 09:13:06 2009

Surface Sediment (SED 1 / SED 2)

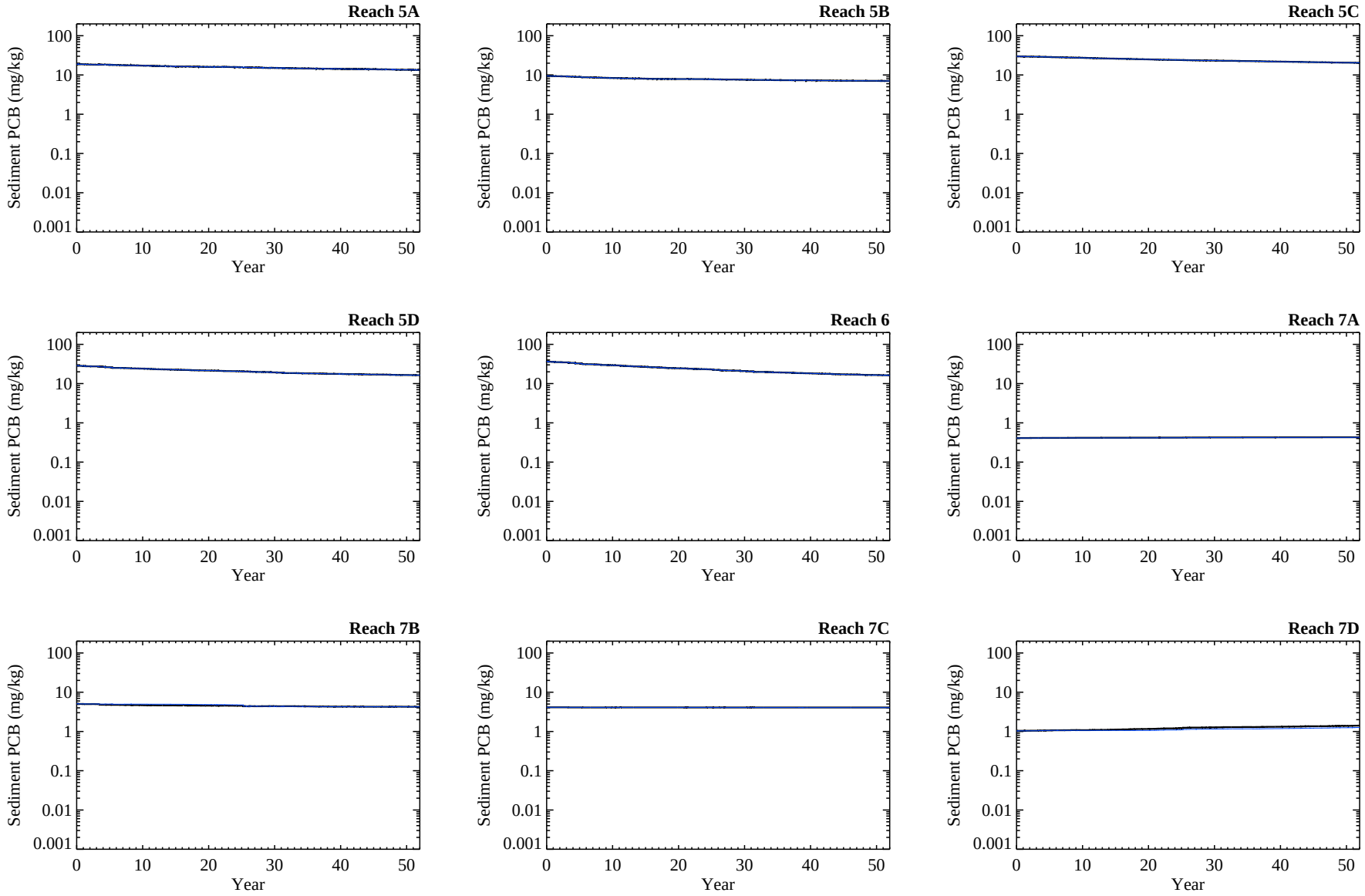

Figure GC19-2a. Temporal profile of model-predicted surface (0-6") sediment PCB concentration by subreach under SED 1 / SED 2.

[*] *Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.*

Reaches 5/6 (Base Case) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED1CMSBS_0712-01\bins\; Reaches 5/6 (Lower Bound) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED1CMSLB_0712-19\bins
Reaches 7/8 (Base Case) - \\TENMILE\EFDC_Output\r78\CMS\Proj_R78_SED1CMSBS_0712-28\bins\; Reaches 7/8 (Lower Bound) - \\TENMILE\EFDC_Output\r78\CMS\Proj_R78_SED1CMSLB_0712-35\bins
CT Impoundments (Base Case) - Z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED01_0712-28_base
CT Impoundments (Lower Bound)- Z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED01_0712-35_low_bound

wk/if - Z:\GENcms\MODEL\EPA_EFDC\Post_Processors\Summary\Temporal_bedPCBs_rev3.pro
Tue Mar 03 09:18:11 2009

Surface Sediment (SED 1 / SED 2)

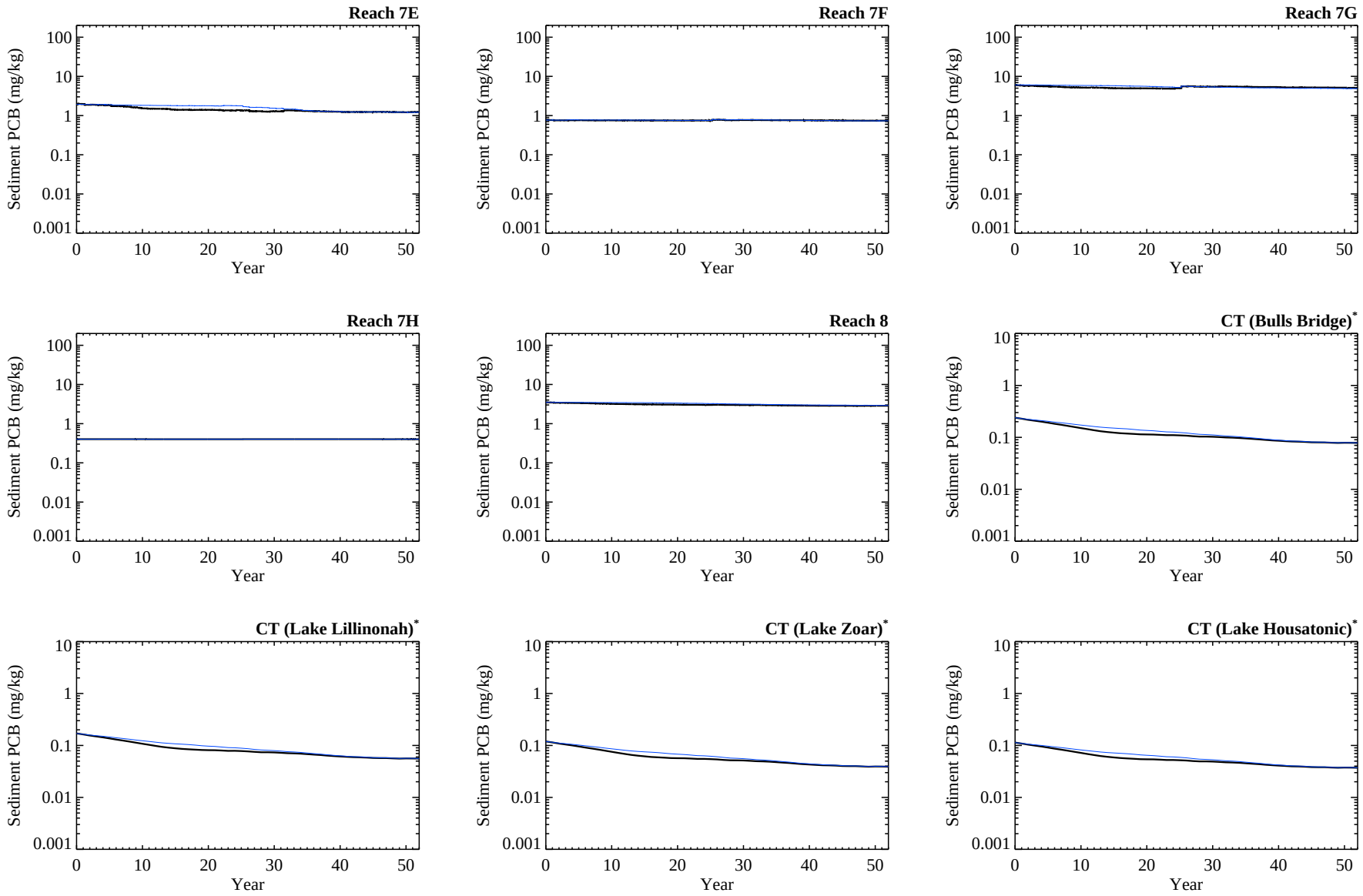

Figure GC19-2a. Temporal profile of model-predicted surface (0-6") sediment PCB concentration by subreach under SED 1 / SED 2.

* *Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.*

Reaches 5/6 (Base Case) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED1CMSBS_0712-01\bins\; Reaches 5/6 (Lower Bound) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED1CMSLB_0712-19\bins
Reaches 7/8 (Base Case) - \\TENMILE\EFDC_Output\r78\CMS\Proj_R78_SED1CMSBS_0712-28\bins\; Reaches 7/8 (Lower Bound) - \\TENMILE\EFDC_Output\r78\CMS\Proj_R78_SED1CMSLB_0712-35\bins
CT Impoundments (Base Case) - Z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED01_0712-28_base
CT Impoundments (Lower Bound)- Z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED01_0712-35_low_bound

wk/if - Z:\GENcms\MODEL\EPA_EFDC\Post_Processors\Summary\Temporal_bedPCBs_rev3.pro
Tue Mar 03 09:18:11 2009

Surface Sediment (SED 3)

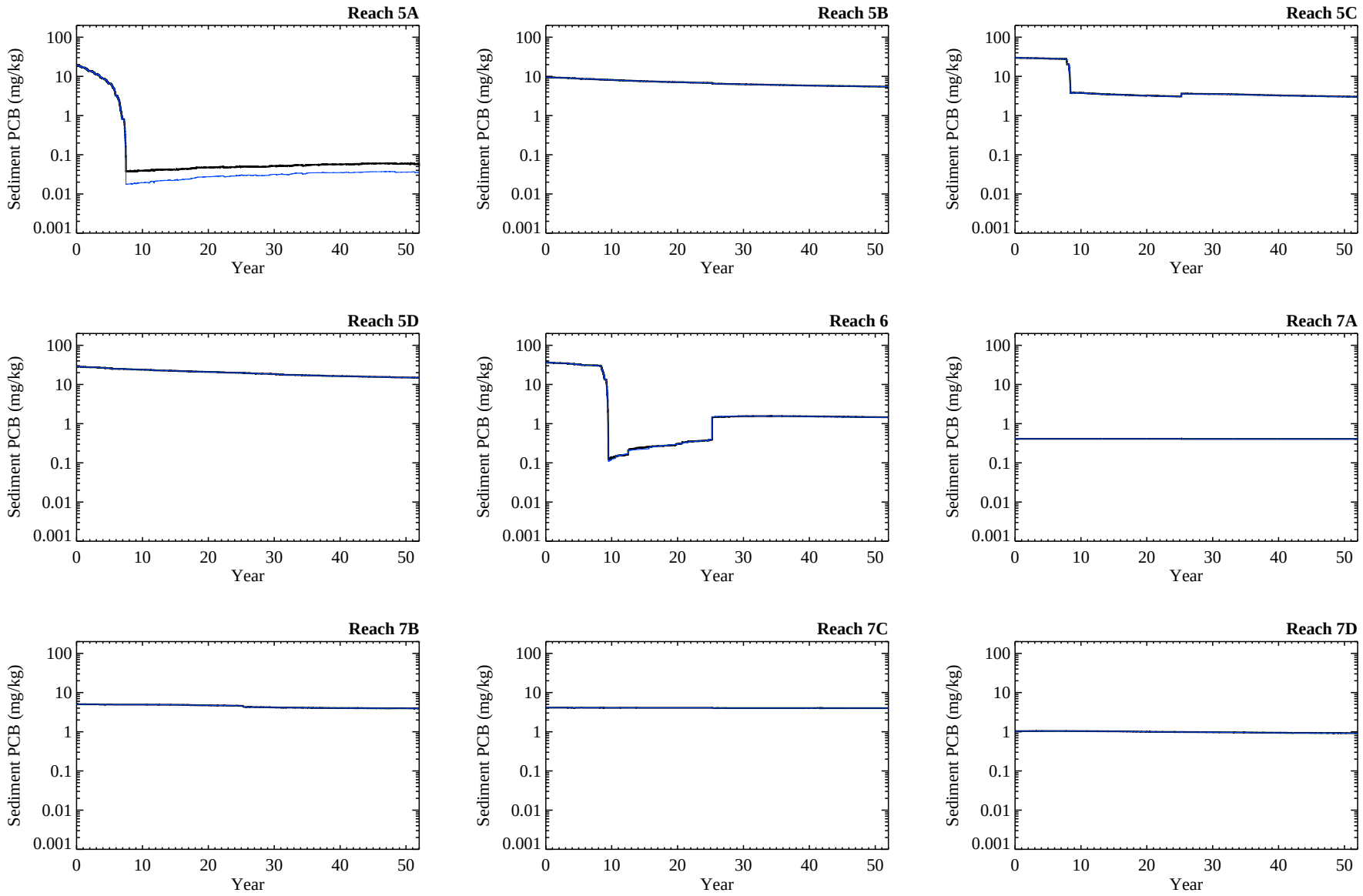

Figure GC19-2b. Temporal profile of model-predicted surface (0-6") sediment PCB concentration by subreach under SED 3.

* *Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.*

Reaches 5/6 (Base Case) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED3CMSBS_0712-13\bins\; Reaches 5/6 (Lower Bound) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED3CMSLB_0712-20\bins
Reaches 7/8 (Base Case) - \\TENMILE\EFDC_Output\r78\CMS\Proj_R78_SED3CMSBS_0712-29\bins\; Reaches 7/8 (Lower Bound) - \\TENMILE\EFDC_Output\r78\CMS\Proj_R78_SED3CMSLB_0712-36\bins
CT Impoundments (Base Case) - Z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED03_0712-29_base
CT Impoundments (Lower Bound)- Z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED03_0712-36_low_bound

wk/if - Z:\GENcms\MODEL\EPA_EFDC\Post_Processors\Summary\Temporal_bedPCBs_rev3.pro
Tue Mar 03 09:20:07 2009

Surface Sediment (SED 3)

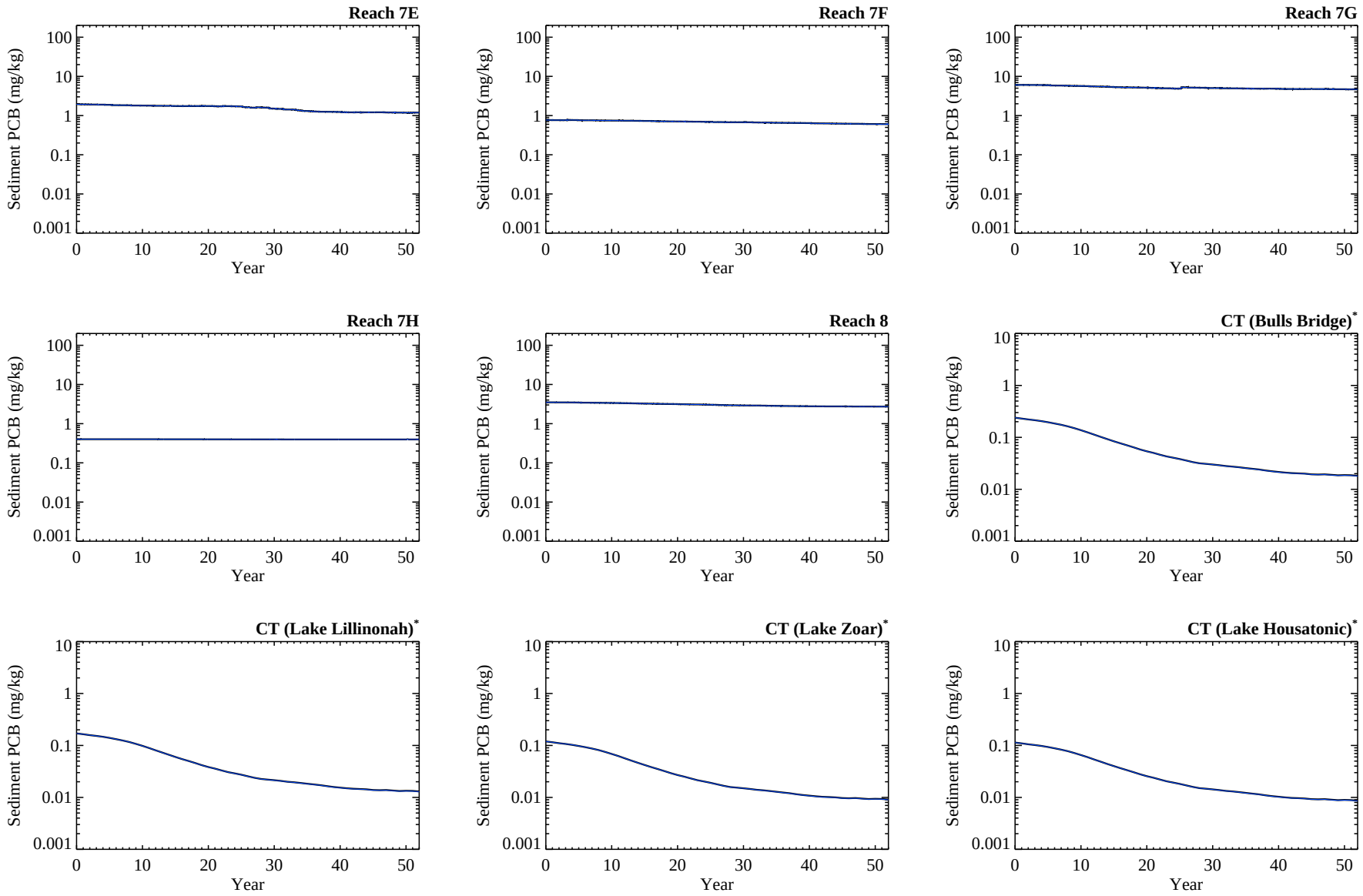

Figure GC19-2b. Temporal profile of model-predicted surface (0-6") sediment PCB concentration by subreach under SED 3.

* *Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.*

Reaches 5/6 (Base Case) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED3CMSBS_0712-13\bins\; Reaches 5/6 (Lower Bound) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED3CMSLB_0712-20\bins
Reaches 7/8 (Base Case) - \\TENMILE\EFDC_Output\r78\CMS\Proj_R78_SED3CMSBS_0712-29\bins\; Reaches 7/8 (Lower Bound) - \\TENMILE\EFDC_Output\r78\CMS\Proj_R78_SED3CMSLB_0712-36\bins
CT Impoundments (Base Case) - Z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED03_0712-29_base
CT Impoundments (Lower Bound)- Z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED03_0712-36_low_bound

wk/if - Z:\GENcms\MODEL\EPA_EFDC\Post_Processors\Summary\Temporal_bedPCBs_rev3.pro
Tue Mar 03 09:20:07 2009

Surface Sediment (SED 4)

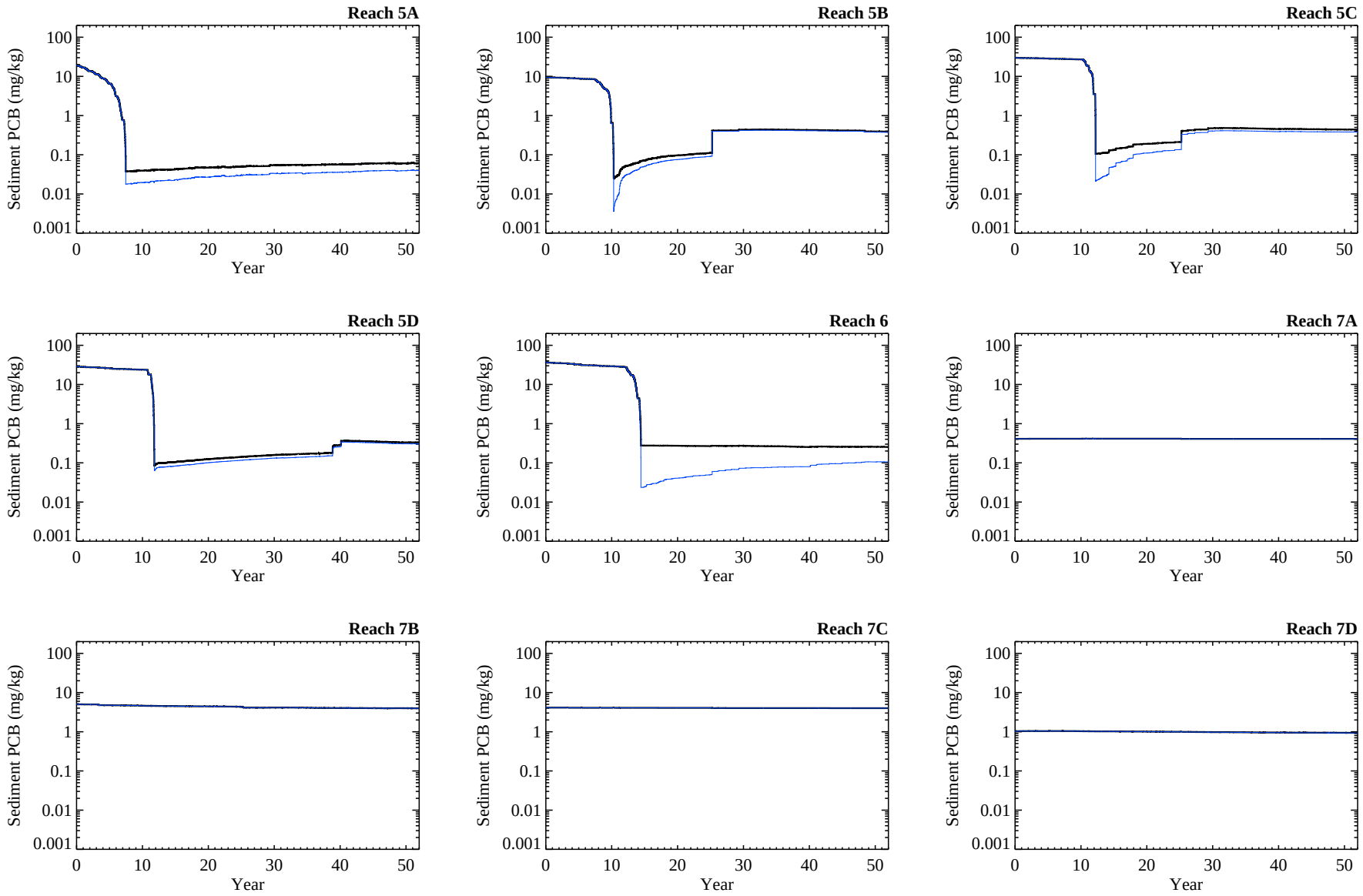

Figure GC19-2c. Temporal profile of model-predicted surface (0-6") sediment PCB concentration by subreach under SED 4.

* *Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.*

Reaches 5/6 (Base Case) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED4CMSBS_0801-01\bins\; Reaches 5/6 (Lower Bound) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED4CMSLB_0801-03\bins
Reaches 7/8 (Base Case) - \\TENMILE\EFDC_Output\r78\CMS\Proj_R78_SED4CMSBS_0802-01\bins\; Reaches 7/8 (Lower Bound) - \\TENMILE\EFDC_Output\r78\CMS\Proj_R78_SED4CMSLB_0802-03\bins
CT Impoundments (Base Case) - Z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED04_0802-01_base
CT Impoundments (Lower Bound)- Z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED04_0802-03_low_bound

wk/if - Z:\GENcms\MODEL\EPA_EFDC\Post_Processors\Summary\Temporal_bedPCBs_rev3.pro
Tue Mar 03 09:21:34 2009

Surface Sediment (SED 4)

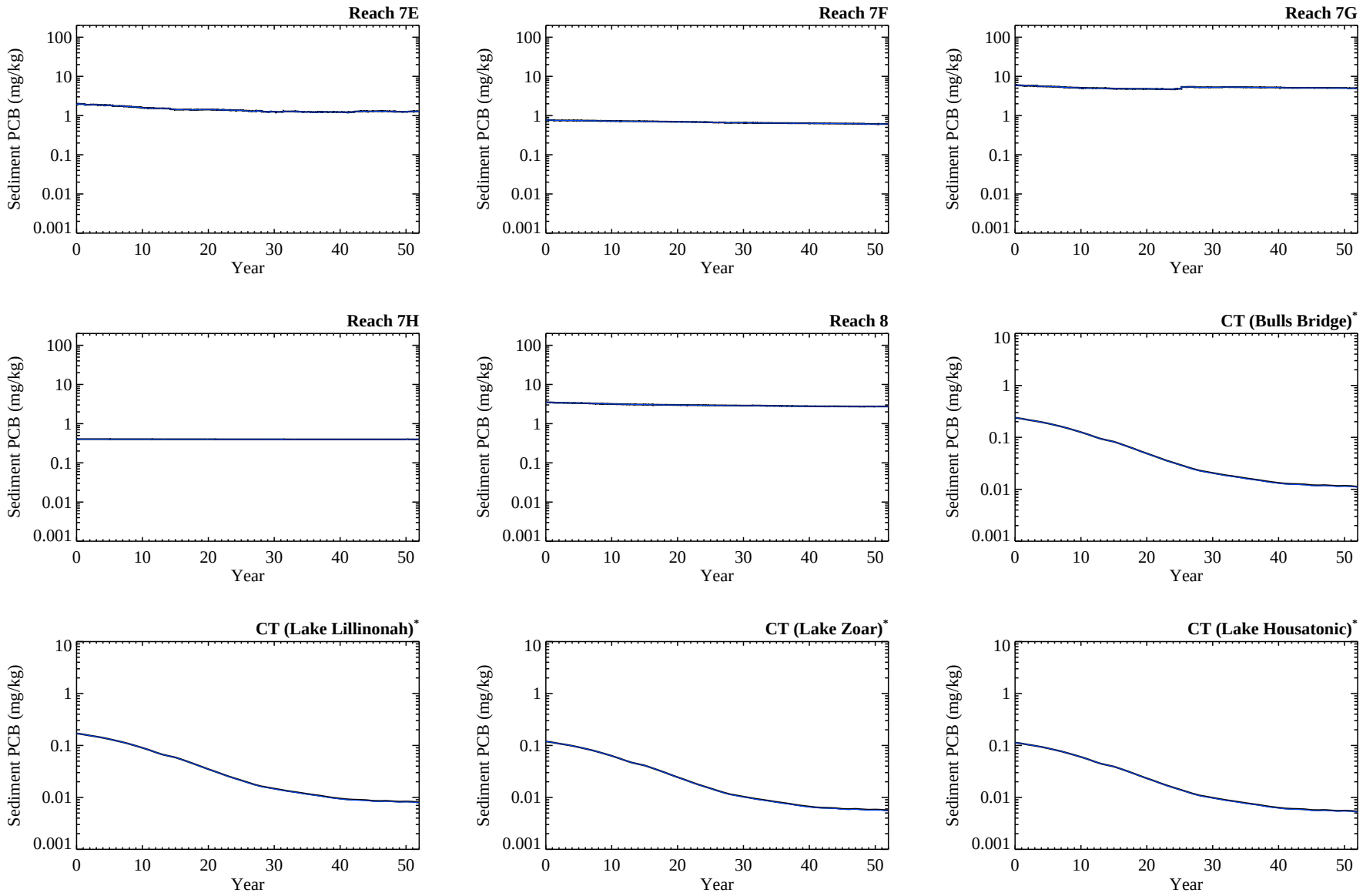

Figure GC19-2c. Temporal profile of model-predicted surface (0-6") sediment PCB concentration by subreach under SED 4.

* *Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.*

Reaches 5/6 (Base Case) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED4CMSBS_0801-01\bins\; Reaches 5/6 (Lower Bound) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED4CMSLB_0801-03\bins
Reaches 7/8 (Base Case) - \\TENMILE\EFDC_Output\r78\CMS\Proj_R78_SED4CMSBS_0802-01\bins\; Reaches 7/8 (Lower Bound) - \\TENMILE\EFDC_Output\r78\CMS\Proj_R78_SED4CMSLB_0802-03\bins
CT Impoundments (Base Case) - Z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED04_0802-01_base
CT Impoundments (Lower Bound)- Z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED04_0802-03_low_bound

wk/if - Z:\GENcms\MODEL\EPA_EFDC\Post_Processors\Summary\Temporal_bedPCBs_rev3.pro
Tue Mar 03 09:21:34 2009

Surface Sediment (SED 5)

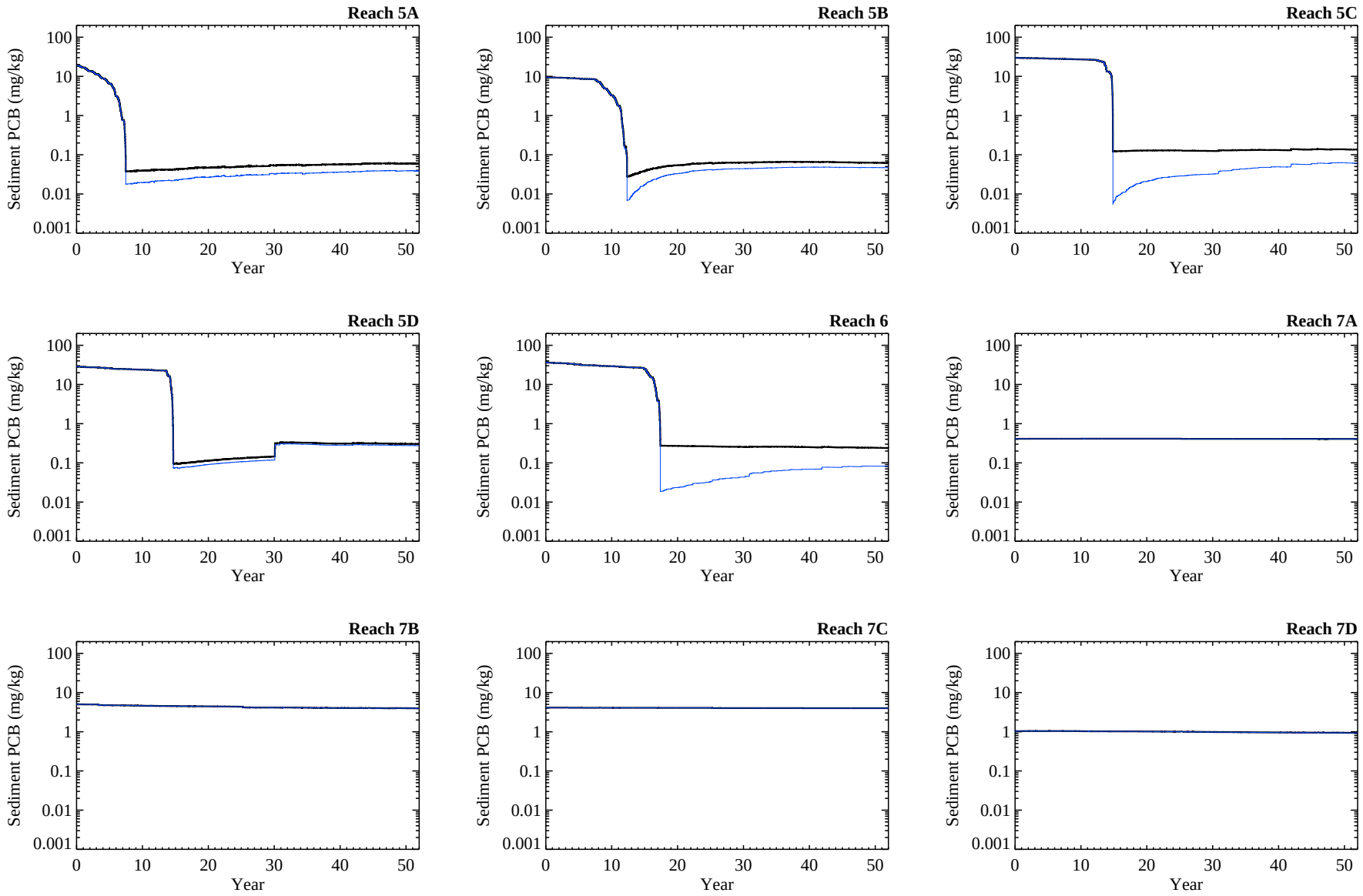

Figure GC19-2d. Temporal profile of model-predicted surface (0-6") sediment PCB concentration by subreach under SED 5.

[*] *Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.*

Reaches 5/6 (Base Case) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED5CMSBS_0801-02\bins\; Reaches 5/6 (Lower Bound) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED5CMSLB_0801-04\bins
Reaches 7/8 (Base Case) - \\TENMILE\EFDC_Output\r78\CMS\Proj_R78_SED5CMSBS_0802-02\bins\; Reaches 7/8 (Lower Bound) - \\TENMILE\EFDC_Output\r78\CMS\Proj_R78_SED5CMSLB_0802-04\bins
CT Impoundments (Base Case) - Z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED05_0802-02_base
CT Impoundments (Lower Bound)- Z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED05_0802-04_low_bound

wk/if - Z:\GENcms\MODEL\EPA_EFDC\Post_Processors\Summary\Temporal_bedPCBs_rev3.pro
Tue Mar 03 09:23:04 2009

Surface Sediment (SED 5)

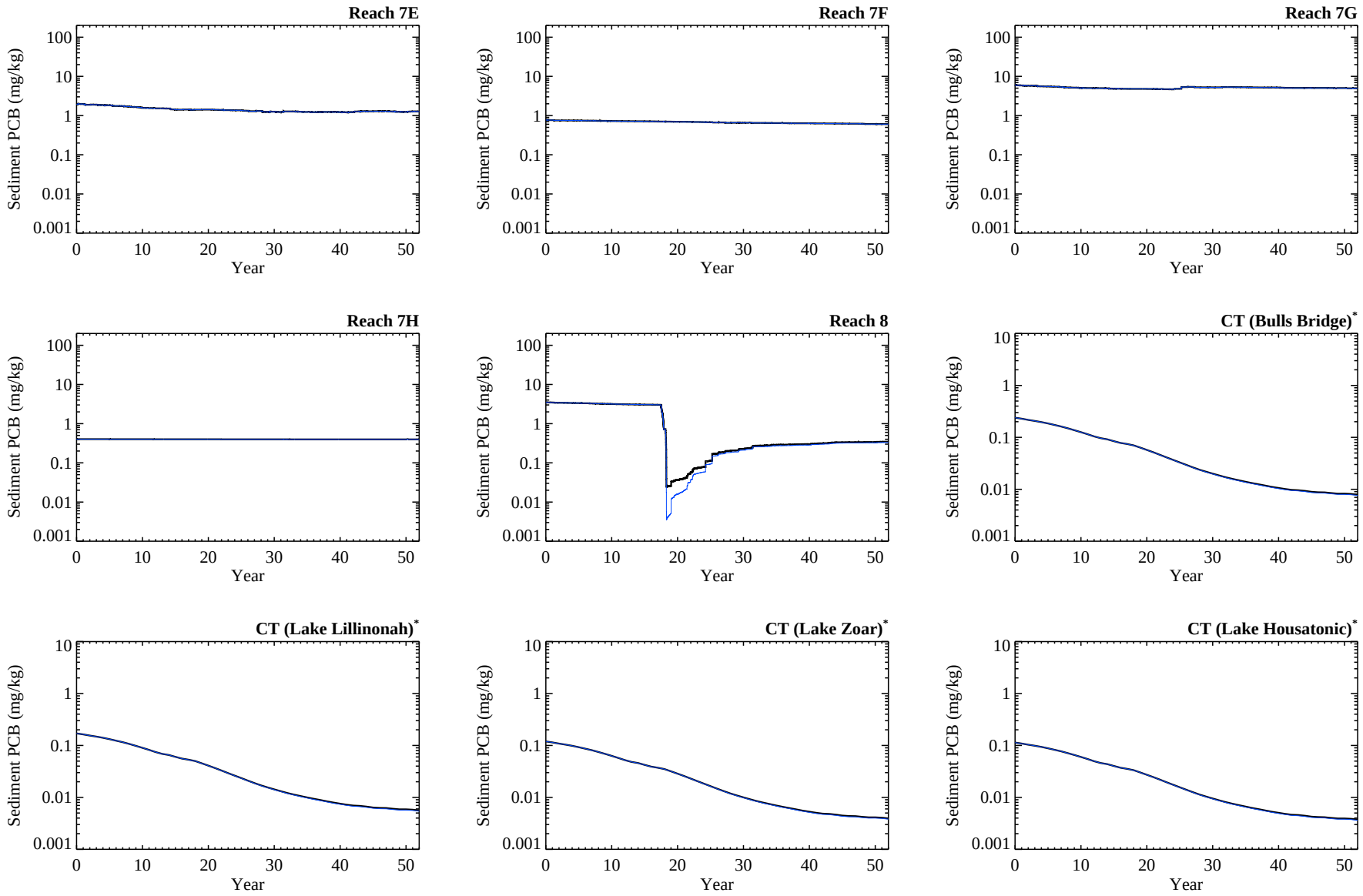

Figure GC19-2d. Temporal profile of model-predicted surface (0-6") sediment PCB concentration by subreach under SED 5.

* *Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.*

Reaches 5/6 (Base Case) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED5CMSBS_0801-02\bins\; Reaches 5/6 (Lower Bound) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED5CMSLB_0801-04\bins
Reaches 7/8 (Base Case) - \\TENMILE\EFDC_Output\r78\CMS\Proj_R78_SED5CMSBS_0802-02\bins\; Reaches 7/8 (Lower Bound) - \\TENMILE\EFDC_Output\r78\CMS\Proj_R78_SED5CMSLB_0802-04\bins
CT Impoundments (Base Case) - Z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED05_0802-02_base
CT Impoundments (Lower Bound)- Z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED05_0802-04_low_bound

wk/if - Z:\GENcms\MODEL\EPA_EFDC\Post_Processors\Summary\Temporal_bedPCBs_rev3.pro
Tue Mar 03 09:23:04 2009

Surface Sediment (SED 6)

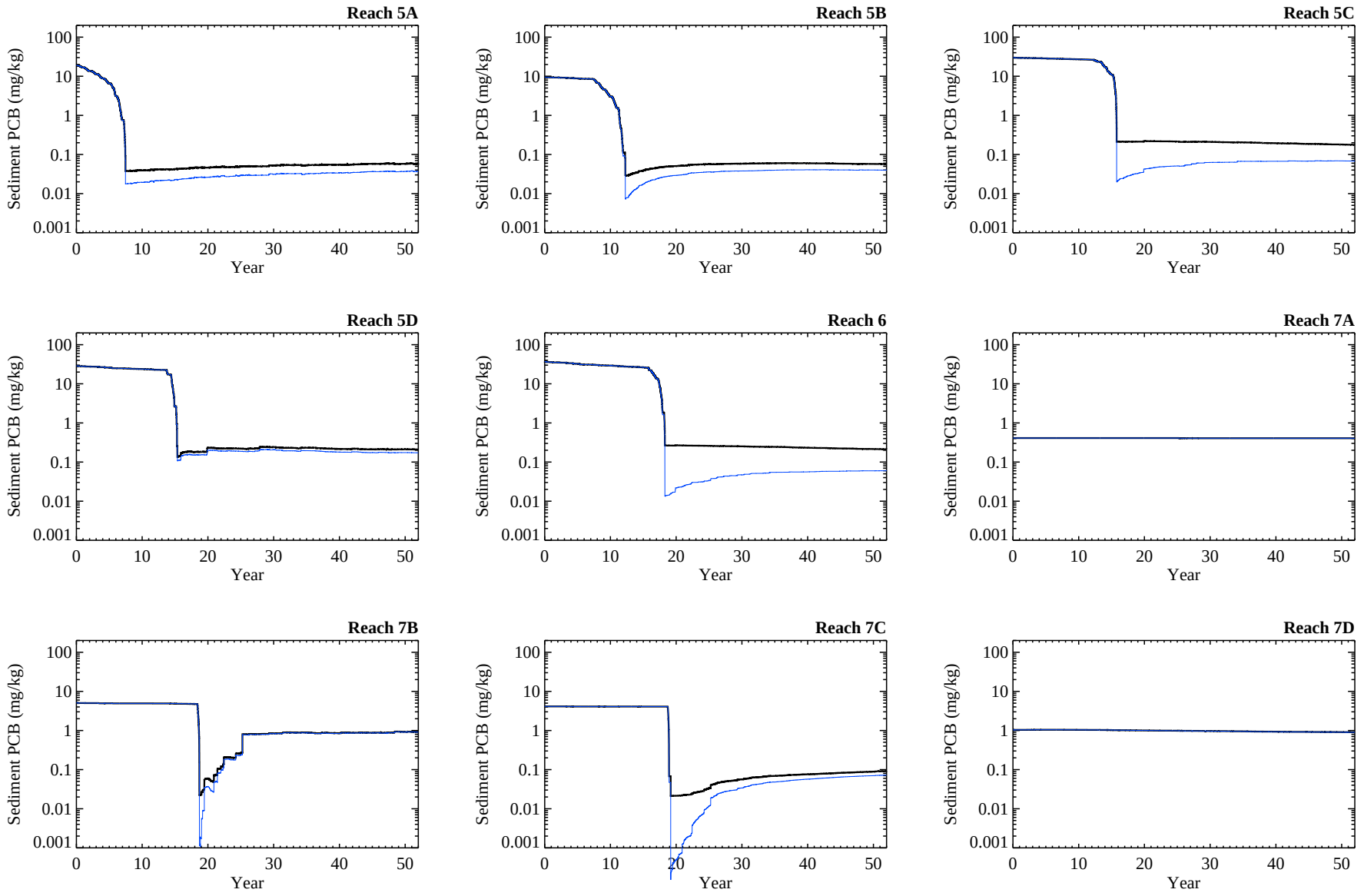

Figure GC19-2e. Temporal profile of model-predicted surface (0-6") sediment PCB concentration by subreach under SED 6.

Notes: Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.

* *Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.*

Reaches 5/6 (Base Case) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED6CMSBS_0712-16\bins\; Reaches 5/6 (Lower Bound) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED6CMSLB_0712-23\bins
Reaches 7/8 (Base Case) - \\Nas-01-9a-c0\EFDC_Output\r78\CMS\Proj_R78_SED6CMSBS_0810-05\bins\; Reaches 7/8 (Lower Bound) - \\Nas-01-9a-c0\EFDC_Output\r78\CMS\Proj_R78_SED6CMSLB_0810-08\bins
CT Impoundments (Base Case) - Z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED06_0810-05_base
CT Impoundments (Lower Bound)- Z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED06_0810-08_low_bound

wk/if - Z:\GENcms\MODEL\EPA_EFDC\Post_Processors\Summary\Temporal_bedPCBs_rev3.pro
Tue Mar 03 09:24:49 2009

Surface Sediment (SED 6)

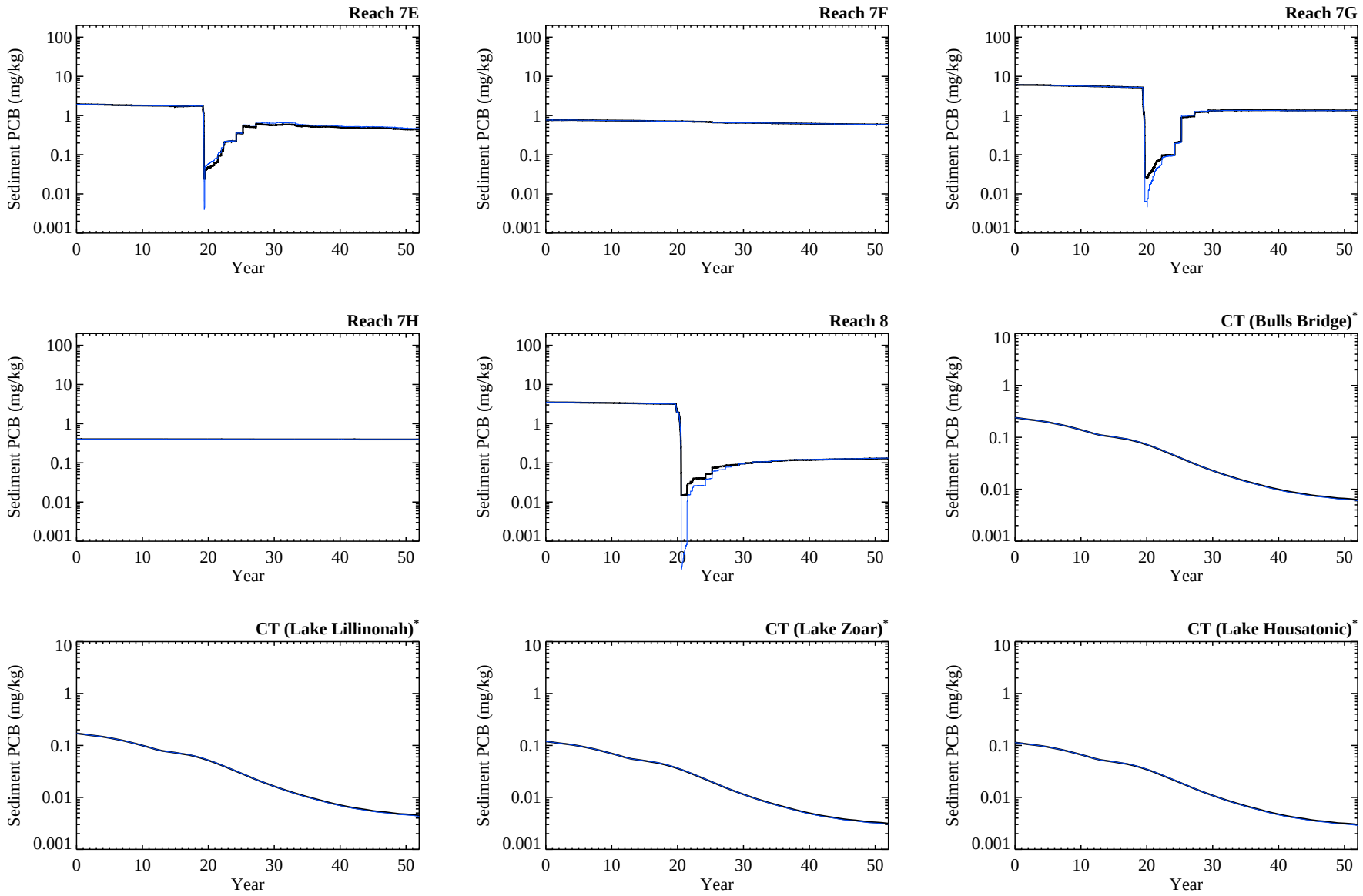

Figure GC19-2e. Temporal profile of model-predicted surface (0-6") sediment PCB concentration by subreach under SED 6.

Notes: Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.

* *Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.*

Reaches 5/6 (Base Case) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED6CMSBS_0712-16\bins\; Reaches 5/6 (Lower Bound) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED6CMSLB_0712-23\bins
Reaches 7/8 (Base Case) - \\Nas-01-9a-c0\EFDC_Output\r78\CMS\Proj_R78_SED6CMSBS_0810-05\bins\; Reaches 7/8 (Lower Bound) - \\Nas-01-9a-c0\EFDC_Output\r78\CMS\Proj_R78_SED6CMSLB_0810-08\bins
CT Impoundments (Base Case) - Z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED06_0810-05_base
CT Impoundments (Lower Bound)- Z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED06_0810-08_low_bound

wk/if - Z:\GENcms\MODEL\EPA_EFDC\Post_Processors\Summary\Temporal_bedPCBs_rev3.pro
Tue Mar 03 09:24:50 2009

Surface Sediment (SED 7)

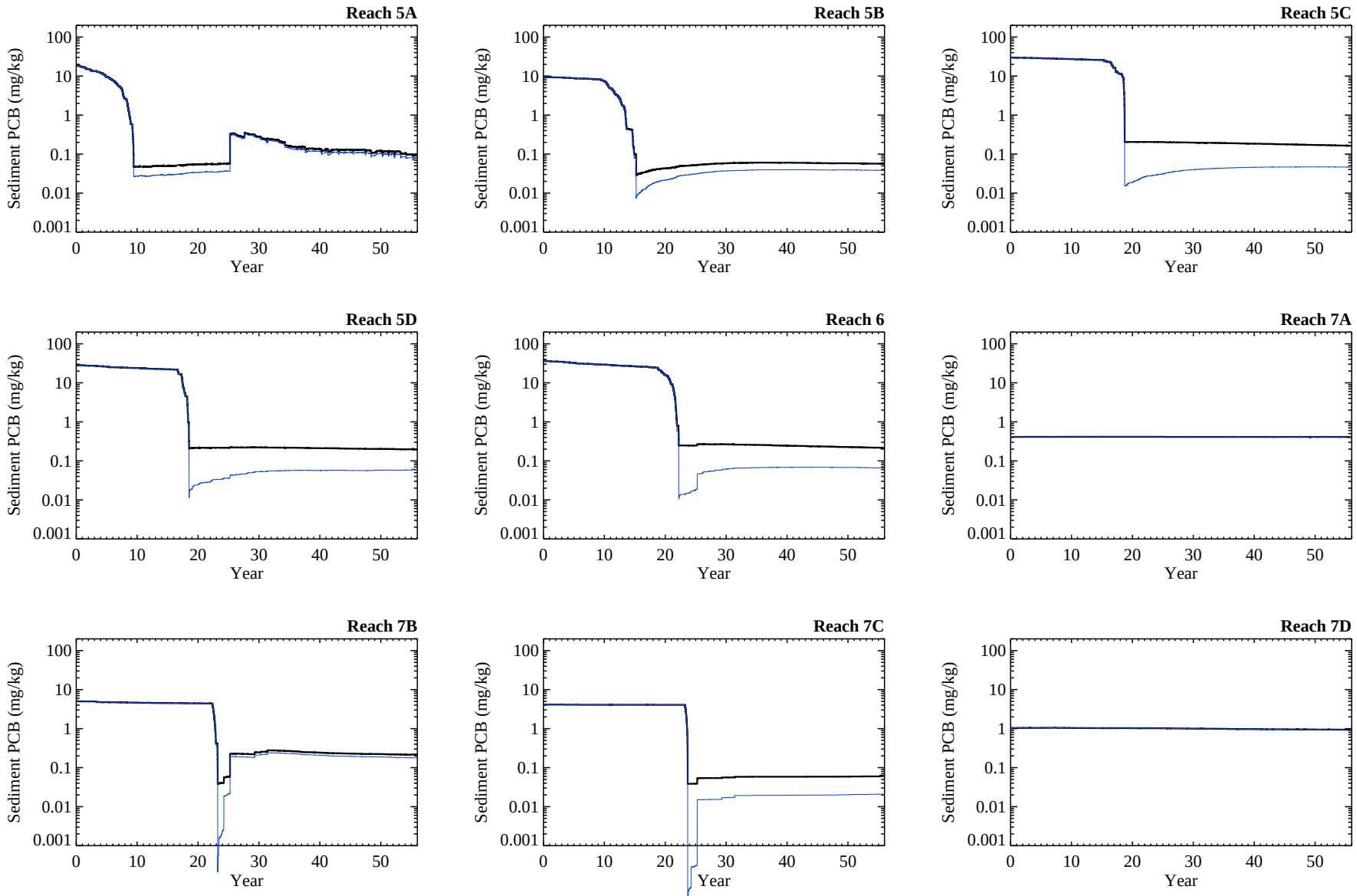

Figure GC19-2f. Temporal profile of model-predicted surface (0-6") sediment PCB concentration by subreach under SED 7.

Notes: Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.

* *Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.*

Reaches 5/6 (Base Case) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED7CMSBS_0810-01\bins\; Reaches 5/6 (Lower Bound) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED7CMSLB_0810-03\bins
Reaches 7/8 (Base Case) - \\Nas-01-9a-c0\EFDC_Output\r78\CMS\Proj_R78_SED7CMSBS_0810-15\bins\; Reaches 7/8 (Lower Bound) - \\Nas-01-9a-c0\EFDC_Output\r78\CMS\Proj_R78_SED7CMSLB_0810-16\bins
CT Impoundments (Base Case) - Z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED07_0810-15_base
CT Impoundments (Lower Bound)- Z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED07_0810-16_low_bound

wk/if - Z:\GENcms\MODEL\EPA_EFDC\Post_Processors\Summary\Temporal_bedPCBs_rev3.pro
Tue Mar 03 09:26:39 2009

Surface Sediment (SED 7)

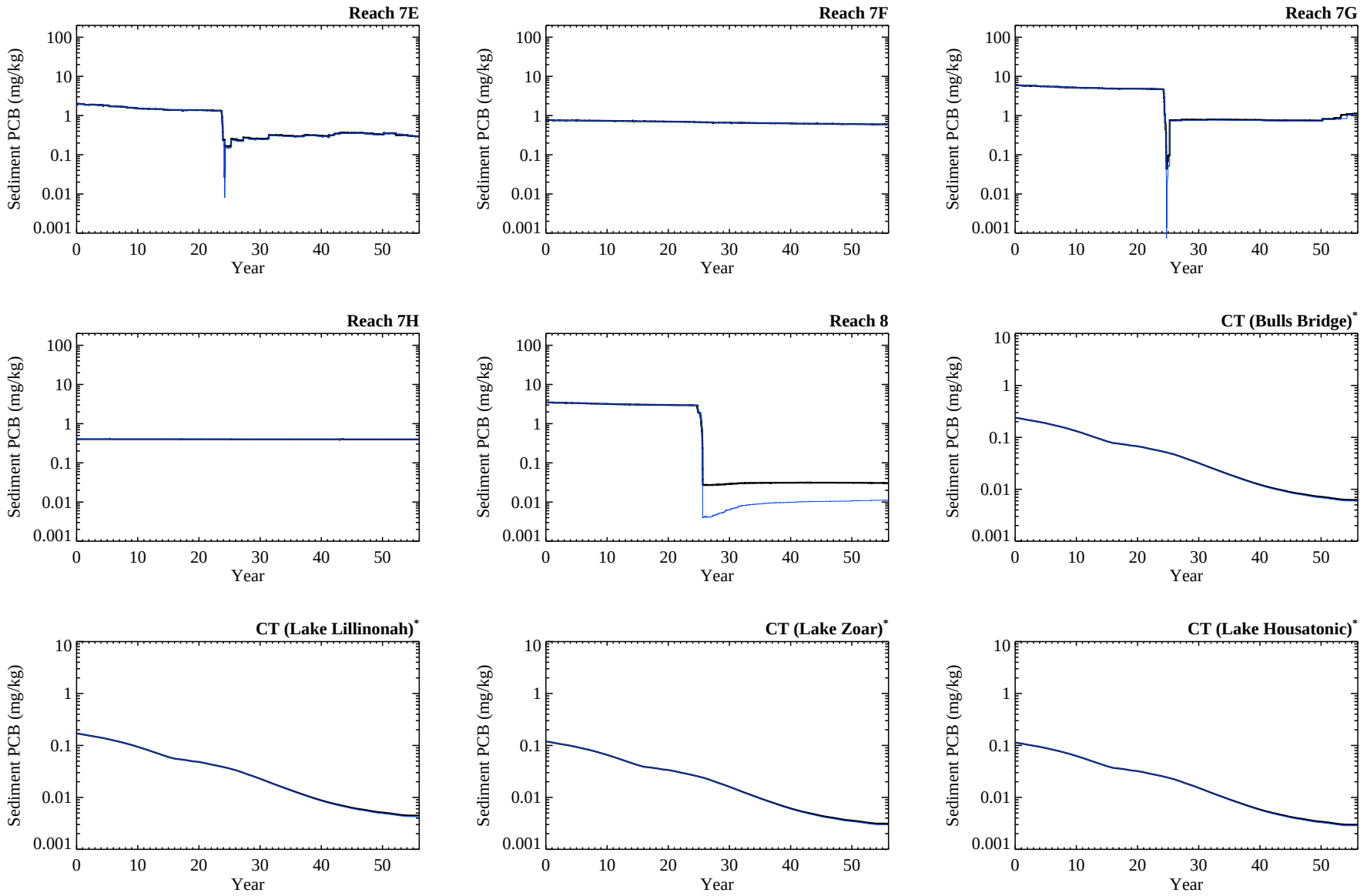

Figure GC19-2f. Temporal profile of model-predicted surface (0-6") sediment PCB concentration by subreach under SED 7.

Notes: Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.

* *Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.*

Reaches 5/6 (Base Case) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED7CMSBS_0810-01\bins\; Reaches 5/6 (Lower Bound) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED7CMSLB_0810-03\bins
Reaches 7/8 (Base Case) - \\Nas-01-9a-c0\EFDC_Output\r78\CMS\Proj_R78_SED7CMSBS_0810-15\bins\; Reaches 7/8 (Lower Bound) - \\Nas-01-9a-c0\EFDC_Output\r78\CMS\Proj_R78_SED7CMSLB_0810-16\bins
CT Impoundments (Base Case) - Z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED07_0810-15_base
CT Impoundments (Lower Bound)- Z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED07_0810-16_low_bound

wk/if - Z:\GENcms\MODEL\EPA_EFDC\Post_Processors\Summary\Temporal_bedPCBs_rev3.pro
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Surface Sediment (SED 8)

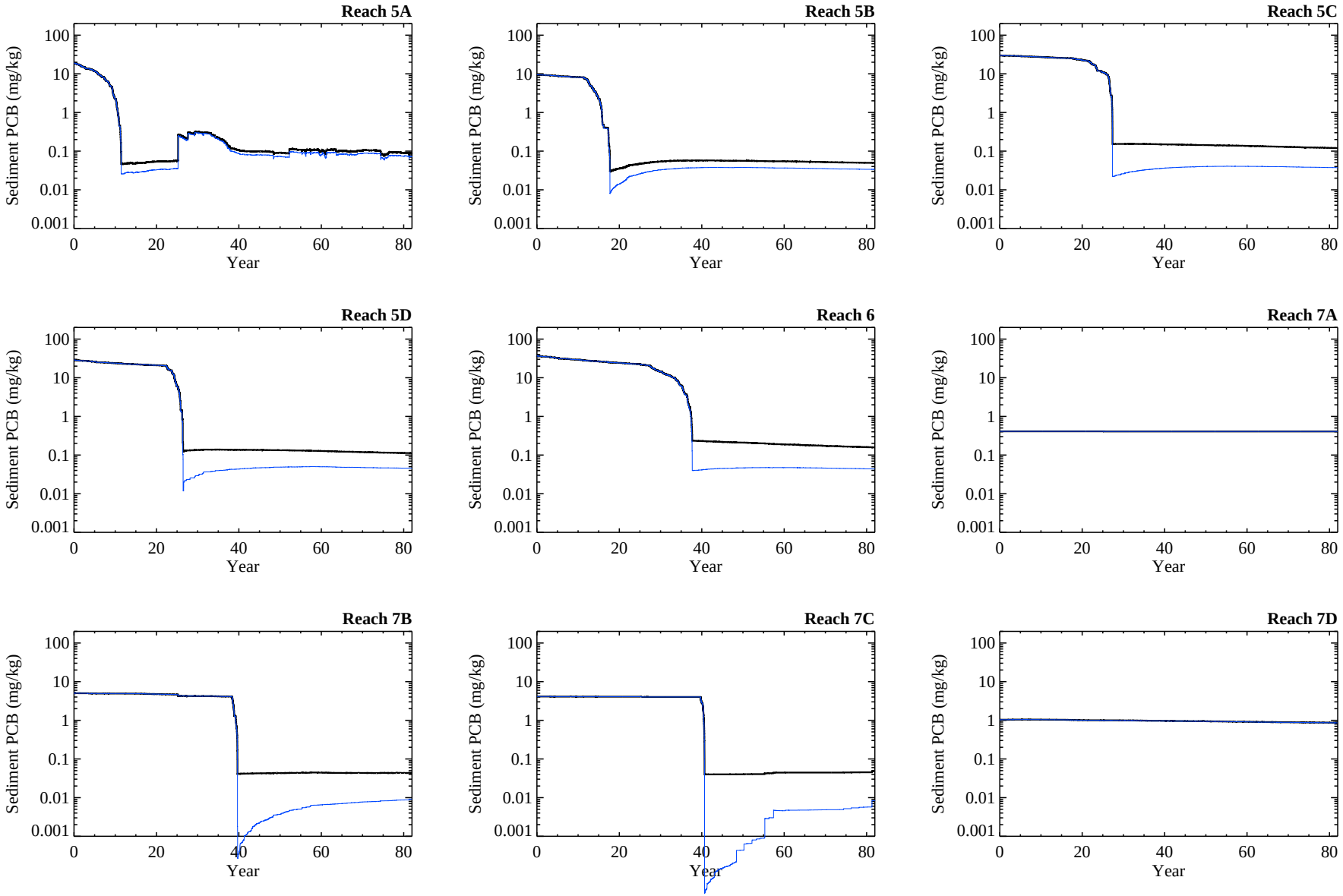

Figure GC19-2g. Temporal profile of model-predicted surface (0-6") sediment PCB concentration by subreach under SED 8.

Notes: Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.

* *Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.*

Reaches 5/6 (Base Case) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED8CMSBS_0712-18\bins\; Reaches 5/6 (Lower Bound) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED8CMSLB_0712-25\bins
Reaches 7/8 (Base Case) - \\Nas-01-9a-c0\EFDC_Output\r78\CMS\Proj_R78_SED8CMSBS_0810-07\bins\; Reaches 7/8 (Lower Bound) - \\Nas-01-9a-c0\EFDC_Output\r78\CMS\Proj_R78_SED8CMSLB_0810-10\bins
CT Impoundments (Base Case) - Z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED08_0810-07_base
CT Impoundments (Lower Bound)- Z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED08_0810-10_low_bound

wk/if - Z:\GENcms\MODEL\EPA_EFDC\Post_Processors\Summary\Temporal_bedPCBs_rev3.pro
Tue Mar 03 09:29:07 2009

Surface Sediment (SED 8)

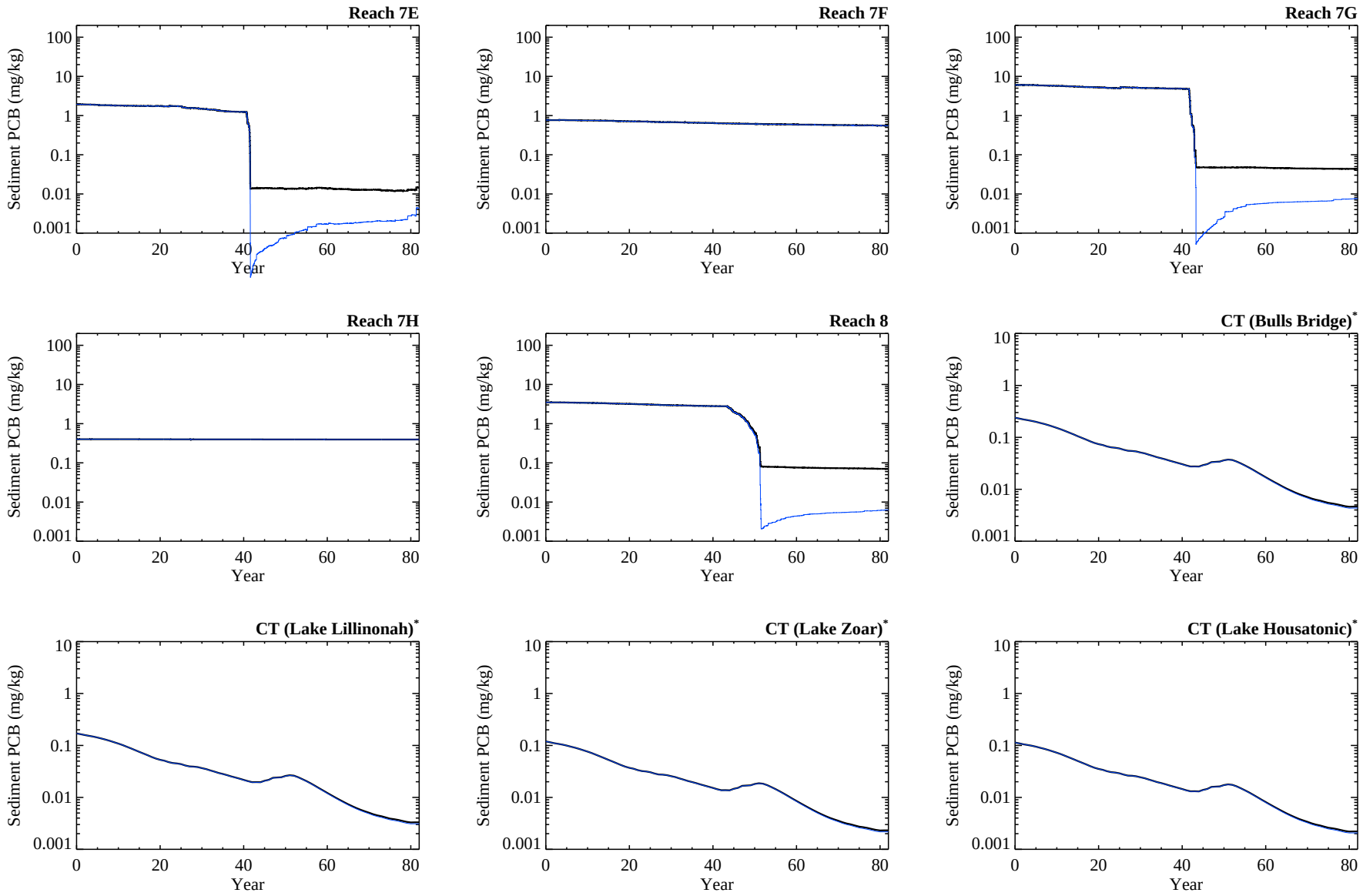

Figure GC19-2g. Temporal profile of model-predicted surface (0-6") sediment PCB concentration by subreach under SED 8.

Notes: Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.

* *Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.*

Reaches 5/6 (Base Case) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED8CMSBS_0712-18\bins\; Reaches 5/6 (Lower Bound) - \\TENMILE\EFDC_Output\r56\CMS\Proj_R56_SED8CMSLB_0712-25\bins
Reaches 7/8 (Base Case) - \\Nas-01-9a-c0\EFDC_Output\r78\CMS\Proj_R78_SED8CMSBS_0810-07\bins\; Reaches 7/8 (Lower Bound) - \\Nas-01-9a-c0\EFDC_Output\r78\CMS\Proj_R78_SED8CMSLB_0810-10\bins
CT Impoundments (Base Case) - Z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED08_0810-07_base
CT Impoundments (Lower Bound)- Z:\GENcms\MODEL\Deposition_model\BBD\outputs\Projection\ProjCT_SED08_0810-10_low_bound

wk/if - Z:\GENcms\MODEL\EPA_EFDC\Post_Processors\Summary\Temporal_bedPCBs_rev3.pro
Tue Mar 03 09:29:08 2009

Largemouth bass (whole body; SED 1 / SED2)

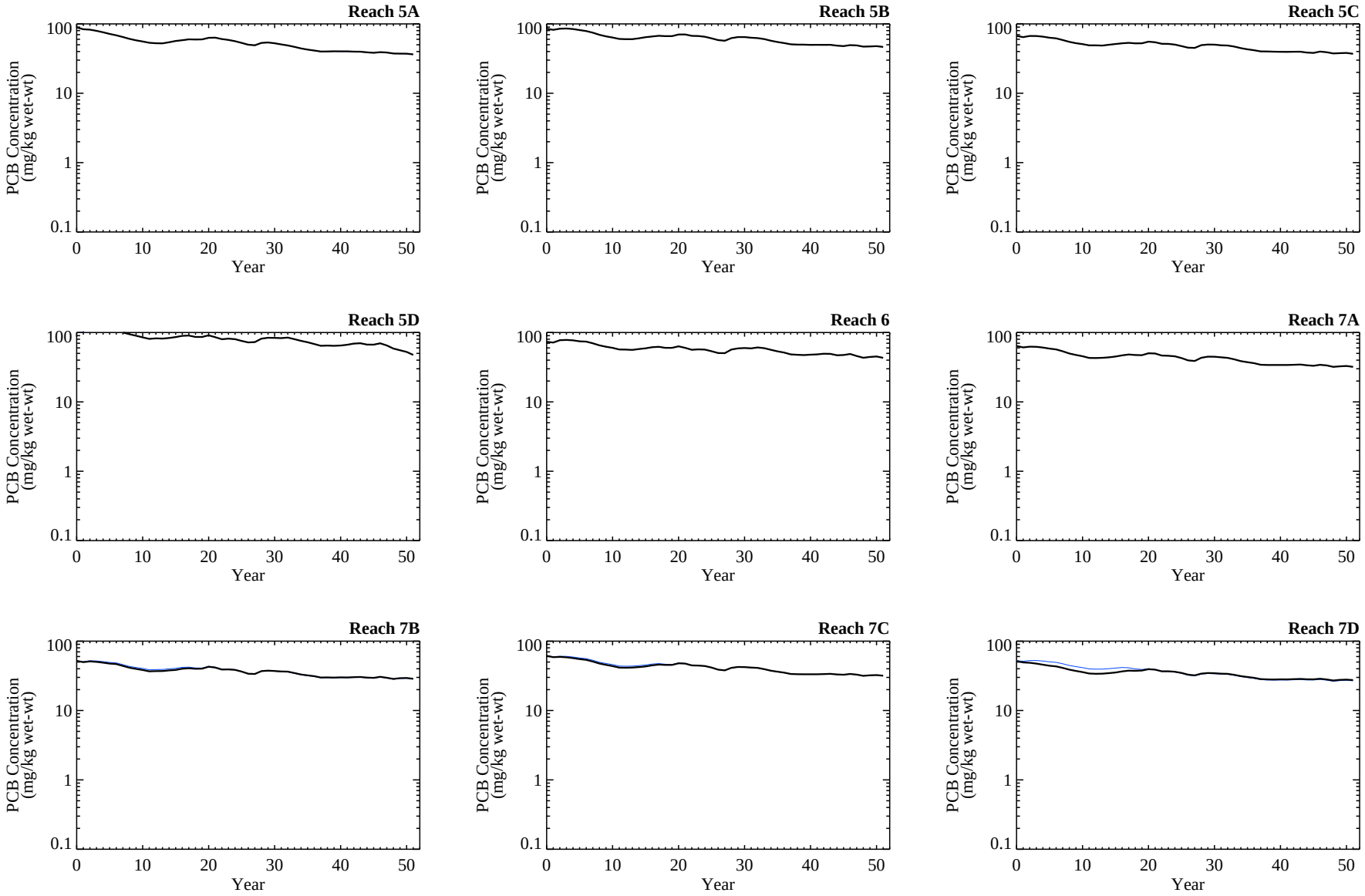

Figure GC19-3a. Average PCB concentration in largemouth bass (whole body) by subreach under SED 1 / SED2.

Notes: Average calculated for fish ages 5 to 9 from days between Aug. 28th through Oct. 26th of each year
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.

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Thu Feb 12 09:41:50 2009

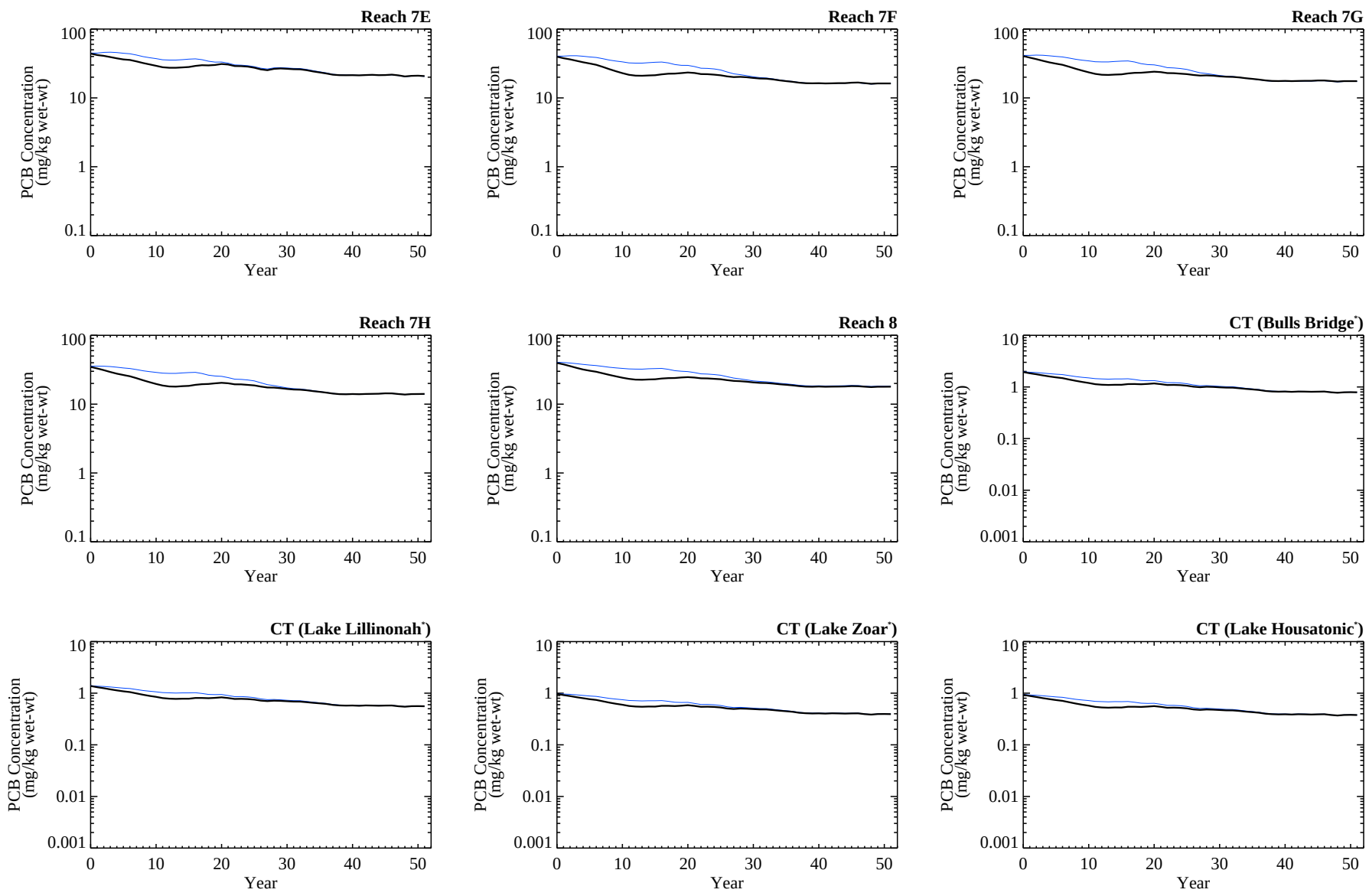

Figure GC19-3a. Average PCB concentration in largemouth bass (whole body) by subreach under SED 1 / SED2.

Notes: Average calculated for fish ages 5 to 9 from days between Aug. 28th through Oct. 26th of each year
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.

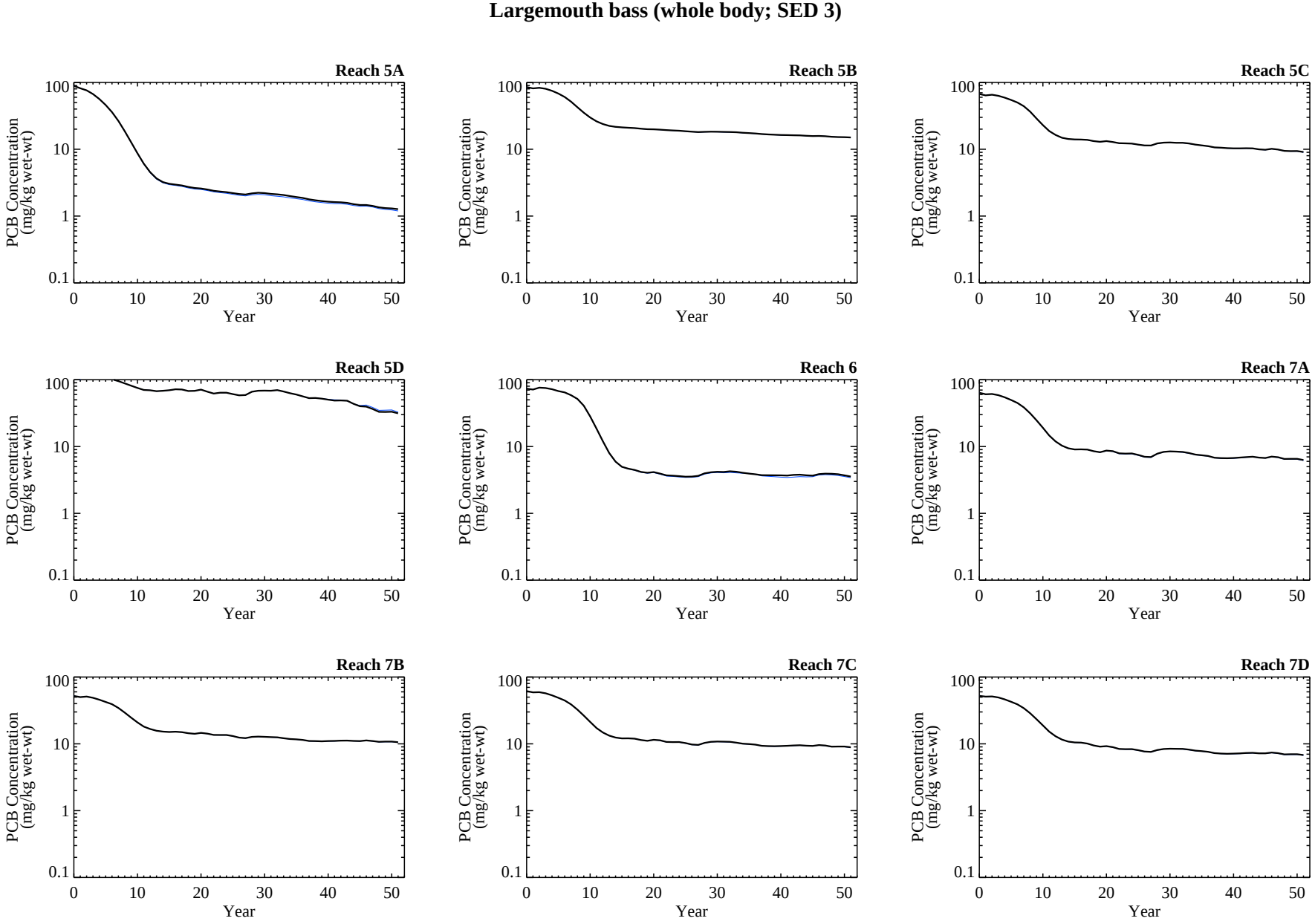

Figure GC19-3b. Average PCB concentration in largemouth bass (whole body) by subreach under SED 3.

Notes: Average calculated for fish ages 5 to 9 from days between Aug. 28th through Oct. 26th of each year
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.

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Thu Feb 12 10:22:58 2009

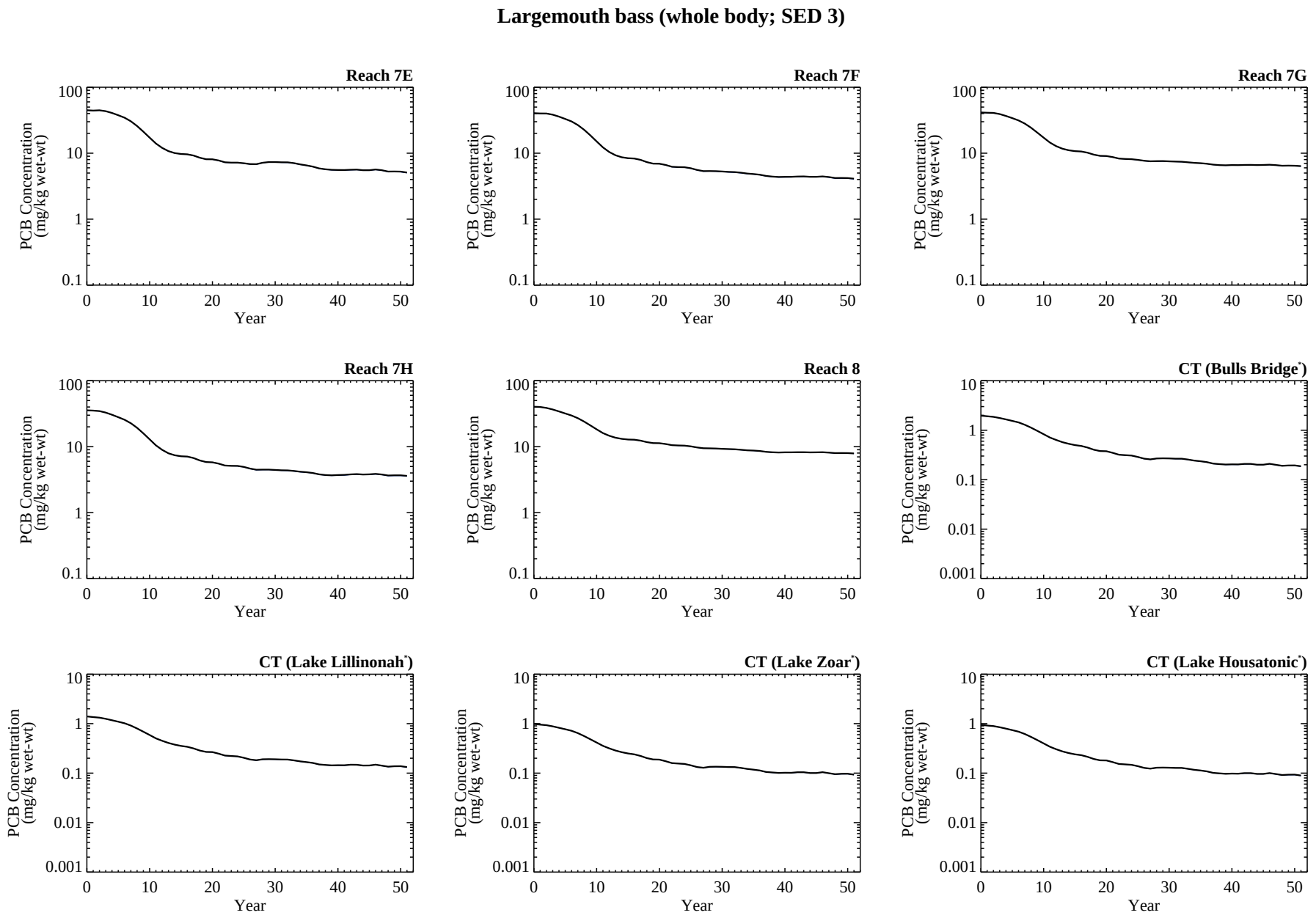

Figure GC19-3b. Average PCB concentration in largemouth bass (whole body) by subreach under SED 3.

Notes: Average calculated for fish ages 5 to 9 from days between Aug. 28th through Oct. 26th of each year
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.

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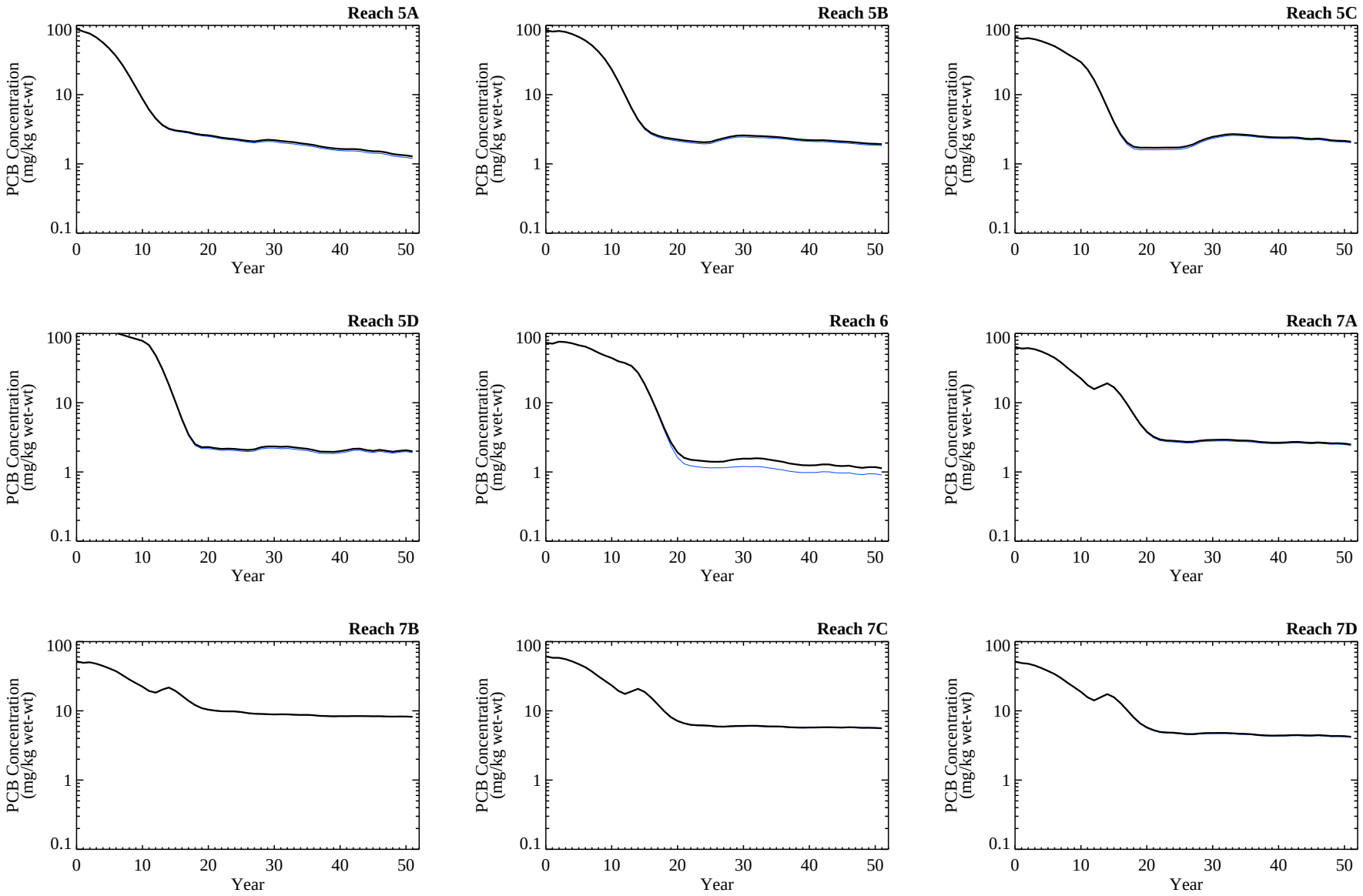

Figure GC19-3c. Average PCB concentration in largemouth bass (whole body) by subreach under SED 4.

Notes: Average calculated for fish ages 5 to 9 from days between Aug. 28th through Oct. 26th of each year
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.

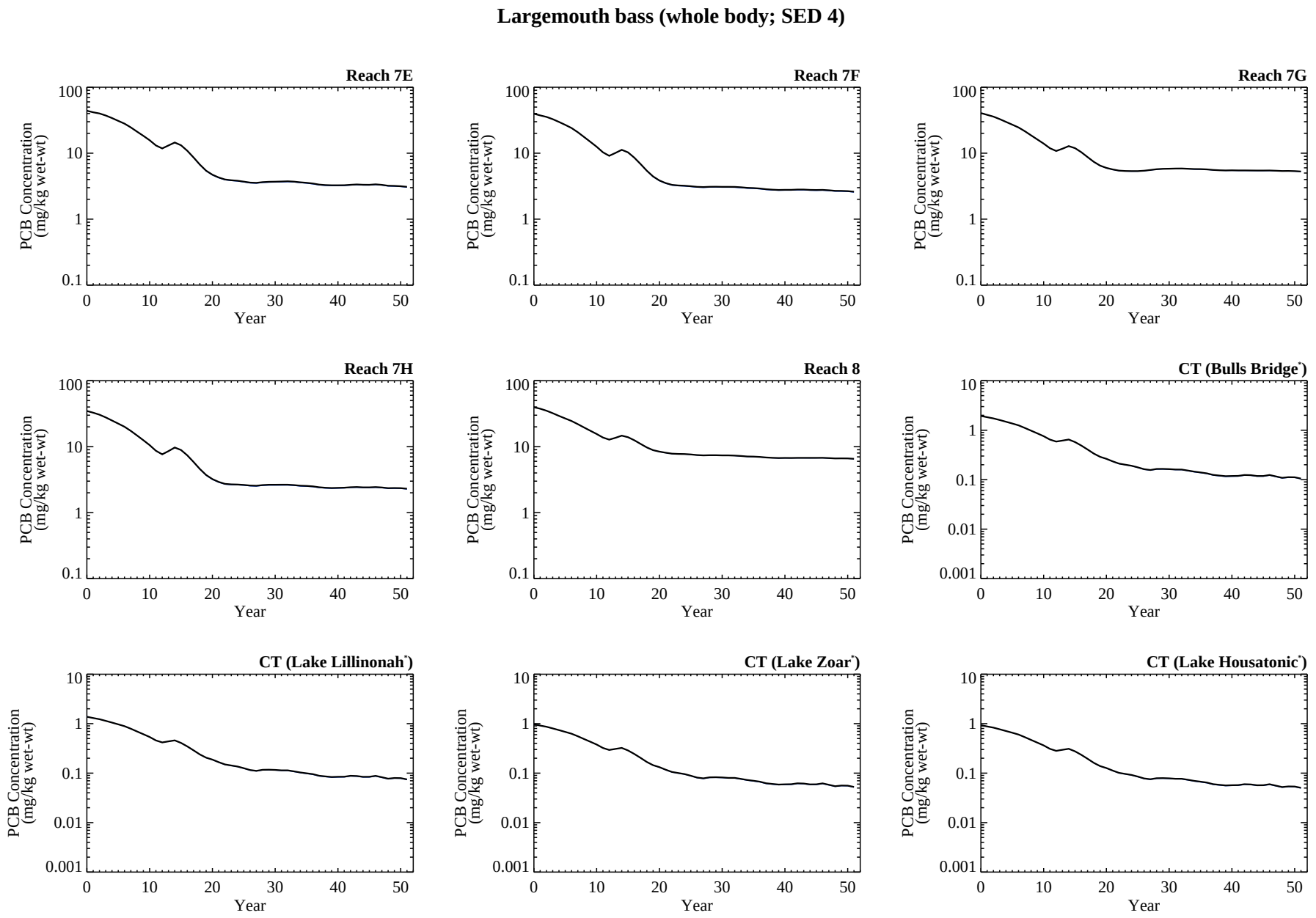

Figure GC19-3c. Average PCB concentration in largemouth bass (whole body) by subreach under SED 4.

Notes: Average calculated for fish ages 5 to 9 from days between Aug. 28th through Oct. 26th of each year
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.

Largemouth bass (whole body; SED 5)

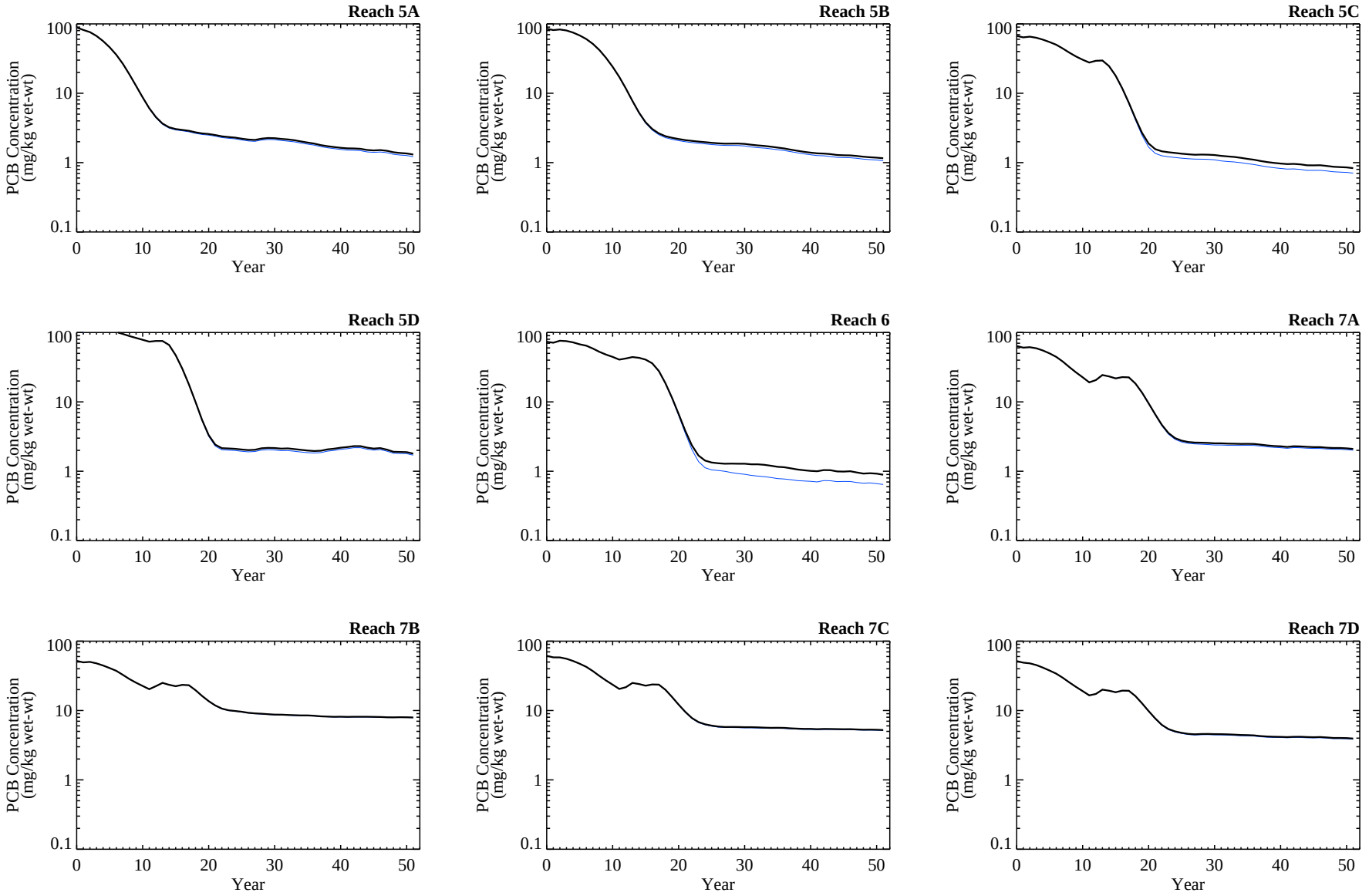

Figure GC19-3d. Average PCB concentration in largemouth bass (whole body) by subreach under SED 5.

Notes: Average calculated for fish ages 5 to 9 from days between Aug. 28th through Oct. 26th of each year
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.

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Thu Feb 12 11:55:11 2009

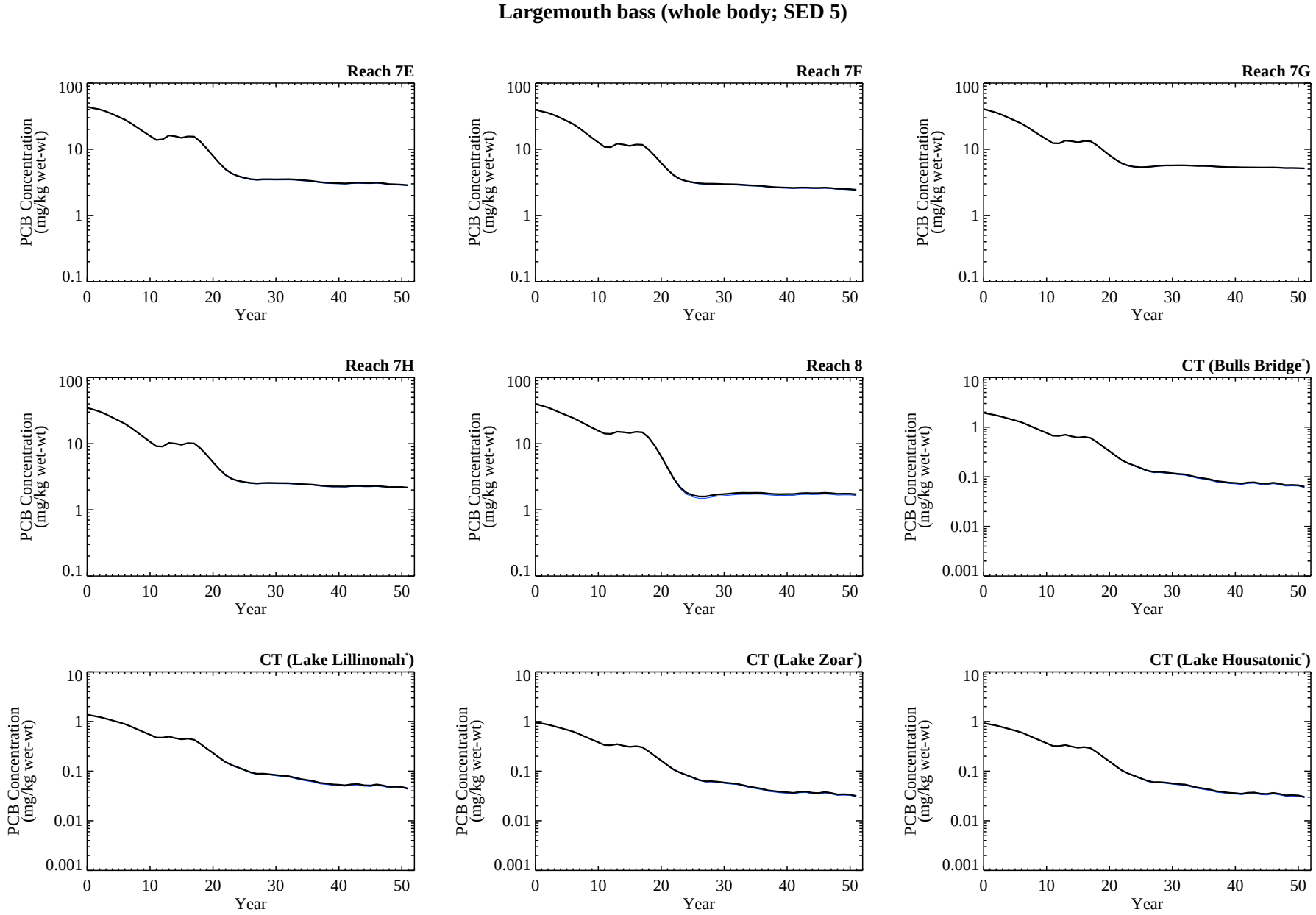

Figure GC19-3d. Average PCB concentration in largemouth bass (whole body) by subreach under SED 5.

Notes: Average calculated for fish ages 5 to 9 from days between Aug. 28th through Oct. 26th of each year
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.

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Thu Feb 12 12:03:41 2009

Largemouth bass (whole body; SED 6)

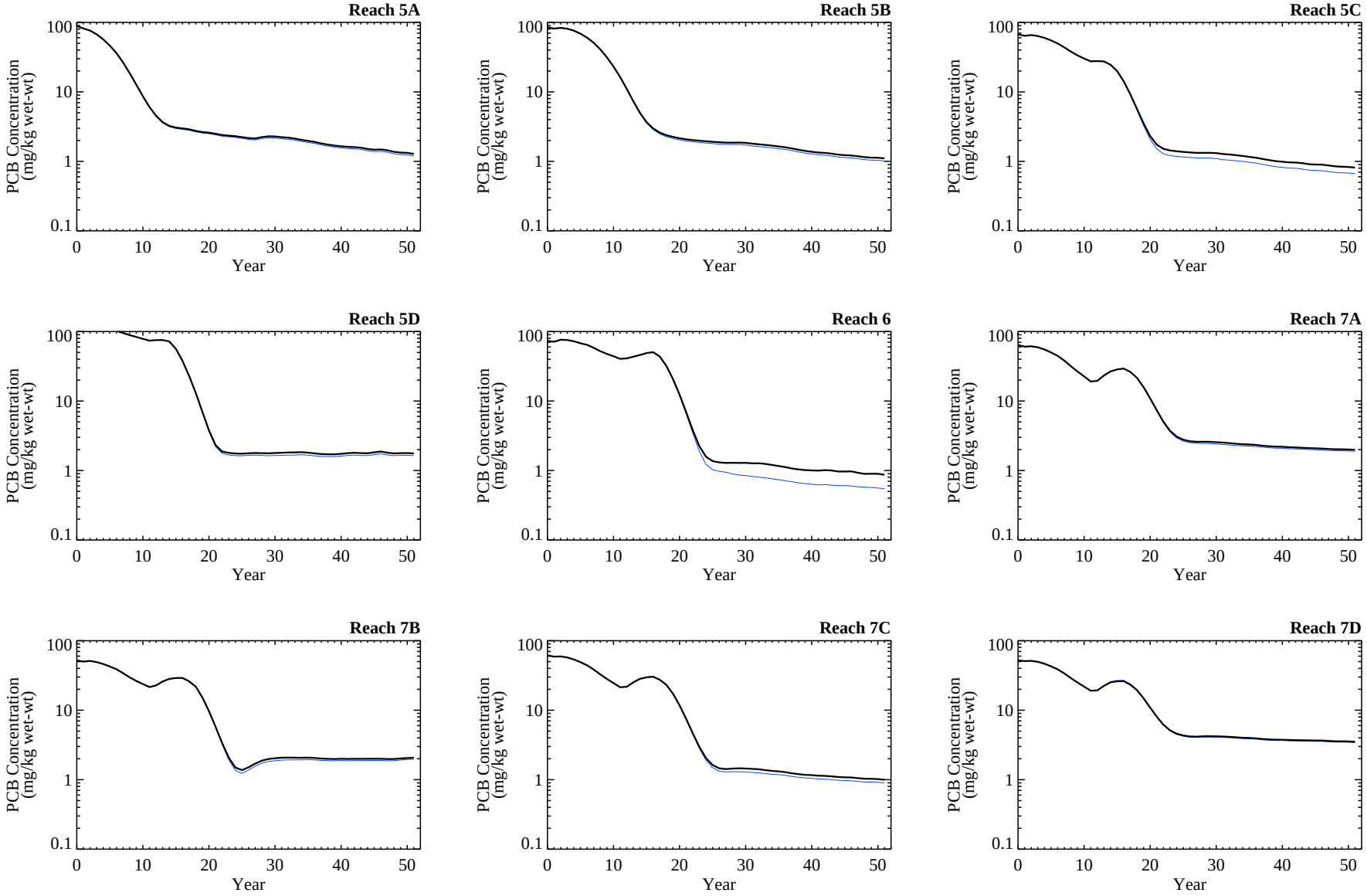

Figure GC19-3e. Average PCB concentration in largemouth bass (whole body) by subreach under SED 6.

Notes: Average calculated for fish ages 5 to 9 from days between Aug. 28th through Oct. 26th of each year
Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis

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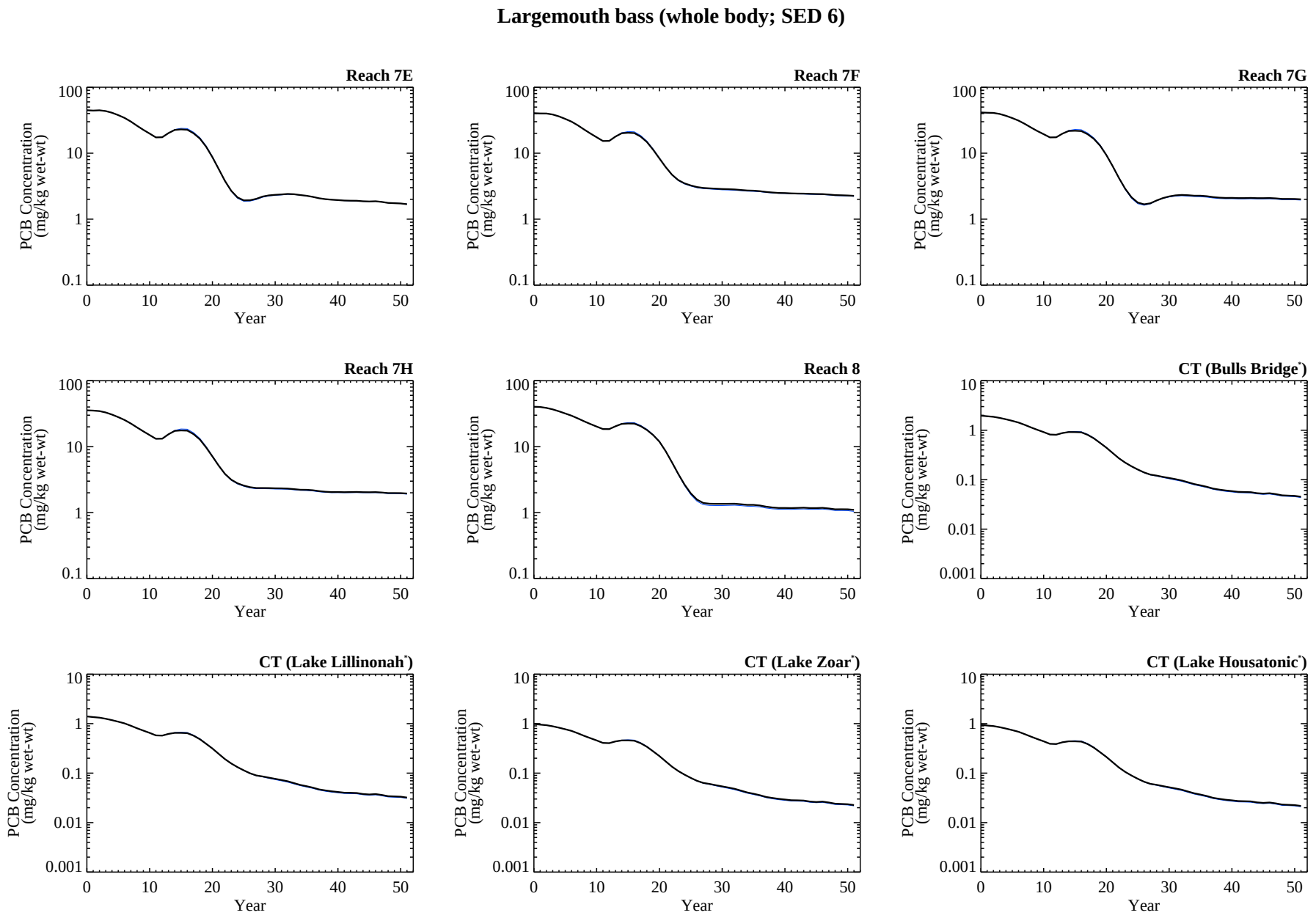

Figure GC19-3e. Average PCB concentration in largemouth bass (whole body) by subreach under SED 6.

Notes: Average calculated for fish ages 5 to 9 from days between Aug. 28th through Oct. 26th of each year
Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis

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Thu Feb 12 15:22:40 2009

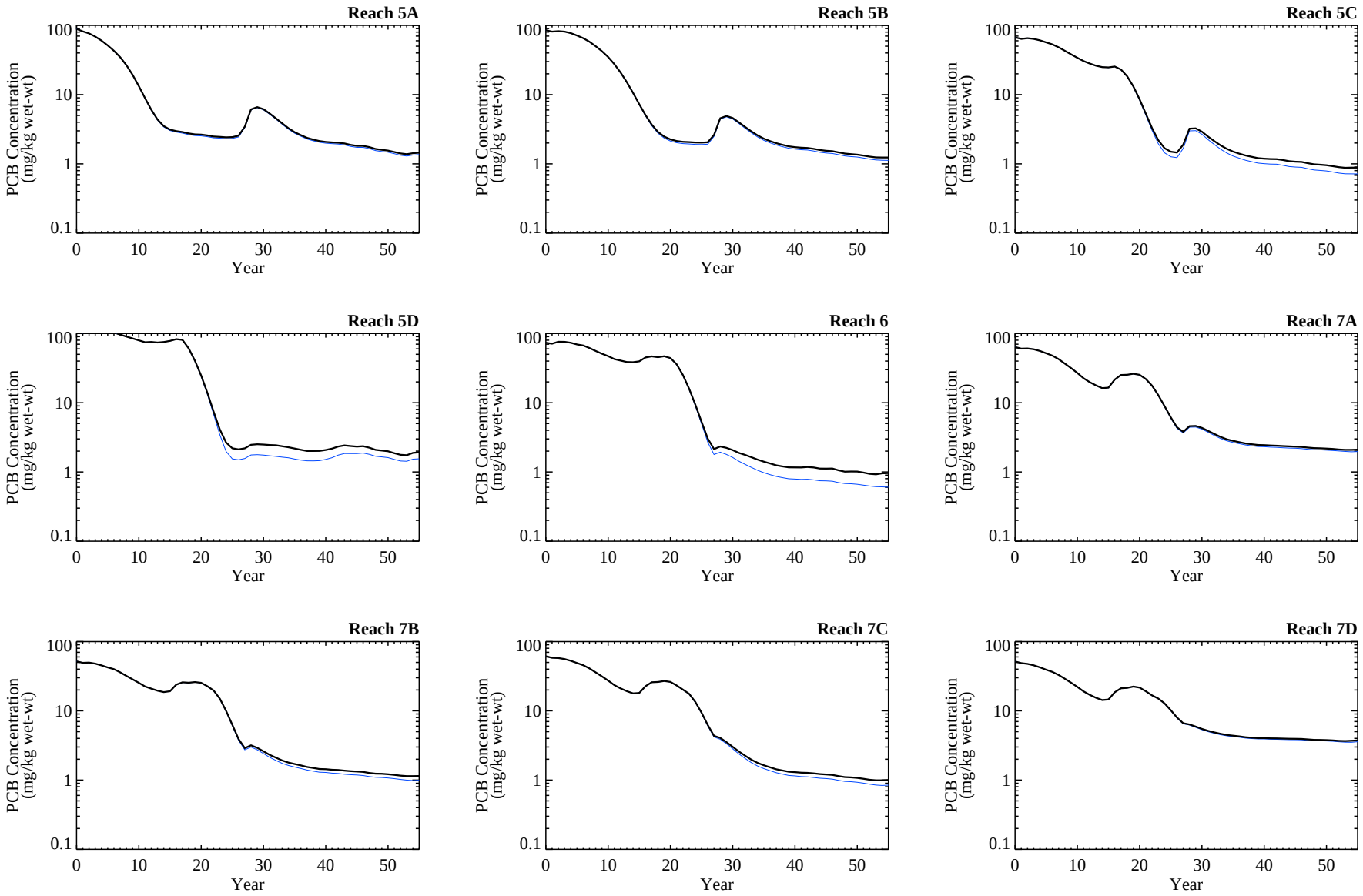

Figure GC19-3f. Average PCB concentration in largemouth bass (whole body) by subreach under SED 7.

Notes: Average calculated for fish ages 5 to 9 from days between Aug. 28th through Oct. 26th of each year
Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis

Base Case
Lower Bound

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Thu Feb 12 15:42:46 2009

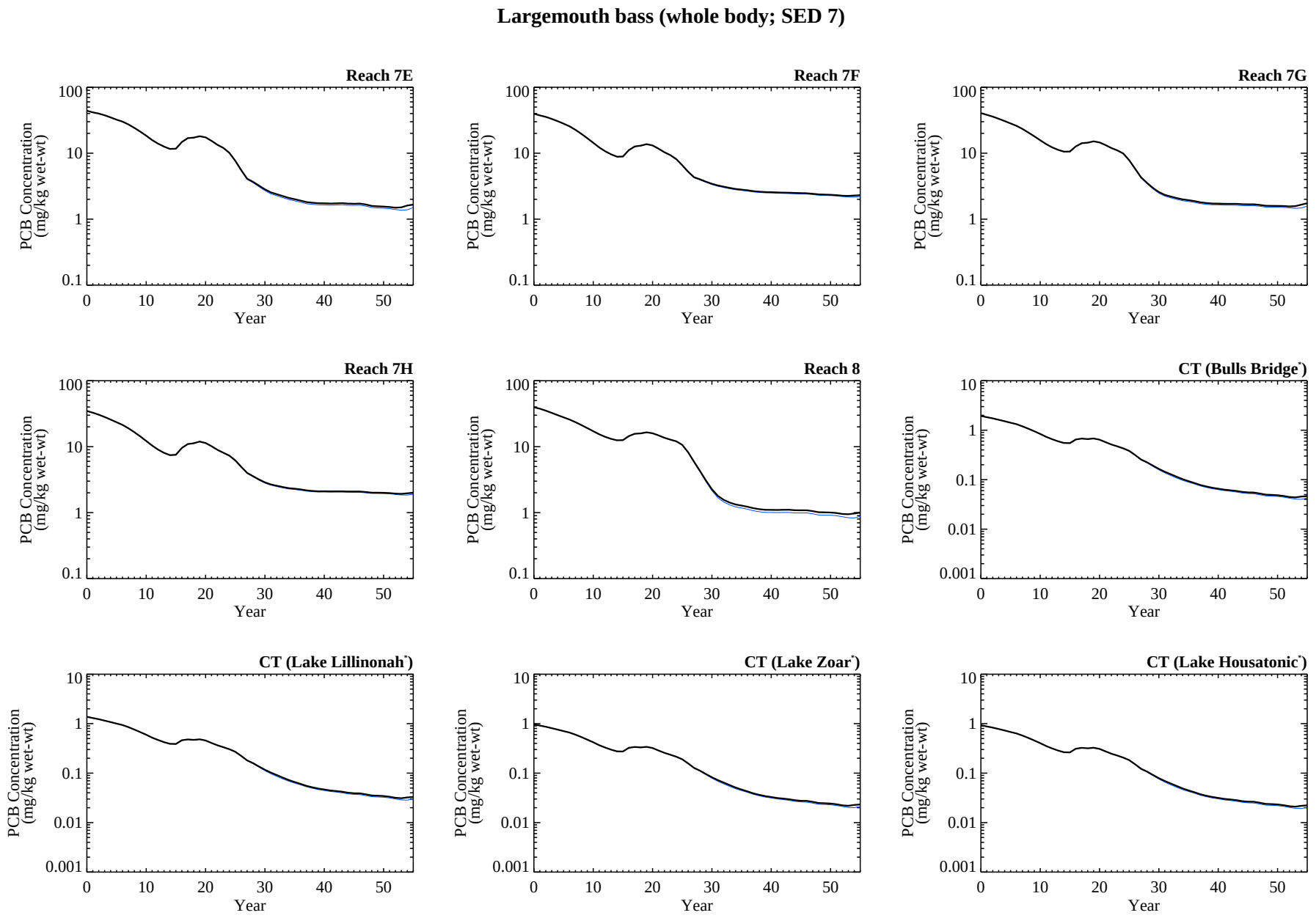

Figure GC19-3f. Average PCB concentration in largemouth bass (whole body) by subreach under SED 7.

Notes: Average calculated for fish ages 5 to 9 from days between Aug. 28th through Oct. 26th of each year
Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis

Largemouth bass (whole body; SED 8)

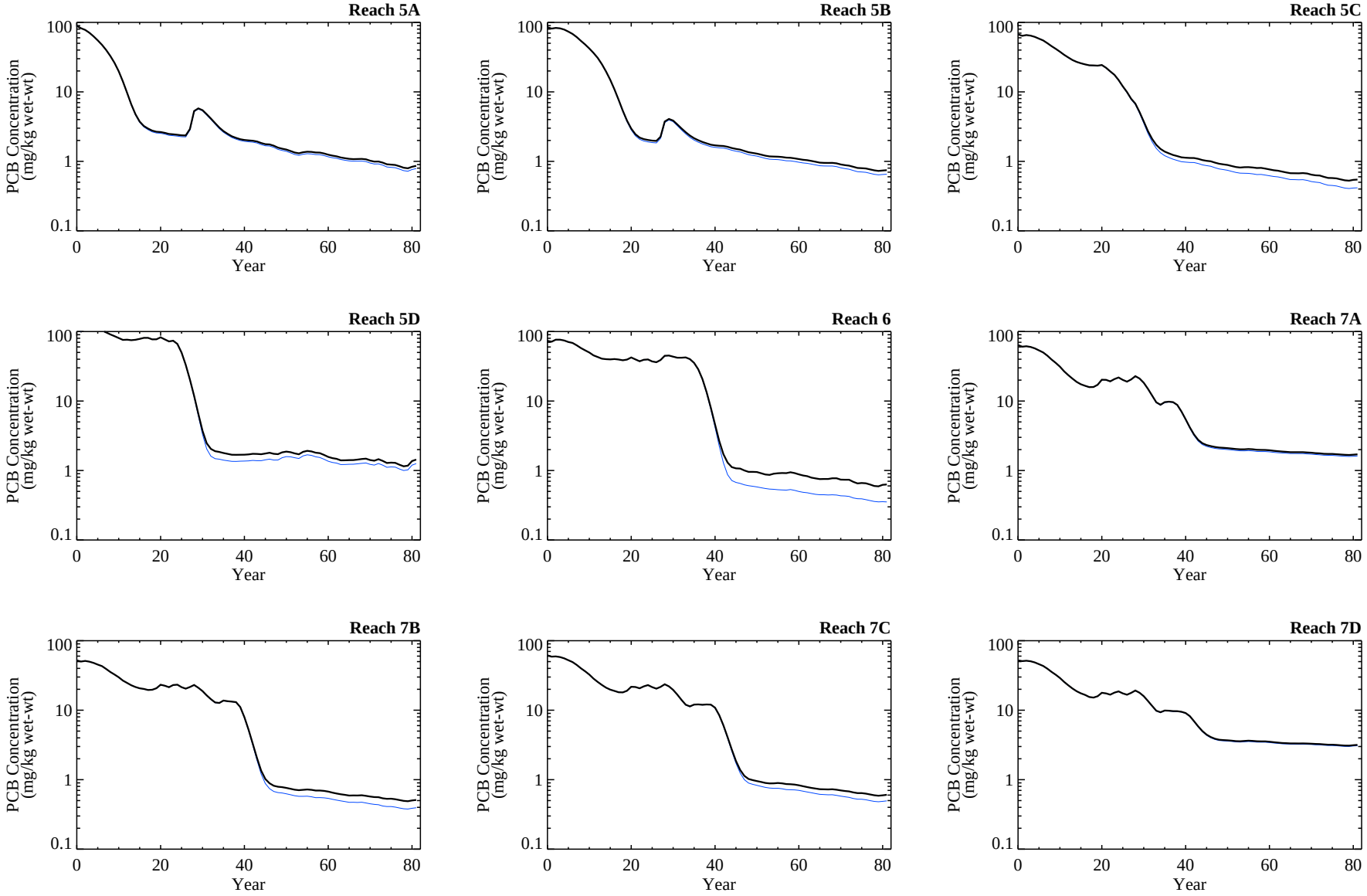

Figure GC19-3g. Average PCB concentration in largemouth bass (whole body) by subreach under SED 8.

Notes: Average calculated for fish ages 5 to 9 from days between Aug. 28th through Oct. 26th of each year
Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis

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Thu Feb 12 16:13:35 2009

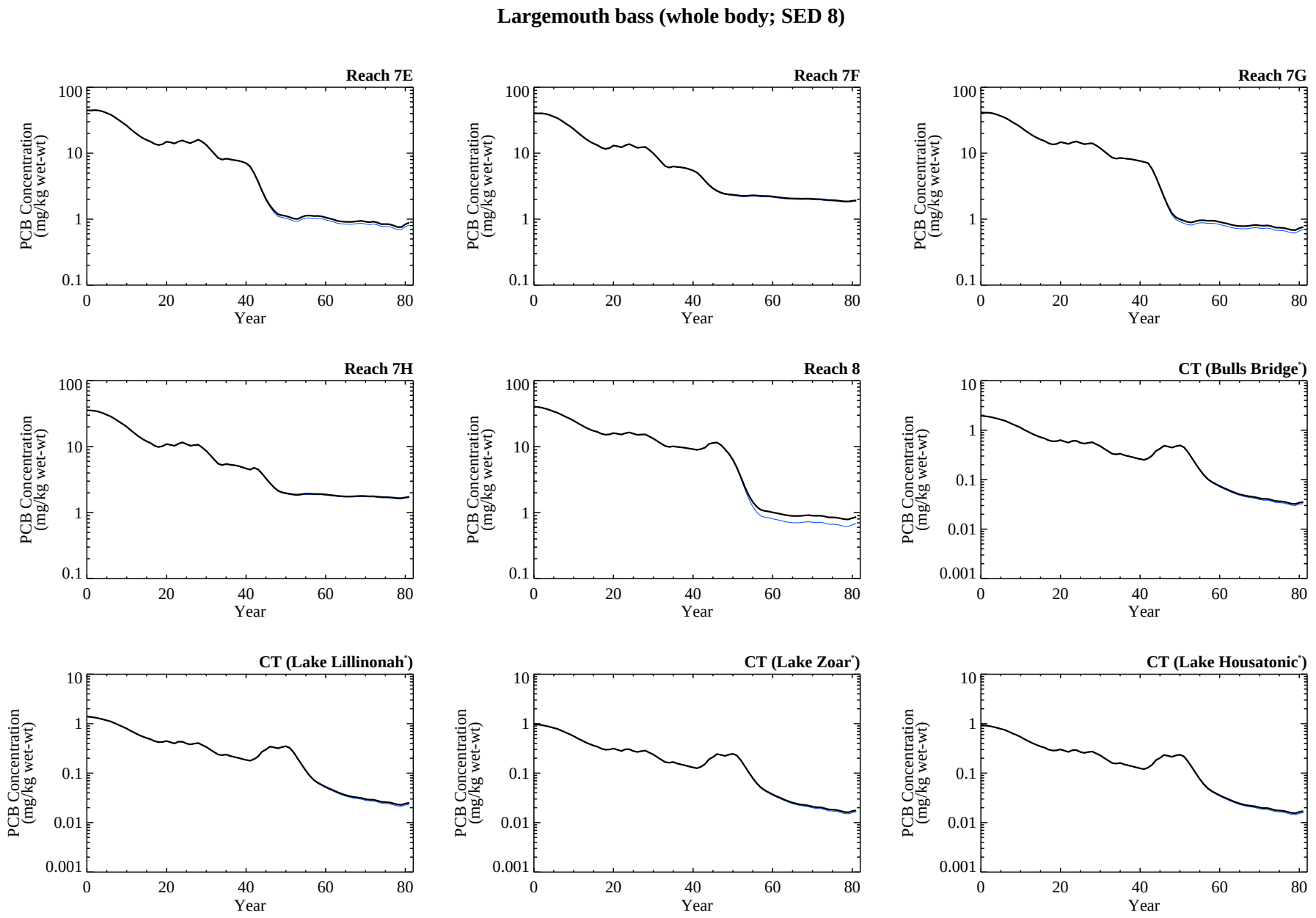

Figure GC19-3g. Average PCB concentration in largemouth bass (whole body) by subreach under SED 8.

Notes: Average calculated for fish ages 5 to 9 from days between Aug. 28th through Oct. 26th of each year
Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis

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Thu Feb 12 16:24:50 2009

Largemouth bass (fillets; SED 1 / SED2)

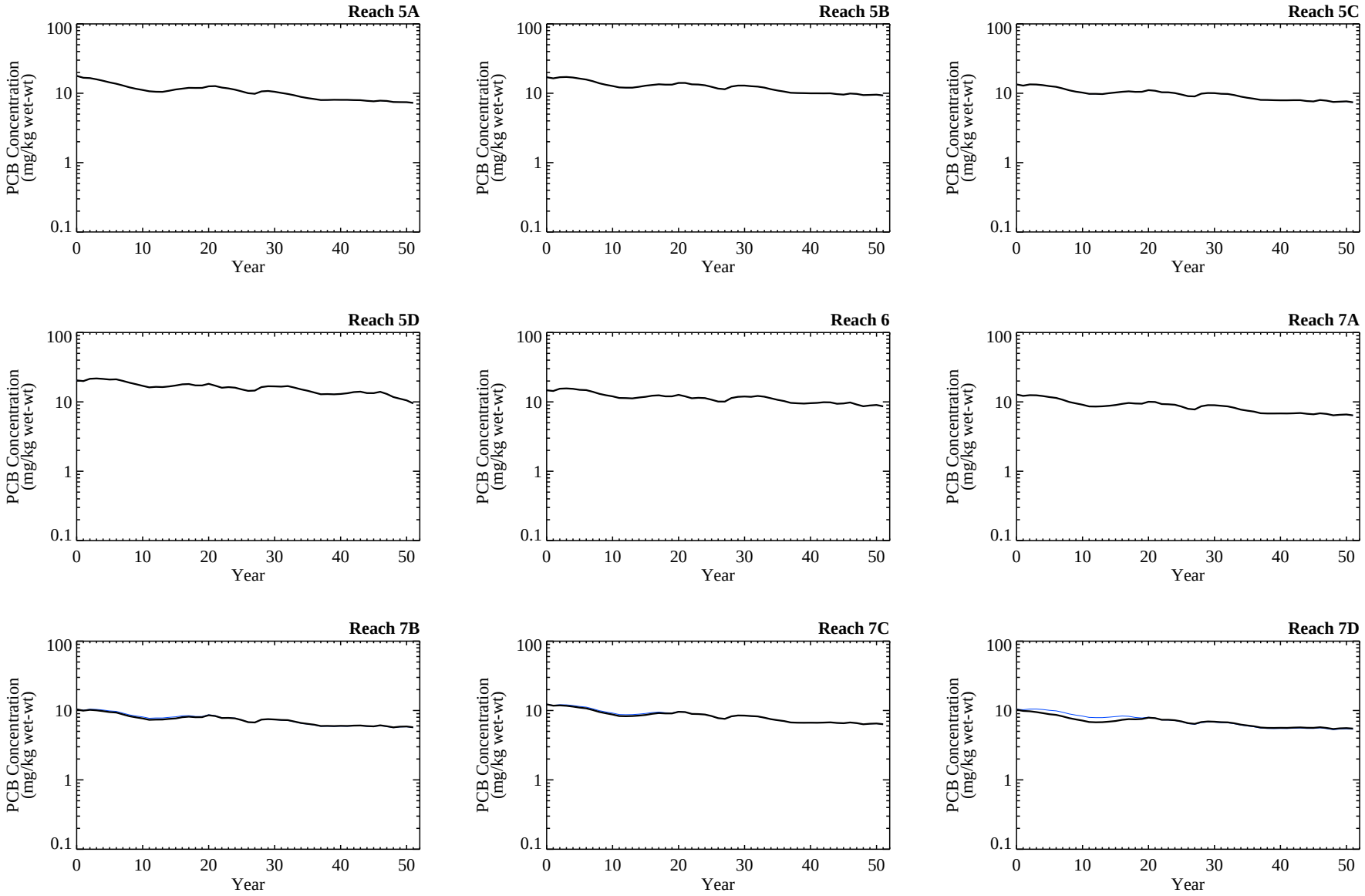

Figure GC19-4a. Average PCB concentration in largemouth bass (fillets) by subreach under SED 1 / SED2.

Notes: Average calculated for fish ages 5 to 9 from days between Aug. 28th through Oct. 26th of each year
Fillet based concentrations were calculated as whole body concentrations divided by 5.0
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis

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Thu Feb 12 10:03:12 2009

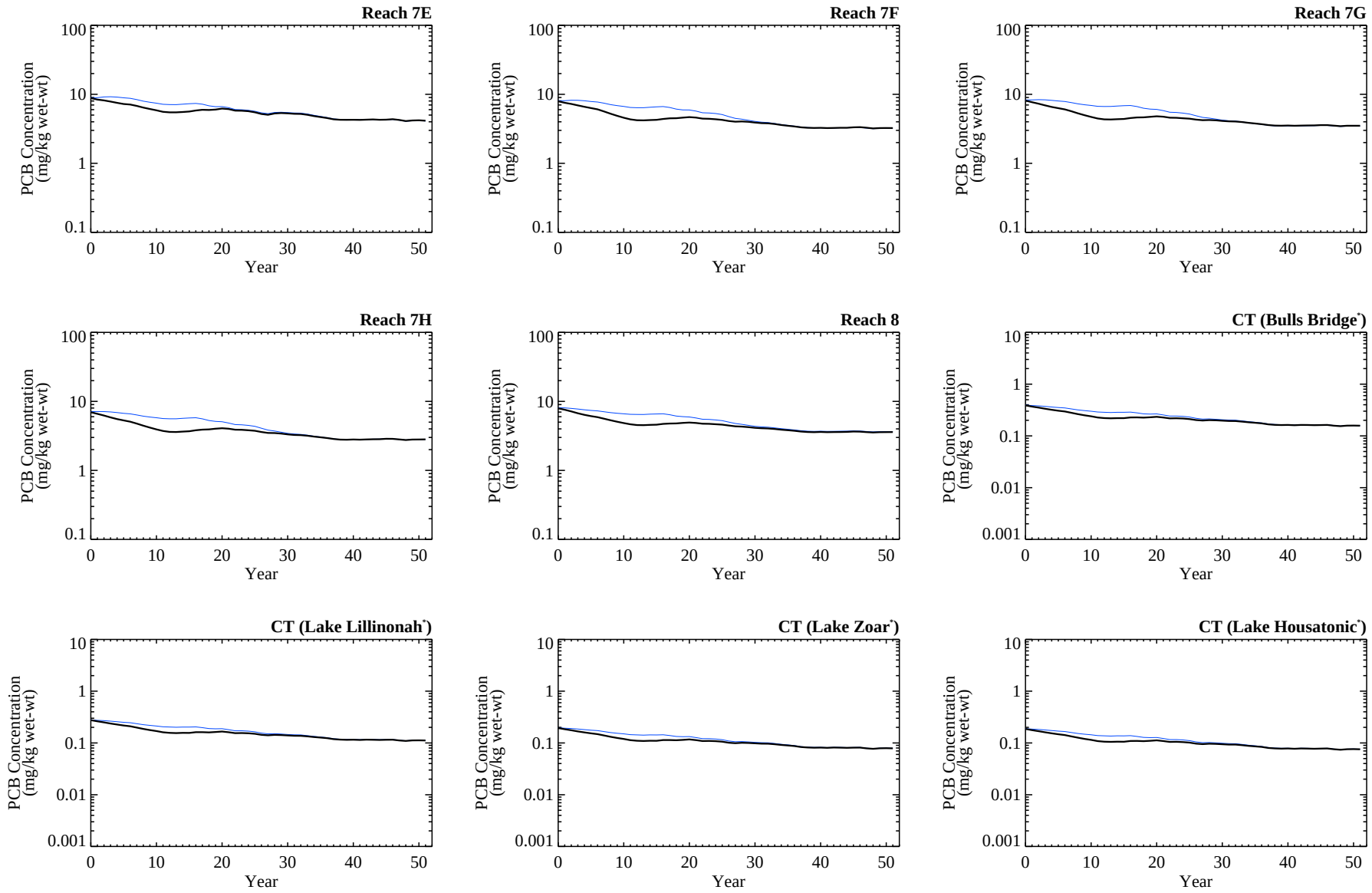

Figure GC19-4a. Average PCB concentration in largemouth bass (fillets) by subreach under SED 1 / SED2.

Notes: Average calculated for fish ages 5 to 9 from days between Aug. 28th through Oct. 26th of each year
Fillet based concentrations were calculated as whole body concentrations divided by 5.0
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis

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Thu Feb 12 10:13:51 2009

Largemouth bass (fillets; SED 3)

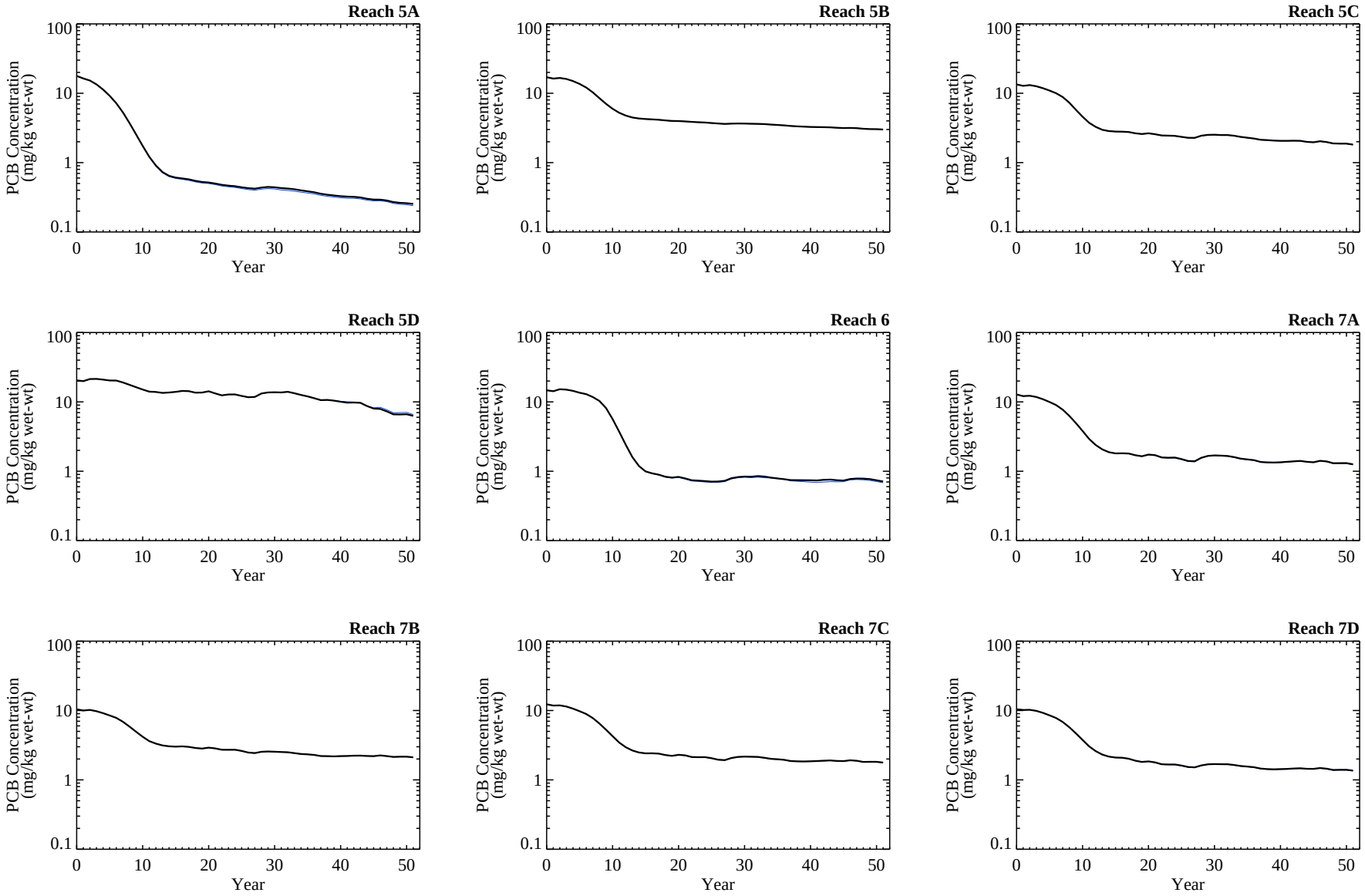

Figure GC19-4b. Average PCB concentration in largemouth bass (fillets) by subreach under SED 3.

Notes: Average calculated for fish ages 5 to 9 from days between Aug. 28th through Oct. 26th of each year
Fillet based concentrations were calculated as whole body concentrations divided by 5.0
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis

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Thu Feb 12 10:46:48 2009

Largemouth bass (fillets; SED 3)

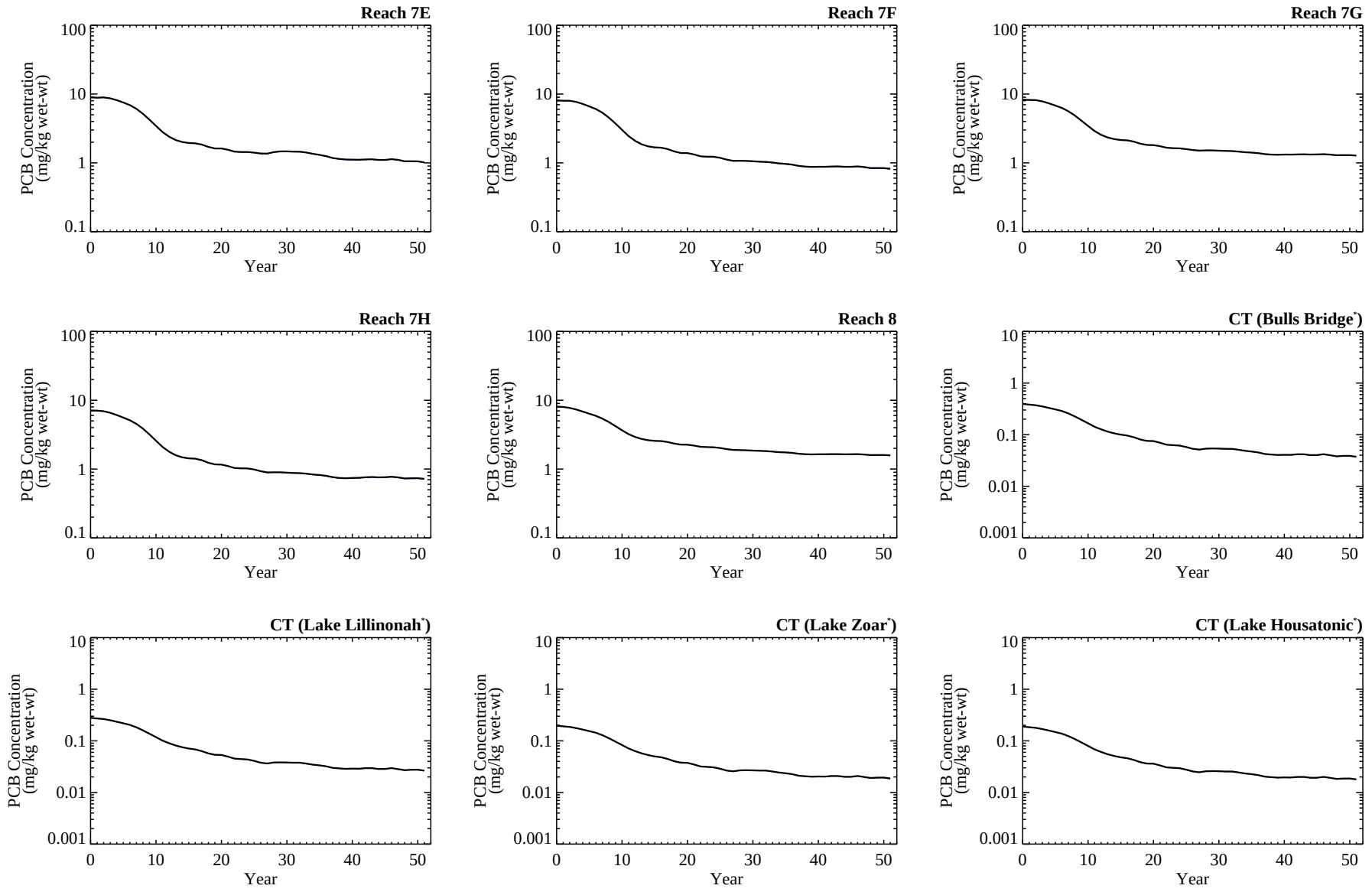

Figure GC19-4b. Average PCB concentration in largemouth bass (fillets) by subreach under SED 3.

Notes: Average calculated for fish ages 5 to 9 from days between Aug. 28th through Oct. 26th of each year
Fillet based concentrations were calculated as whole body concentrations divided by 5.0
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis

Largemouth bass (fillets; SED 4)

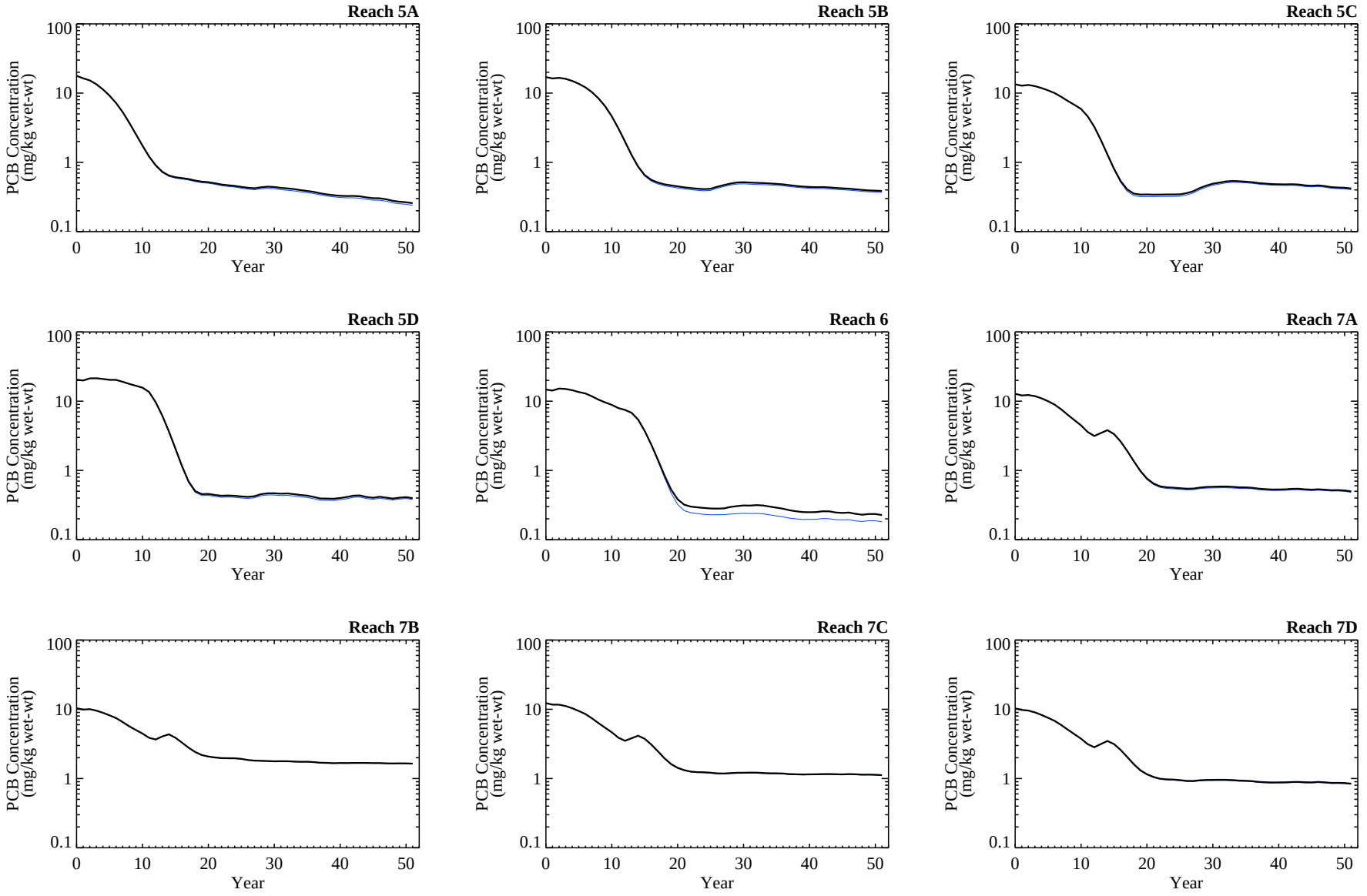

Figure GC19-4c. Average PCB concentration in largemouth bass (fillets) by subreach under SED 4.

Notes: Average calculated for fish ages 5 to 9 from days between Aug. 28th through Oct. 26th of each year
Fillet based concentrations were calculated as whole body concentrations divided by 5.0
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis

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Thu Feb 12 11:37:12 2009

Largemouth bass (fillets; SED 4)

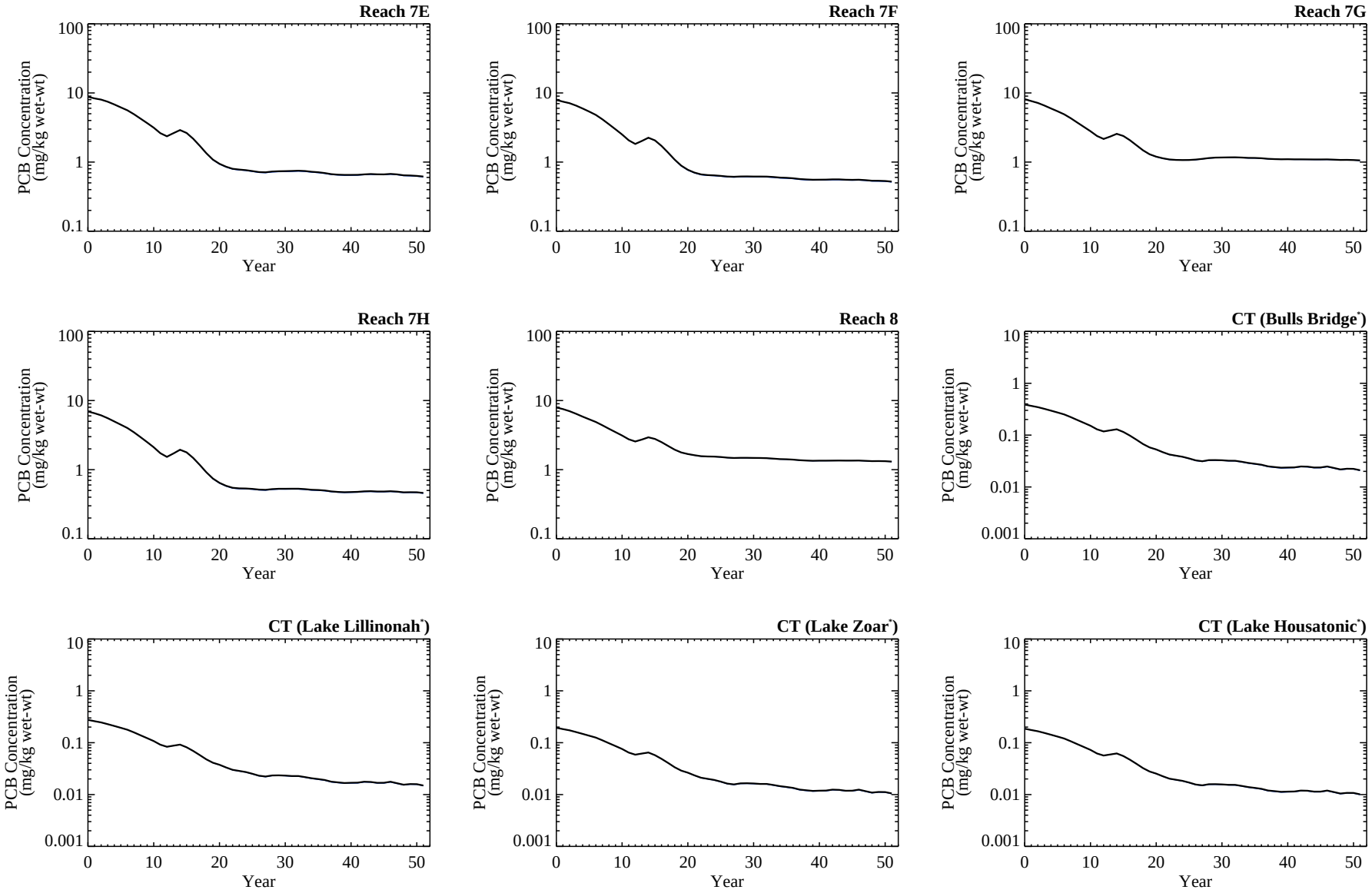

Figure GC19-4c. Average PCB concentration in largemouth bass (fillets) by subreach under SED 4.

Notes: Average calculated for fish ages 5 to 9 from days between Aug. 28th through Oct. 26th of each year
Fillet based concentrations were calculated as whole body concentrations divided by 5.0
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis

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Thu Feb 12 11:48:19 2009

Largemouth bass (fillets; SED 5)

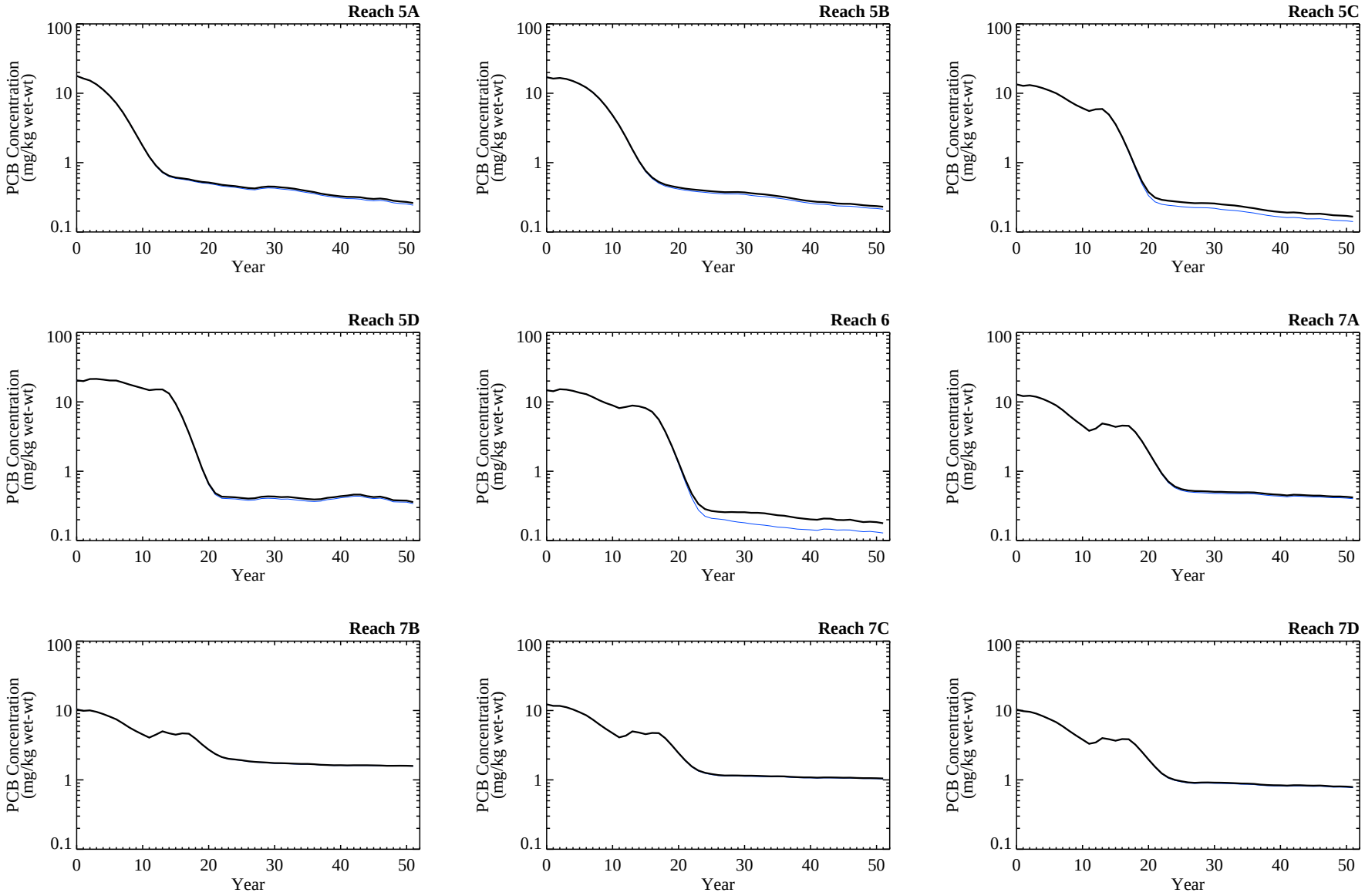

Figure GC19-4d. Average PCB concentration in largemouth bass (fillets) by subreach under SED 5.

Notes: Average calculated for fish ages 5 to 9 from days between Aug. 28th through Oct. 26th of each year
Fillet based concentrations were calculated as whole body concentrations divided by 5.0
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis

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Thu Feb 12 12:12:55 2009

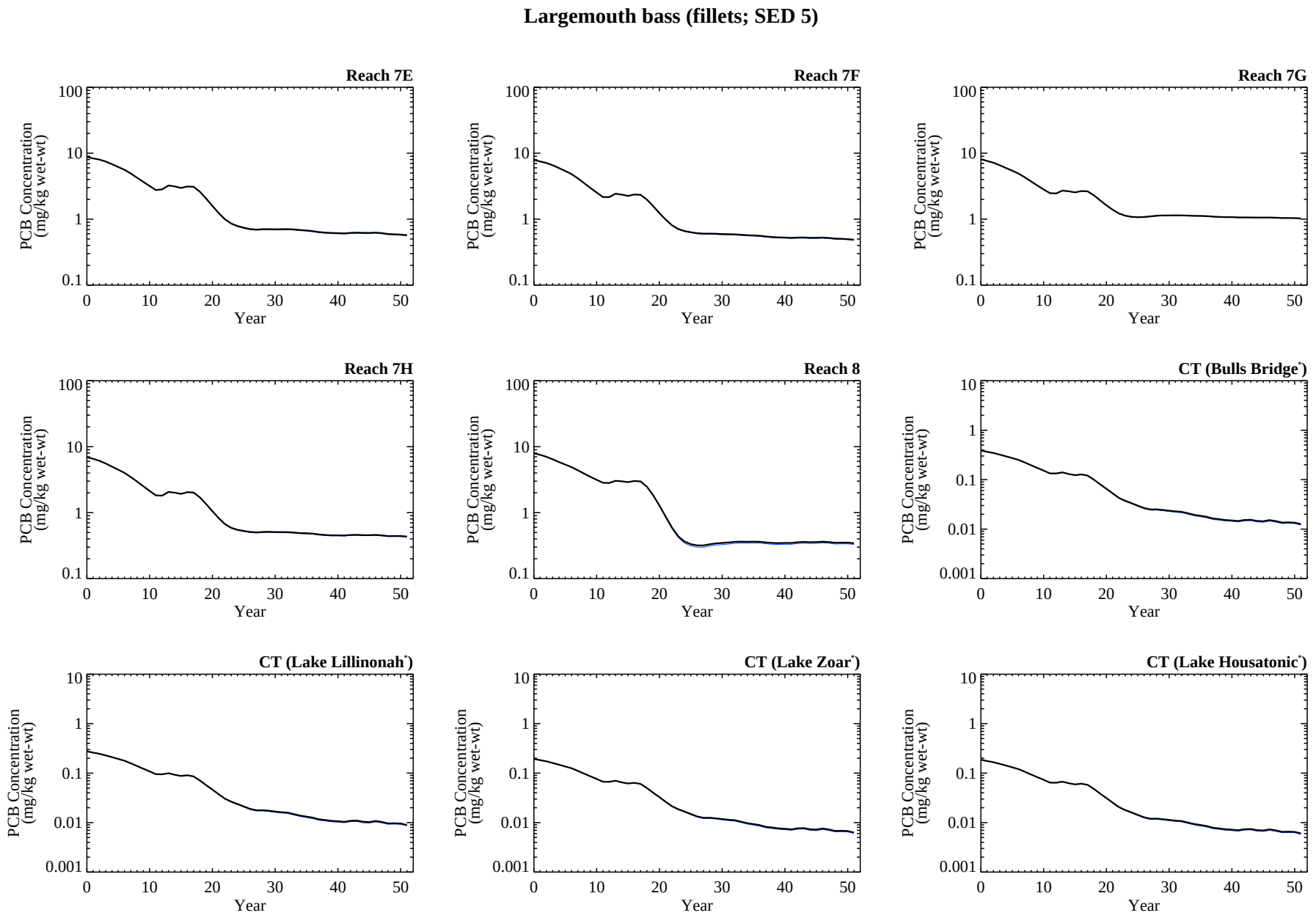

Figure GC19-4d. Average PCB concentration in largemouth bass (fillets) by subreach under SED 5.

Notes: Average calculated for fish ages 5 to 9 from days between Aug. 28th through Oct. 26th of each year
Fillet based concentrations were calculated as whole body concentrations divided by 5.0
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis

Largemouth bass (fillets; SED 6)

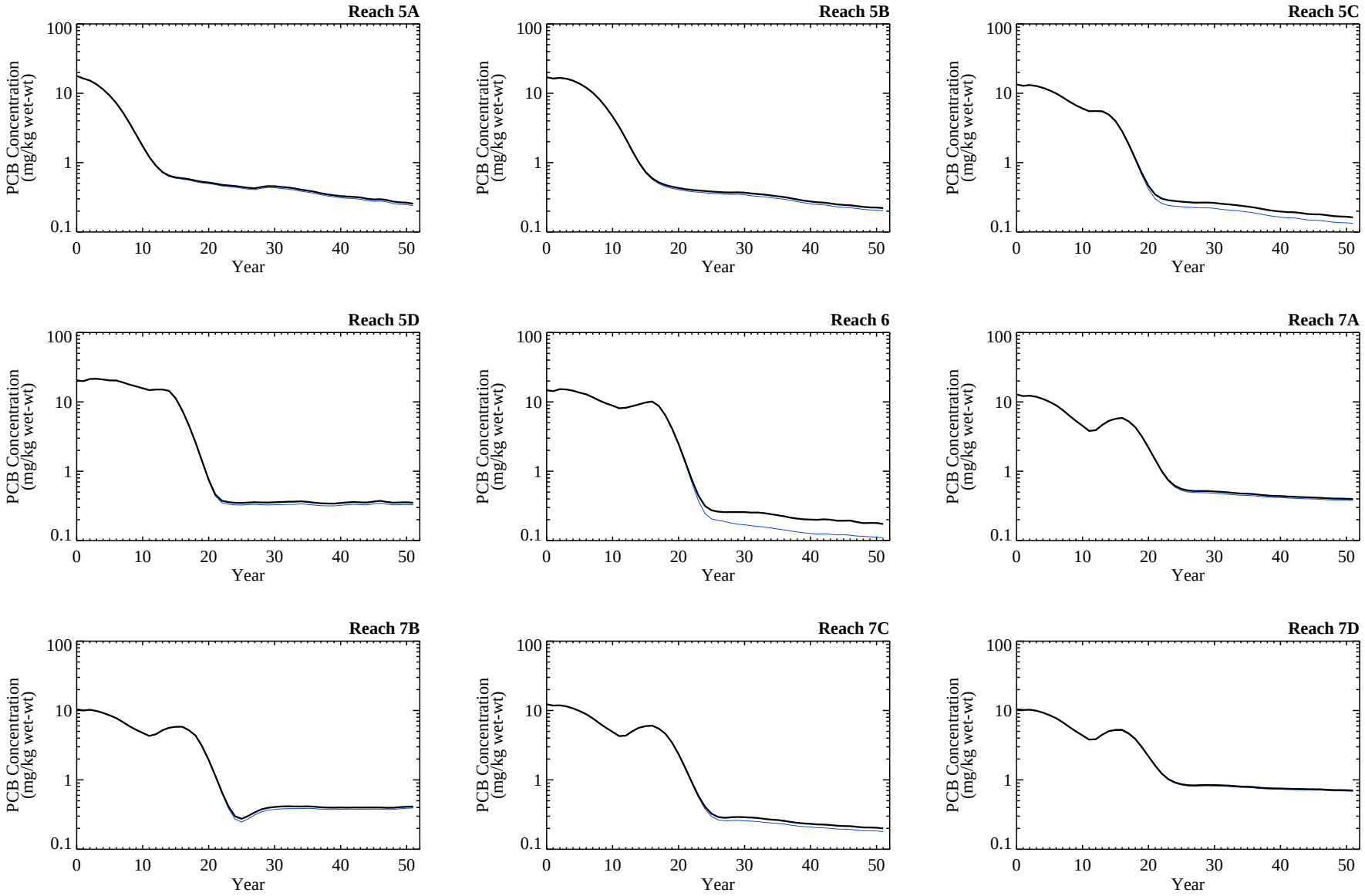

Figure GC19-4e. Average PCB concentration in largemouth bass (fillets) by subreach under SED 6.

Notes: Average calculated for fish ages 5 to 9 from days between Aug. 28th through Oct. 26th of each year
Fillet based concentrations were calculated as whole body concentrations divided by 5.0
Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis

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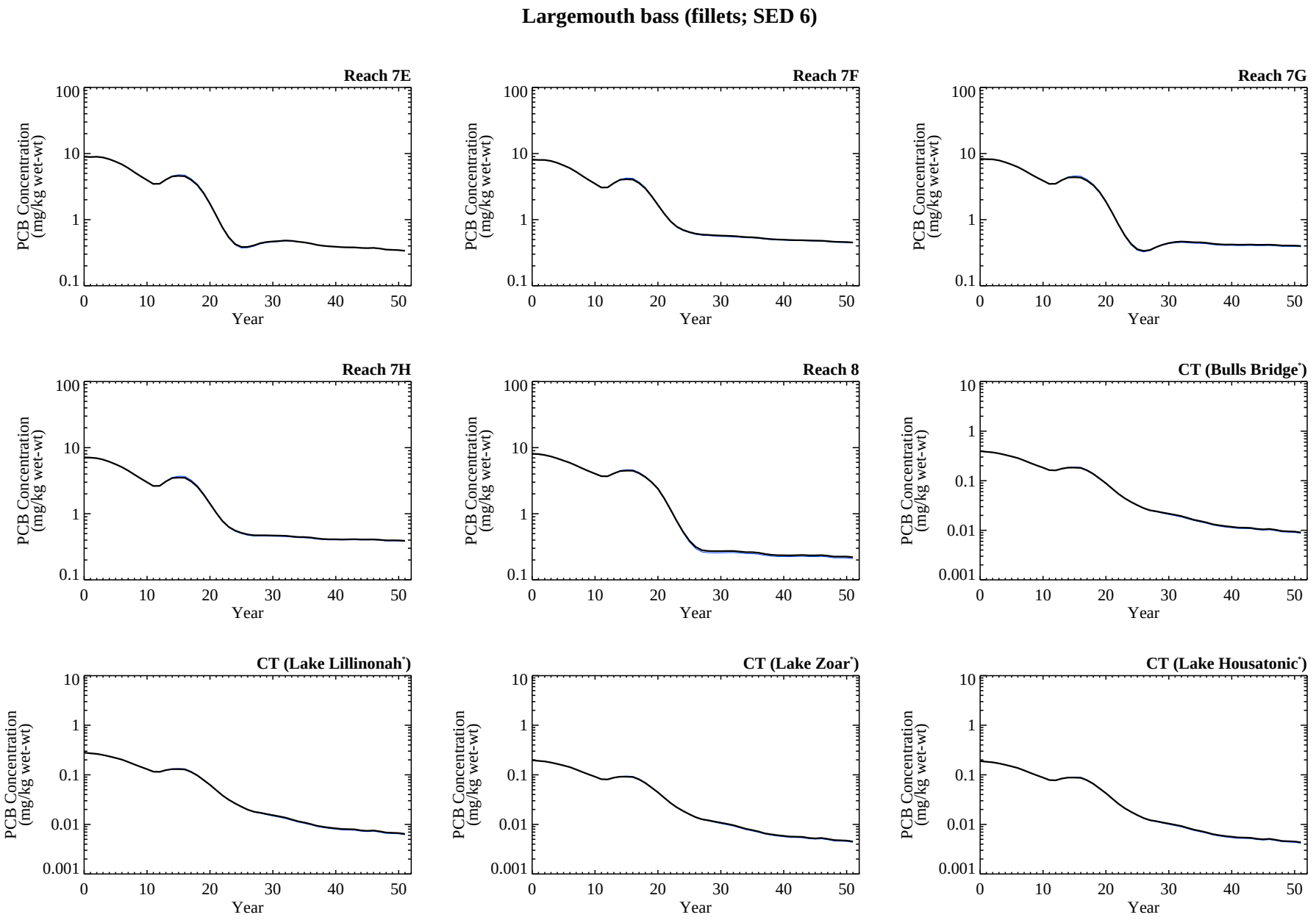

Figure GC19-4e. Average PCB concentration in largemouth bass (fillets) by subreach under SED 6.

Notes: Average calculated for fish ages 5 to 9 from days between Aug. 28th through Oct. 26th of each year
Fillet based concentrations were calculated as whole body concentrations divided by 5.0
Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis

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Thu Feb 12 15:36:07 2009

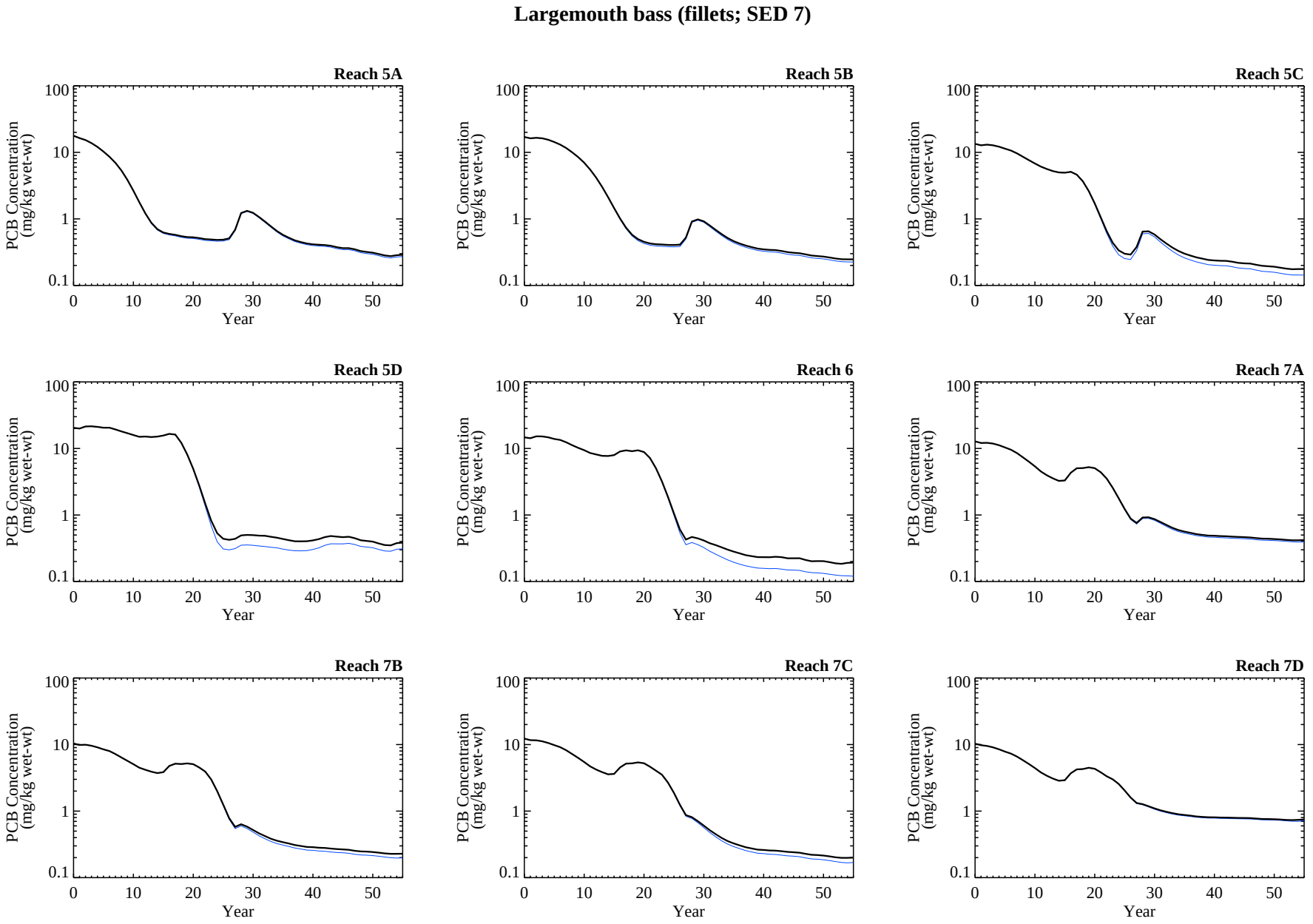

Figure GC19-4f. Average PCB concentration in largemouth bass (fillets) by subreach under SED 7.

Notes: Average calculated for fish ages 5 to 9 from days between Aug. 28th through Oct. 26th of each year
Fillet based concentrations were calculated as whole body concentrations divided by 5.0
Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis

Base Case
Lower Bound

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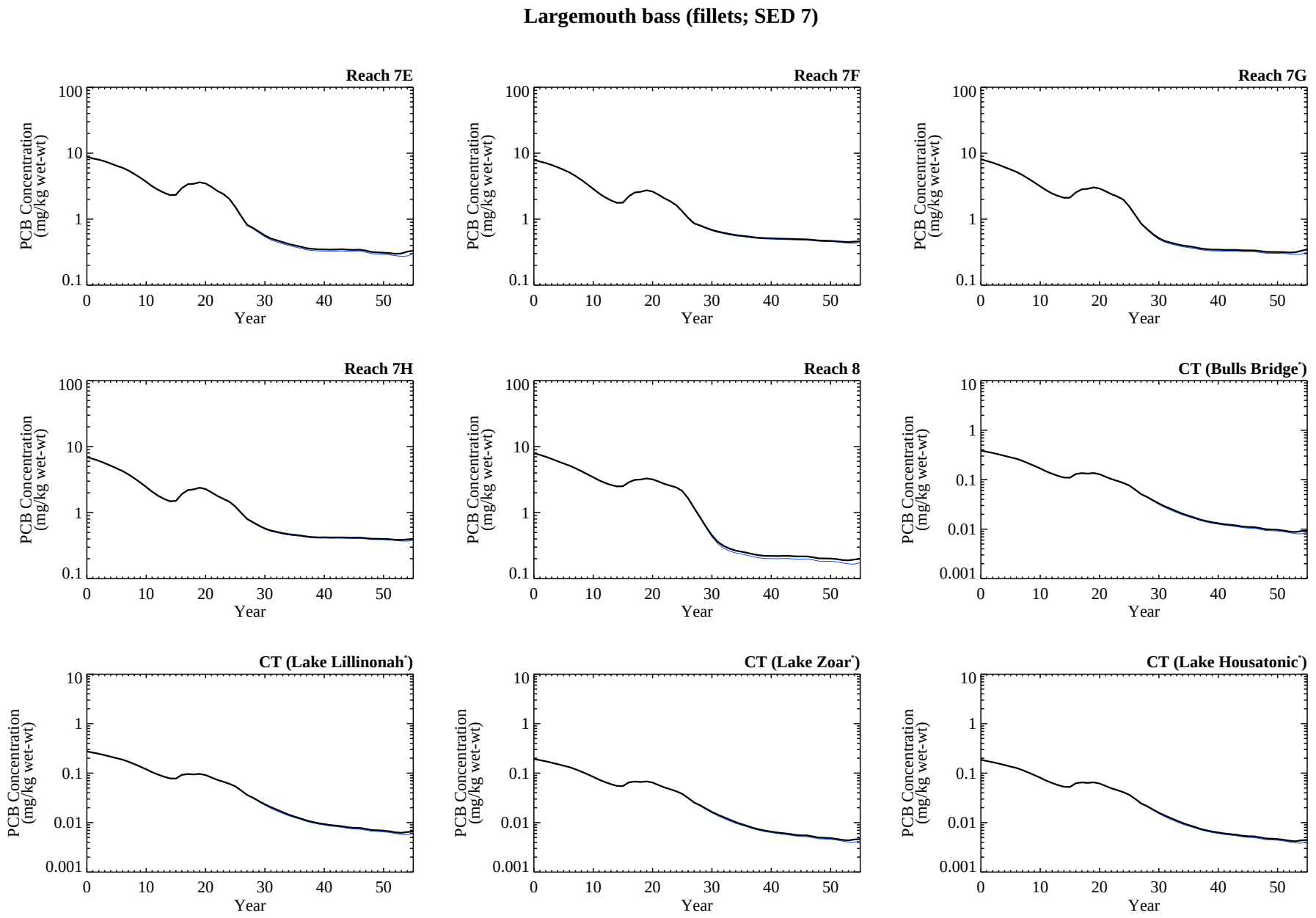

Figure GC19-4f. Average PCB concentration in largemouth bass (fillets) by subreach under SED 7.

Notes: Average calculated for fish ages 5 to 9 from days between Aug. 28th through Oct. 26th of each year
Fillet based concentrations were calculated as whole body concentrations divided by 5.0
Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis

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Thu Feb 12 16:04:10 2009

Largemouth bass (fillets; SED 8)

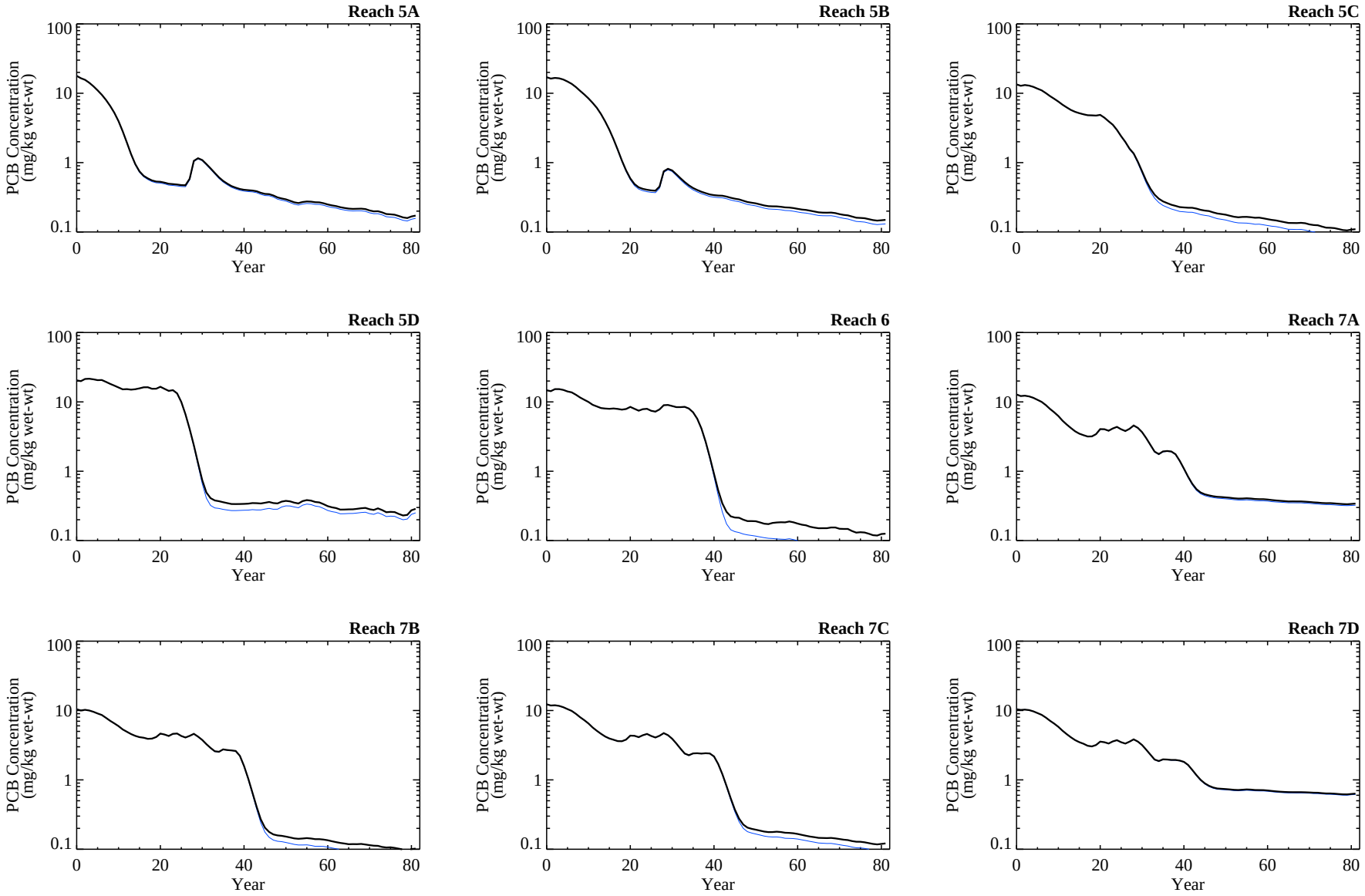

Figure GC19-4g. Average PCB concentration in largemouth bass (fillets) by subreach under SED 8.

Notes: Average calculated for fish ages 5 to 9 from days between Aug. 28th through Oct. 26th of each year
Fillet based concentrations were calculated as whole body concentrations divided by 5.0
Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis

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Thu Feb 12 16:35:23 2009

Largemouth bass (fillets; SED 8)

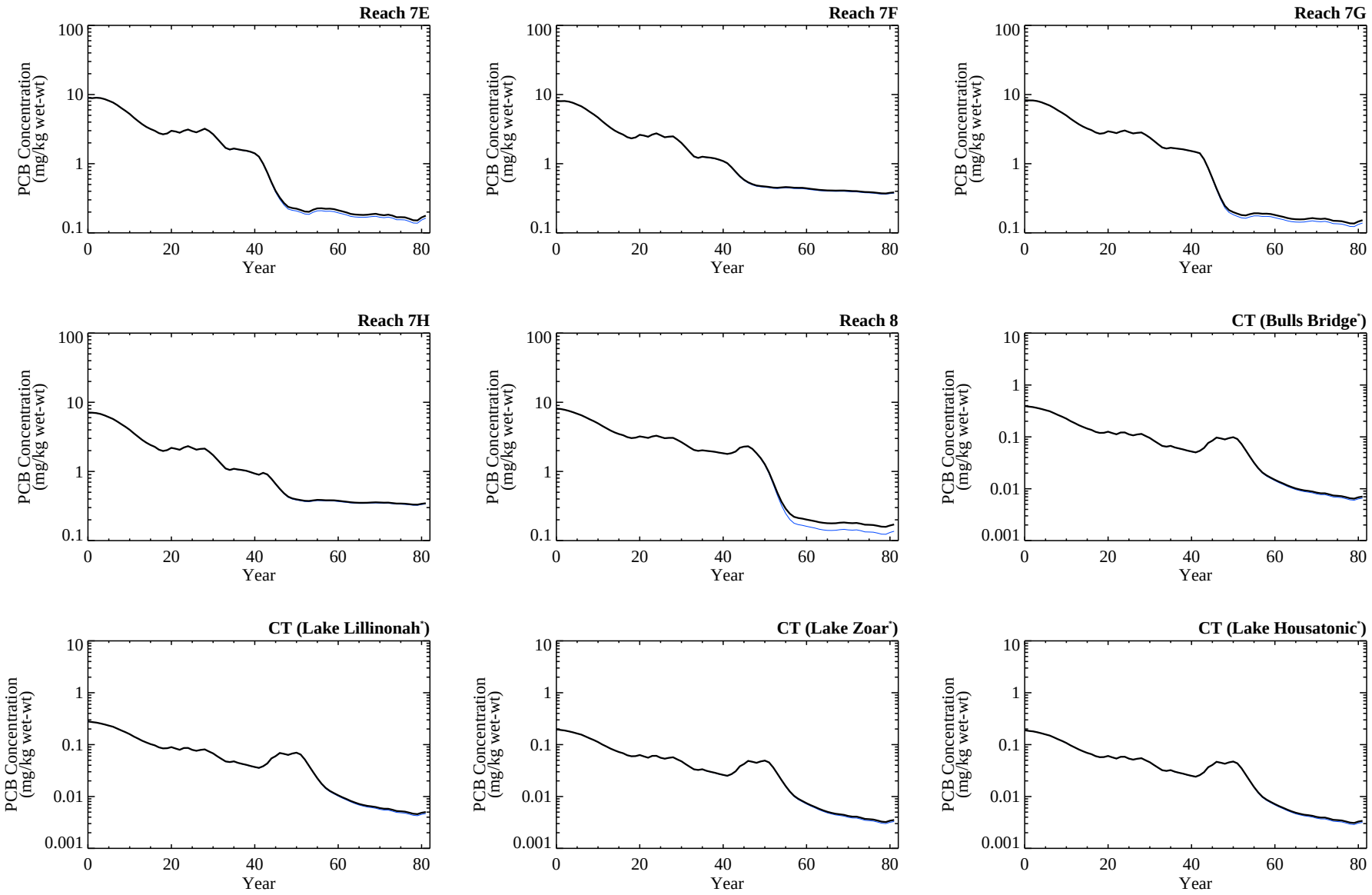

Figure GC19-4g. Average PCB concentration in largemouth bass (fillets) by subreach under SED 8.

Notes: Average calculated for fish ages 5 to 9 from days between Aug. 28th through Oct. 26th of each year
Fillet based concentrations were calculated as whole body concentrations divided by 5.0
Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis

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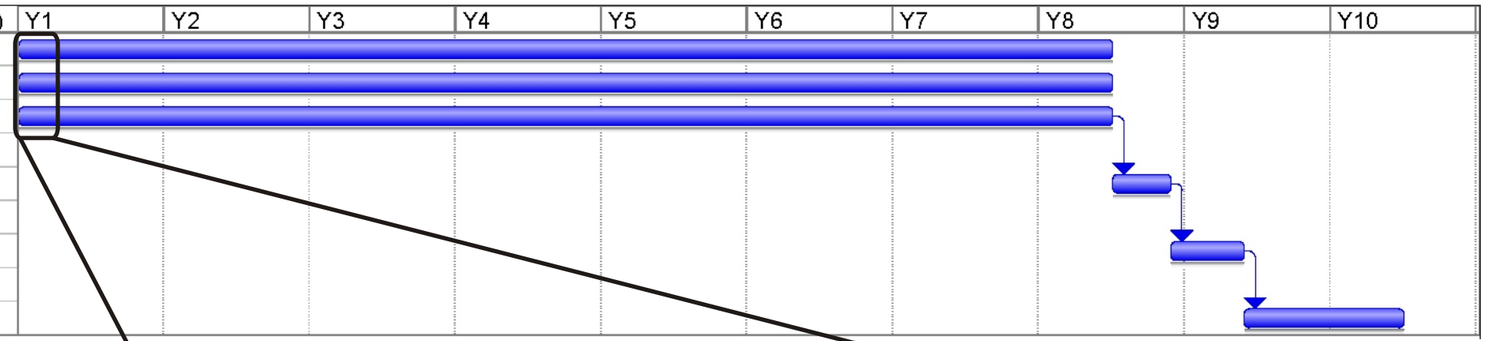
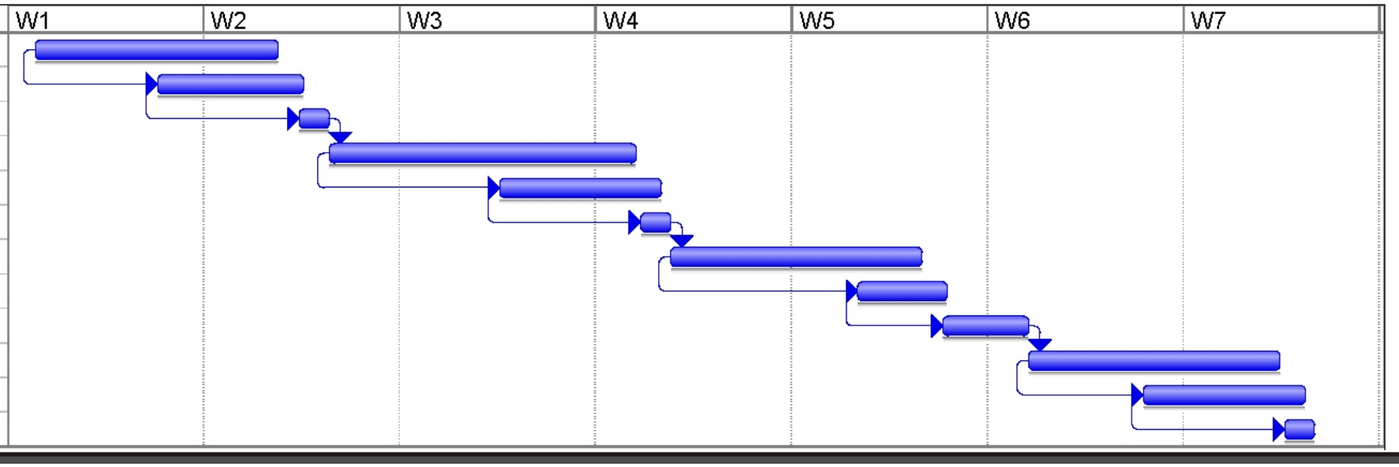
Thu Feb 12 16:46:21 2009

Task Name	Duration (years)
5A - Excavation	7.5
5A - Backfill	7.5
5A - Bank Stabilization/Restoration	7.5
5B - Bank Stabilization/Restoration	0.4
5C (lower) - TLC/Restoration	0.5
6 - TLC/Restoration	1.1



Task Name	Duration (days)
Excavation (Cell 1)	6.9
Backfill (Cell 1)	3.5
Bank Stabilization/Restoration (Cell 1)	1.2
Excavation (Cell 2)	6.9
Backfill (Cell 2)	3.5
Bank Stabilization/Restoration (Cell 2)	1.2
Excavation (Cell 3)	6.9
Backfill (Cell 3)	3.5
Bank Stabilization/Restoration (Cell 3)	1.2
Excavation (Cell 4)	6.9
Backfill (Cell 4)	3.5
Bank Stabilization/Restoration (Cell 4)	1.2



NOTE:
1. The general timeline associated with Reach 5A and 5B, and subsequent reaches, illustrates the overall timeframe when excavation, backfilling, and bank stabilization/restoration activities are occurring in terms of construction years. In Reaches 5A and 5B, the river channel will be divided in to a series of dry isolation cells for the performance of excavation, backfill, and bank stabilization/restoration activities. However, as there are a total of 176 dry removal cells in Reach 5A alone, it is not possible to illustrate the sequential performance of remedial activities in each of these cells in a similar fashion. The detailed schedule "blow-up" provided for Reach 5A represents an example of the "staggered" schedule of the excavation, backfill, and bank stabilization/restoration activities within Reaches 5A and 5B associated with the cyclical performance of these activities on a cell-specific basis.

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

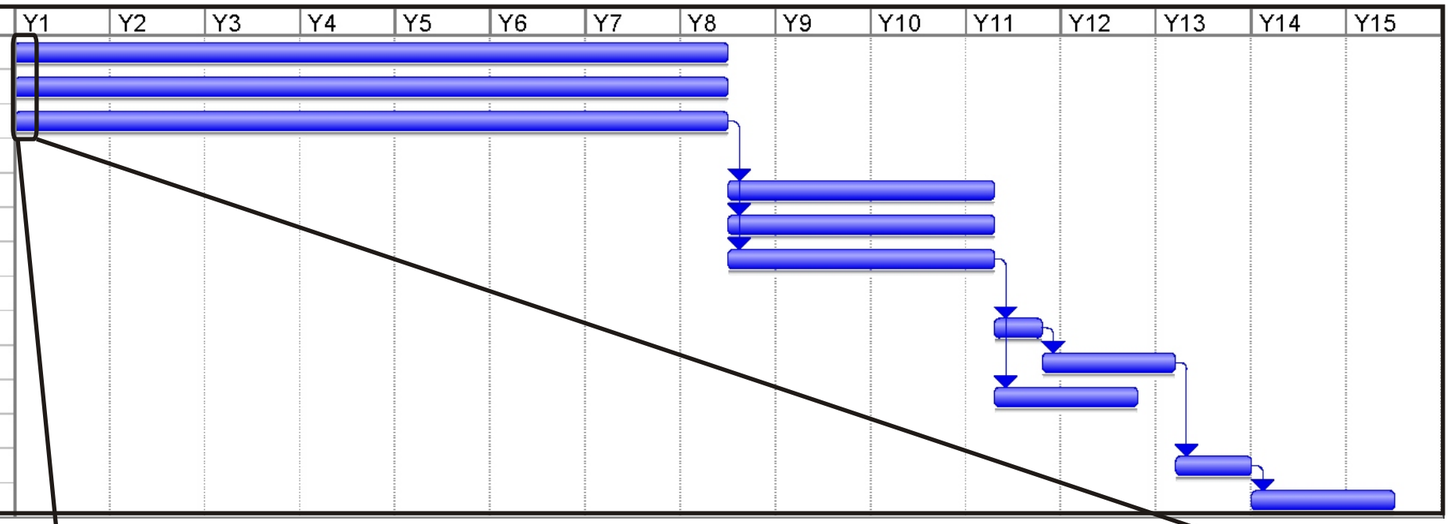
RESPONSE TO EPA INTERIM COMMENTS ON CMS REPORT

SED 3 CONSTRUCTION SCHEDULE

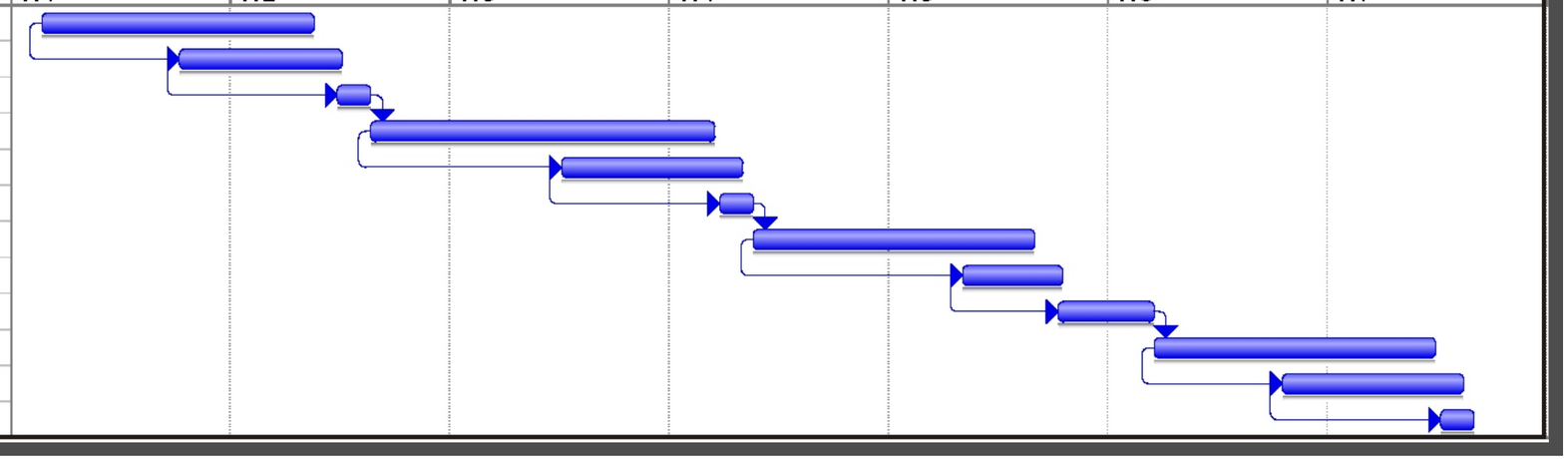
ARCADIS

FIGURE
GC20-1

Task Name	Duration (years)
5A - Excavation	7.5
5A - Backfill	7.5
5A - Bank Stabilization/Restoration	7.5
5B - Excavation	2.8
5B - Backfill	2.8
5B - Bank Stabilization/Restoration	2.8
5C (upper) - TLC/Restoration	0.5
5C (lower) - Engineered Cap/Restoration	1.4
5D (Backwaters) - TLC/Restoration	1.5
6 - Excavation	0.8
6 - Backfill/Restoration	1.5



Task Name	Duration (days)
Excavation (Cell 1)	6.9
Backfill (Cell 1)	3.5
Bank Stabilization/Restoration (Cell 1)	1.2
Excavation (Cell 2)	6.9
Backfill (Cell 2)	3.5
Bank Stabilization/Restoration (Cell 2)	1.2
Excavation (Cell 3)	6.9
Backfill (Cell 3)	3.5
Bank Stabilization/Restoration (Cell 3)	1.2
Excavation (Cell 4)	6.9
Backfill (Cell 4)	3.5
Bank Stabilization/Restoration (Cell 4)	1.2



NOTE:
1. The general timeline associated with Reach 5A and 5B, and subsequent reaches, illustrates the overall timeframe when excavation, backfilling, and bank stabilization/restoration activities are occurring in terms of construction years. In Reaches 5A and 5B, the river channel will be divided in to a series of dry isolation cells for the performance of excavation, backfill, and bank stabilization/restoration activities. However, as there are a total of 176 dry removal cells in Reach 5A alone, it is not possible to illustrate the sequential performance of remedial activities in each of these cells in a similar fashion. The detailed schedule "blow-up" provided for Reach 5A represents an example of the "staggered" schedule of the excavation, backfill, and bank stabilization/restoration activities within Reaches 5A and 5B associated with the cyclical performance of these activities on a cell-specific basis.

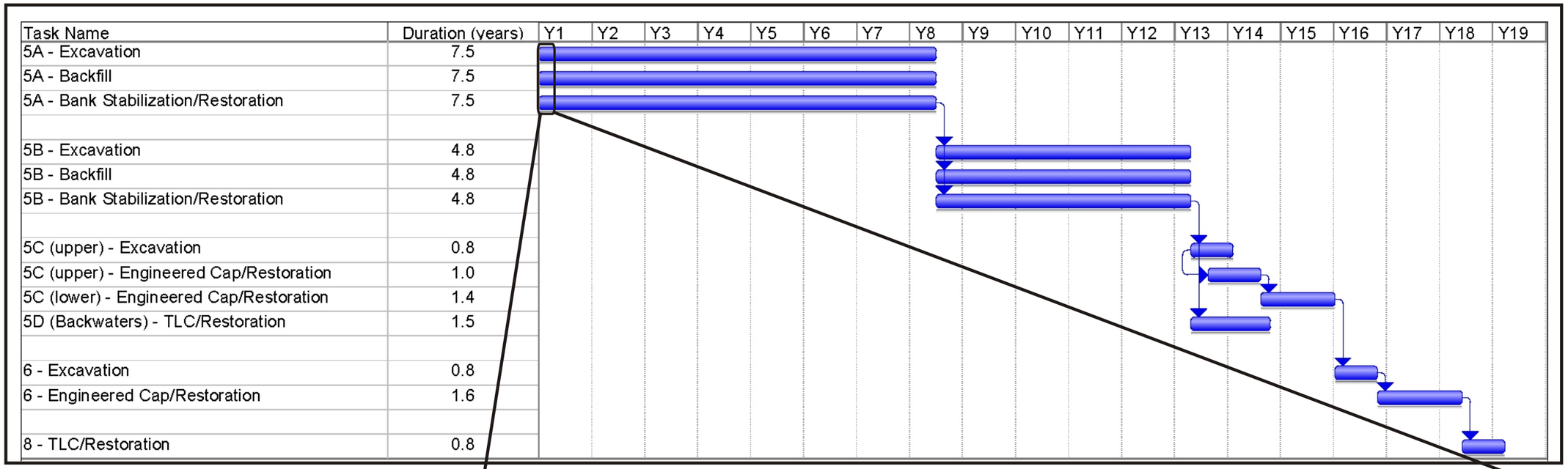
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

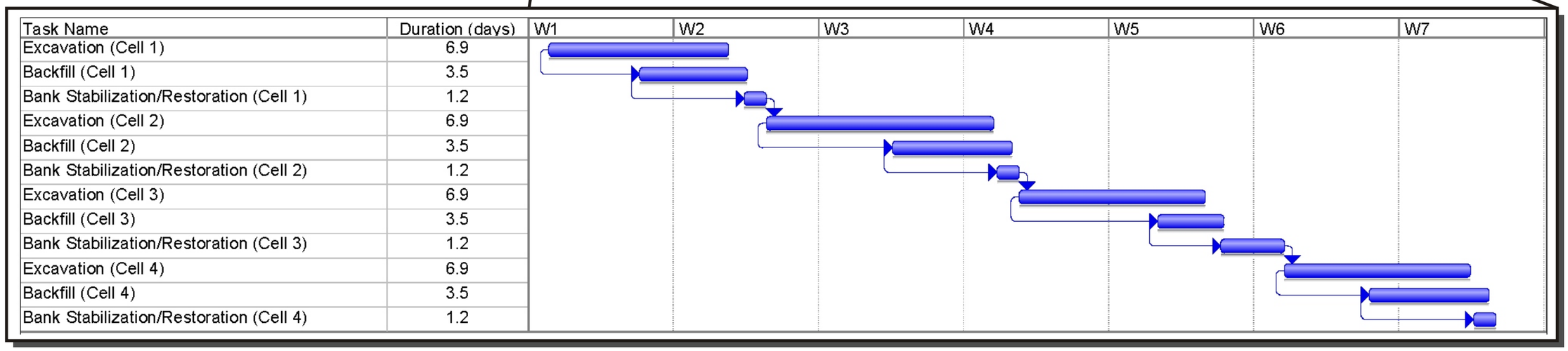
RESPONSE TO EPA INTERIM COMMENTS ON CMS REPORT

SED 4 CONSTRUCTION SCHEDULE

ARCADIS

FIGURE
GC20-2





NOTE:
1. The general timeline associated with Reach 5A and 5B, and subsequent reaches, illustrates the overall timeframe when excavation, backfilling, and bank stabilization/restoration activities are occurring in terms of construction years. In Reaches 5A and 5B, the river channel will be divided in to a series of dry isolation cells for the performance of excavation, backfill, and bank stabilization/restoration activities. However, as there are a total of 176 dry removal cells in Reach 5A alone, it is not possible to illustrate the sequential performance of remedial activities in each of these cells in a similar fashion. The detailed schedule "blow-up" provided for Reach 5A represents an example of the "staggered" schedule of the excavation, backfill, and bank stabilization/restoration activities within Reaches 5A and 5B associated with the cyclical performance of these activities on a cell-specific basis.

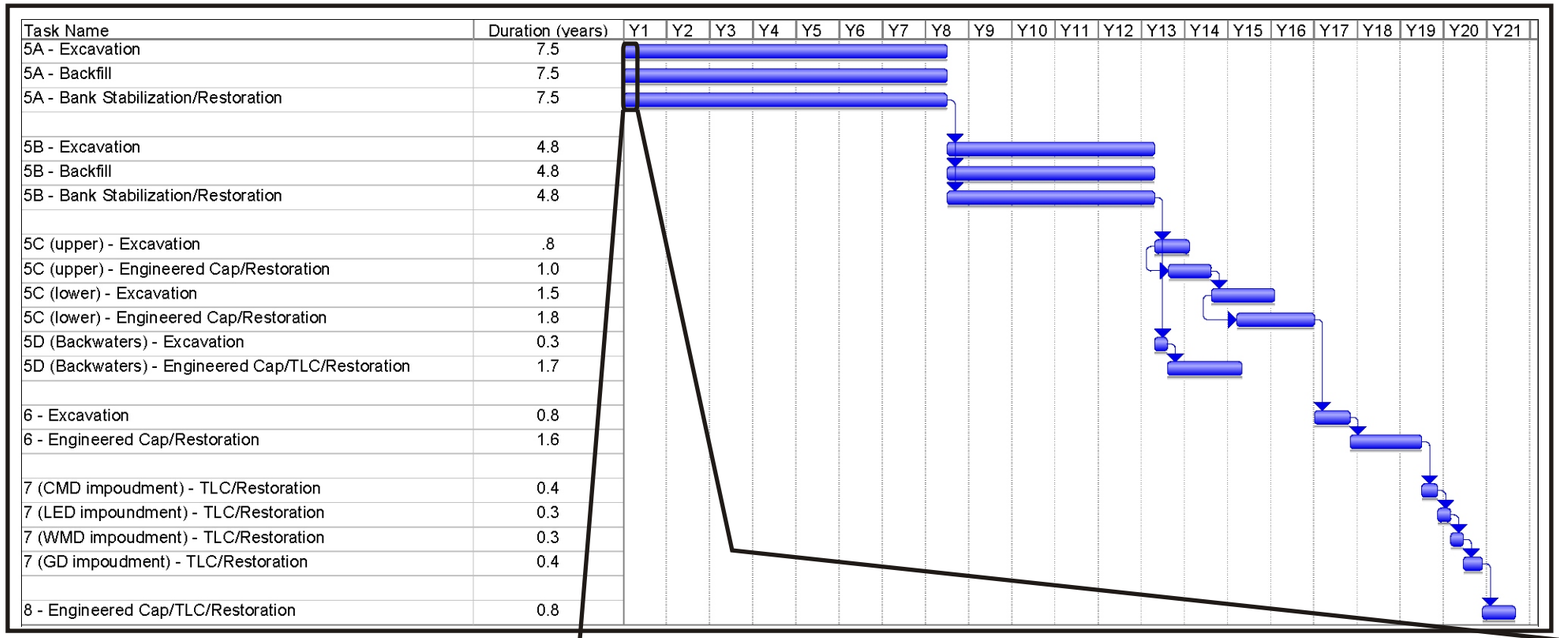
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

RESPONSE TO EPA INTERIM COMMENTS ON CMS REPORT

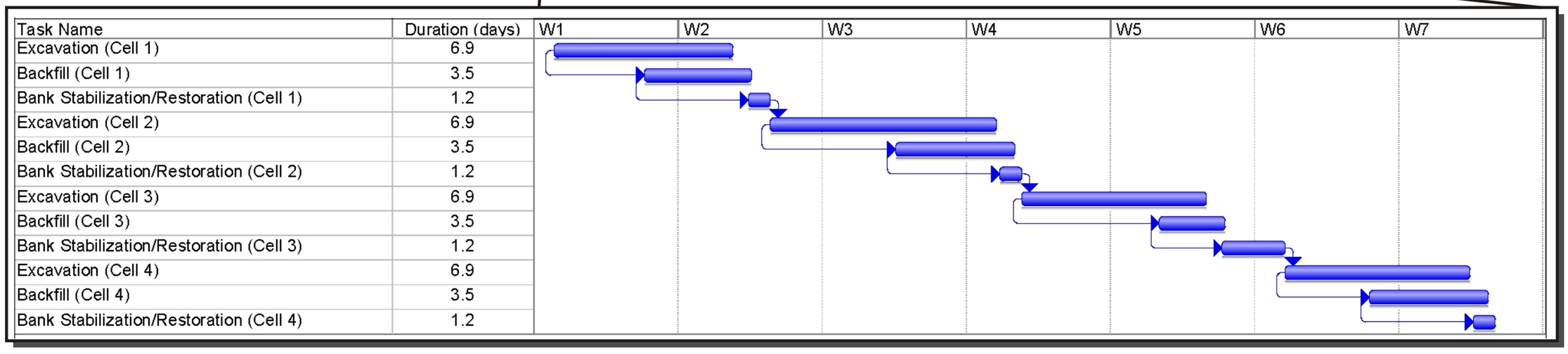
SED 5 CONSTRUCTION SCHEDULE

ARCADIS

FIGURE
GC20-3



Task Name	Duration (years)
5A - Excavation	7.5
5A - Backfill	7.5
5A - Bank Stabilization/Restoration	7.5
5B - Excavation	4.8
5B - Backfill	4.8
5B - Bank Stabilization/Restoration	4.8
5C (upper) - Excavation	.8
5C (upper) - Engineered Cap/Restoration	1.0
5C (lower) - Excavation	1.5
5C (lower) - Engineered Cap/Restoration	1.8
5D (Backwaters) - Excavation	0.3
5D (Backwaters) - Engineered Cap/TLC/Restoration	1.7
6 - Excavation	0.8
6 - Engineered Cap/Restoration	1.6
7 (CMD impoudment) - TLC/Restoration	0.4
7 (LED impoundment) - TLC/Restoration	0.3
7 (WMD impoudment) - TLC/Restoration	0.3
7 (GD impoudment) - TLC/Restoration	0.4
8 - Engineered Cap/TLC/Restoration	0.8



Task Name	Duration (days)
Excavation (Cell 1)	6.9
Backfill (Cell 1)	3.5
Bank Stabilization/Restoration (Cell 1)	1.2
Excavation (Cell 2)	6.9
Backfill (Cell 2)	3.5
Bank Stabilization/Restoration (Cell 2)	1.2
Excavation (Cell 3)	6.9
Backfill (Cell 3)	3.5
Bank Stabilization/Restoration (Cell 3)	1.2
Excavation (Cell 4)	6.9
Backfill (Cell 4)	3.5
Bank Stabilization/Restoration (Cell 4)	1.2

NOTE:
1. The general timeline associated with Reach 5A and 5B, and subsequent reaches, illustrates the overall timeframe when excavation, backfilling, and bank stabilization/restoration activities are occurring in terms of construction years. In Reaches 5A and 5B, the river channel will be divided in to a series of dry isolation cells for the performance of excavation, backfill, and bank stabilization/restoration activities. However, as there are a total of 176 dry removal cells in Reach 5A alone, it is not possible to illustrate the sequential performance of remedial activities in each of these cells in a similar fashion. The detailed schedule "blow-up" provided for Reach 5A represents an example of the "staggered" schedule of the excavation, backfill, and bank stabilization/restoration activities within Reaches 5A and 5B associated with the cyclical performance of these activities on a cell-specific basis.

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

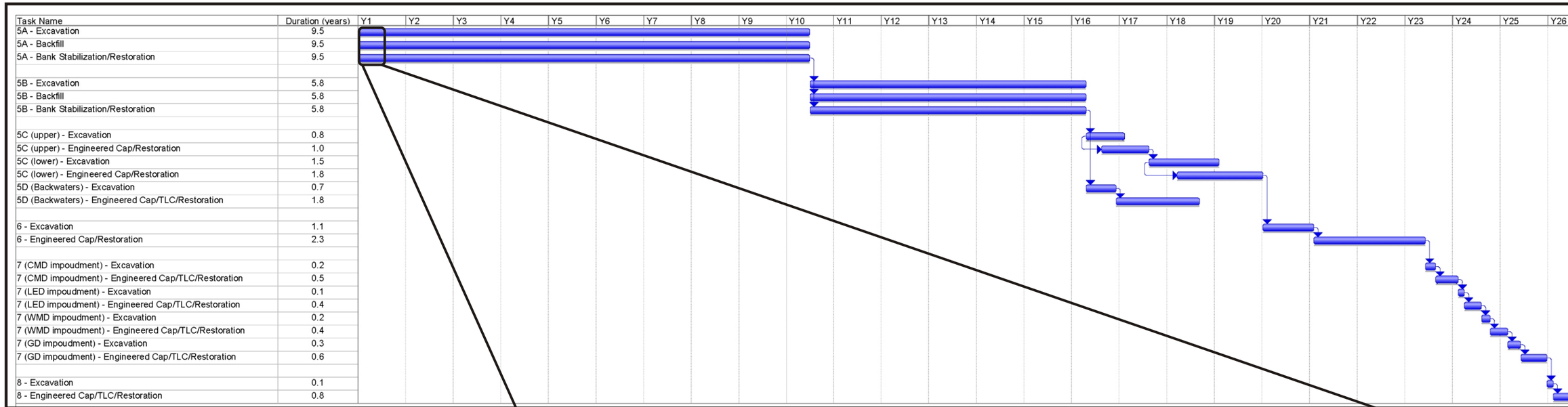
RESPONSE TO EPA INTERIM COMMENTS ON CMS REPORT

SED 6 CONSTRUCTION SCHEDULE

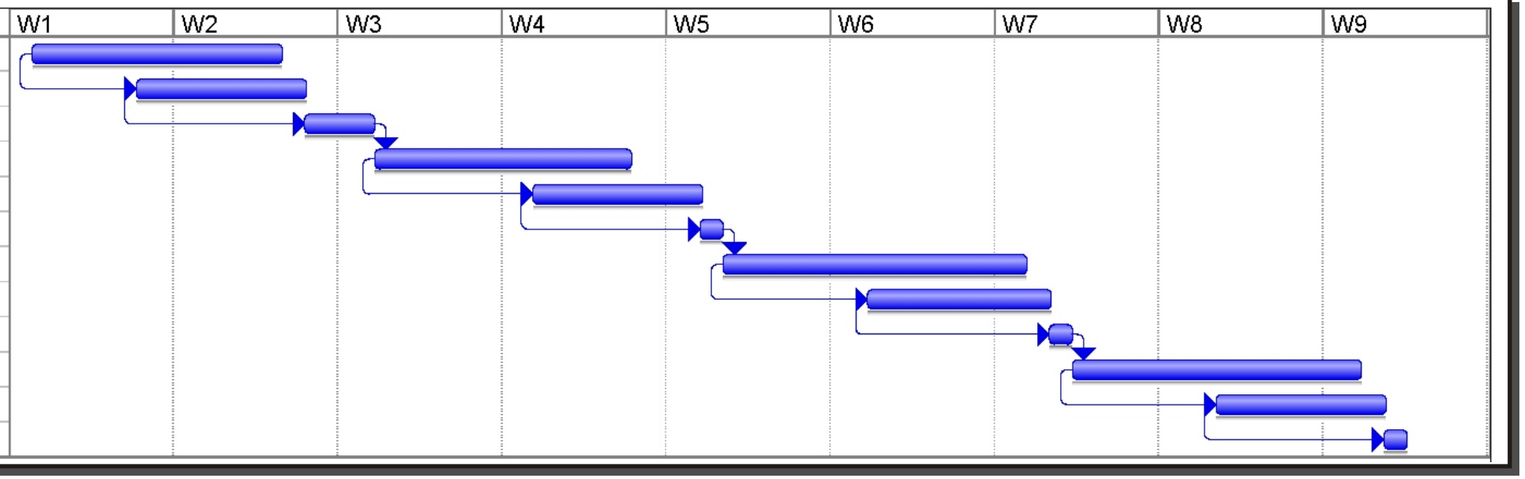
ARCADIS

FIGURE
GC20-4

Task Name	Duration (years)
5A - Excavation	9.5
5A - Backfill	9.5
5A - Bank Stabilization/Restoration	9.5
5B - Excavation	5.8
5B - Backfill	5.8
5B - Bank Stabilization/Restoration	5.8
5C (upper) - Excavation	0.8
5C (upper) - Engineered Cap/Restoration	1.0
5C (lower) - Excavation	1.5
5C (lower) - Engineered Cap/Restoration	1.8
5D (Backwaters) - Excavation	0.7
5D (Backwaters) - Engineered Cap/TLC/Restoration	1.8
6 - Excavation	1.1
6 - Engineered Cap/Restoration	2.3
7 (CMD impoudment) - Excavation	0.2
7 (CMD impoudment) - Engineered Cap/TLC/Restoration	0.5
7 (LED impoudment) - Excavation	0.1
7 (LED impoudment) - Engineered Cap/TLC/Restoration	0.4
7 (WMD impoudment) - Excavation	0.2
7 (WMD impoudment) - Engineered Cap/TLC/Restoration	0.4
7 (GD impoudment) - Excavation	0.3
7 (GD impoudment) - Engineered Cap/TLC/Restoration	0.6
8 - Excavation	0.1
8 - Engineered Cap/TLC/Restoration	0.8



Task Name	Duration (days)
Excavation (Cell 1)	8.9
Backfill (Cell 1)	5.6
Bank Stabilization/Restoration (Cell 1)	0.9
Excavation (Cell 2)	8.9
Backfill (Cell 2)	5.6
Bank Stabilization/Restoration (Cell 2)	0.9
Excavation (Cell 3)	8.9
Backfill (Cell 3)	5.6
Bank Stabilization/Restoration (Cell 3)	0.9
Excavation (Cell 4)	8.9
Backfill (Cell 4)	5.6
Bank Stabilization/Restoration (Cell 4)	0.9



NOTE:
1. The general timeline associated with Reach 5A and 5B, and subsequent reaches, illustrates the overall timeframe when excavation, backfilling, and bank stabilization/restoration activities are occurring in terms of construction years. In Reaches 5A and 5B, the river channel will be divided in to a series of dry isolation cells for the performance of excavation, backfill, and bank stabilization/restoration activities. However, as there are a total of 176 dry removal cells in Reach 5A alone, it is not possible to illustrate the sequential performance of remedial activities in each of these cells in a similar fashion. The detailed schedule "blow-up" provided for Reach 5A represents an example of the "staggered" schedule of the excavation, backfill, and bank stabilization/restoration activities within Reaches 5A and 5B associated with the cyclical performance of these activities on a cell-specific basis.

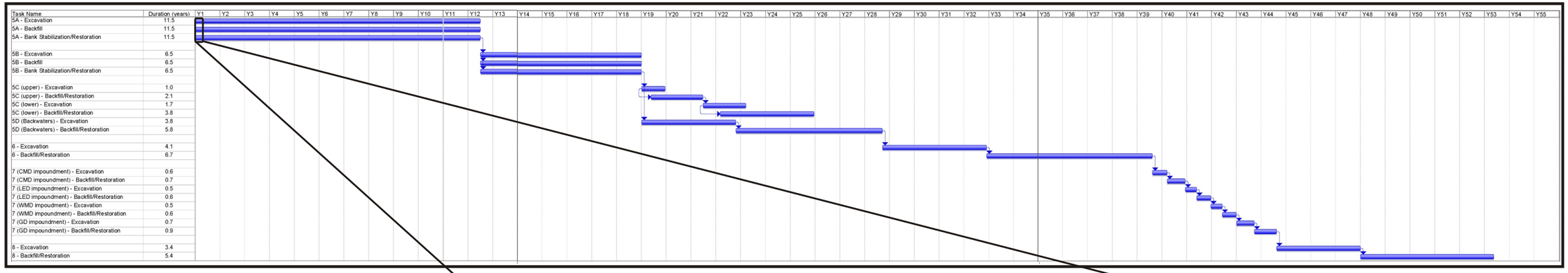
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

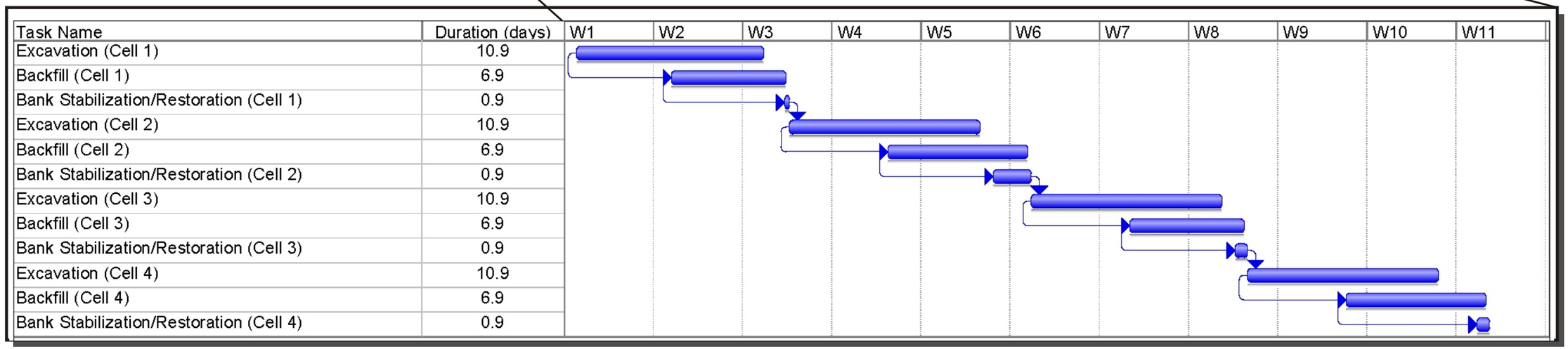
RESPONSE TO EPA INTERIM COMMENTS ON CMS REPORT

SED 7 CONSTRUCTION SCHEDULE

ARCADIS

FIGURE
GC20-5





NOTE:

1. The general timeline associated with Reach 5A and 5B, and subsequent reaches, illustrates the overall timeframe when excavation, backfilling, and bank stabilization/restoration activities are occurring in terms of construction years. In Reaches 5A and 5B, the river channel will be divided in to a series of dry isolation cells for the performance of excavation, backfill, and bank stabilization/restoration activities. However, as there are a total of 176 dry removal cells in Reach 5A alone, it is not possible to illustrate the sequential performance of remedial activities in each of these cells in a similar fashion. The detailed schedule "blow-up" provided for Reach 5A represents an example of the "staggered" schedule of the excavation, backfill, and bank stabilization/restoration activities within Reaches 5A and 5B associated with the cyclical performance of these activities on a cell-specific basis.

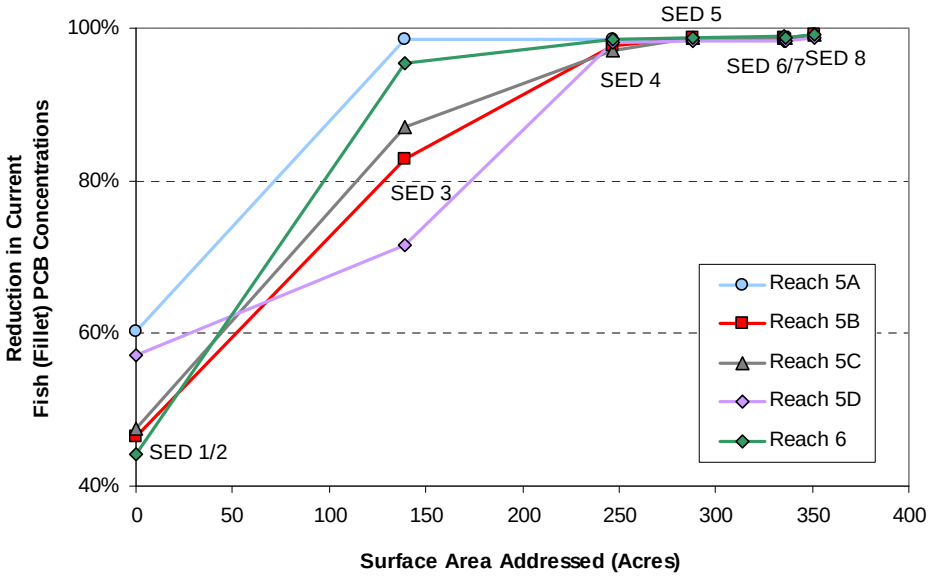
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

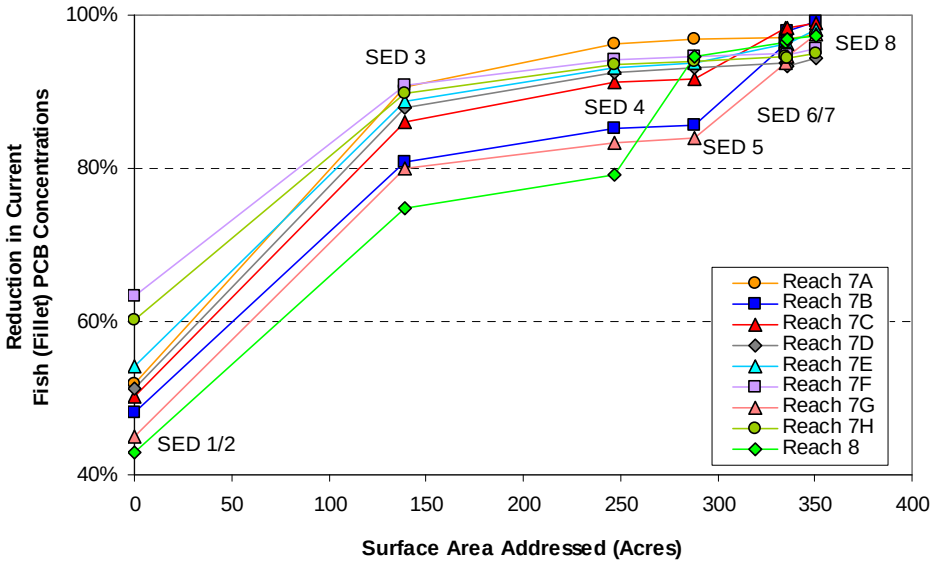
RESPONSE TO EPA INTERIM COMMENTS ON CMS REPORT

SED 8 CONSTRUCTION SCHEDULE

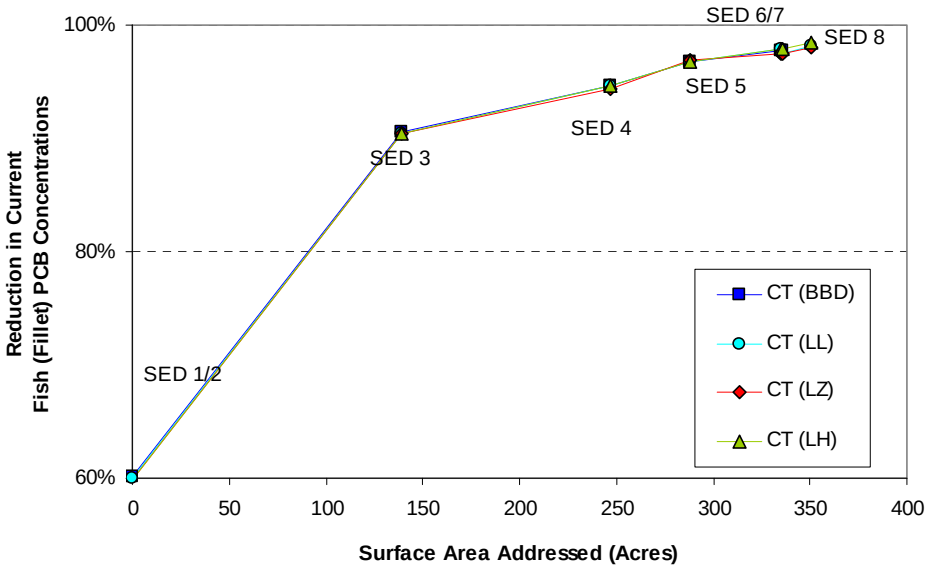
ARCADIS

FIGURE
GC20-6



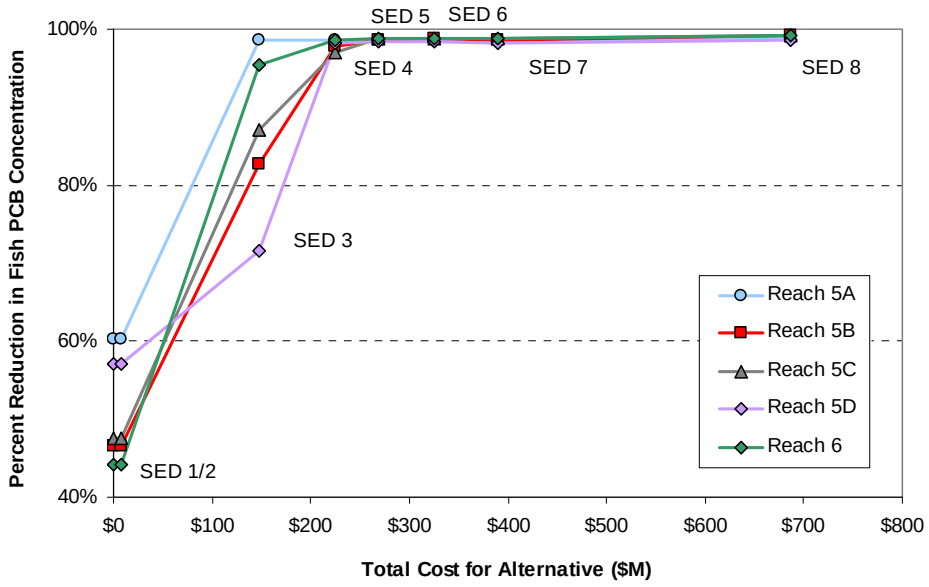


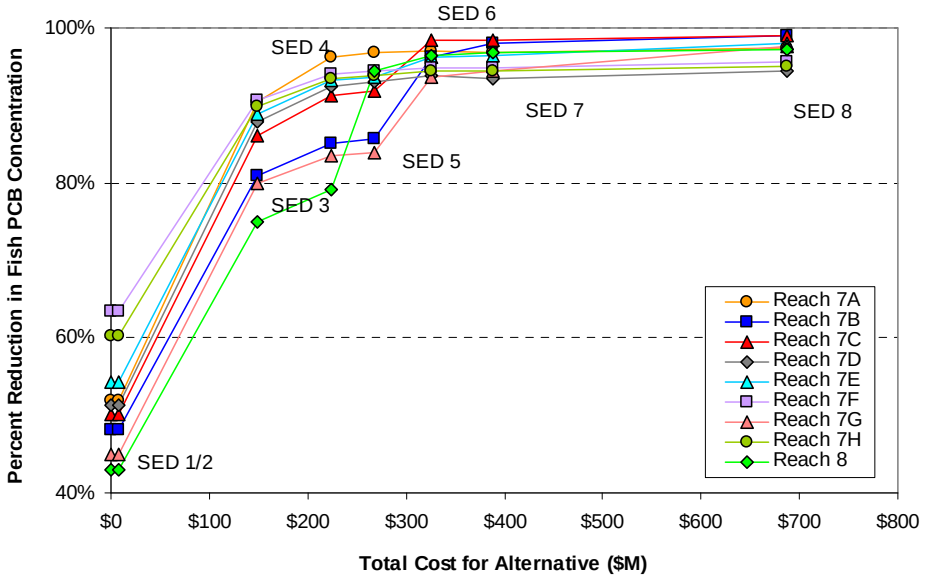
Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.



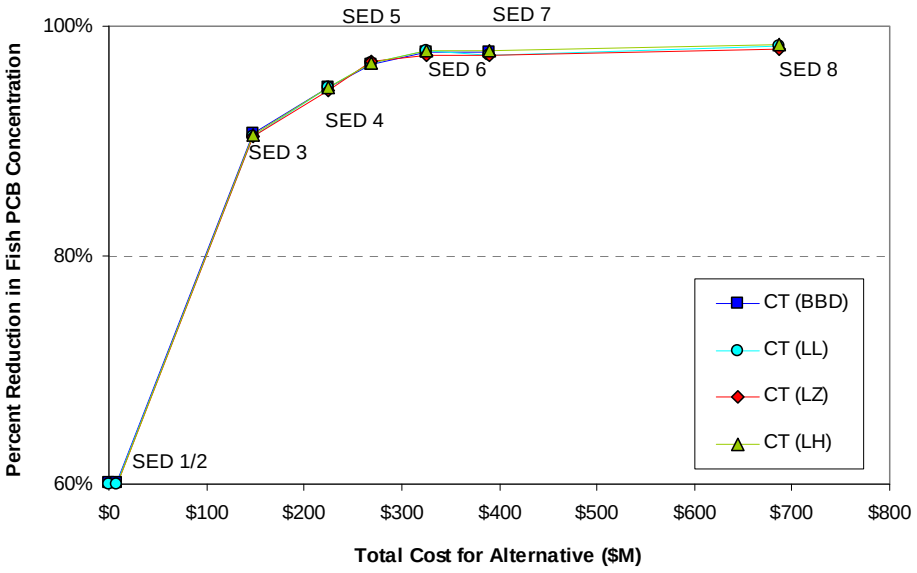
Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.

Figure GC21-1. Reduction in current fish (fillet) PCB concentrations over the model projection period versus surface area addressed in remedy.





Results shown for SED 6, SED 7, and SED 8 reflect new downstream model simulations which have been revised from those presented in the CMS Report to assume remediation of more grid cells in Reaches 7B and 7C, as discussed in Response to Specific Comment 44.



Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.

Figure GC21-2. Modeled fish PCB concentrations at end of model projection period versus total cost for each alternative.

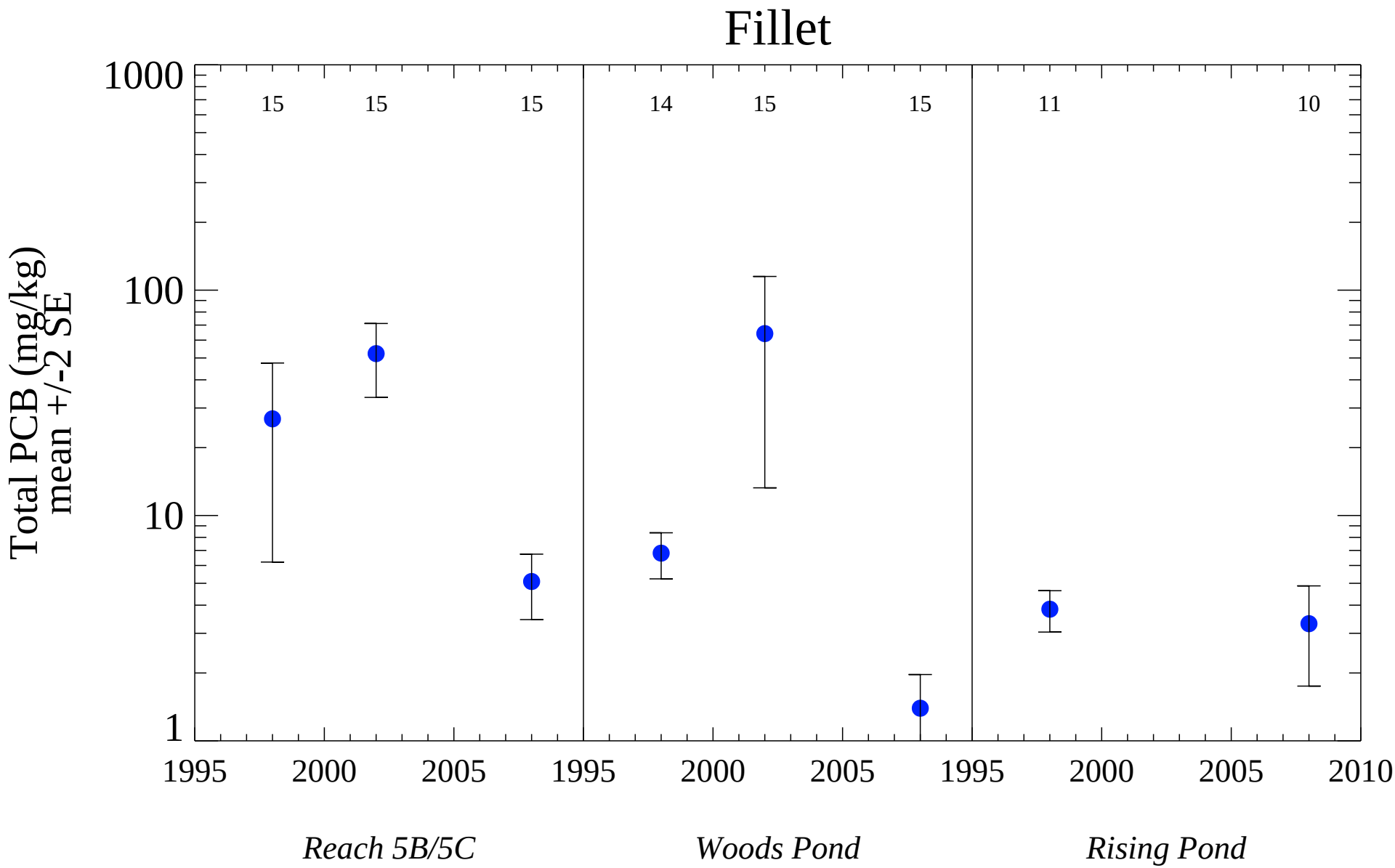


Figure SC27-1. Temporal and spatial trends in adult largemouth bass from the Housatonic River.
Data: GE,EPA; mean (sum of aroclors or congeners) +/- 2SE, total number of samples for each group posted at top of each panel. 2008 data are preliminary and unvalidated. GE Splits were averaged. The re-analyzed fish sample extract (WP-ADULT-LB-13 F-RE) was averaged with its original result.

DR - Z:\GENcms\ANALYSIS\Biota\2008_LMB_Data\LMB_spatial_temporal_incl_2008_data_and_1998_2002.pro
Wed Mar 04 10:34:27 2009

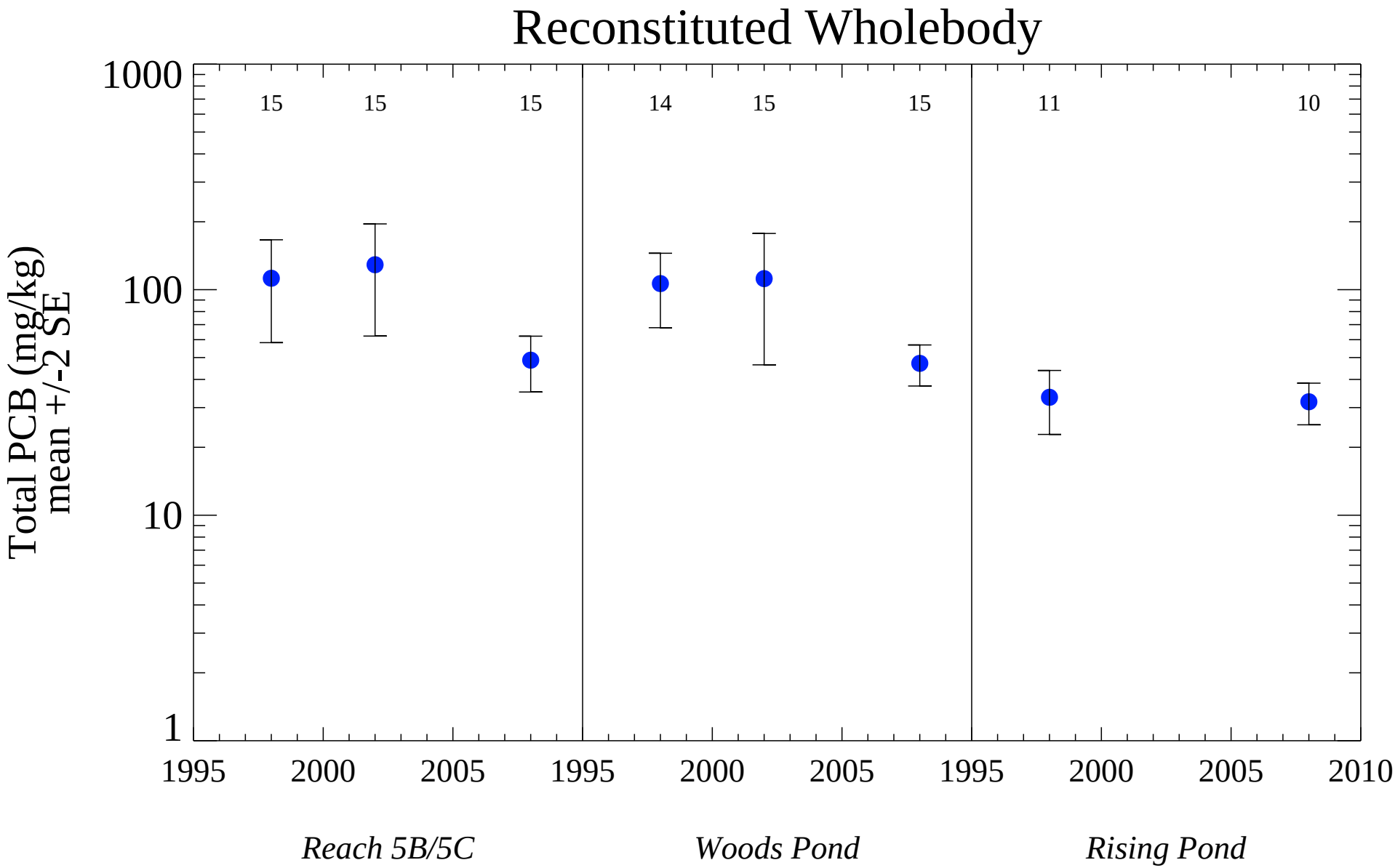


Figure SC27-2. Temporal and spatial trends in adult largemouth bass from the Housatonic River.
Data: GE,EPA; mean (sum of aroclors or congeners) +/- 2SE, total number of samples for each group posted at top of each panel. 2008 data are preliminary and unvalidated.

DR - Z:\GENcms\ANALYSIS\Biota\2008_LMB_Data\LMB_spatial_temporal_incl_2008_data_and_1998_2002.pro
Wed Mar 04 10:34:27 2009

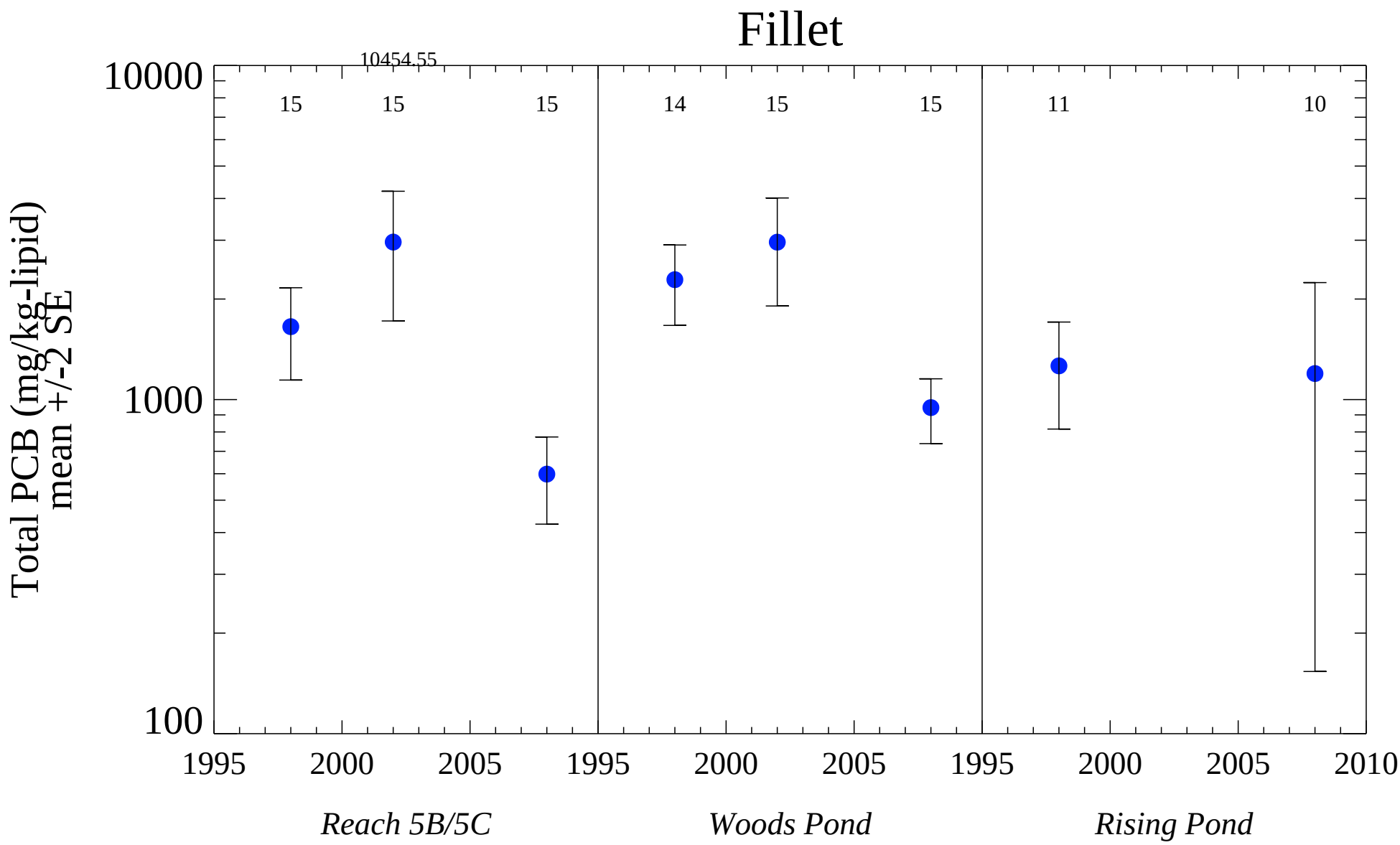


Figure SC27-3. Temporal and spatial trends in adult largemouth bass from the Housatonic River.
Data: GE,EPA; mean (sum of aroclors or congeners) +/- 2SE, total number of samples for each group posted at top of each panel. 2008 data are preliminary and unvalidated. GE Splits were averaged. The re-analyzed fish sample extract (WP-ADULT-LB-13 F-RE) was averaged with its original result.

DR - Z:\GENcms\ANALYSIS\Biota\2008_LMB_Data\LMB_spatial_temporal_incl_2008_data_and_1998_2002_lipid_normalized.pro
Wed Mar 04 10:42:04 2009

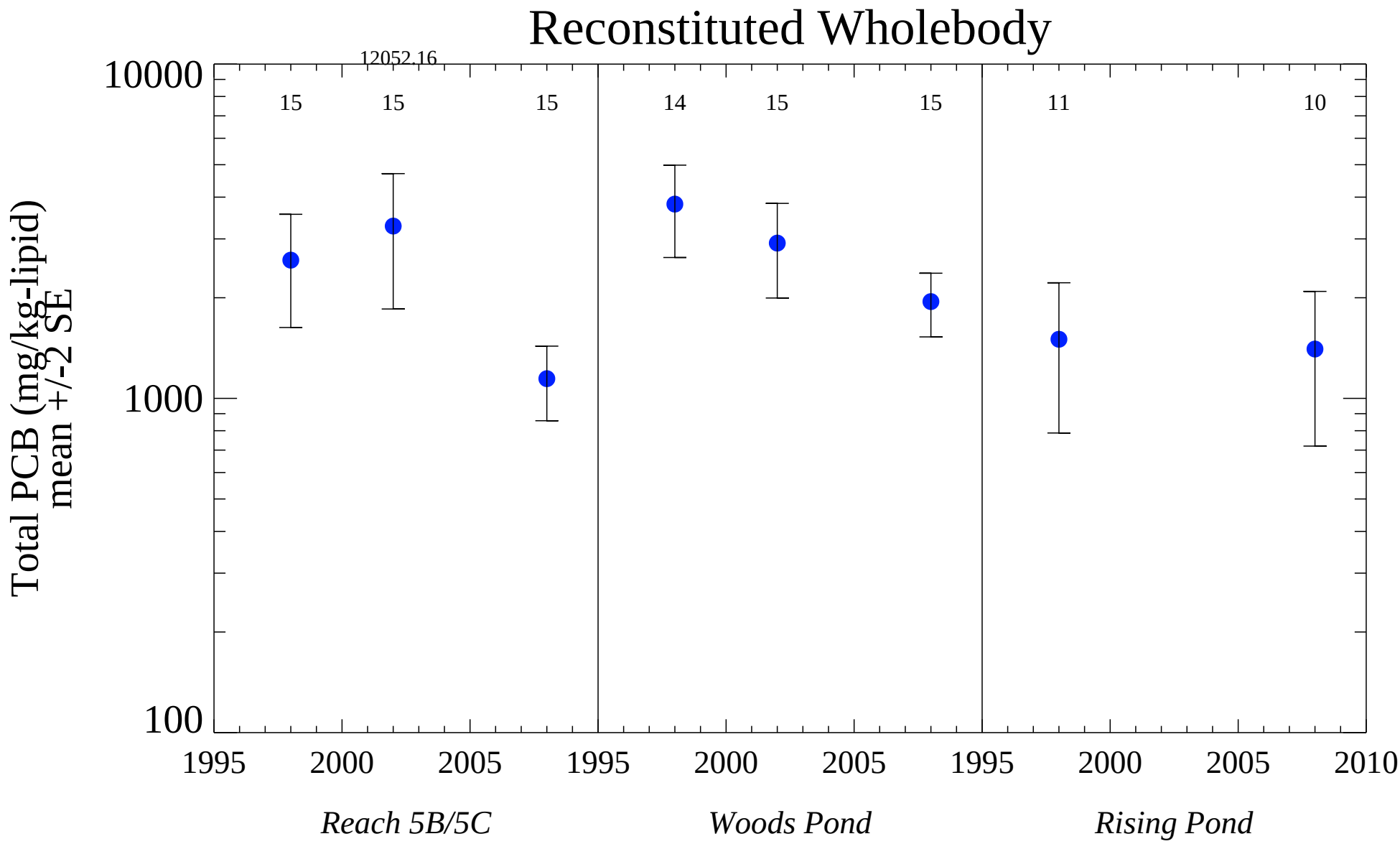
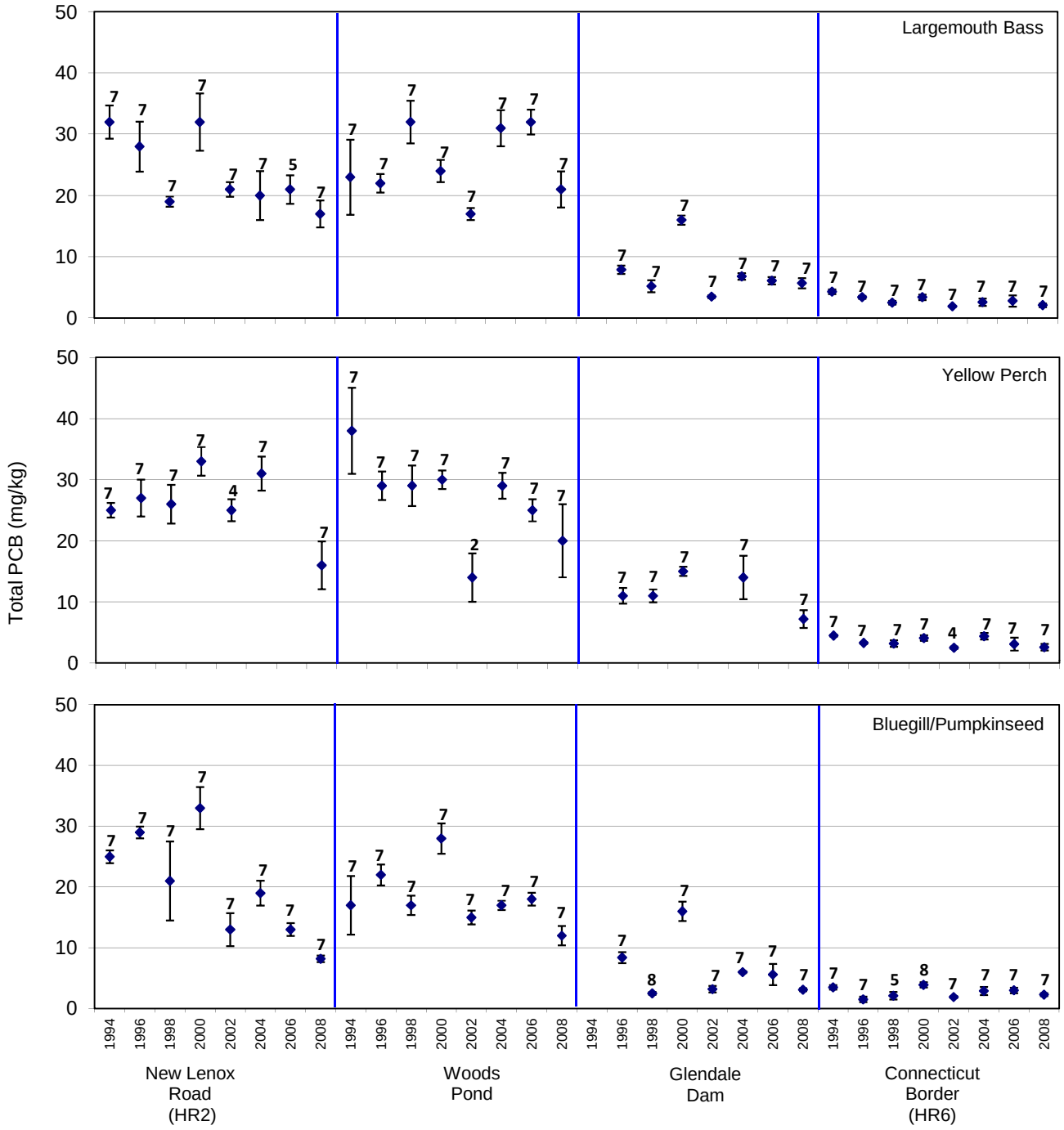


Figure SC27-4. Temporal and spatial trends in adult largemouth bass from the Housatonic River.
Data: GE,EPA; mean (sum of aroclors or congeners) +/- 2SE, total number of samples for each group posted at top of each panel. 2008 data are preliminary and unvalidated.

DR - Z:\GENcms\ANALYSIS\Biota\2008_LMB_Data\LMB_spatial_temporal_incl_2008_data_and_1998_2002_lipid_normalized.pro
Wed Mar 04 10:42:04 2009



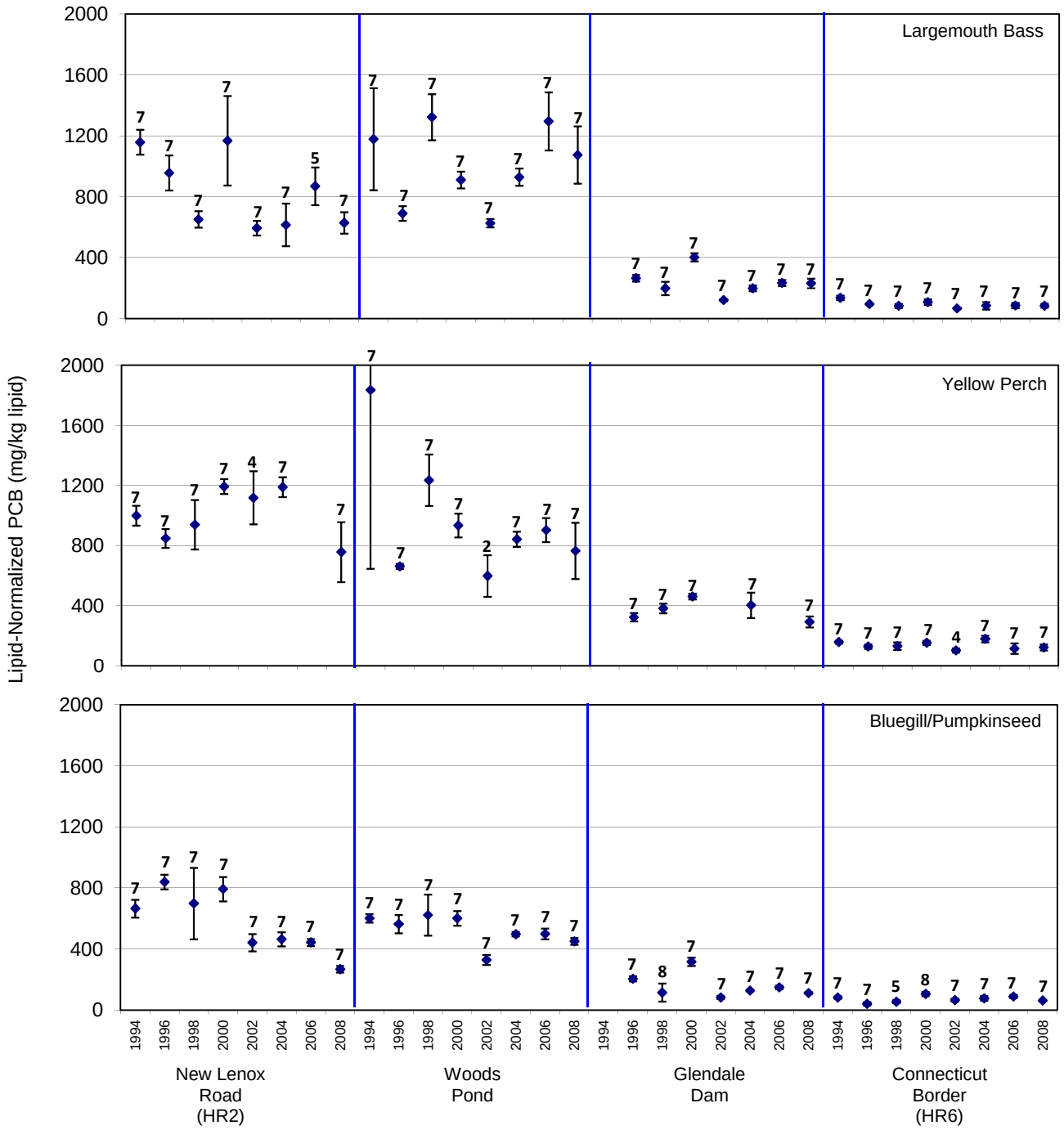
Notes:
1. PCB - polychlorinated biphenyl
2. mg/kg = milligram/kilogram
3. Presents all young-of-year data collected by ARCADIS in 1994, 1996, 1998, 2000, 2002, 2004, 2006 and 2008.
4. Arithmetic means. Error bars represent +/- 2 standard errors. Number of samples is indicated.

General Electric Company
Housatonic River
Response to EPA Interim Comments on CMS Report

TEMPORAL AND SPATIAL DISTRIBUTION OF MEAN PCB LEVELS IN YOUNG-OF-YEAR FISH TISSUE (WET-WEIGHT)

ARCADIS ANCHOR QEA

FIGURE SC27-5



Notes:
1. PCB - polychlorinated biphenyl
2. mg/kg-lipid = milligram/kilogram-lipid
3. Presents all young-of-year data collected by ARCADIS in 1994, 1996, 1998, 2000, 2002, 2004, 2006 and 2008.
4. Arithmetic means. Error bars represent +/- 2 standard errors.
5. Lipid-normalized mean concentration determined by dividing the total PCB concentration (in mg/kg) for each sample in the data set by the sample's associated lipid content (in kg/lipid/kg wet-weight) multiplied by 100, and calculating the arithmetic mean of those values.

General Electric Company
Housatonic River
Response to EPA Interim Comments on CMS Report

TEMPORAL AND SPATIAL DISTRIBUTION OF MEAN PCB LEVELS IN YOUNG-OF-YEAR FISH TISSUE (LIPID-NORMALIZED)

ARCADIS ANCHOR QEA

FIGURE SC27-6

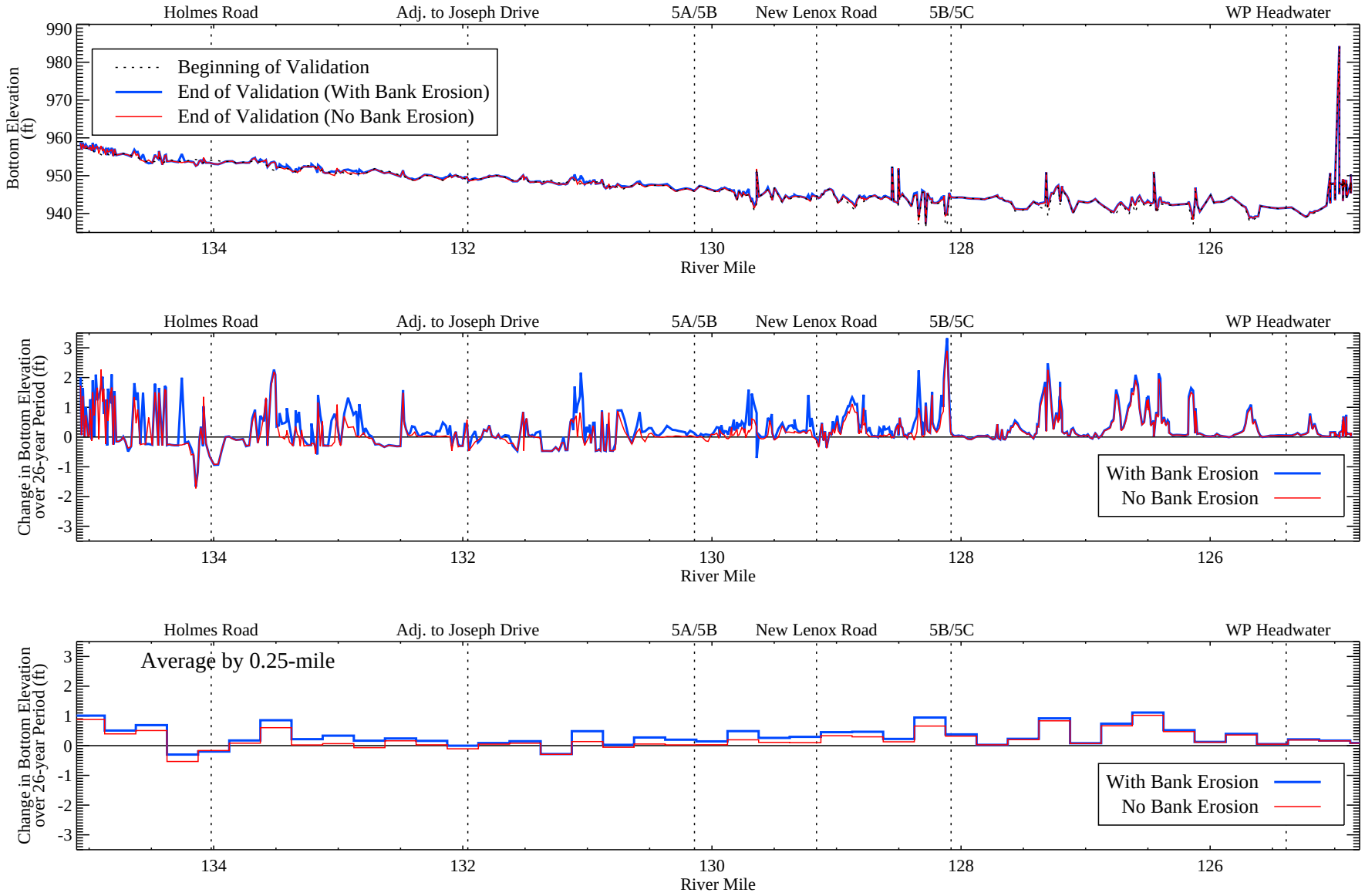
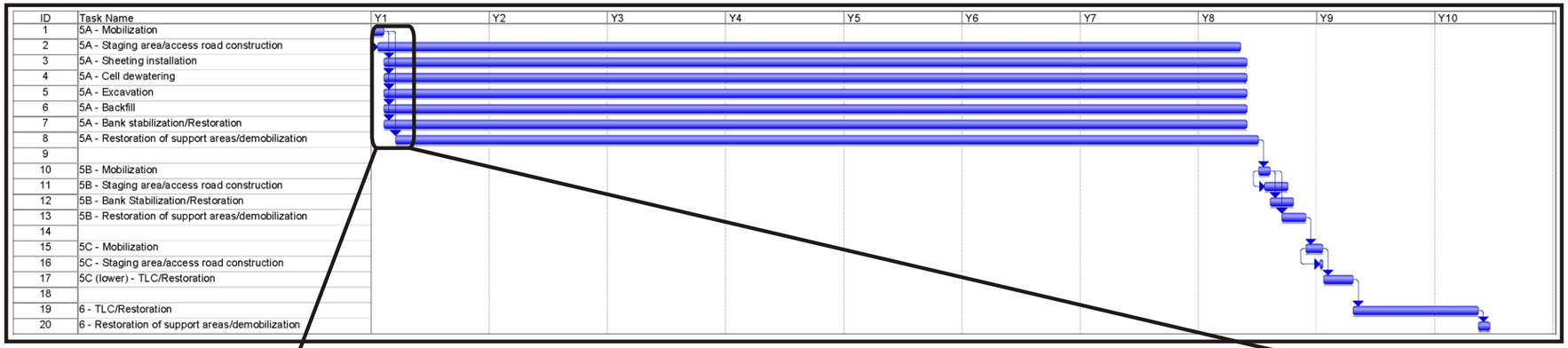
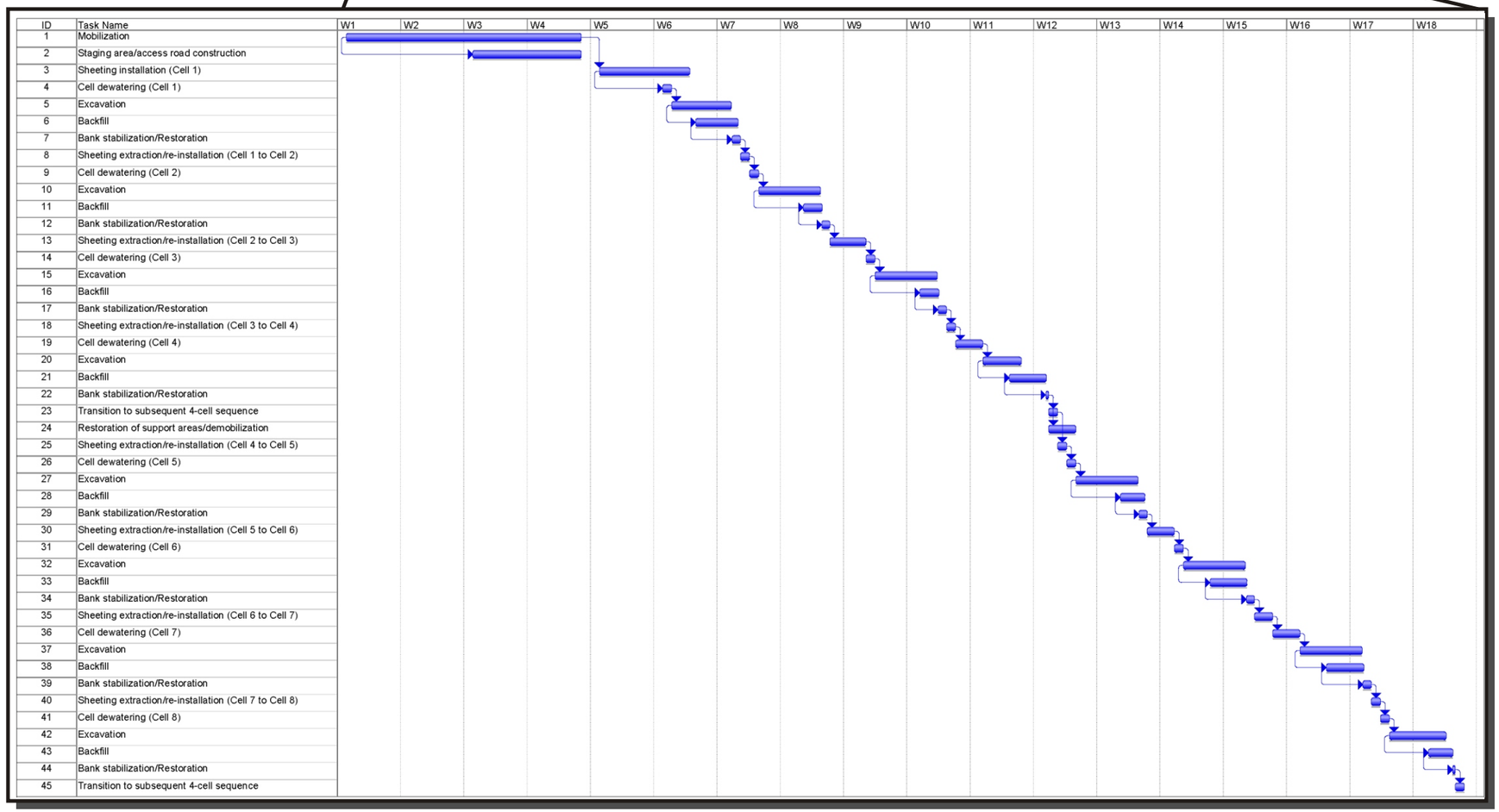


Figure SC43-1.

Comparison of model predicted bottom elevations with and without bank erosion at the end of validation.

BankEro Run: \\wen\d_drive\GENcms\analysis\EPA_CMS_comments\Bank_Erosion_SC43\inputs\DXDY_PROJ_061214.INP
No Bank Run: Proj_R56_VALI_BNKTEST_0811-01





NOTE:
The general timeline illustrates the overall reach- and alternative-specific timeframe for the performance of construction and supporting activities in terms of construction years. In Reaches 5A and 5B, the river channel will be divided into a series of dry isolation cells for the performance of remedial activities. However, as there are a total of 176 dry removal cells in Reach 5A alone, it is not possible to illustrate the sequential performance of all associated activities in each of these cells in a similar fashion. The detailed schedule "blow-up" provided for Reach 5A represents an example of the "staggered" schedule of the mobilization and site preparation, sheeting installation, cell dewatering, excavation, backfill, and bank stabilization/restoration activities within Reaches 5A and 5B associated with the cyclical performance of these activities on a cell-specific basis.

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

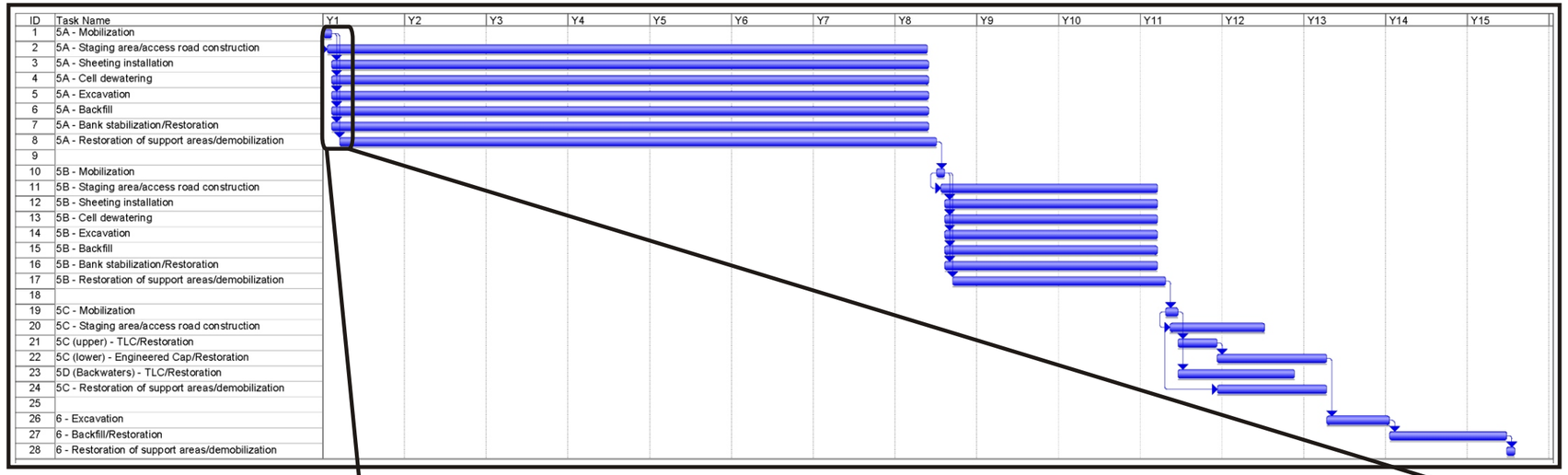
RESPONSE TO EPA INTERIM COMMENTS ON CMS REPORT

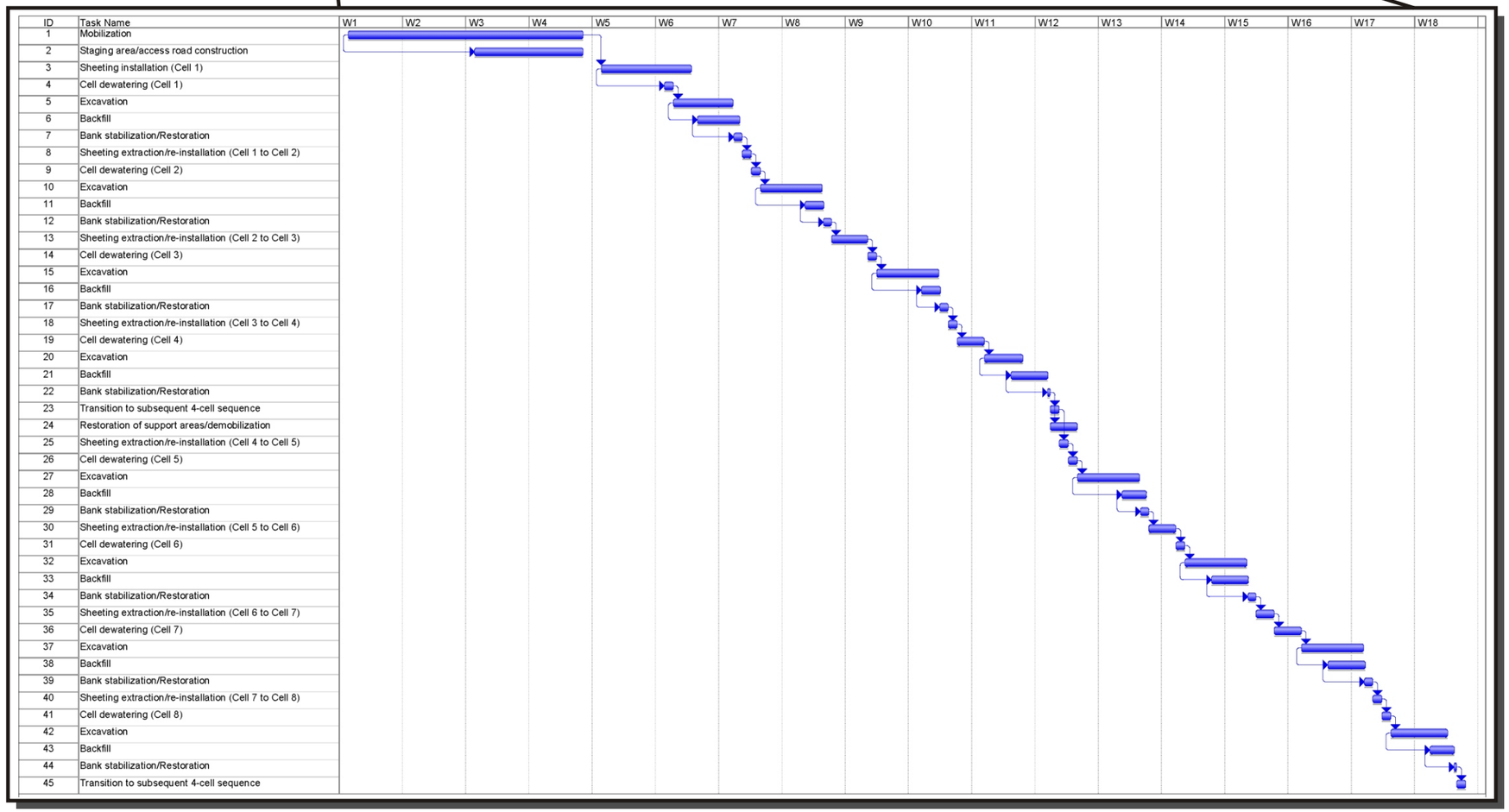
SED 3 DETAILED CONSTRUCTION SCHEDULE

ARCADIS

FIGURE
SC47-1

03/04/09 SYRACUSE-NY-141ENV-DJH
C:/B003092900000000005/REPA/CDR/309229J07.CDR





NOTE:
The general timeline illustrates the overall reach- and alternative-specific timeframe for the performance of construction and supporting activities in terms of construction years. In Reaches 5A and 5B, the river channel will be divided into a series of dry isolation cells for the performance of remedial activities. However, as there are a total of 176 dry removal cells in Reach 5A alone, it is not possible to illustrate the sequential performance of all associated activities in each of these cells in a similar fashion. The detailed schedule "blow-up" provided for Reach 5A represents an example of the "staggered" schedule of the mobilization and site preparation, sheeting installation, cell dewatering, excavation, backfill, and bank stabilization/restoration activities within Reaches 5A and 5B associated with the cyclical performance of these activities on a cell-specific basis.

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

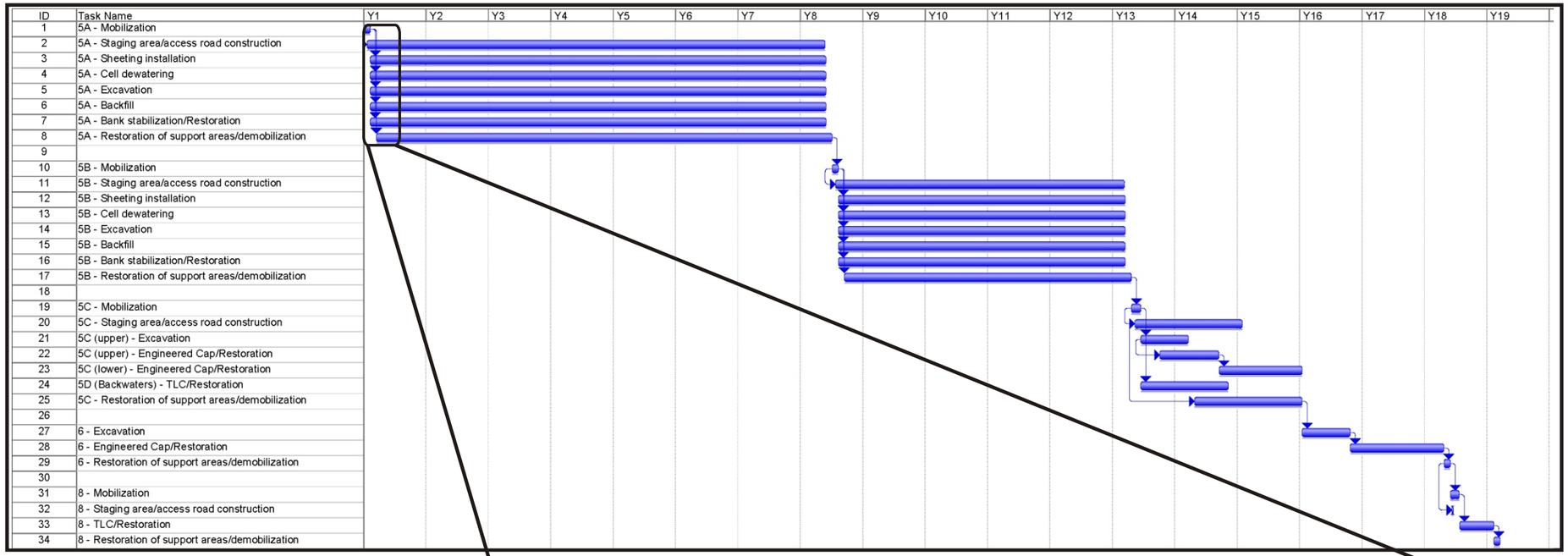
RESPONSE TO EPA INTERIM COMMENTS ON CMS REPORT

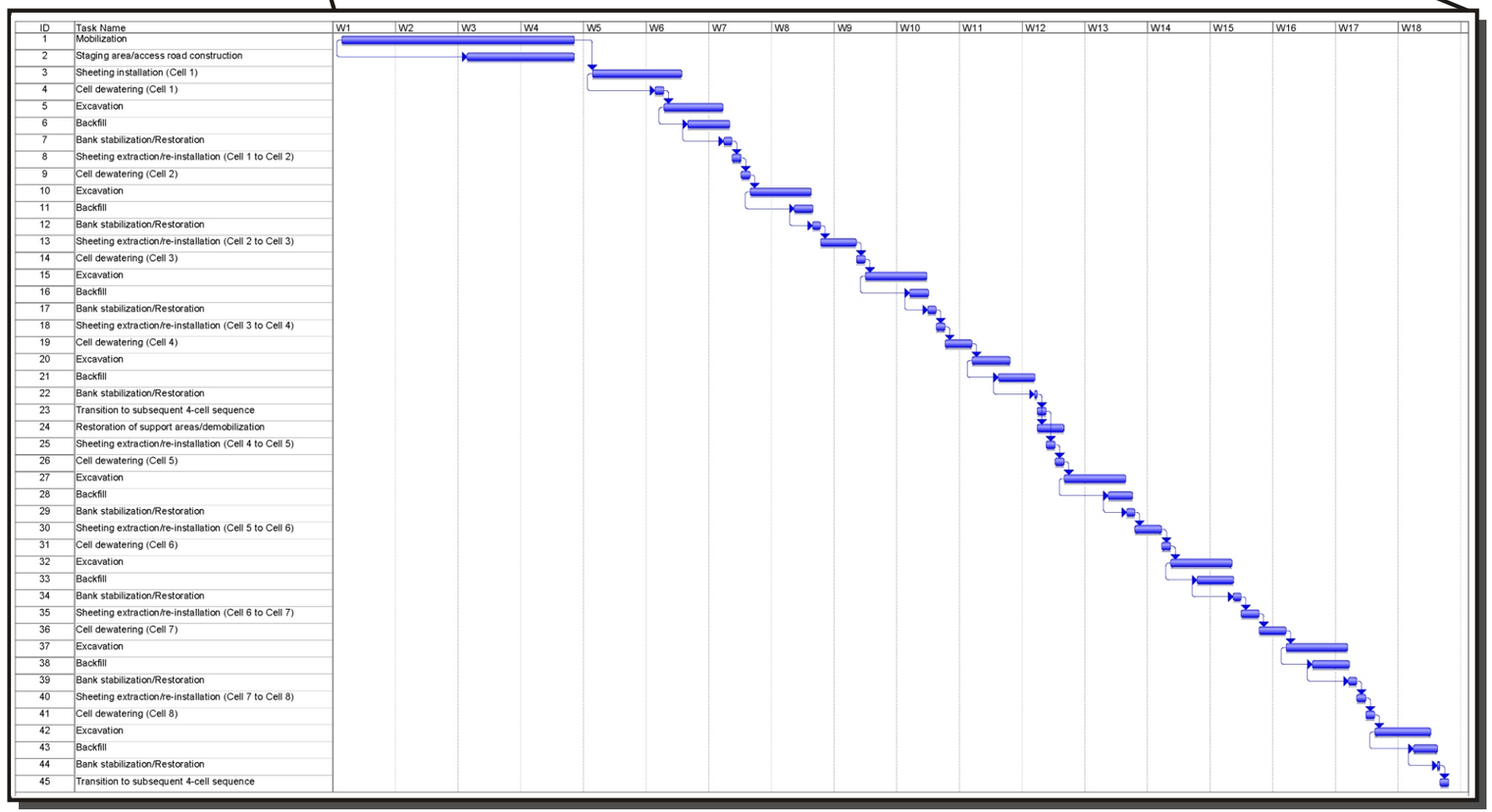
SED 4 DETAILED CONSTRUCTION SCHEDULE

ARCADIS

FIGURE
SC47-2

03/04/09 SYRACUSE-NY-141ENV-DJH
C:/B0030929/0000/00005/REPA/CDR/30929J08.CDR





NOTE:
The general timeline illustrates the overall reach- and alternative-specific timeframe for the performance of construction and supporting activities in terms of construction years. In Reaches 5A and 5B, the river channel will be divided into a series of dry isolation cells for the performance of remedial activities. However, as there are a total of 176 dry removal cells in Reach 5A alone, it is not possible to illustrate the sequential performance of all associated activities in each of these cells in a similar fashion. The detailed schedule "blow-up" provided for Reach 5A represents an example of the "staggered" schedule of the mobilization and site preparation, sheeting installation, cell dewatering, excavation, backfill, and bank stabilization/restoration activities within Reaches 5A and 5B associated with the cyclical performance of these activities on a cell-specific basis.

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

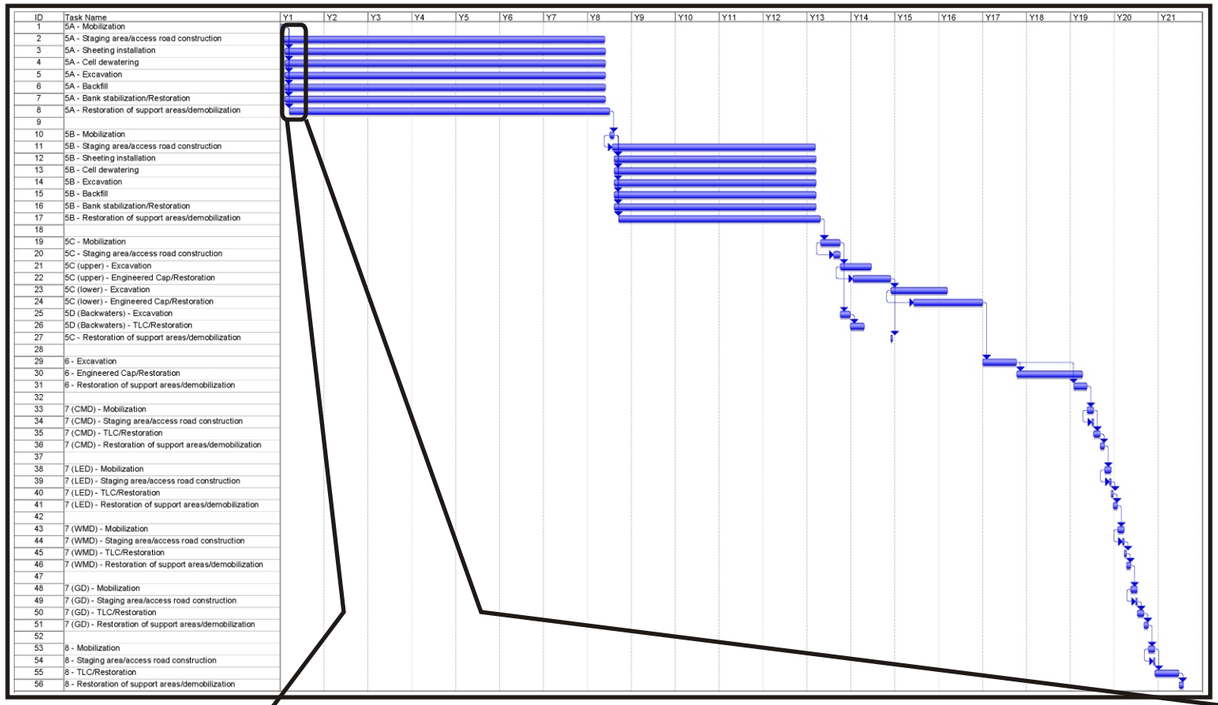
RESPONSE TO EPA INTERIM COMMENTS ON CMS REPORT

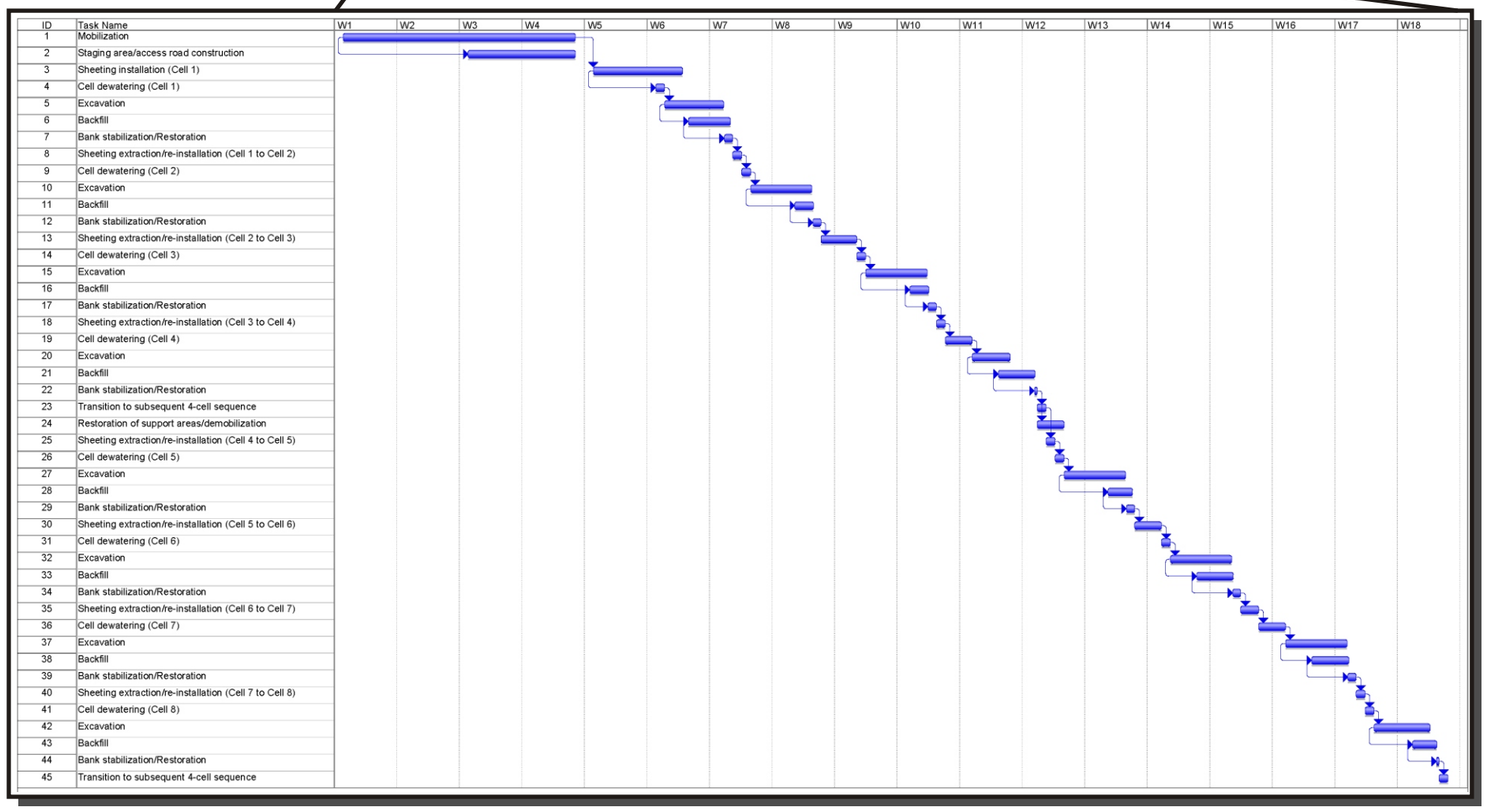
SED 5 DETAILED CONSTRUCTION SCHEDULE

ARCADIS

FIGURE
SC47-3

03/04/09 SYRACUSE-NY-141ENV-DJH
C:/B0030929/000000005/REPA/CDR/30929J09.CDR





NOTE:
The general timeline illustrates the overall reach- and alternative-specific timeframe for the performance of construction and supporting activities in terms of construction years. In Reaches 5A and 5B, the river channel will be divided into a series of dry isolation cells for the performance of remedial activities. However, as there are a total of 176 dry removal cells in Reach 5A alone, it is not possible to illustrate the sequential performance of all associated activities in each of these cells in a similar fashion. The detailed schedule "blow-up" provided for Reach 5A represents an example of the "staggered" schedule of the mobilization and site preparation, sheeting installation, cell dewatering, excavation, backfill, and bank stabilization/restoration activities within Reaches 5A and 5B associated with the cyclical performance of these activities on a cell-specific basis.

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

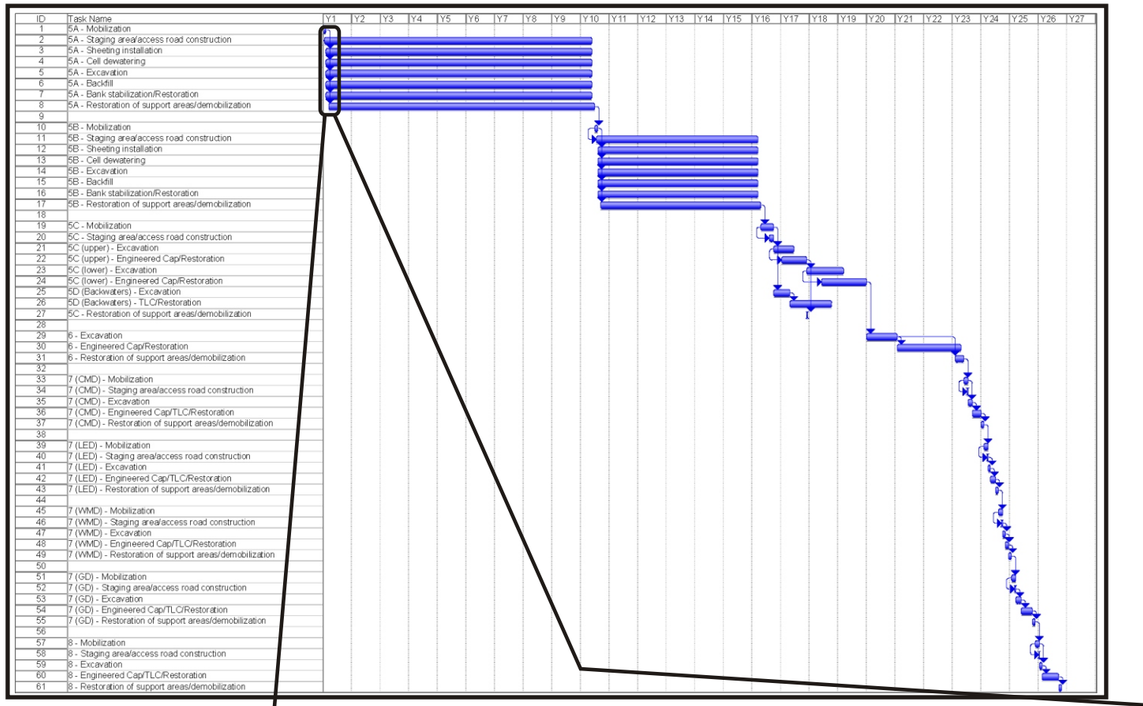
RESPONSE TO EPA INTERIM COMMENTS ON CMS REPORT

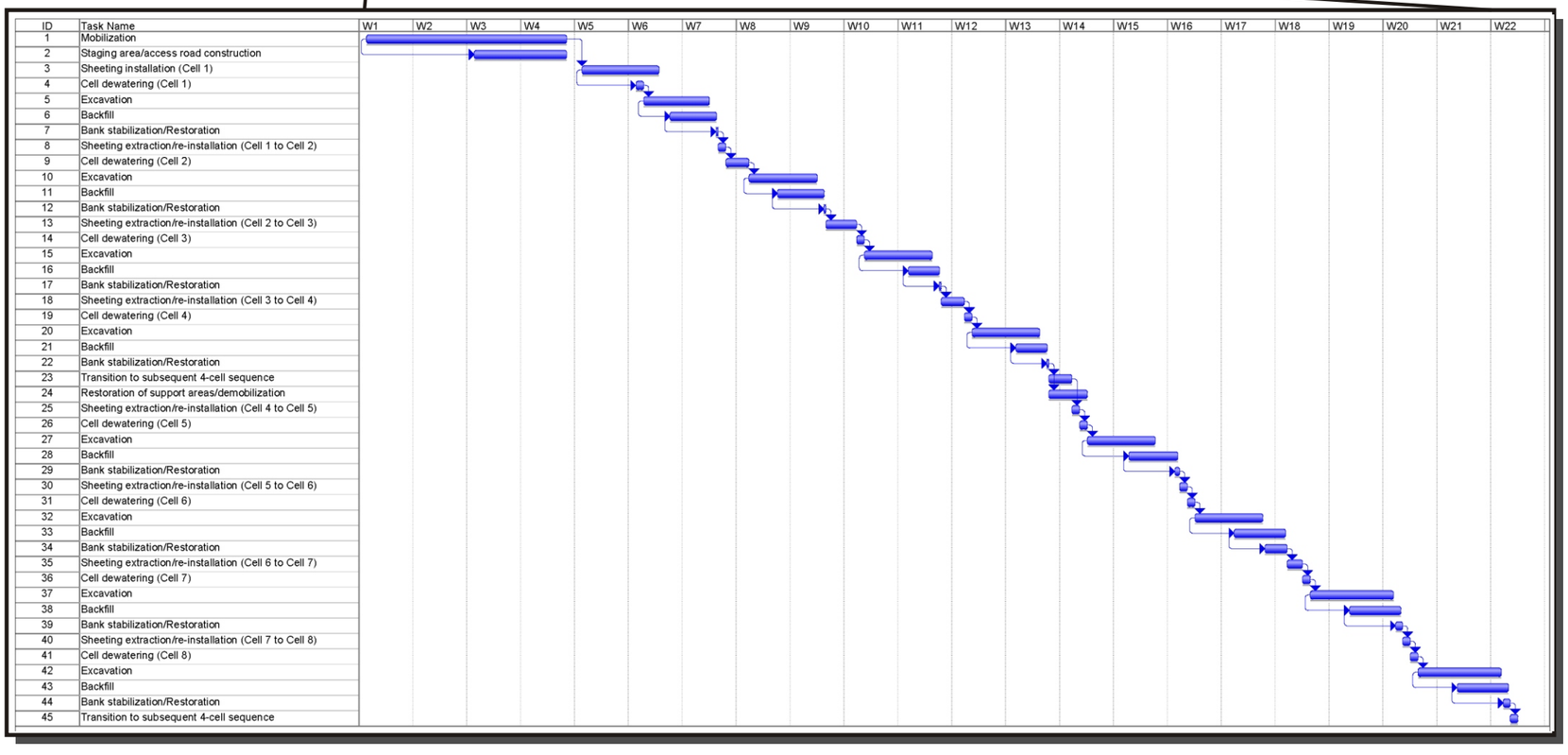
SED 6 DETAILED CONSTRUCTION SCHEDULE

ARCADIS

FIGURE
SC47-4

03/04/09 SYRACUSE-NY-141ENV-DJH
C:/B0030929/0000/0005/REPA/CDR/30929J10.CDR





NOTE:
The general timeline illustrates the overall reach- and alternative-specific timeframe for the performance of construction and supporting activities in terms of construction years. In Reaches 5A and 5B, the river channel will be divided into a series of dry isolation cells for the performance of remedial activities. However, as there are a total of 176 dry removal cells in Reach 5A alone, it is not possible to illustrate the sequential performance of all associated activities in each of these cells in a similar fashion. The detailed schedule "blow-up" provided for Reach 5A represents an example of the "staggered" schedule of the mobilization and site preparation, sheeting installation, cell dewatering, excavation, backfill, and bank stabilization/restoration activities within Reaches 5A and 5B associated with the cyclical performance of these activities on a cell-specific basis.

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

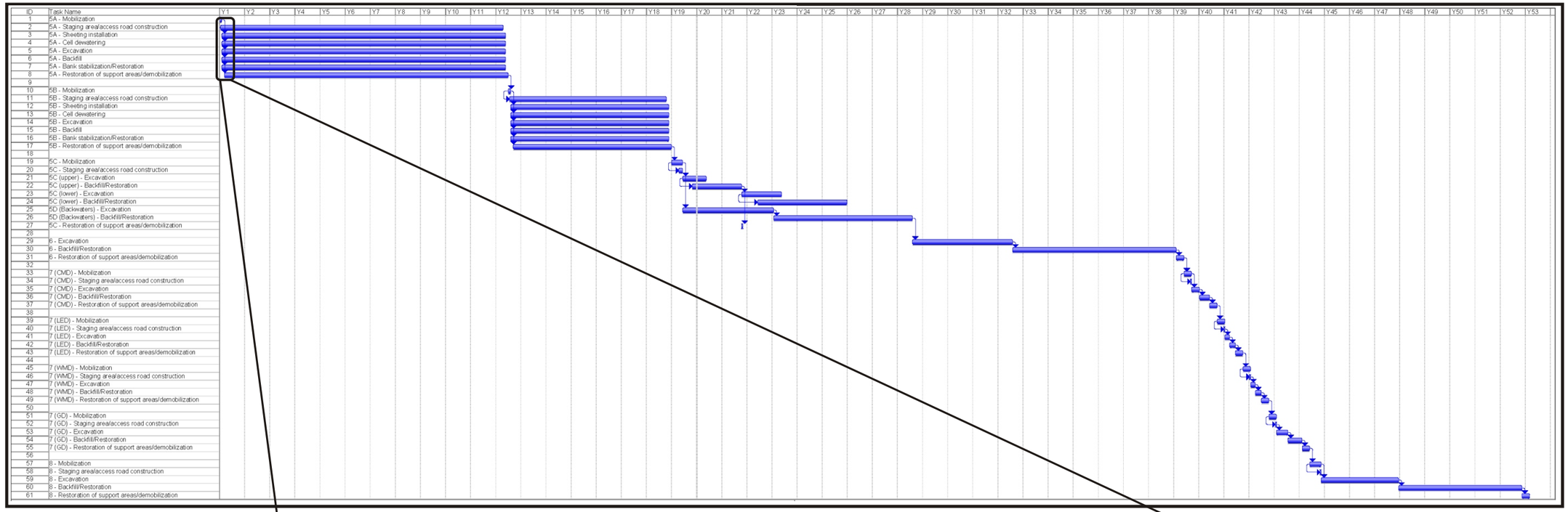
RESPONSE TO EPA INTERIM COMMENTS ON CMS REPORT

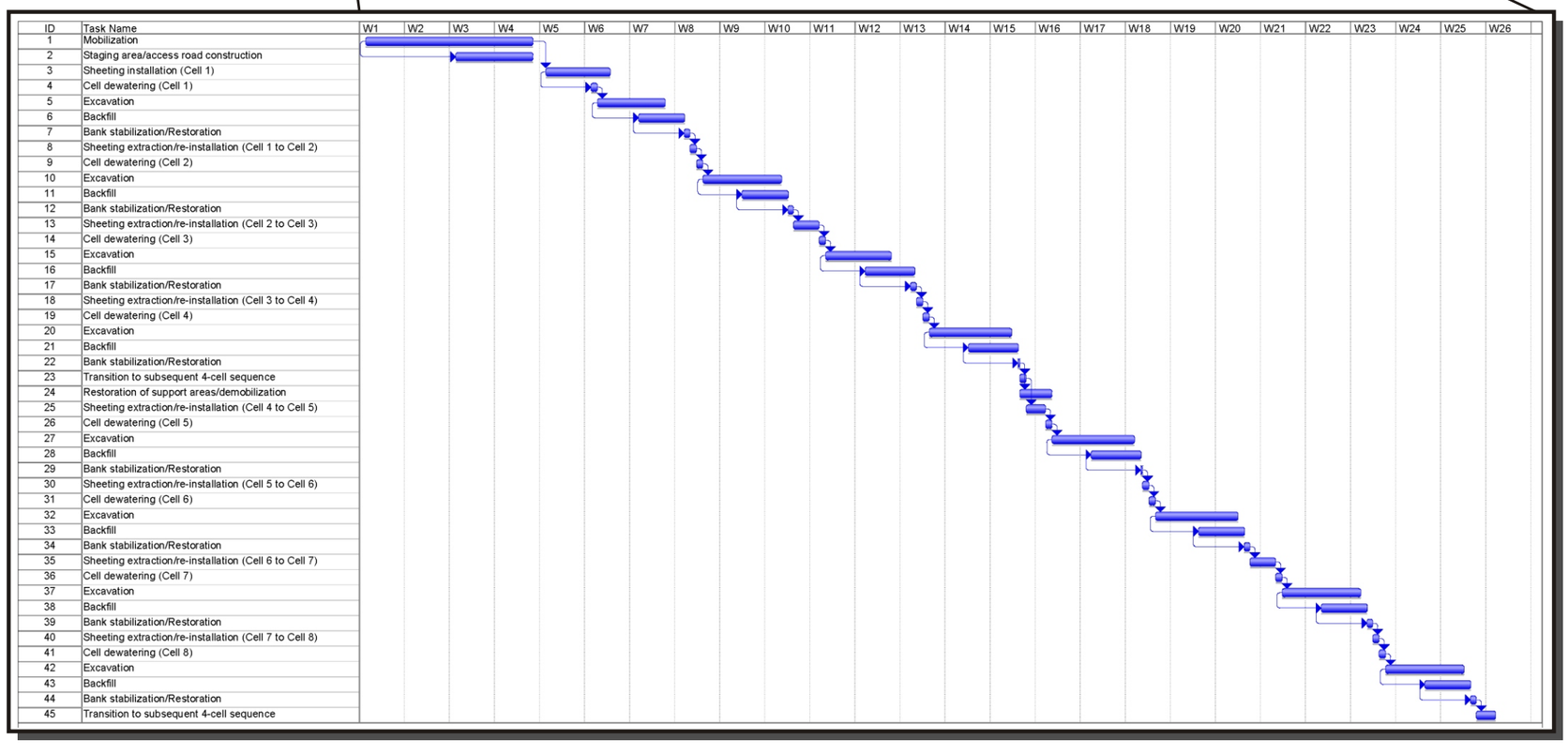
SED 7 DETAILED CONSTRUCTION SCHEDULE

ARCADIS

FIGURE
SC47-5

03/04/09 SYRACUSE-NY-1411ENV-DJH
C:/B0030929/0000/00005/REPA/CDR/30929J11.CDR





NOTE:
The general timeline illustrates the overall reach- and alternative-specific timeframe for the performance of construction and supporting activities in terms of construction years. In Reaches 5A and 5B, the river channel will be divided into a series of dry isolation cells for the performance of remedial activities. However, as there are a total of 176 dry removal cells in Reach 5A alone, it is not possible to illustrate the sequential performance of all associated activities in each of these cells in a similar fashion. The detailed schedule "blow-up" provided for Reach 5A represents an example of the "staggered" schedule of the mobilization and site preparation, sheeting installation, cell dewatering, excavation, backfill, and bank stabilization/restoration activities within Reaches 5A and 5B associated with the cyclical performance of these activities on a cell-specific basis.

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

RESPONSE TO EPA INTERIM COMMENTS ON CMS REPORT

SED 8 DETAILED CONSTRUCTION SCHEDULE

ARCADIS

FIGURE
SC47-6

03/04/09 SYRACUSE-NY-141ENV-DJH
C:/B0030929/0000/00005/REPA/CDR/30929J12.CDR

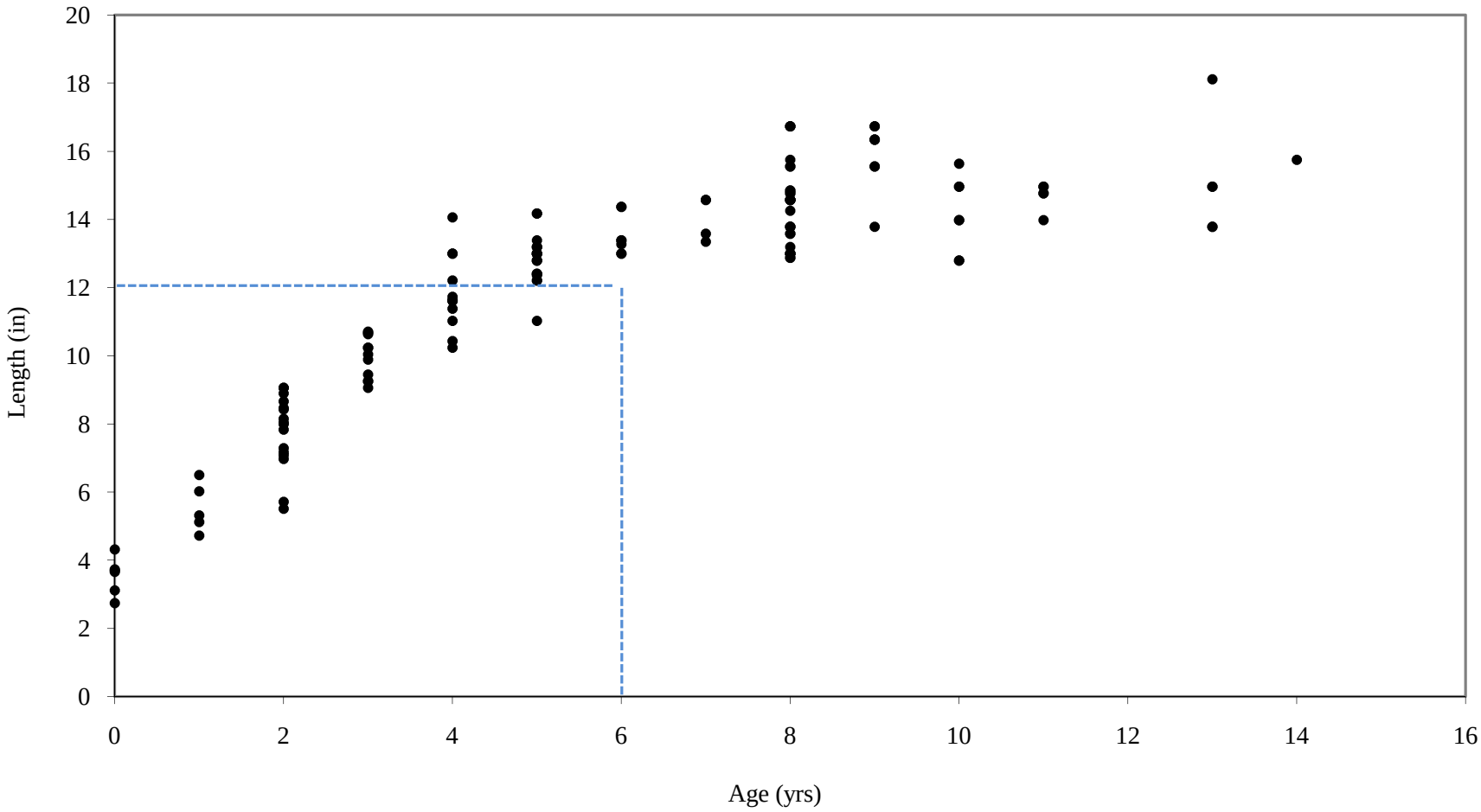


Figure SC57-1. Age versus length of largemouth bass collected by USEPA in 1998/99.

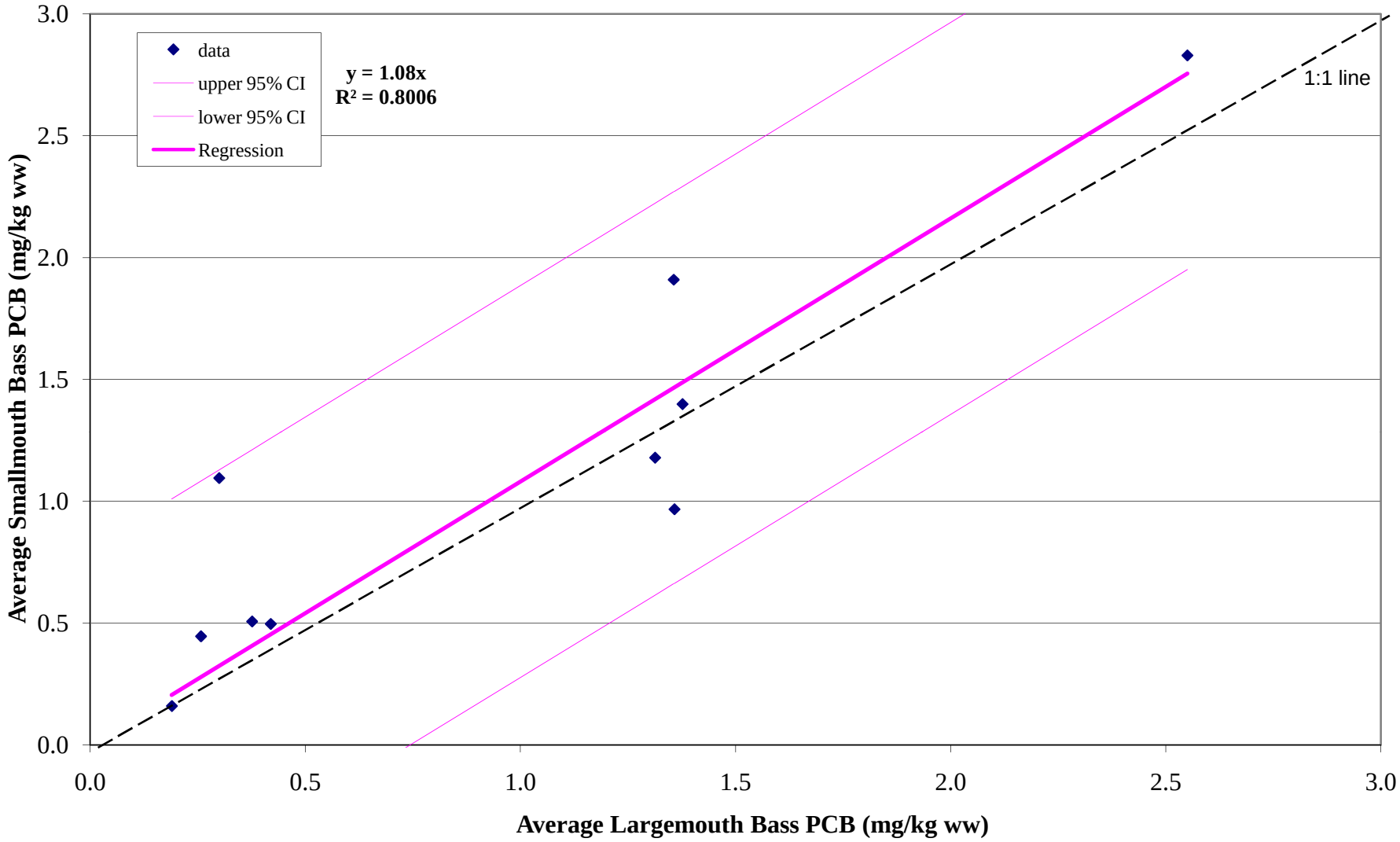


Figure SC59-1. Relationship between PCB concentrations in largemouth bass and smallmouth bass fillet data from the Connecticut Reaches of the Housatonic River.

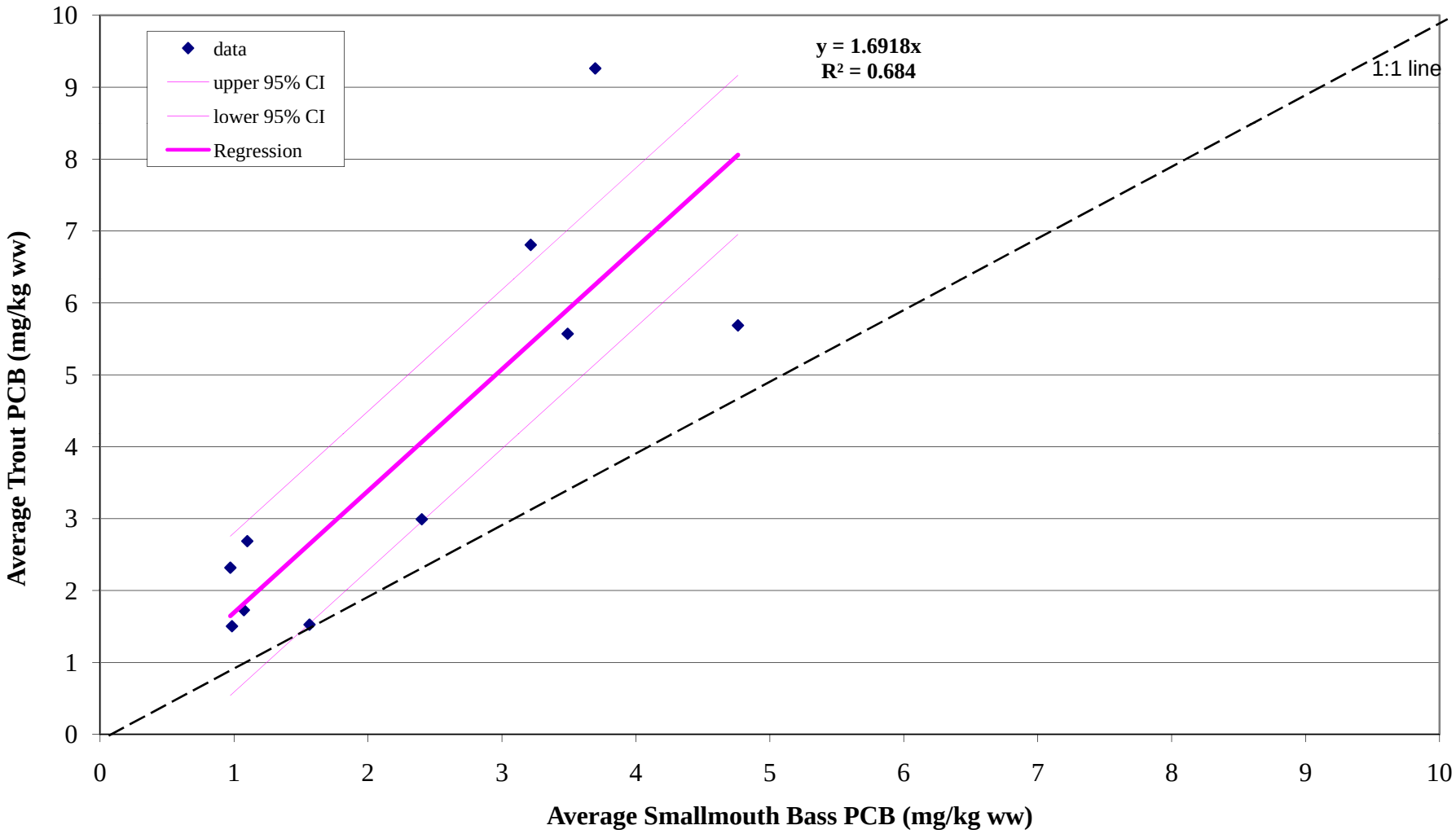


Figure SC59-2. Relationship between PCB concentrations in smallmouth bass and trout fillet data from Cornwall, CT Reach of the Housatonic River

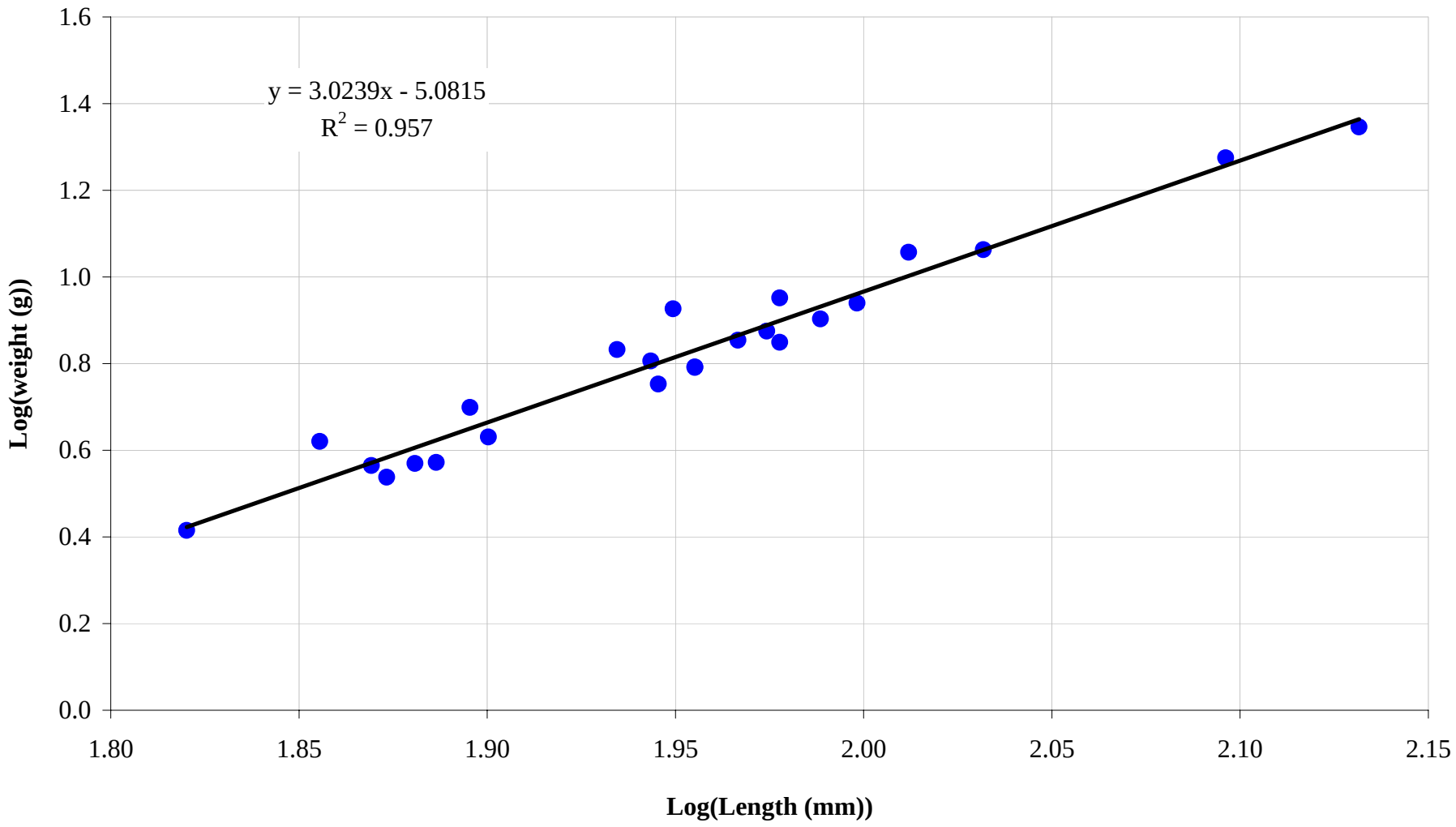
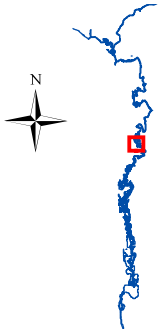


Figure SC60-1. Length-weight relationship in cyprinids from Reaches 5 and 6.

Z:\GENcms\MODEL\FDCHN\Analysis\IMPG\Length_Weight_Relationships\lip_wgt_age_Cyprinids.xls(chart_for_CMS_Comment_SC60)

LOCATOR MAP



SCALE

0 150 300 Feet

LEGEND

- Heavily Used Subareas
- Trails/Roads
- 1 mg/kg PCB Isopleth
- Exposure Areas
- Frequent-Use EAs within 1 mg/kg PCB Isopleth
- Difficult Access Areas*

No heavily used subarea(s) defined for EA 35a; trails/roads within EA boundary located outside 1 mg/kg PCB isopleth.

Notes:
**Difficult access areas from HHRA, clipped by frequent-use EAs.*
Aerial photos in 0.5m resolution downloaded from MassGIS (2005).

Figure SC95-1.

Map of Heavily Used Subareas in Reaches 5 & 6:
EA 35a

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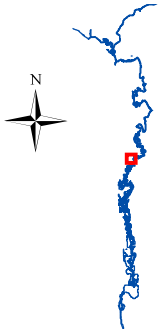
LOCATOR MAP



SCALE

0 100 200 Feet

LEGEND

- Heavily Used Subareas
- Trails/Roads
- 1 mg/kg PCB Isopleth
- Exposure Areas
- Frequent-Use EAs within 1 mg/kg PCB Isopleth
- Difficult Access Areas*

Notes:
**Difficult access areas from HHRA, clipped by frequent-use EAs.*
Aerial photos in 0.5m resolution downloaded from MassGIS (2005).

Figure SC95-2.

Map of Heavily Used Subareas in Reaches 5 & 6:
EA 37b

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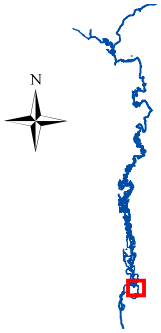
LOCATOR MAP



SCALE

0 150 300 Feet

LEGEND

- Heavily Used Subareas
- Trails/Roads
- 1 mg/kg PCB Isopleth
- Exposure Areas
- Frequent-Use EAs within 1 mg/kg PCB Isopleth
- Difficult Access Areas*

No heavily used subarea(s) defined for EA 57; no trails/roads located within EA boundary.

Notes:
**Difficult access areas from HHRA, clipped by frequent-use EAs.*
Aerial photos in 0.5m resolution downloaded from MassGIS (2005).

Figure SC95-3.

Map of Heavily Used Subareas in Reaches 5 & 6:
EA 57

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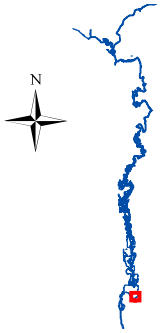
LOCATOR MAP



SCALE

0 75 150

Feet

LEGEND

- Heavily Used Subareas
- Trails/Roads
- 1 mg/kg PCB Isopleth
- Exposure Areas
- Frequent-Use EAs within 1 mg/kg PCB Isopleth
- Difficult Access Areas*

Notes:
**Difficult access areas from HHRA, clipped by frequent-use EAs.*
Aerial photos in 0.5m resolution downloaded from MassGIS (2005).

Figure SC95-4.

Map of Heavily Used Subareas in Reaches 5 & 6:
EA 58

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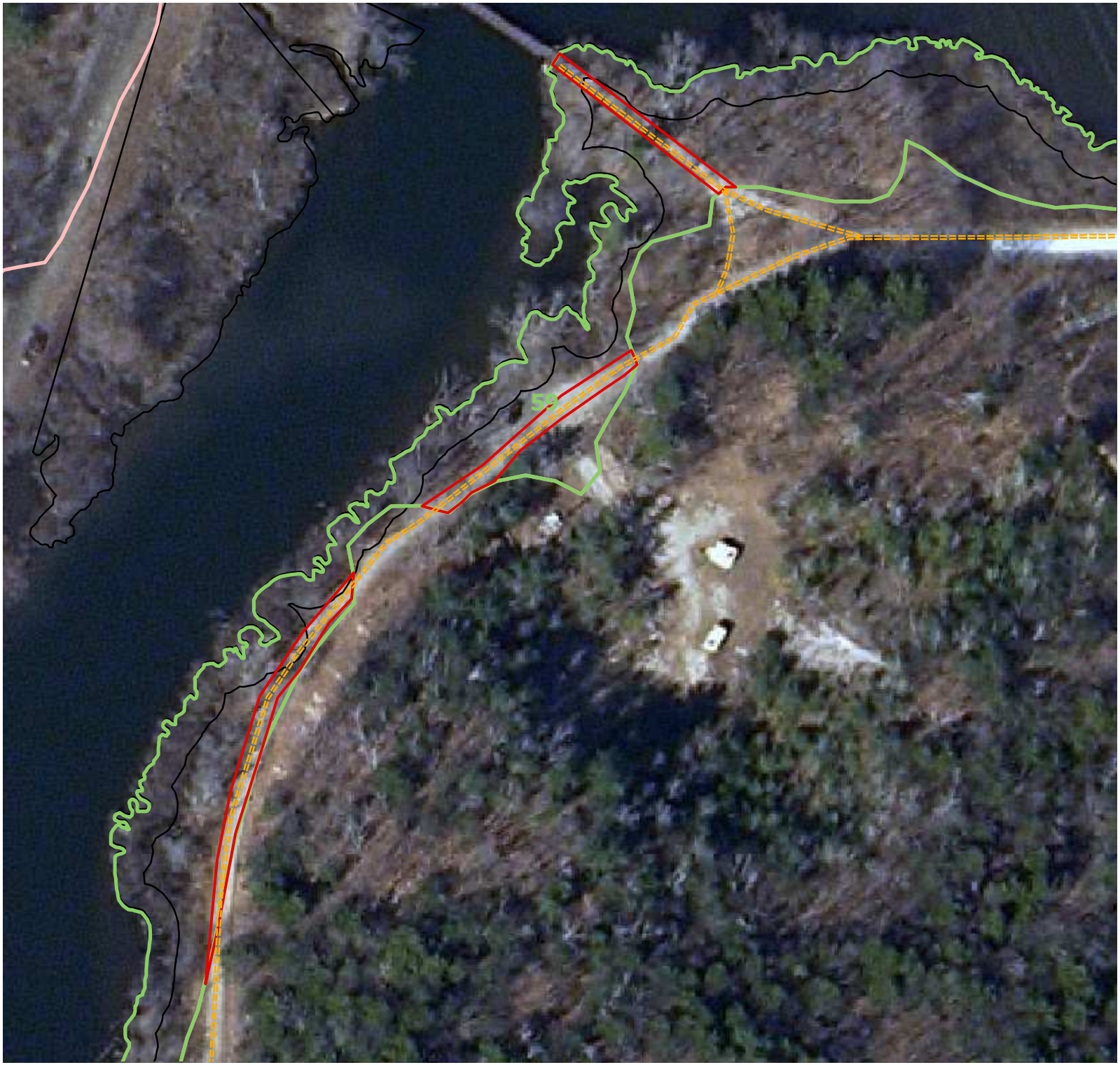
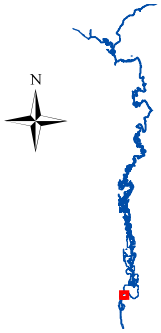


LOCATOR MAP



SCALE

0 75 150 Feet

LEGEND

- Heavily Used Subareas
- Trails/Roads
- 1 mg/kg PCB Isopleth
- Exposure Areas
- Frequent-Use EAs within 1 mg/kg PCB Isopleth
- Difficult Access Areas*

Notes:
**Difficult access areas from HHRA, clipped by frequent-use EAs.*
Aerial photos in 0.5m resolution downloaded from MassGIS (2005).

Figure SC95-5.

Map of Heavily Used Subareas in Reaches 5 & 6:
EA 59

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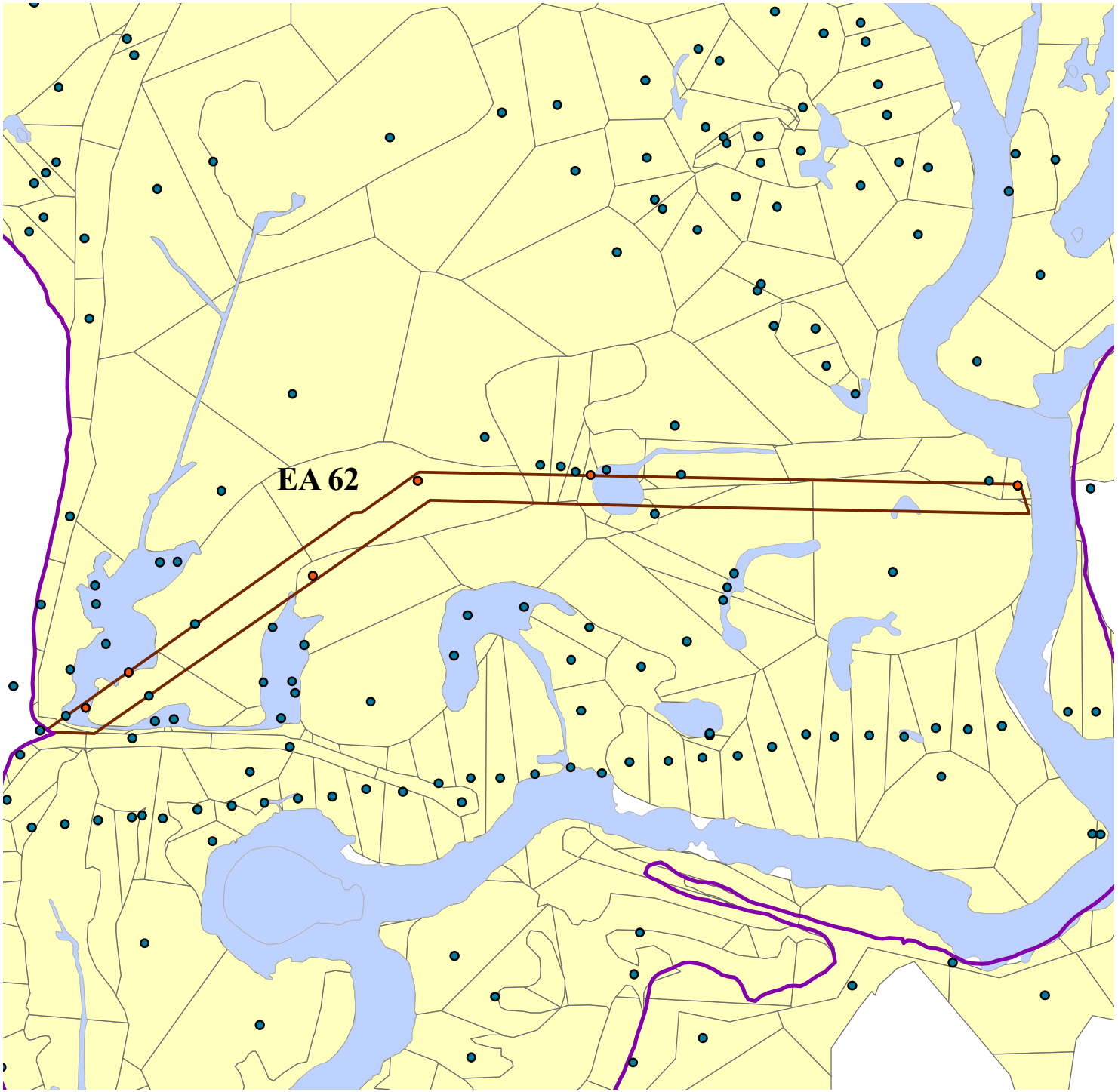
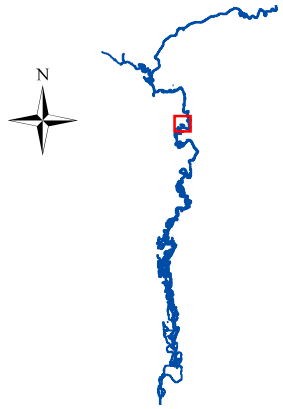


LOCATOR MAP



SCALE

300 150 0 Feet

LEGEND

- 0-6" PCB Sampling Locations within EA 62
- 0-6" PCB Sampling Locations
- 1mg/kg PCB Isopleth
- HHRA Exposure Area
- Housatonic River
- PCB Thiessen Polygons (0-6")

Figure SC98-1. Top 6-inch PCB sampling locations and associated Thiessen polygons near EA 62.

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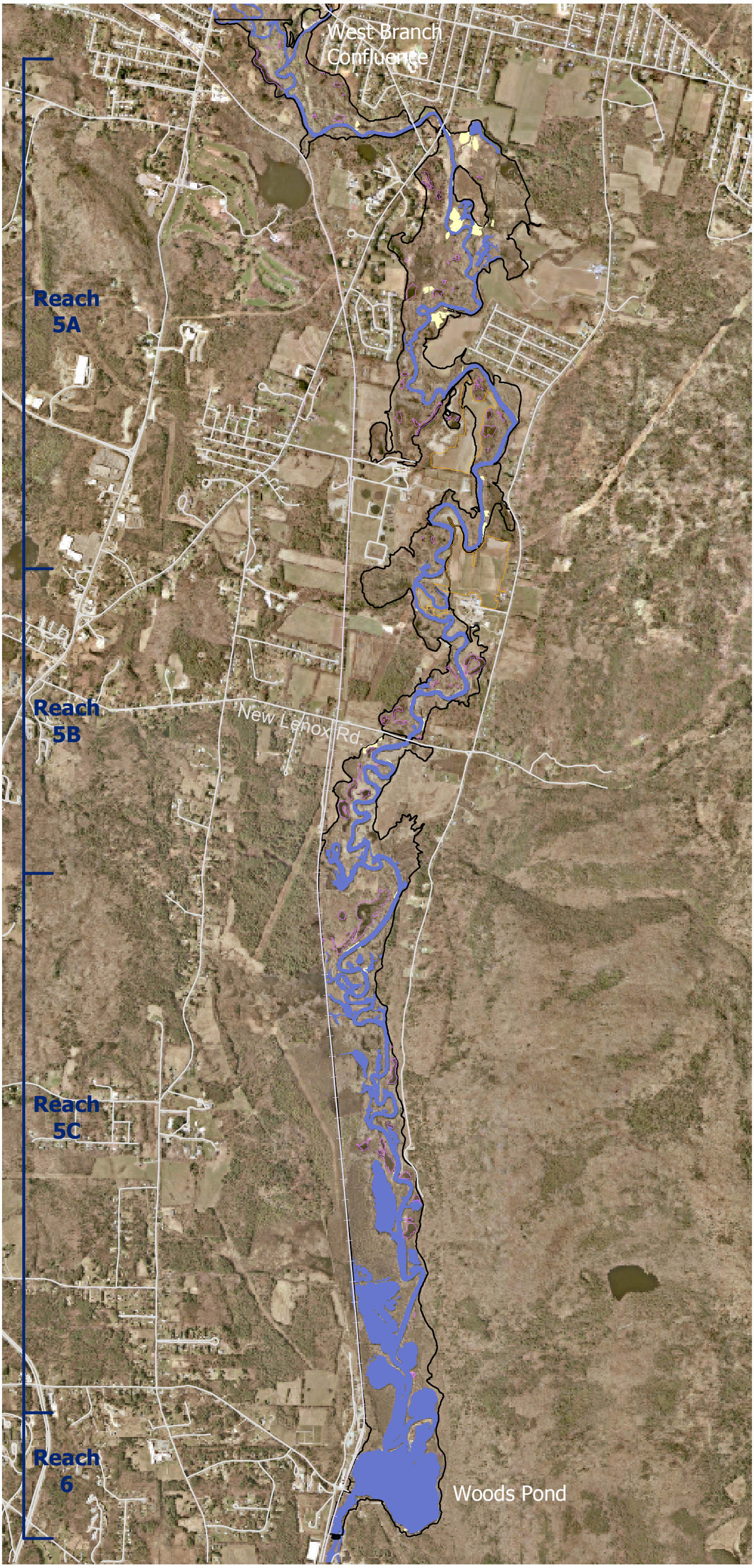

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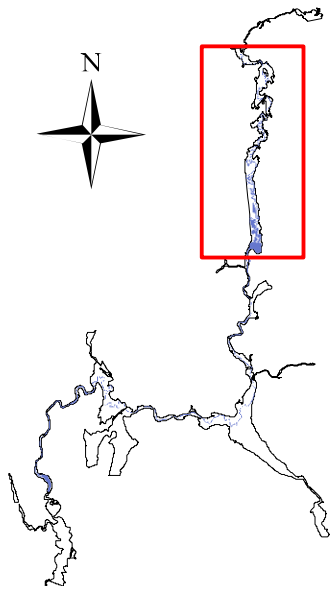

SCALE

Miles

0 0.5

LEGEND

Removal Types

- Direct Contact
- Housatonic River
- Vernal Pools
- Agricultural Areas
- 1 mg/kg PCB Iso (R 5-6); 100-yr FP (R 7-8)
- Housatonic Railroad
- Major Roads
- Dams

Figure SC98-2a. Floodplain Alternative 2 (FP 2). Remediation to achieve upper-bound health-based RME IMPGs (based on cancer risk of 10^{-4} or non-cancer).

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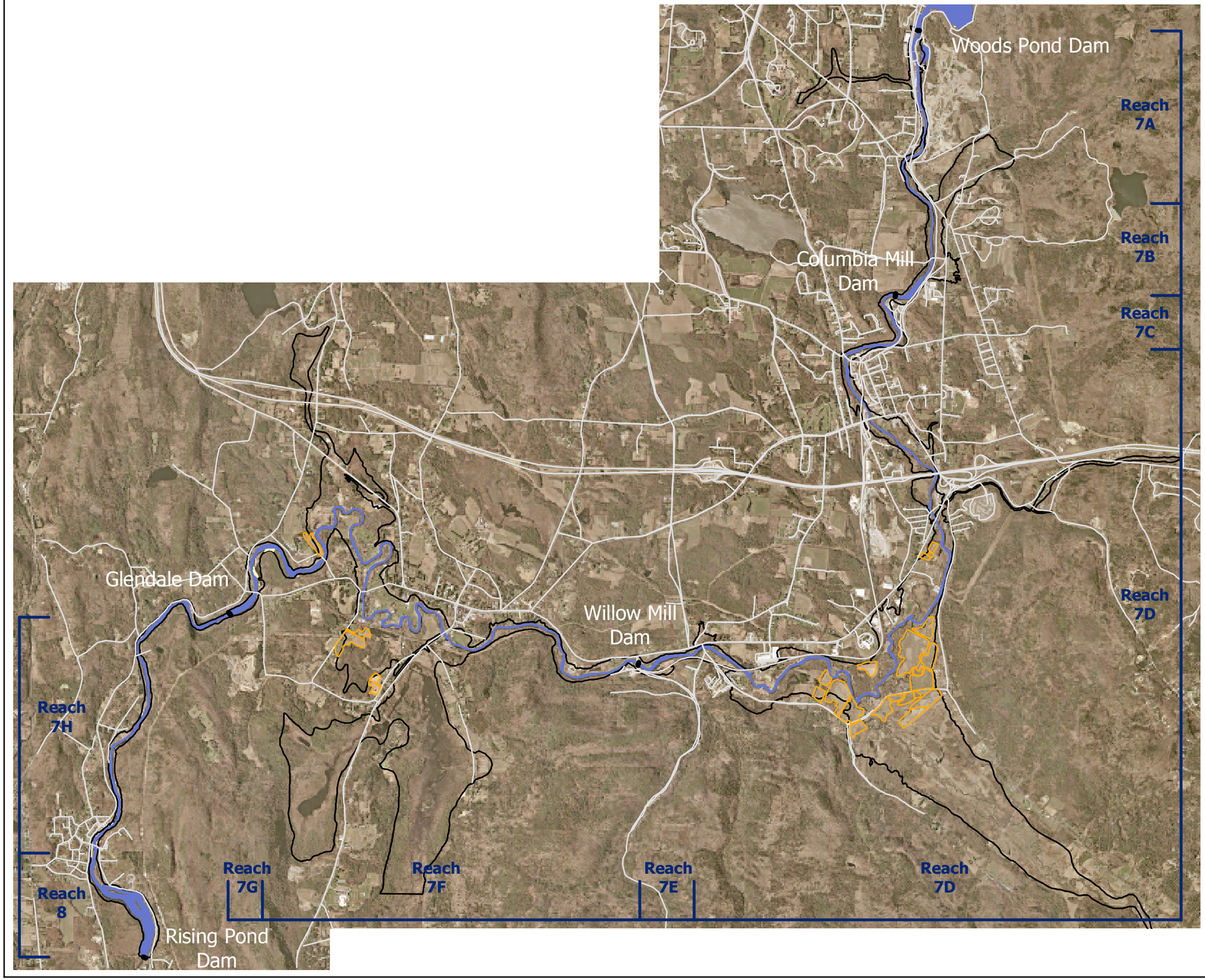

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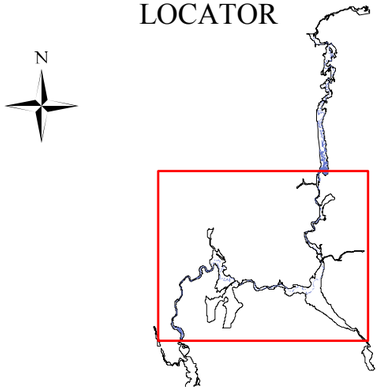

SCALE

0 0.5 1 2 Miles

LEGEND

Removal Types

- Direct Contact
- Housatonic River
- Vernal Pools
- Agricultural Areas
- 1 mg/kg PCB Iso (R 5-6); 100-yr FP (R 7-8)
- Housatonic Railroad
- Major Roads
- Dams

Figure SC98-2b. Floodplain Alternative 2 (FP 2). Remediation to achieve upper-bound health-based RME IMPGs (based on cancer risk of 10^{-4} or non-cancer).

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West Branch Confluence

Reach 5A

Reach 5B

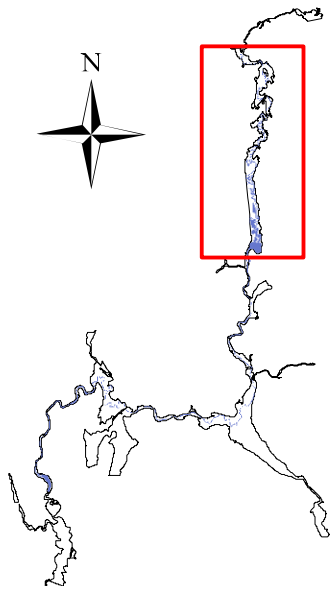
New Lenox Rd

Reach 5C

Reach 6

Woods Pond

LOCATOR



SCALE

Miles

0 0.5

LEGEND

Removal Types

- Heavily Used Subareas
- Direct Contact
- Amphibian
- Piscivorous Mammals*

- Housatonic River
- Vernal Pools
- Agricultural Areas
- 1 mg/kg PCB Iso (R 5-6); 100-yr FP (R 7-8)
- Housatonic Railroad
- Major Roads
- Dams

** Floodplain soil removal shown for piscivorous mammal corresponds to a sediment target level of 1 mg/kg.*

Figure SC98-3a. Floodplain Alternative 3 (FP 3). Remediation to achieve mid-range (frequently used and agricultural areas) and upper-bound (other human-use areas) health-based RME IMPGs (based on 10^{-5},10^{-4} cancer risk, or non-cancer), and upper-bound IMPGs for ecological receptors.

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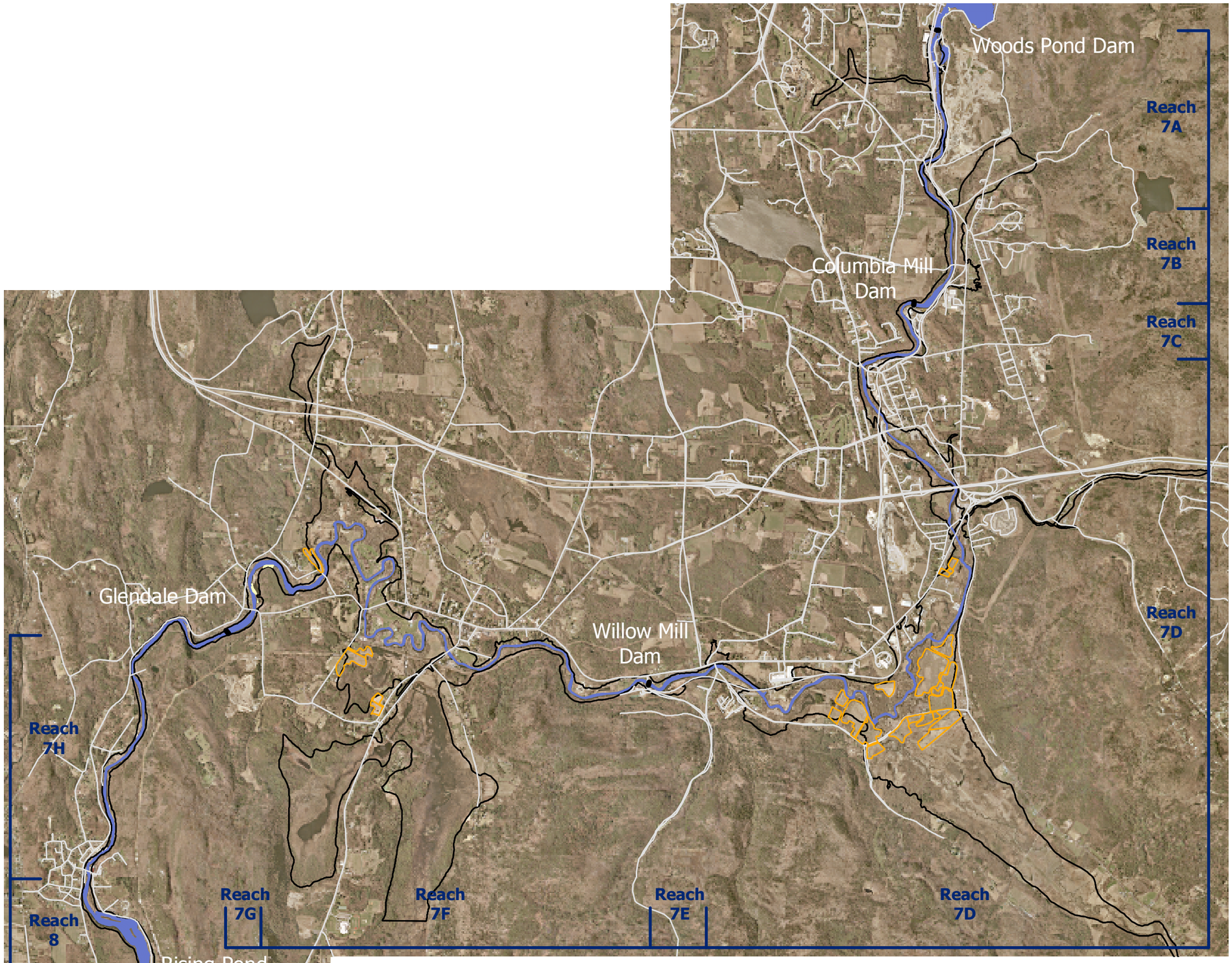

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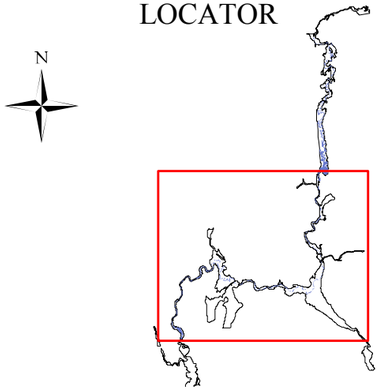

SCALE

0 0.5 1 2 Miles

LEGEND

Removal Types

- Heavily Used Subareas
- Direct Contact
- Amphibian
- Piscivorous Mammals*

- Housatonic River
- Vernal Pools
- Agricultural Areas
- 1 mg/kg PCB Iso (R 5-6); 100-yr FP (R 7-8)
- Housatonic Railroad
- Major Roads
- Dams

** Floodplain soil removal shown for piscivorous mammal corresponds to a sediment target level of 1 mg/kg.*

Figure SC98-3b. Floodplain Alternative 3 (FP 3). Remediation to achieve mid-range (frequently used and agricultural areas) and upper-bound (other human-use areas) health-based RME IMPGs (based on 10^{-5}, 10^{-4} cancer risk, or non-cancer), and upper-bound IMPGs for ecological receptors.

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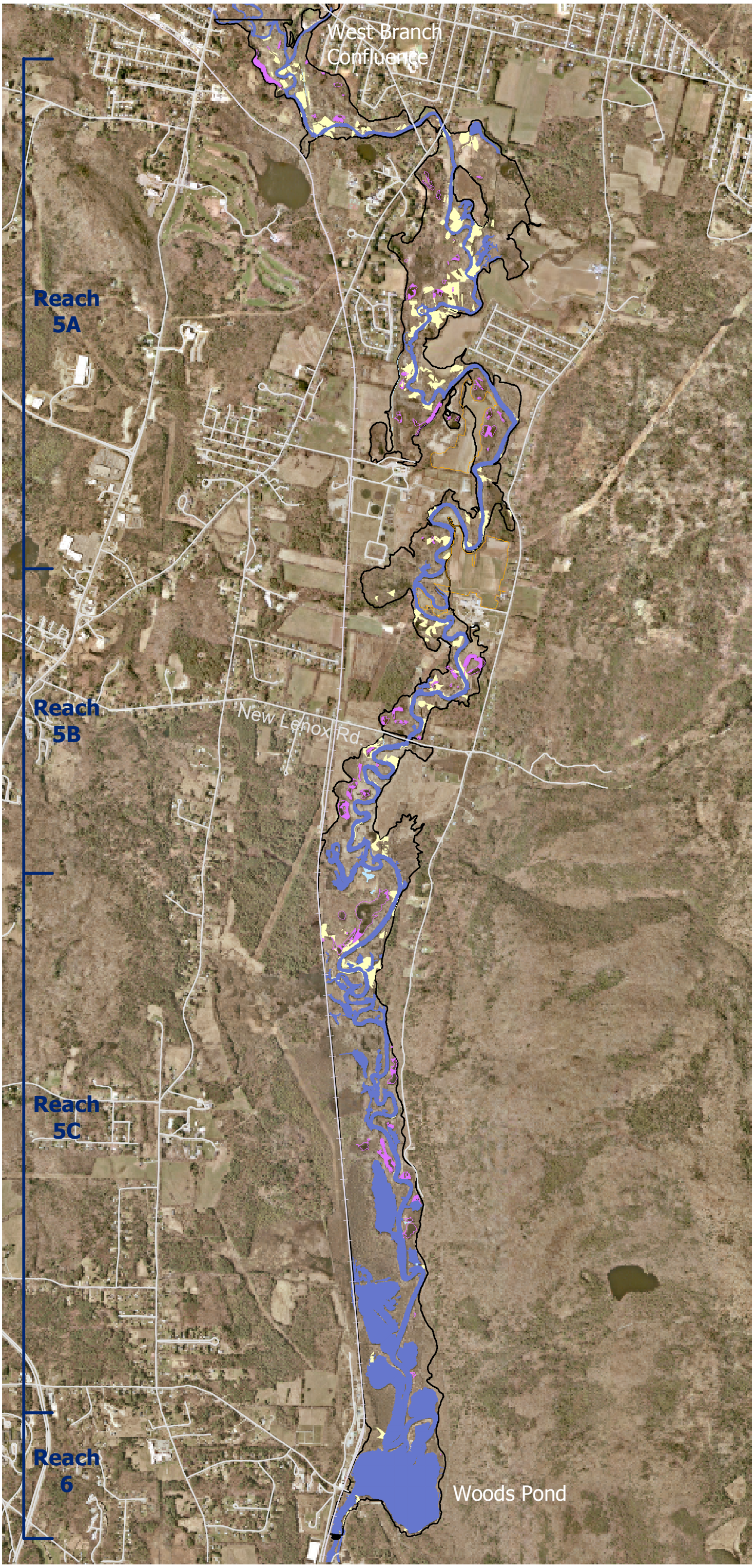

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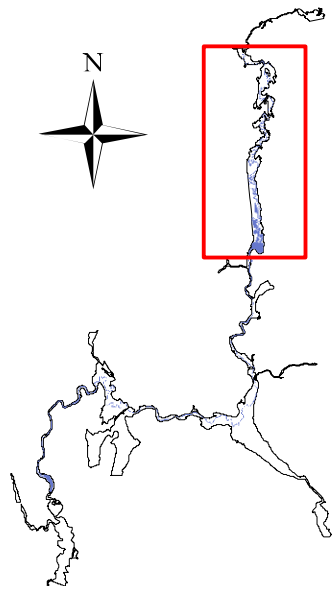

SCALE

Miles

0 0.5

LEGEND

Removal Types

- Heavily Used Subareas
- Direct Contact
- Amphibian
- Housatonic River
- Vernal Pools
- Agricultural Areas
- 1 mg/kg PCB Iso (R 5-6); 100-yr FP (R 7-8)
- Housatonic Railroad
- Major Roads
- Dams

Figure SC98-4a. Floodplain Alternative 4 (FP 4). Remediation to achieve mid-range health-based RME IMPGs (based on 10^{-5} cancer risk or non-cancer) and upper-bound IMPGs for ecological receptors.

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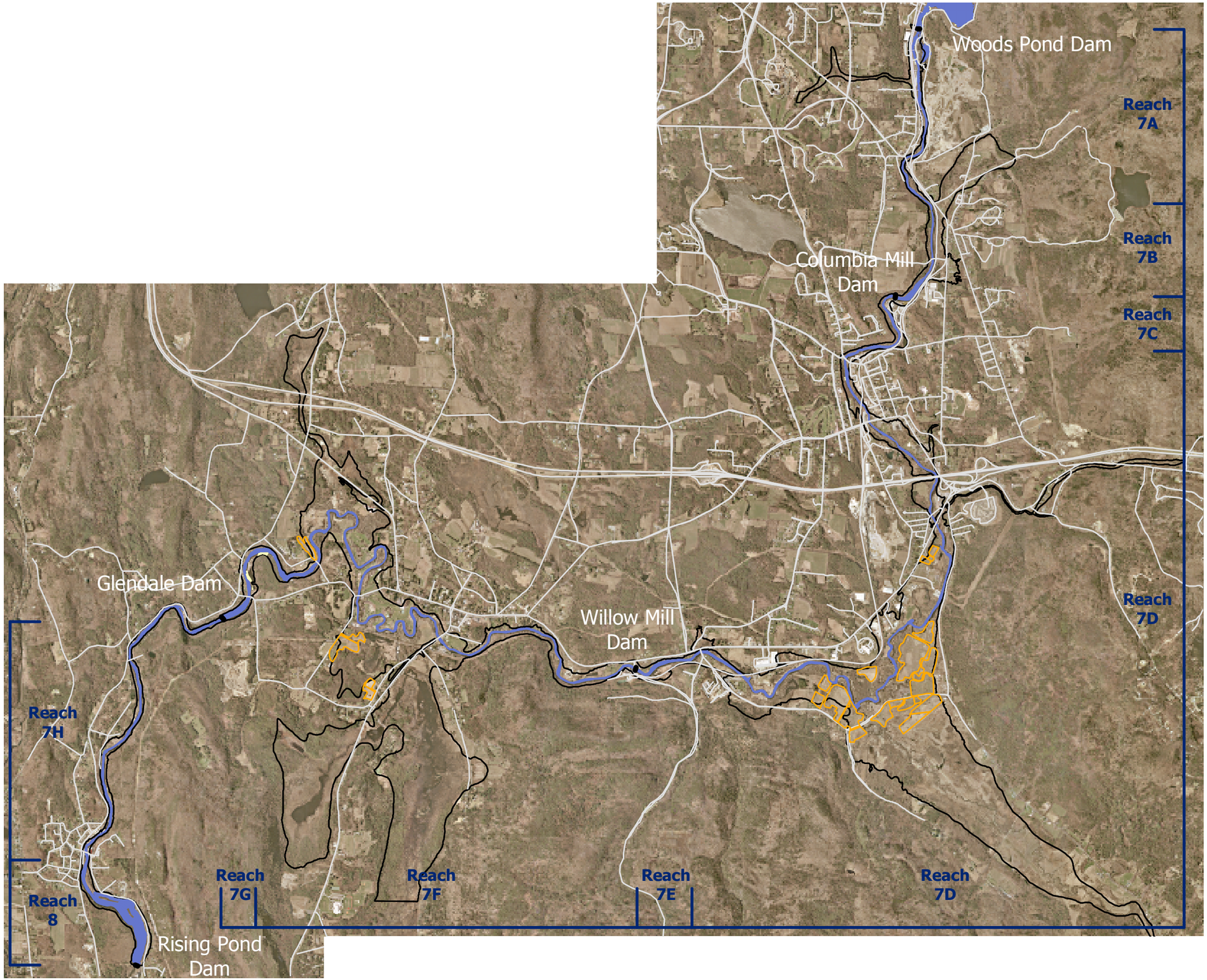
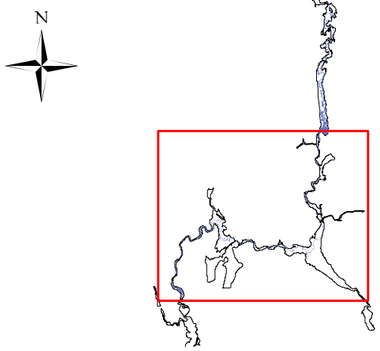


LOCATOR



SCALE

0 0.5 1 2 Miles

LEGEND

Removal Types

- Heavily Used Subareas
- Direct Contact
- Amphibian
- Housatonic River
- Vernal Pools
- Agricultural Areas
- 1 mg/kg PCB Iso (R 5-6); 100-yr FP (R 7-8)
- Housatonic Railroad
- Major Roads
- Dams

Figure SC98-4b. Floodplain Alternative 4 (FP 4). Remediation to achieve mid-range health-based RME IMPGs (based on 10^{-5} cancer risk or non-cancer) and upper-bound IMPGs for ecological receptors.

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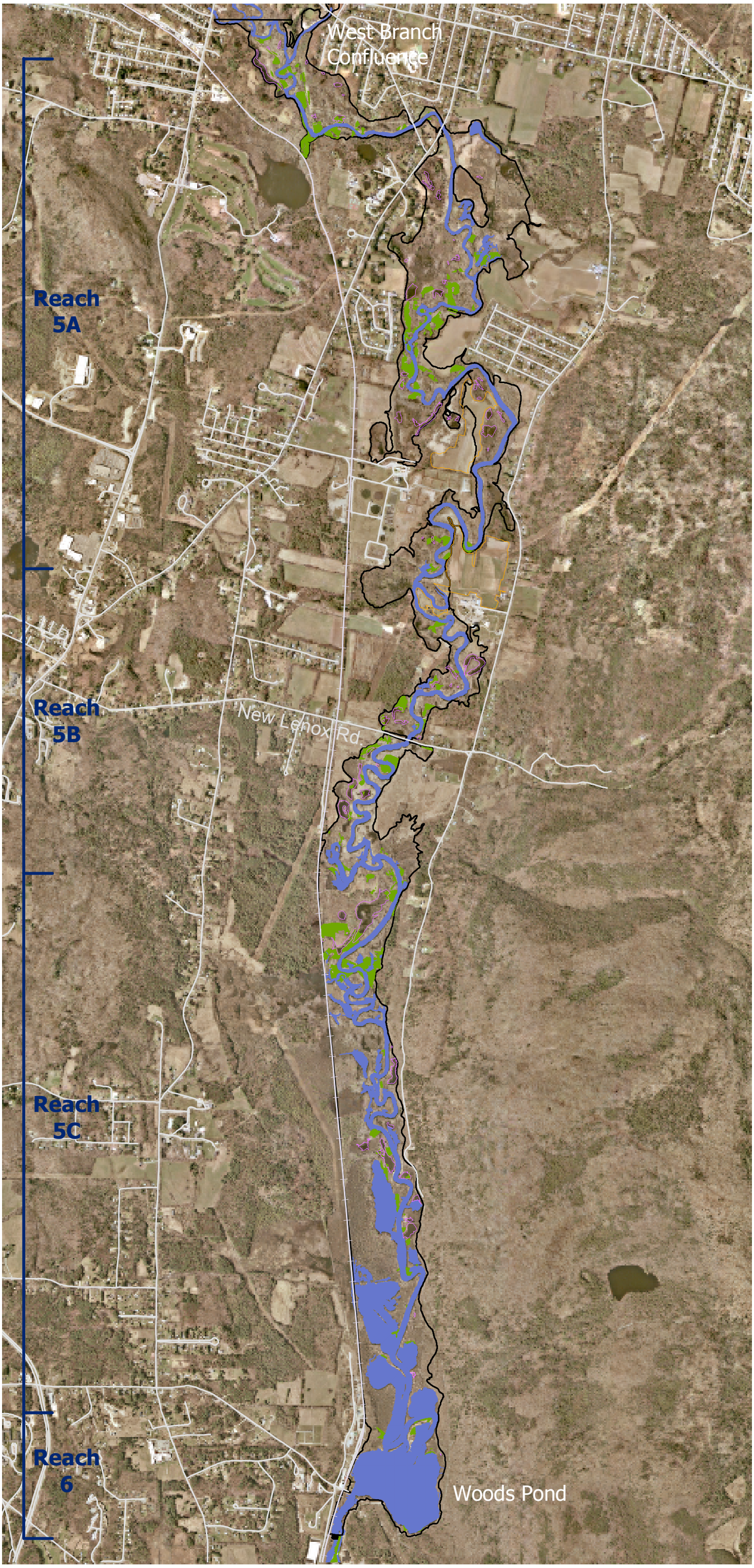

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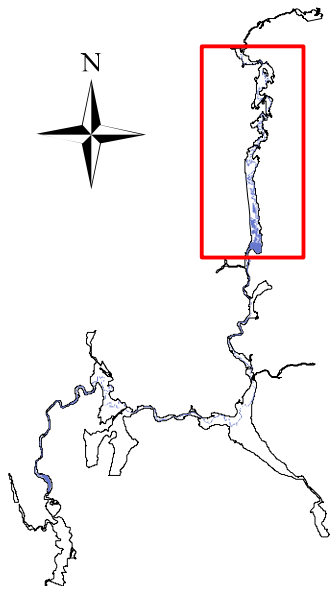

SCALE

Miles

0 0.5

LEGEND

Removal Types

- Exceeds 50 mg/kg PCBs
- Housatonic River
- Vernal Pools
- Agricultural Areas
- 1 mg/kg PCB Iso (R 5-6); 100-yr FP (R 7-8)
- Housatonic Railroad
- Major Roads
- Dams

Figure SC98-5a. Floodplain Alternative 5 (FP 5). Remediation to address PCBs greater than 50 mg/kg.

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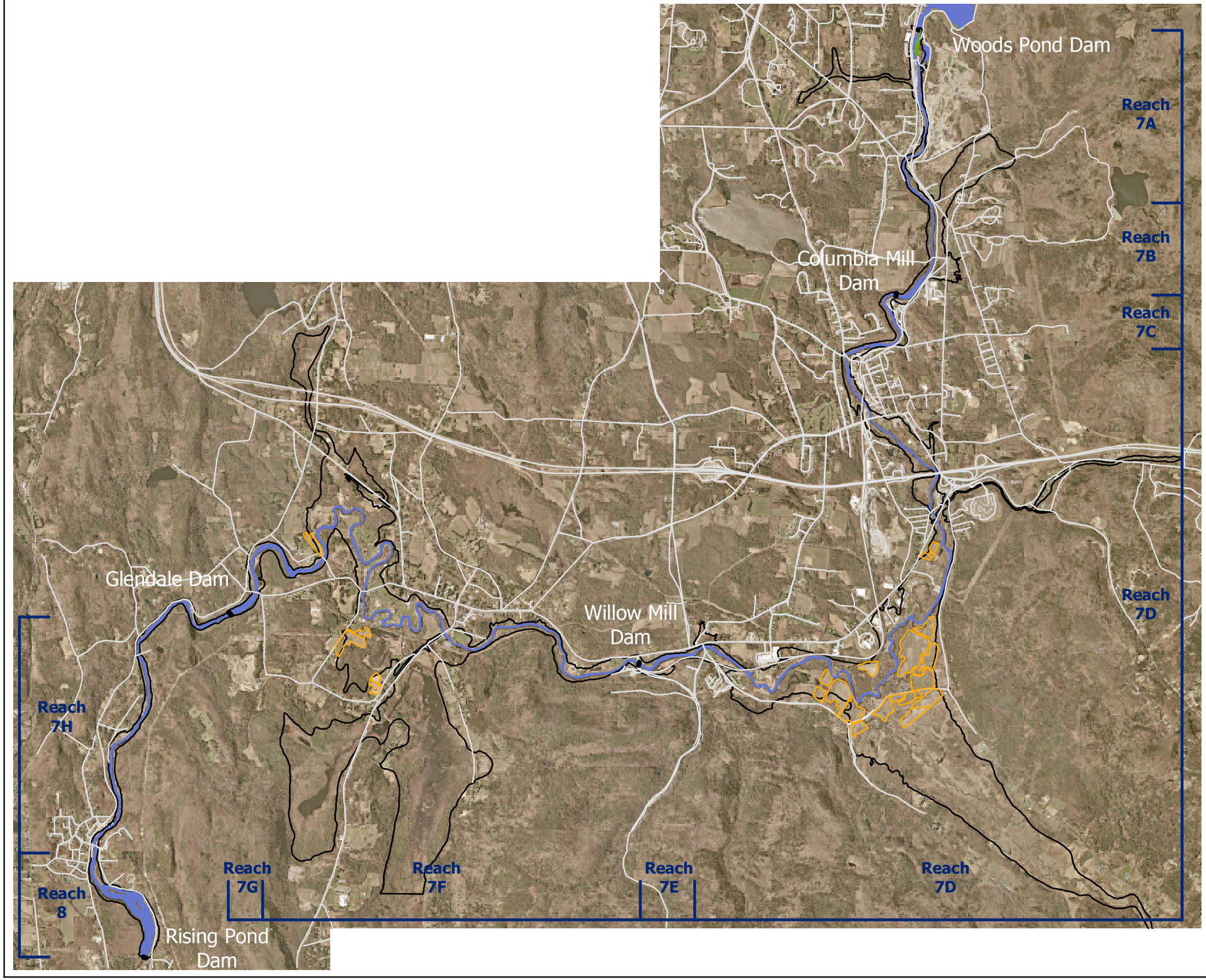

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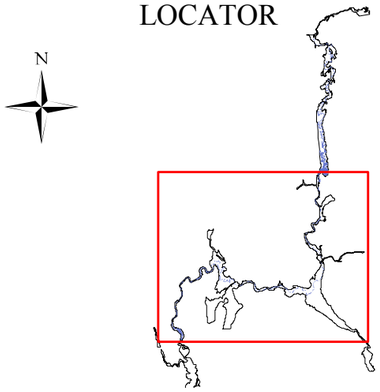

SCALE

0 0.5 1 2 Miles

LEGEND

Removal Types

- Exceeds 50 mg/kg PCBs
- Housatonic River
- Vernal Pools
- Agricultural Areas
- 1 mg/kg PCB Iso (R 5-6); 100-yr FP (R 7-8)
- Housatonic Railroad
- Major Roads
- Dams

Figure SC98-5b. Floodplain Alternative 5 (FP 5). Remediation to address PCBs greater than 50 mg/kg.

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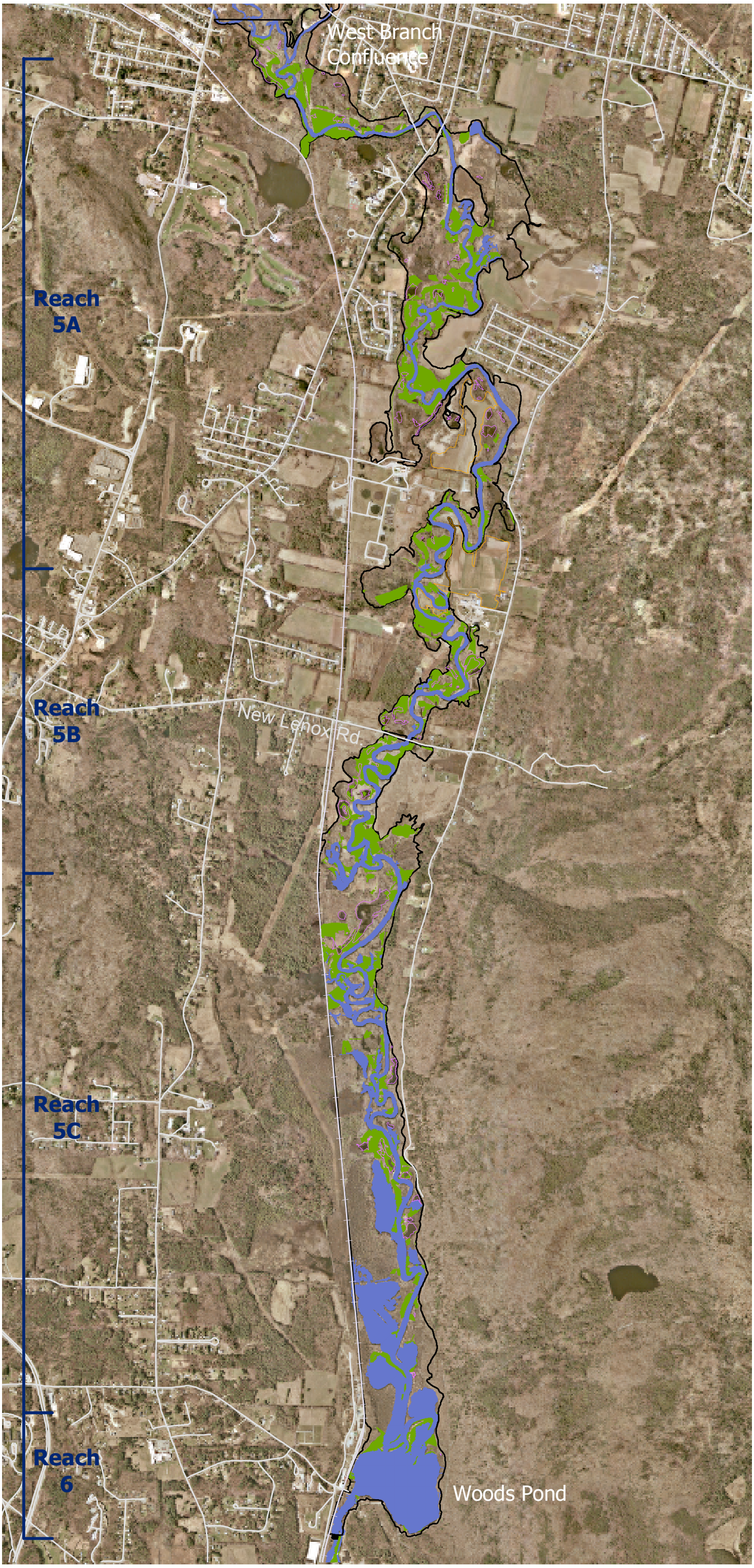

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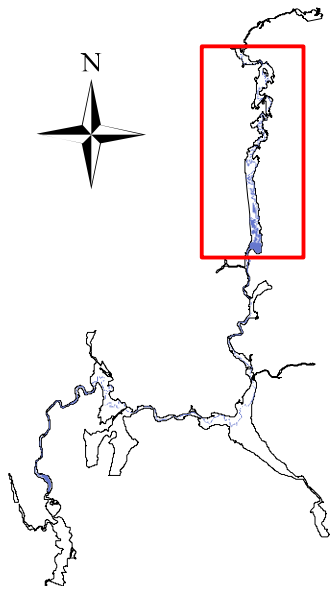

SCALE

Miles

0 0.5

LEGEND

Removal Types

- Exceeds 25 mg/kg PCBs
- Housatonic River
- Vernal Pools
- Agricultural Areas
- 1 mg/kg PCB Iso (R 5-6); 100-yr FP (R 7-8)
- Housatonic Railroad
- Major Roads
- Dams

Figure SC98-6a. Floodplain Alternative 6 (FP 6). Remediation to address PCBs greater than 25 mg/kg.

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Woods Pond Dam

Columbia Mill Dam

Willow Mill Dam

Glendale Dam

Rising Pond Dam

Reach 7A

Reach 7B

Reach 7C

Reach 7D

Reach 7D

Reach 7E

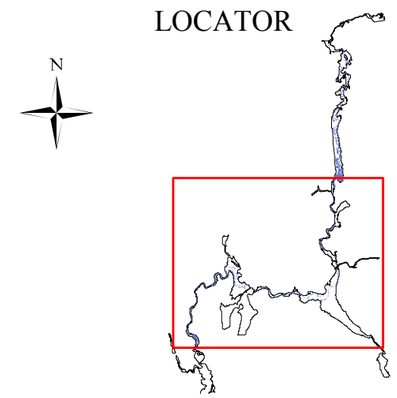
Reach 7F

Reach 7G

Reach 7H

Reach 8

LOCATOR



SCALE

0 0.5 1 2 Miles

LEGEND

Removal Types

- Exceeds 25 mg/kg PCBs
- Housatonic River
- Vernal Pools
- Agricultural Areas
- 1 mg/kg PCB Iso (R 5-6); 100-yr FP (R 7-8)
- Housatonic Railroad
- Major Roads
- Dams

Figure SC98-6b. Floodplain Alternative 6 (FP 6). Remediation to address PCBs greater than 25 mg/kg.

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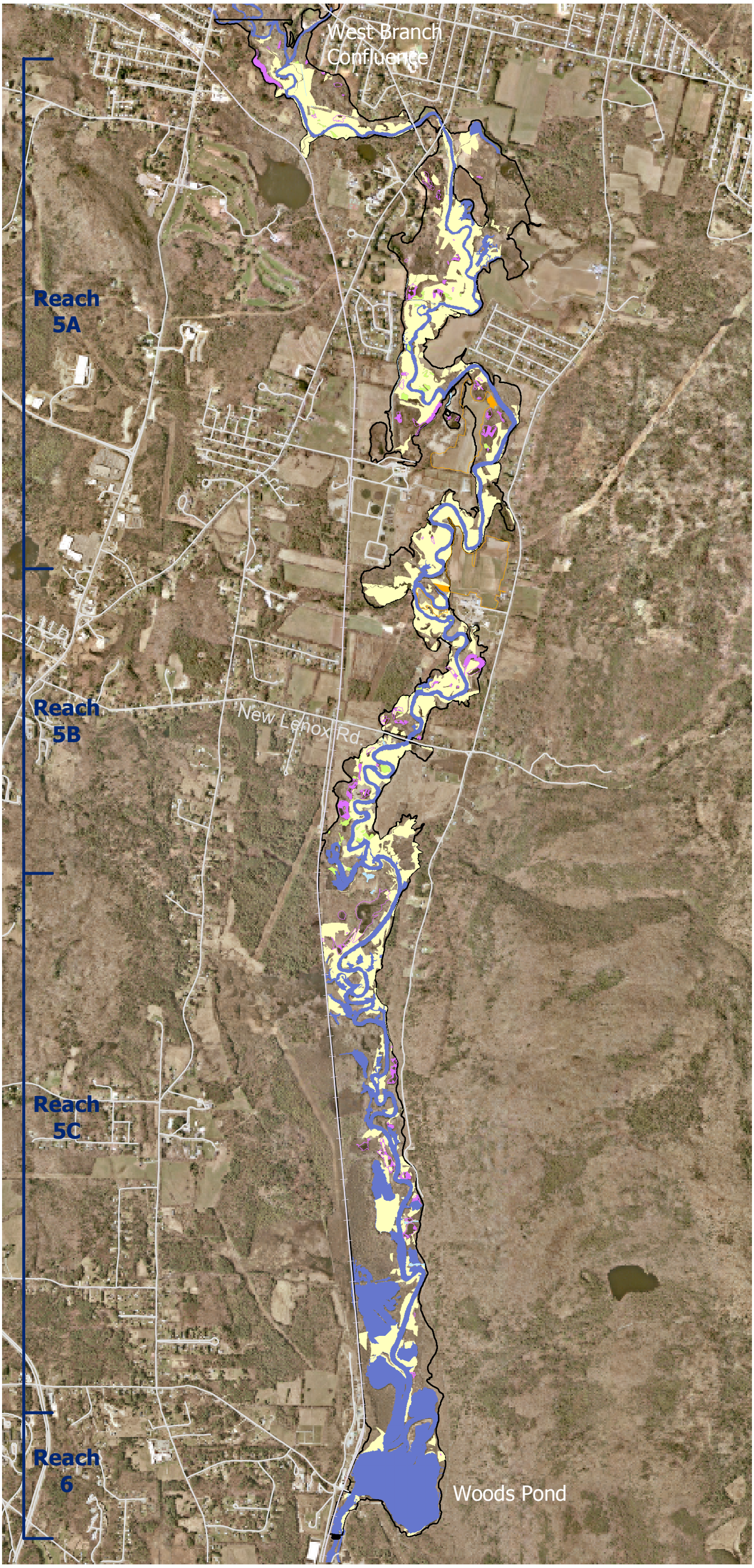

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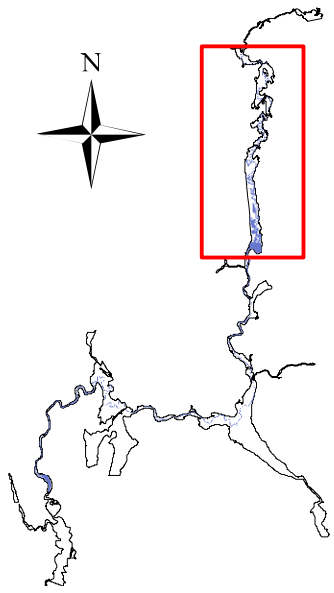

SCALE

Miles

0 0.5

LEGEND

Removal Types

- Heavily Used Subareas
- Direct Contact
- Agriculture
- Amphibian
- Piscivorous Mammals*
- Housatonic River
- Vernal Pools
- Agricultural Areas
- 1 mg/kg PCB Iso (R 5-6); 100-yr FP (R 7-8)
- Housatonic Railroad
- Major Roads
- Dams

** Floodplain soil removal shown for piscivorous mammal corresponds to a sediment target level of 1 mg/kg.*

Figure SC98-7a. Floodplain Alternative 7 (FP 7). Remediation to achieve upper-range health-based RME IMPGs (based on 10^{-6} cancer risk or non-cancer), and lower-bound IMPGs for ecological receptors.

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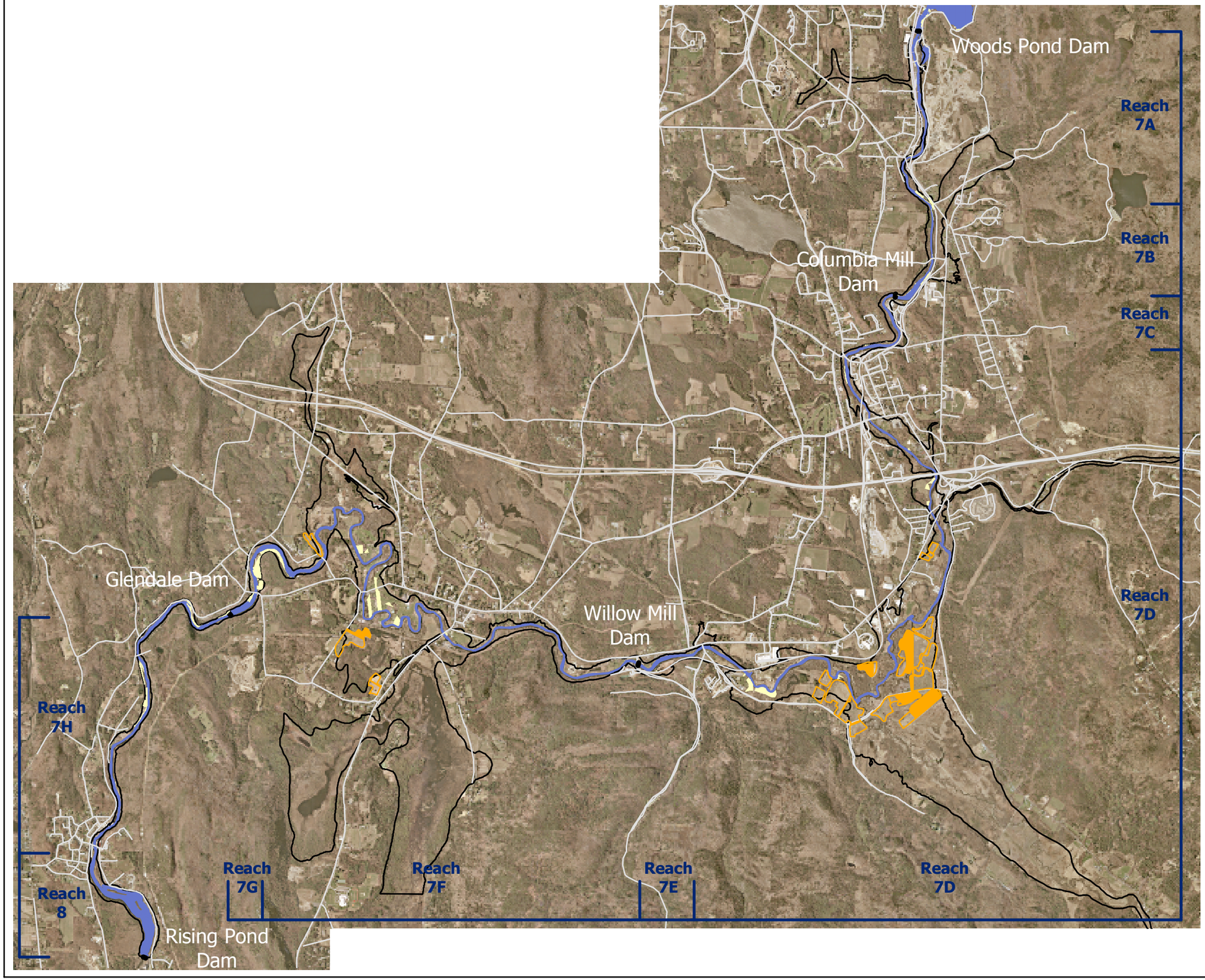

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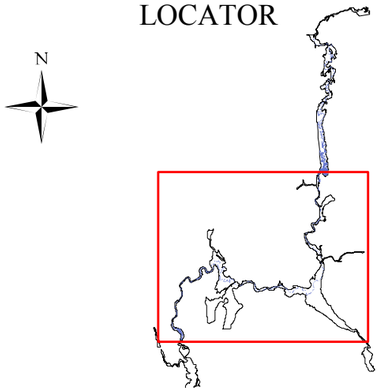

SCALE

0 0.5 1 2 Miles

LEGEND

Removal Types

- Heavily Used Subareas
- Direct Contact
- Agriculture
- Amphibian
- Piscivorous Mammals*

- Housatonic River
- Vernal Pools
- Agricultural Areas
- 1 mg/kg PCB Iso (R 5-6); 100-yr FP (R 7-8)
- Housatonic Railroad
- Major Roads
- Dams

** Floodplain soil removal shown for piscivorous mammal corresponds to a sediment target level of 1 mg/kg.*

Figure SC98-7b. Floodplain Alternative 7 (FP 7). Remediation to achieve upper-range health-based RME IMPGs (based on 10^{-6} cancer risk or non-cancer), and lower-bound IMPGs for ecological receptors.

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GENcms 110 March 2009

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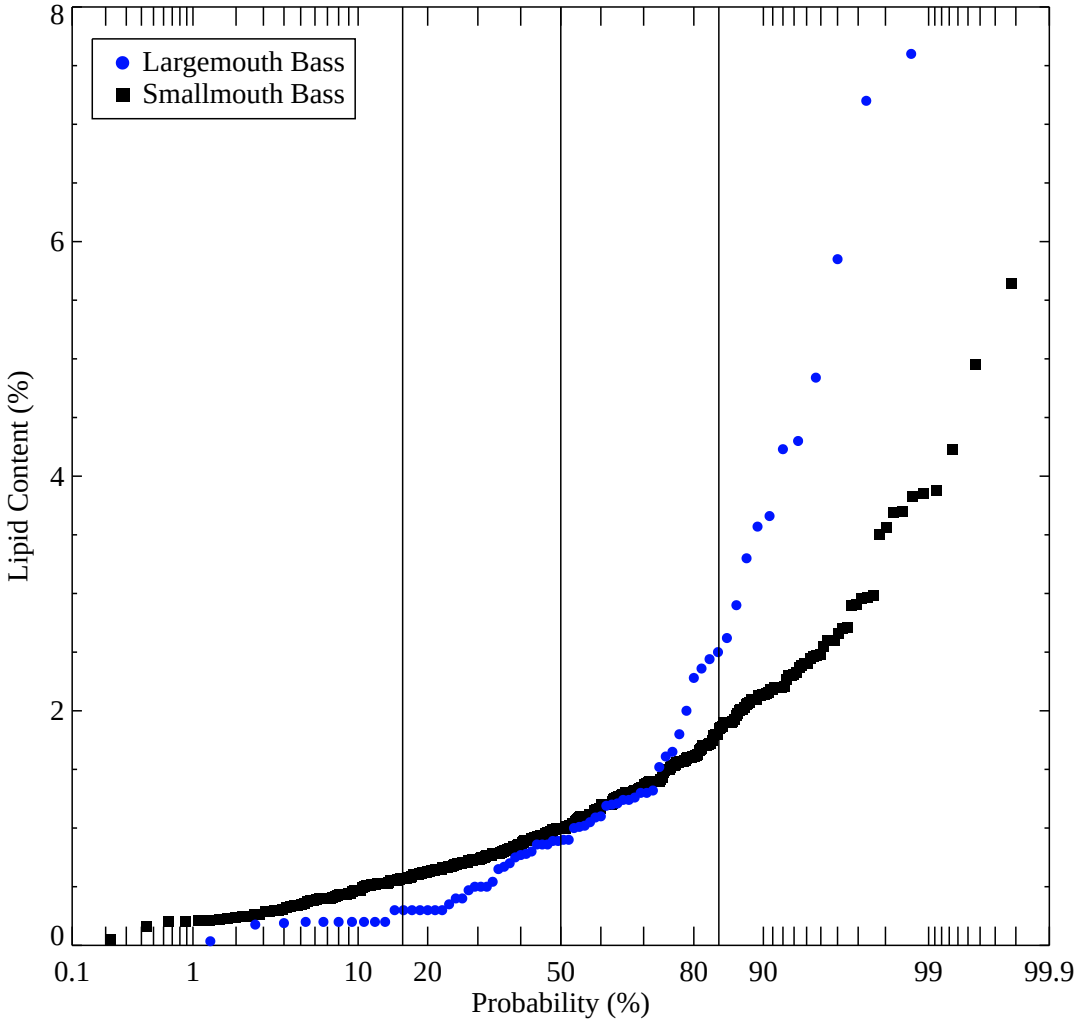

Figure SC126-1. Probability distribution of lipid content for largemouth bass (collected in the PSA) and smallmouth bass (collected in CT).

wk - D:\GENcms\analysis\EPA_CMS_Comments\Fish_SC126\plot_fishLipid.pro
Mon Mar 02 16:40:20 2009

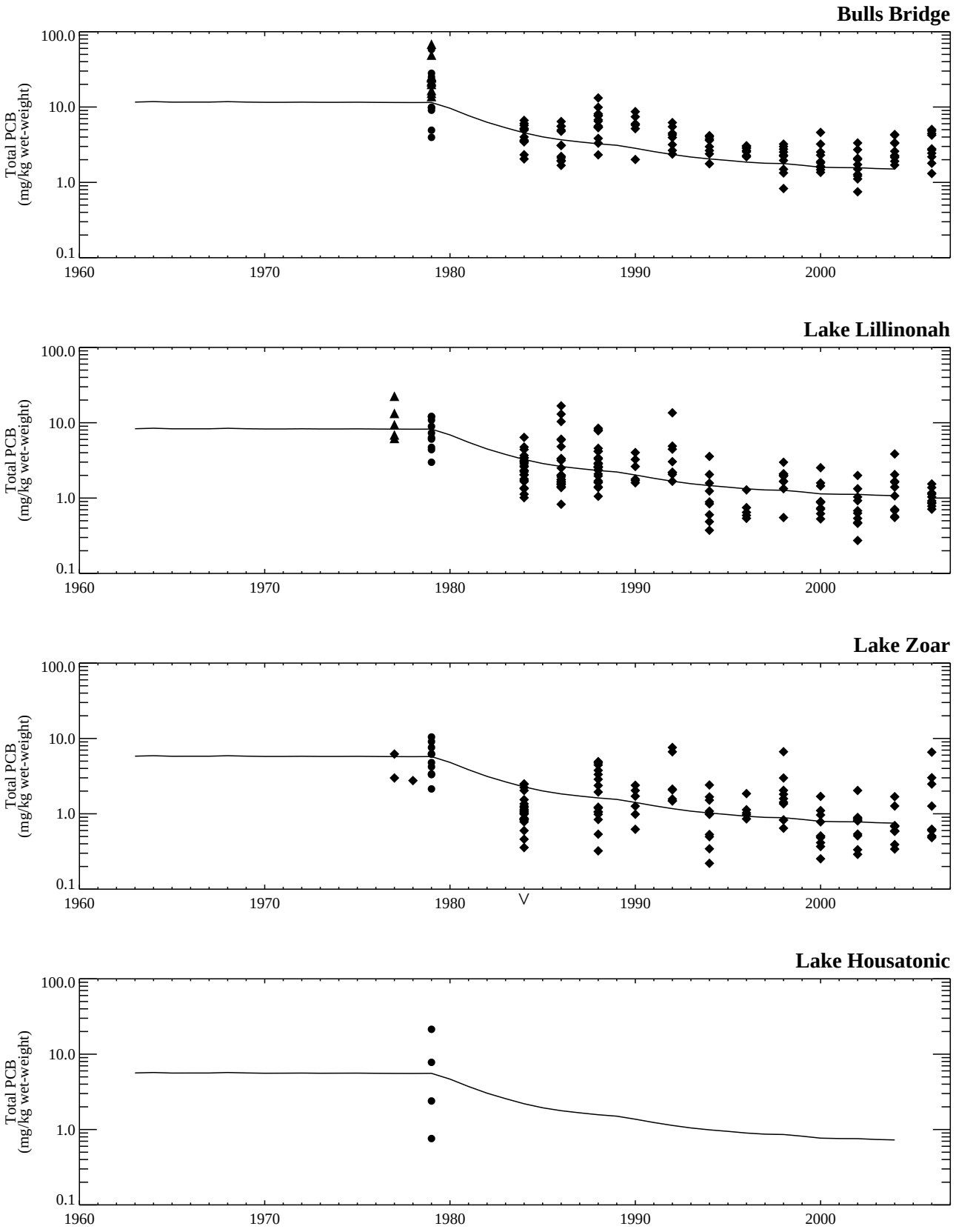

Figure SC130-1. Wet-weight PCB concentrations in smallmouth bass estimated from the CT 1-D Analysis.

Notes: FCM run TV_EPA040; Deposition model run 35
Model output is autumn averaged PCB concentration (Aug. 28 - Oct. 26) for game fish, age 6+.
Fillet to whole body conversion factor = 2.3. SMB fish ages > 3 (when determined);
Prep for 2004 and 2006 individual samples assumed to be fillet.

1-D Analysis
Fillet (skin off)
Fillet (scales off/skin on)
Fillet (scales on/skin on)

DR\LD - Z:\GENcms\DOCUMENTS\reports\CMS-Report_Supplement\figures\SC_130\pcb_temporal_ct_smb_suppl.pro
Mon Nov 24 13:27:15 2008

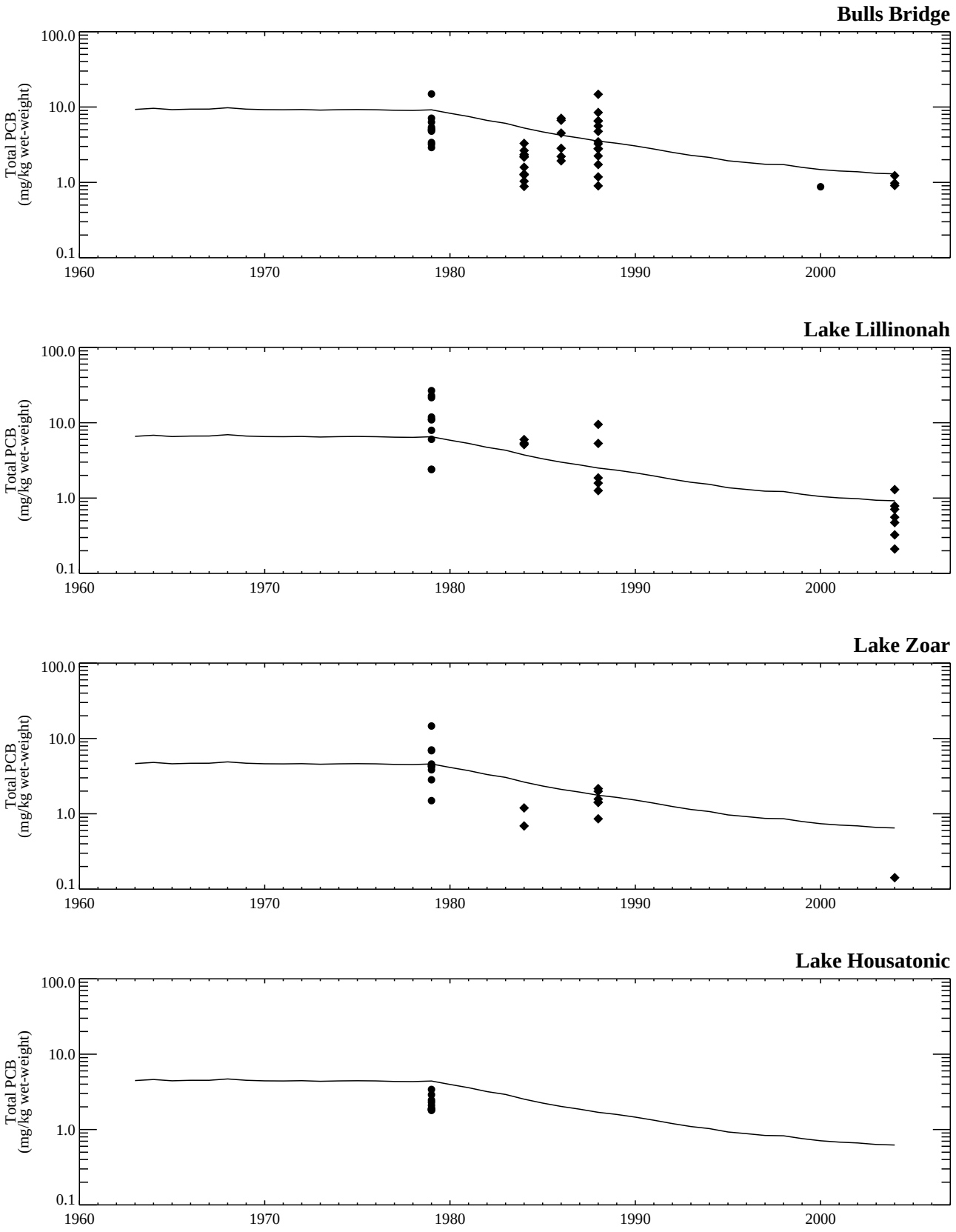

Figure SC130-2. Wet-weight PCB concentrations in bullhead (brown and yellow bullhead, where available) estimated from the CT 1-D Analysis.

Notes: FCM run TV_EPA040; Deposition model run 35
Model output is autumn averaged PCB concentration (Aug. 28 - Oct. 26) for game fish, age 6+.
Fillet to whole body conversion factor = 2.3. SMB fish ages > 3 (when determined);
Prep for 2004 and 2006 individual samples assumed to be fillet.

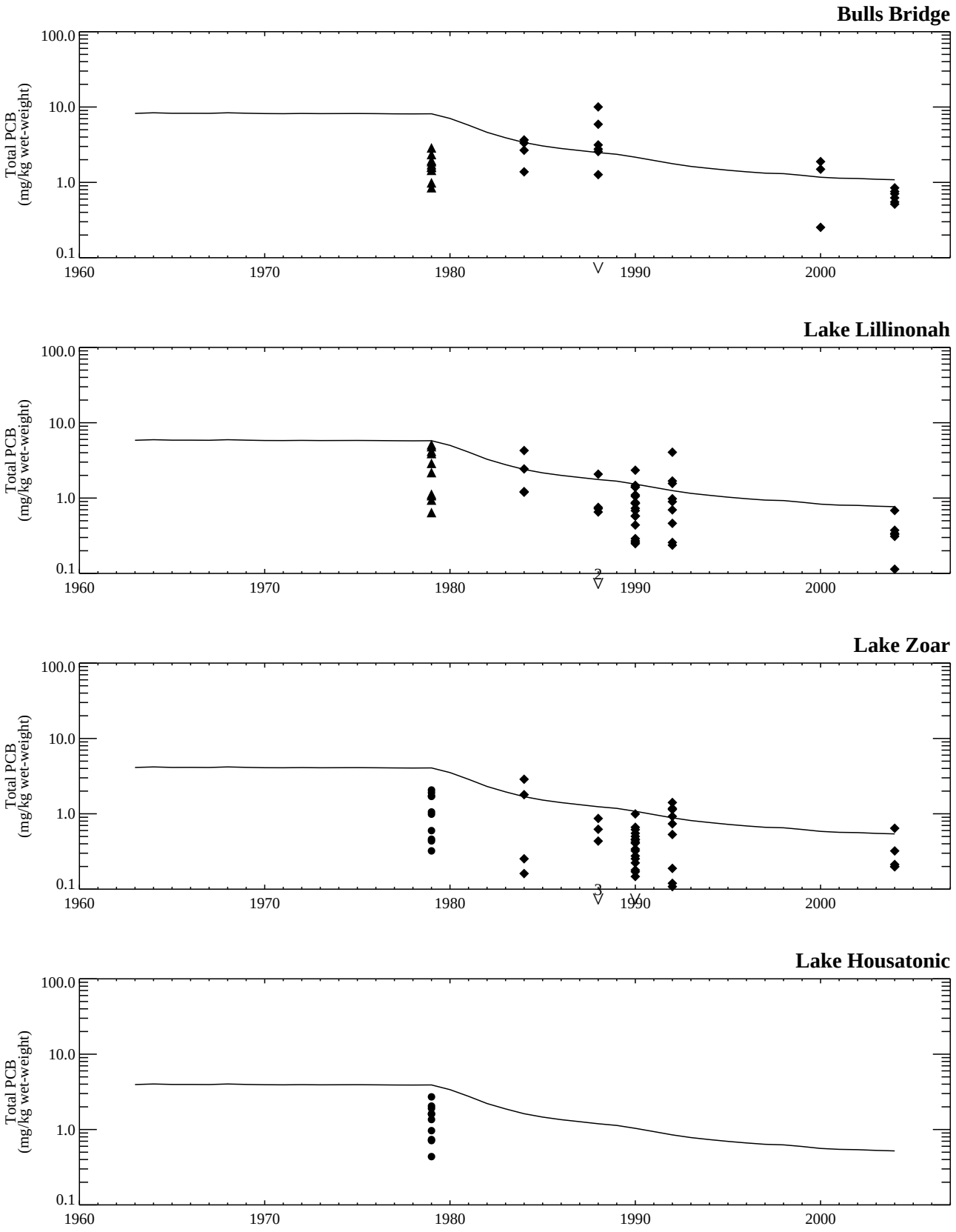

Figure SC130-3. Wet-weight PCB concentrations in sunfish (pumpkinseed, bluegill, redbreast sunfish, and redear sunfish, where available) estimated from the CT 1-D Analysis.

Notes: FCM run TV_EPA040; Deposition model run 35
Model output is autumn averaged PCB concentration (Aug. 28 - Oct. 26) for game fish, age 6+.
Fillet to whole body conversion factor = 2.3. SMB fish ages > 3 (when determined);
Prep for 2004 and 2006 individual samples assumed to be fillet.

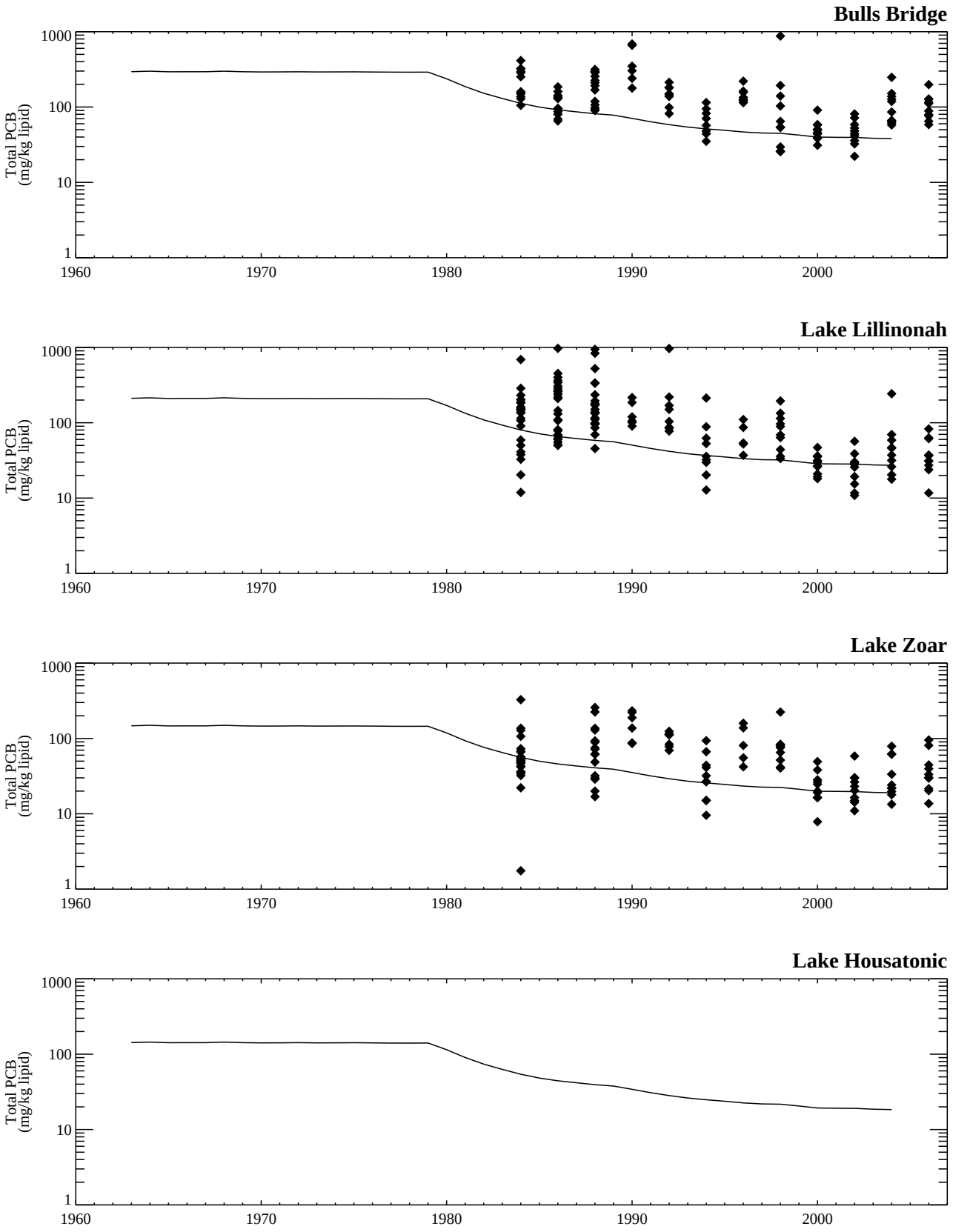

Figure SC130-4. Lipid-normalized PCB concentrations in smallmouth bass estimated from the CT 1-D Analysis.

Notes: FCM run TV_EPA040; Deposition model run 35
Model output is autumn averaged PCB concentration (Aug. 28 - Oct. 26) for game fish, age 6+.
SMB fish ages > 3 (when determined);
Prep for 2004 and 2006 individual samples assumed to be fillet.

DR\LD - Z:\GENcms\DOCUMENTS\reports\CMS-Report_Supplement\figures\SC_130\pcb_temporal_ct_smb_suppl.pro
Mon Nov 24 13:29:07 2008

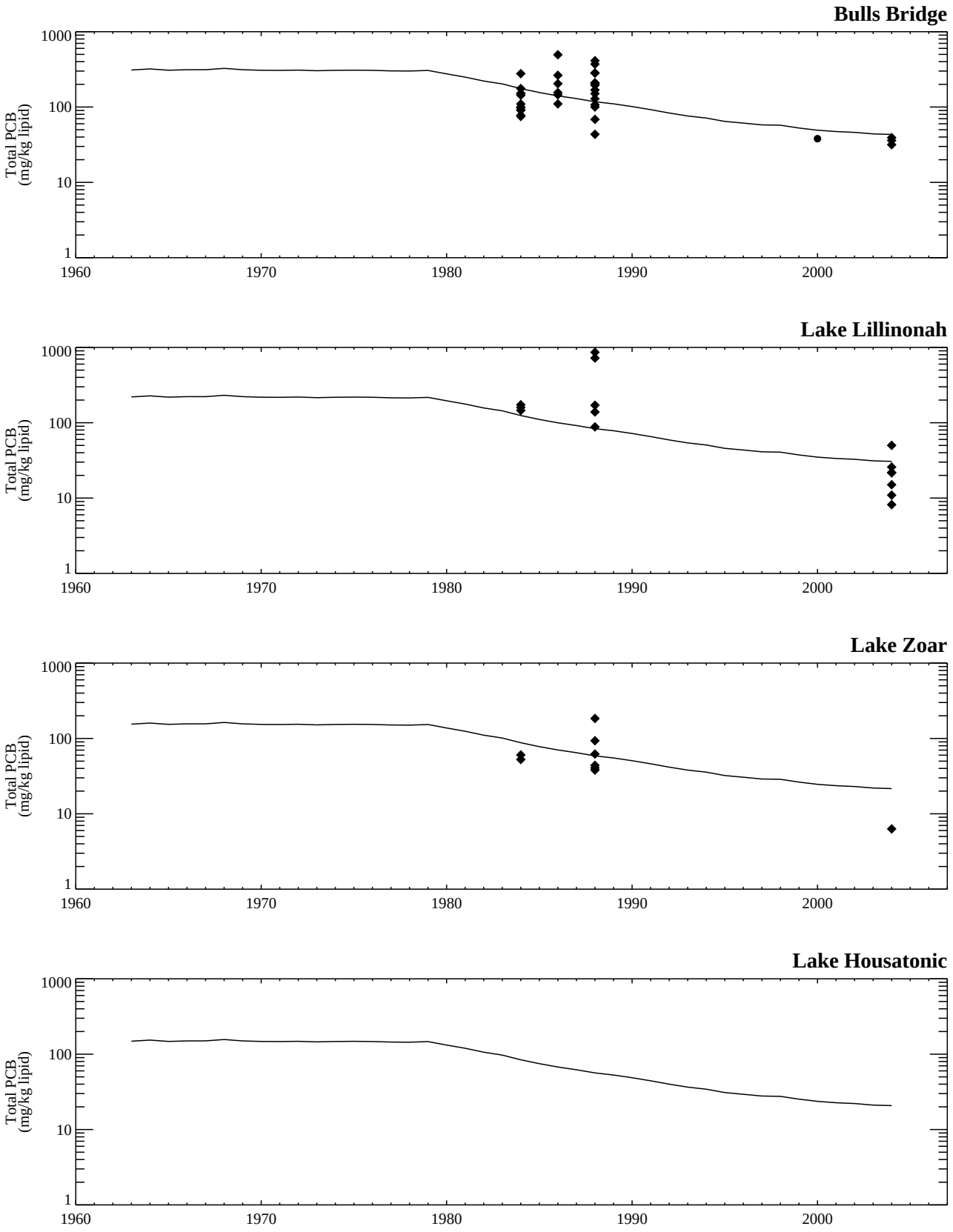

Figure SC130-5. Lipid-normalized PCB concentrations in bullhead (brown and yellow bullhead, where available) estimated from the CT 1-D Analysis.

1-D Analysis
Fillet (skin off)
Fillet (scales off/skin on)
Fillet (scales on/skin on)

Notes: FCM run TV_EPA040; Deposition model run 35
Model output is autumn averaged PCB concentration (Aug. 28 - Oct. 26) for game fish, age 6+.
SMB fish ages > 3 (when determined);
Prep for 2004 and 2006 individual samples assumed to be fillet.

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Mon Nov 24 13:29:13 2008

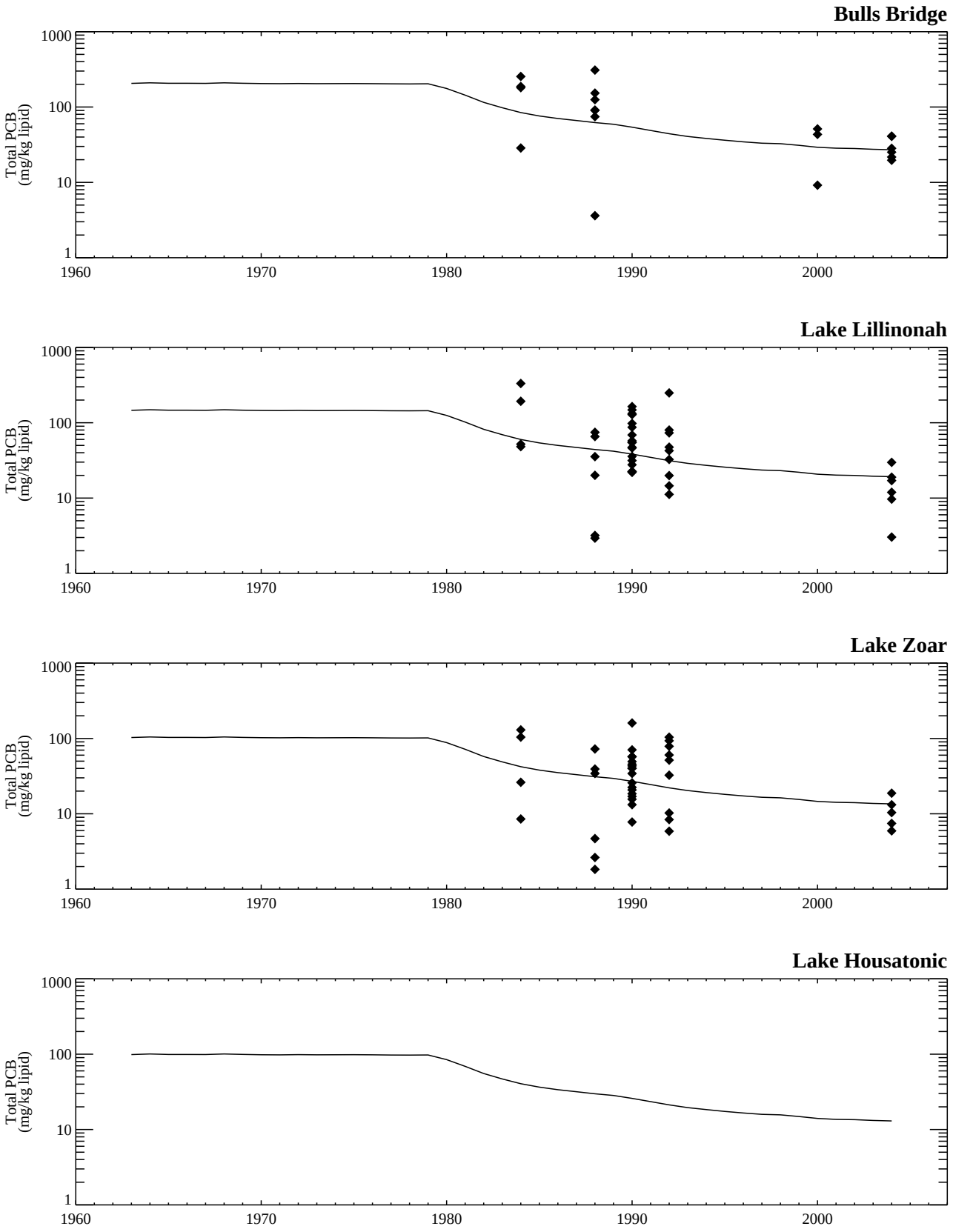

Figure SC130-6. Lipid-normalized PCB concentrations in sunfish (pumpkinseed, bluegill, redbreast sunfish, and redear sunfish, where available) estimated from the CT 1-D Analysis.

Notes: FCM run TV_EPA040; Deposition model run 35
Model output is autumn averaged PCB concentration (Aug. 28 - Oct. 26) for game fish, age 6+.
SMB fish ages > 3 (when determined);
Prep for 2004 and 2006 individual samples assumed to be fillet.

1-D Analysis
Fillet (skin off)
Fillet (scales off/skin on)
Fillet (scales on/skin on)