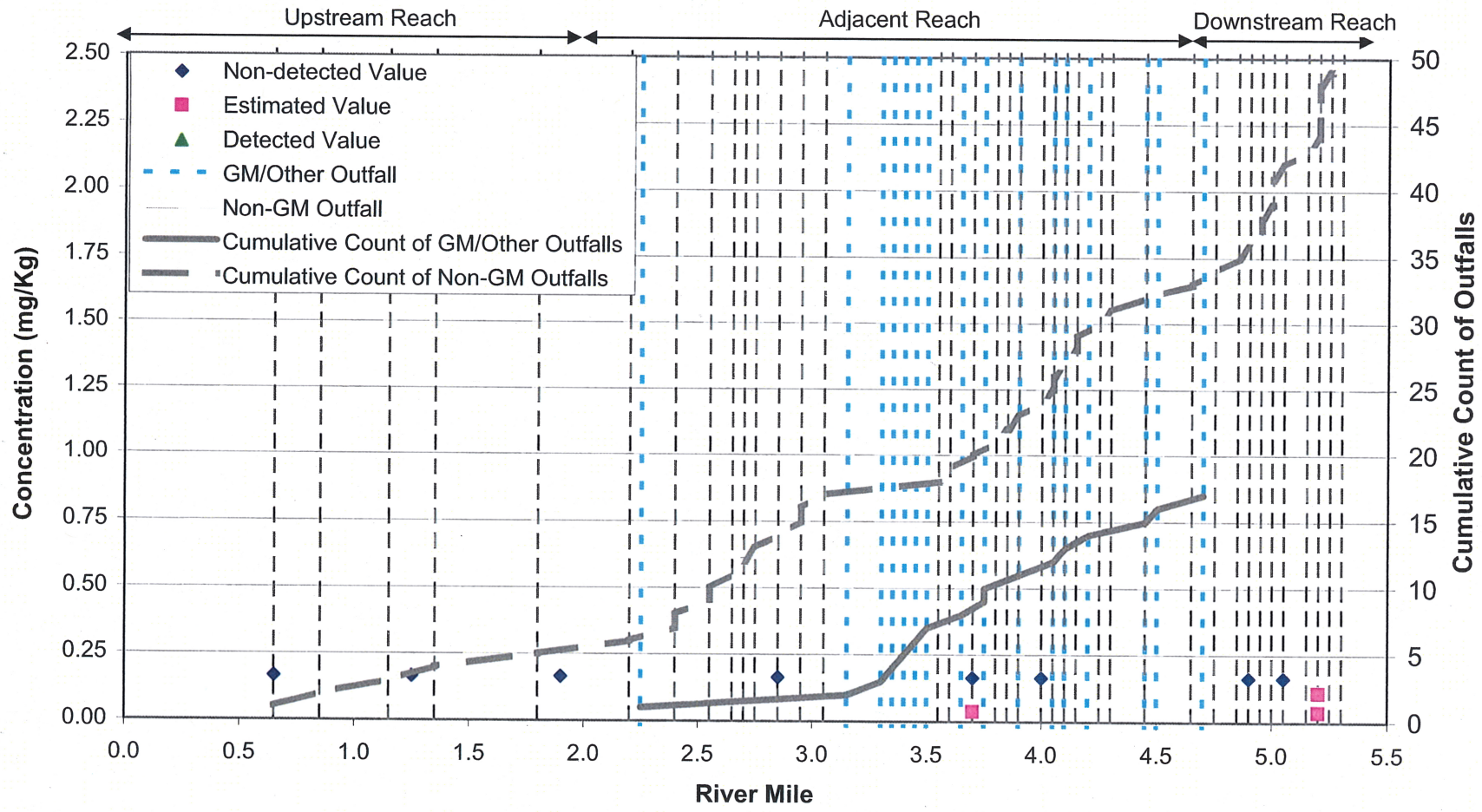

Notes:

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3. All samples were unbiased surface samples taken at a depth of 0-2 inches.
4. Non-detected values were plotted at one-half the detection limit.
5. Field blind duplicate samples were averaged with their corresponding field samples.
6. mg/Kg = milligrams per kilograms

GENERAL MOTORS CORPORATION

FLINT, MICHIGAN

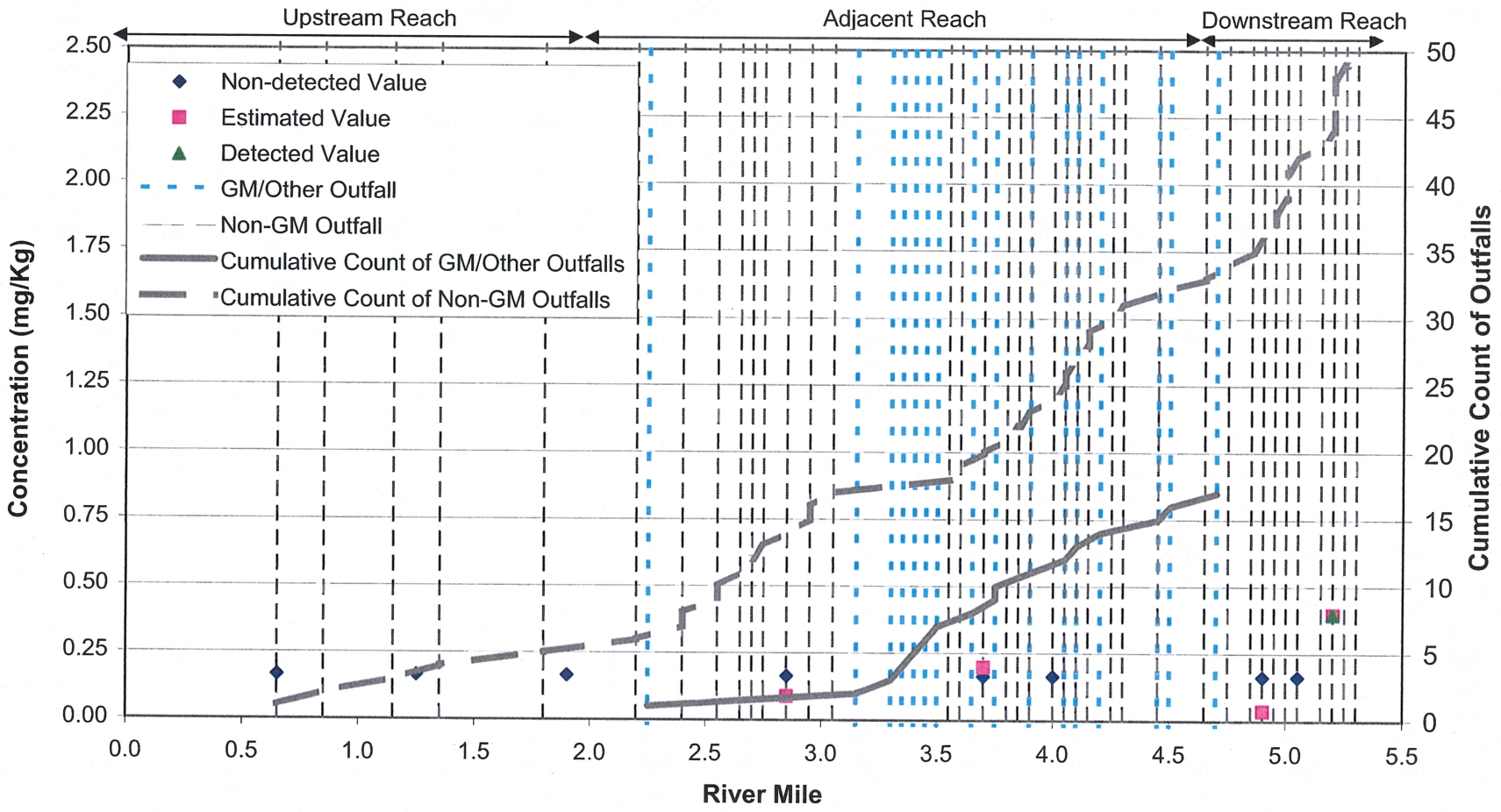
FLINT RIVER SEDIMENT INVESTIGATION

ANTHRACENE CONCENTRATIONS FOR SURFACE SAMPLES BY RIVER MILE

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE

5



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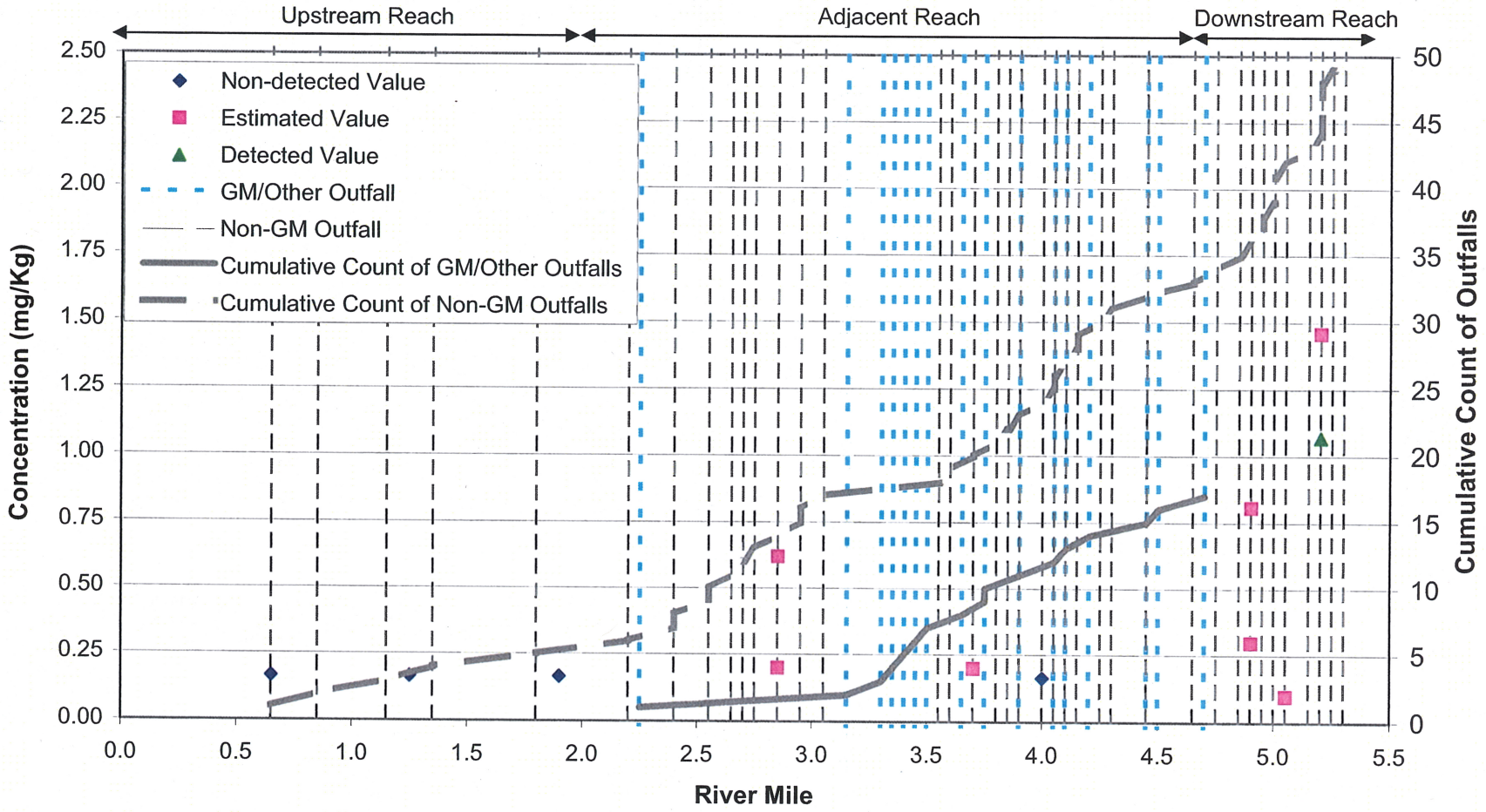
FLINT RIVER SEDIMENT INVESTIGATION

BENZO(a)ANTHRACENE CONCENTRATIONS FOR SURFACE SAMPLES BY RIVER MILE

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE

6



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5. Field blind duplicate samples were averaged with their corresponding field samples.
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GENERAL MOTORS CORPORATION

FLINT, MICHIGAN

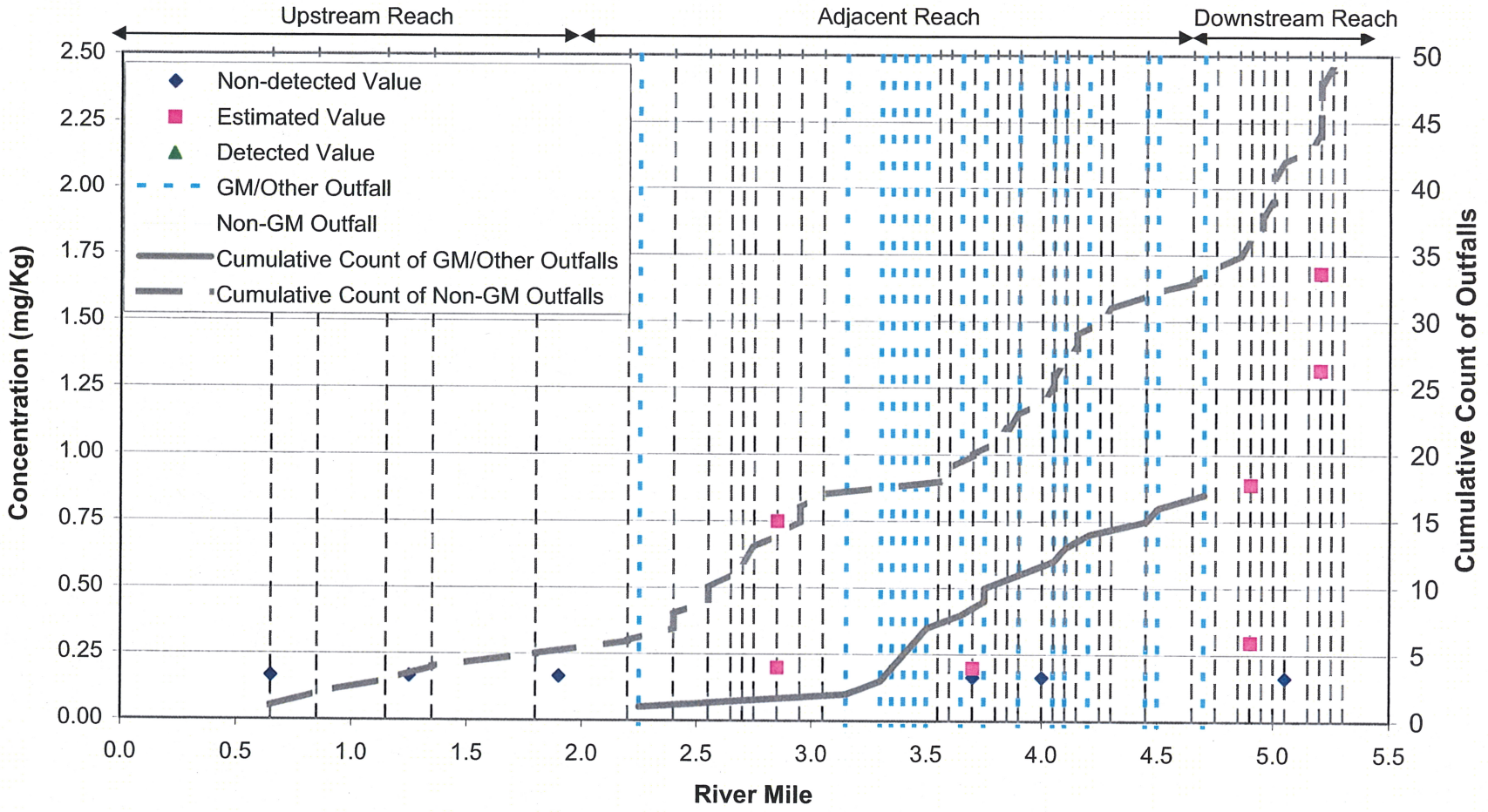
FLINT RIVER SEDIMENT INVESTIGATION

BENZO(a)PYRENE CONCENTRATIONS FOR SURFACE SAMPLES BY RIVER MILE

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE

7



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5. Field blind duplicate samples were averaged with their corresponding field samples.
6. mg/Kg = milligrams per kilograms

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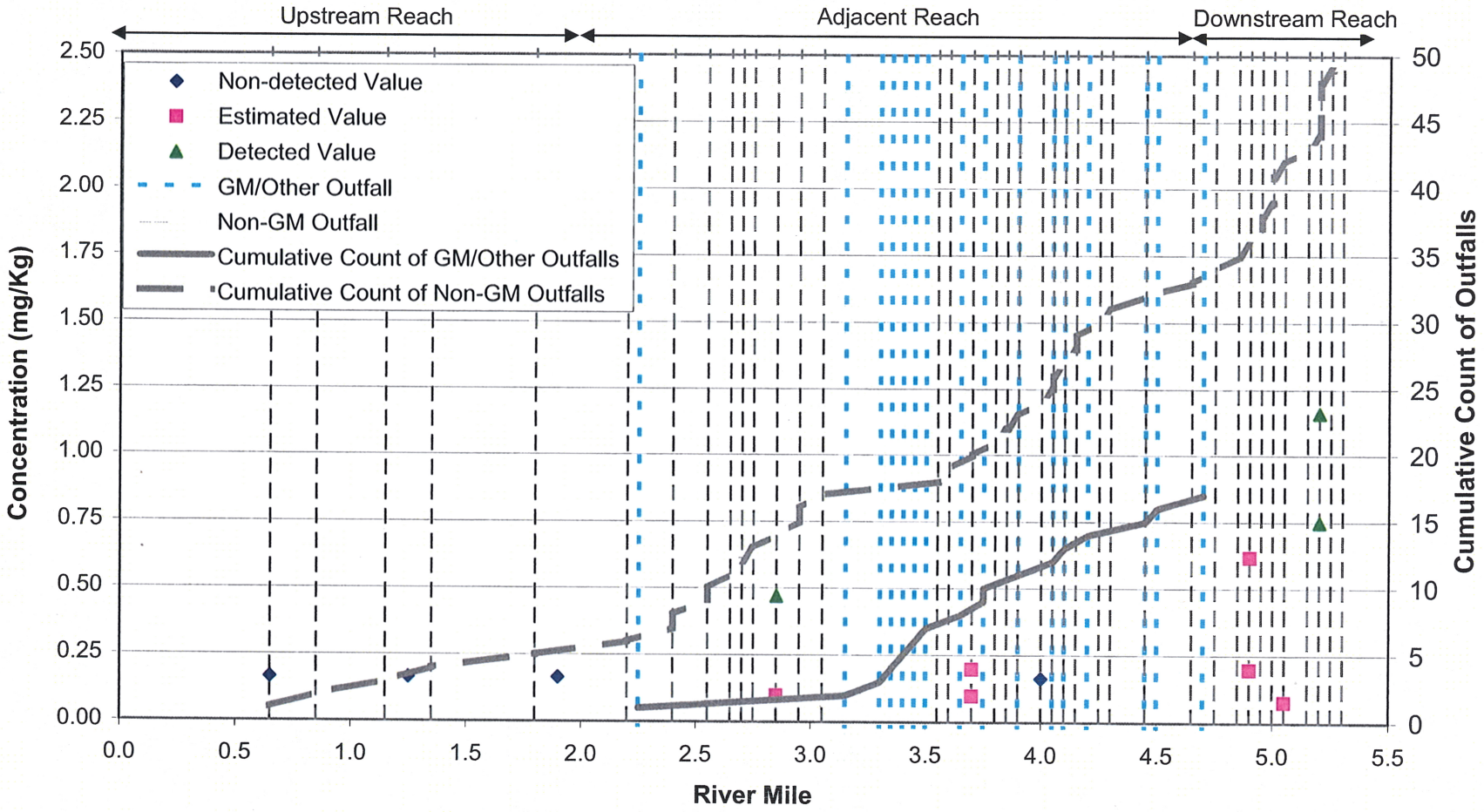
FLINT RIVER SEDIMENT INVESTIGATION

BENZO(b)FLUORANTHENE CONCENTRATIONS FOR SURFACE SAMPLES BY RIVER MILE

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE

8



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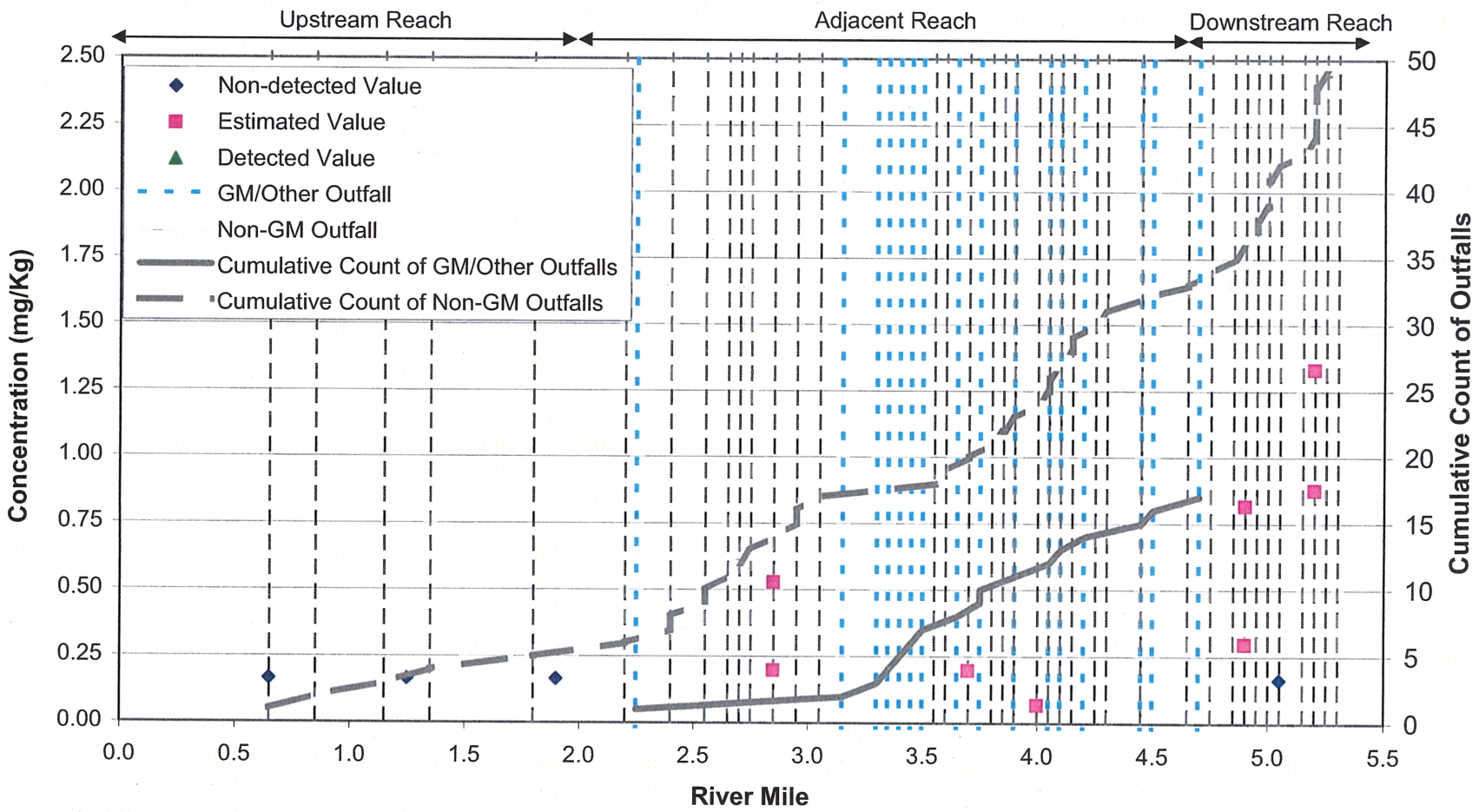
FLINT RIVER SEDIMENT INVESTIGATION

BENZO(g,h,i)PERYLENE CONCENTRATIONS FOR SURFACE SAMPLES BY RIVER MILE

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE

9



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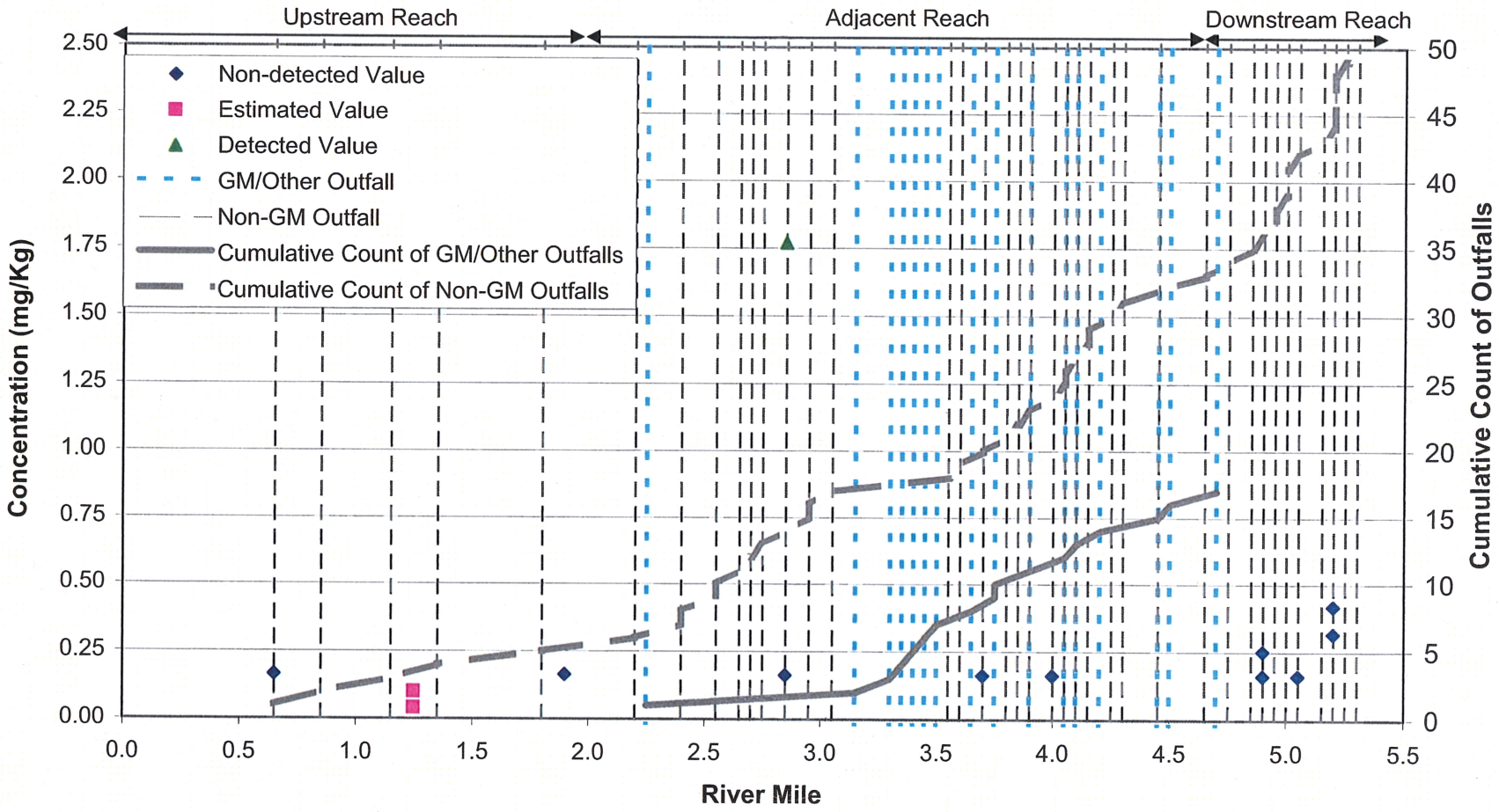
FLINT RIVER SEDIMENT INVESTIGATION

BENZO(k)FLUORANTHENE CONCENTRATIONS FOR SURFACE SAMPLES BY RIVER MILE

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE

10



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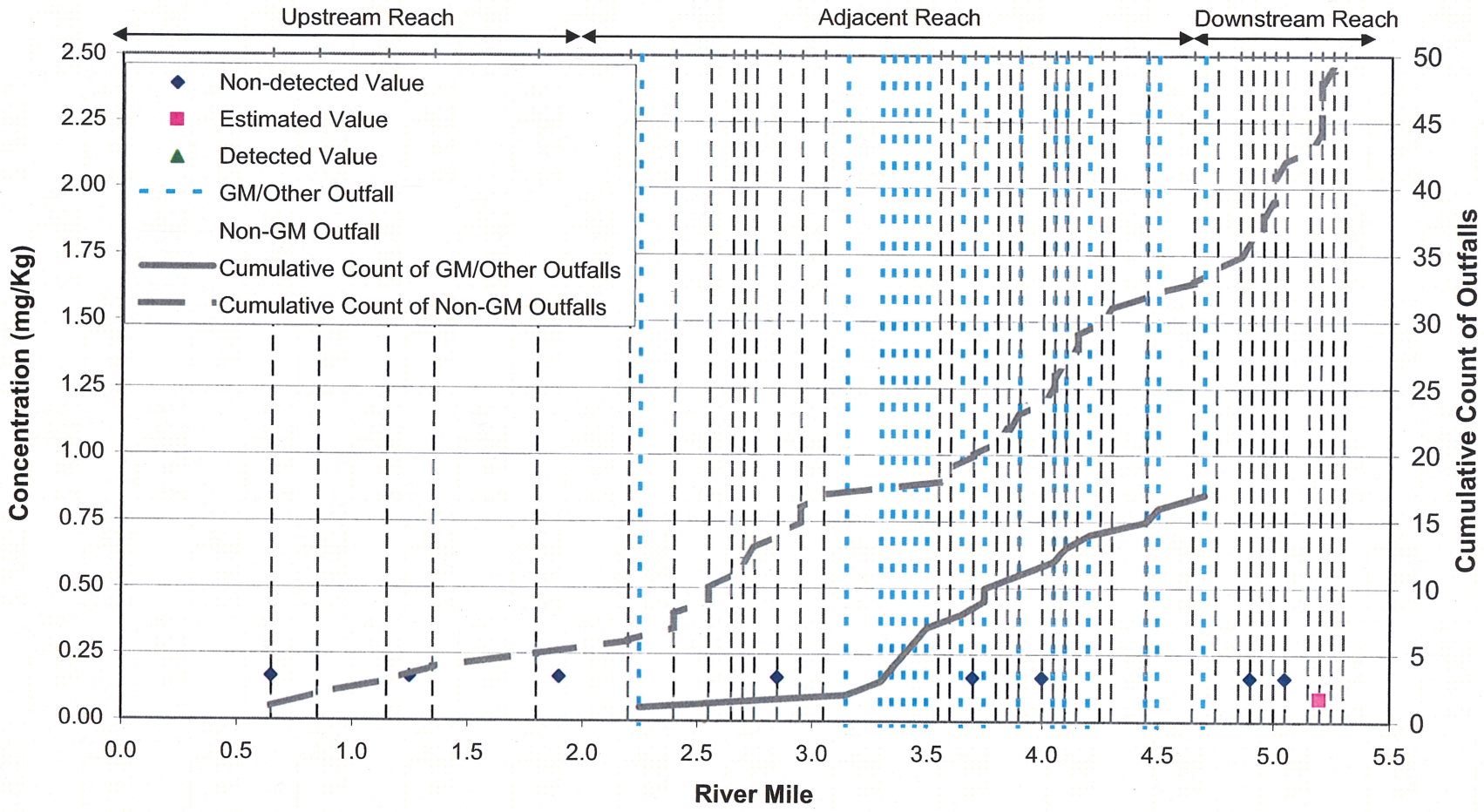
FLINT RIVER SEDIMENT INVESTIGATION

BIS(2-ETHYLHEXYL)PHTHALATE CONCENTRATIONS FOR SURFACE SAMPLES BY RIVER MILE

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE

11



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FLINT, MICHIGAN

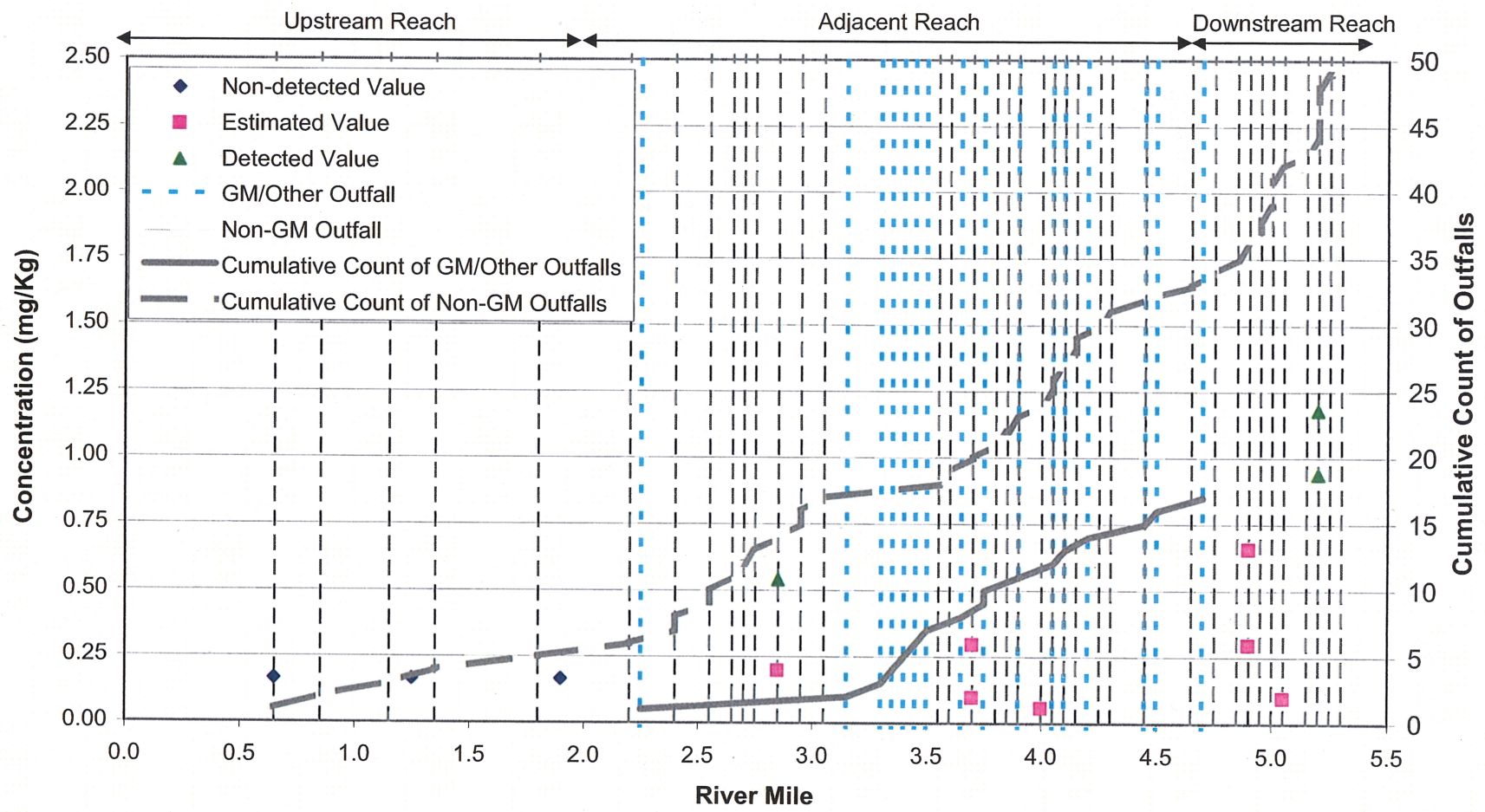
FLINT RIVER SEDIMENT INVESTIGATION

CARBAZOLE CONCENTRATIONS FOR SURFACE SAMPLES BY RIVER MILE

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE

12



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FLINT, MICHIGAN

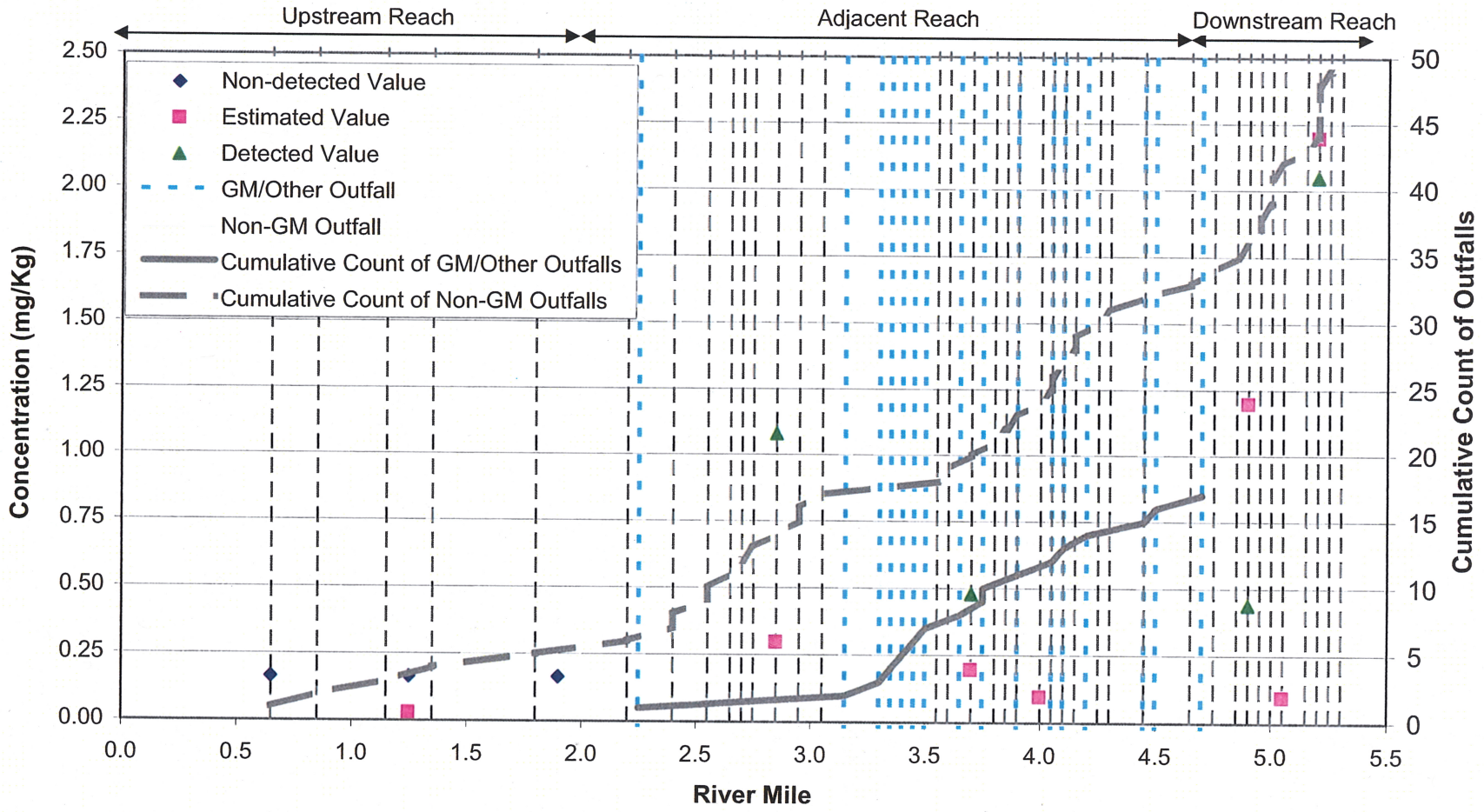
FLINT RIVER SEDIMENT INVESTIGATION

CHRYSENE CONCENTRATIONS FOR SURFACE SAMPLES BY RIVER MILE

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE

13



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GENERAL MOTORS CORPORATION

FLINT, MICHIGAN

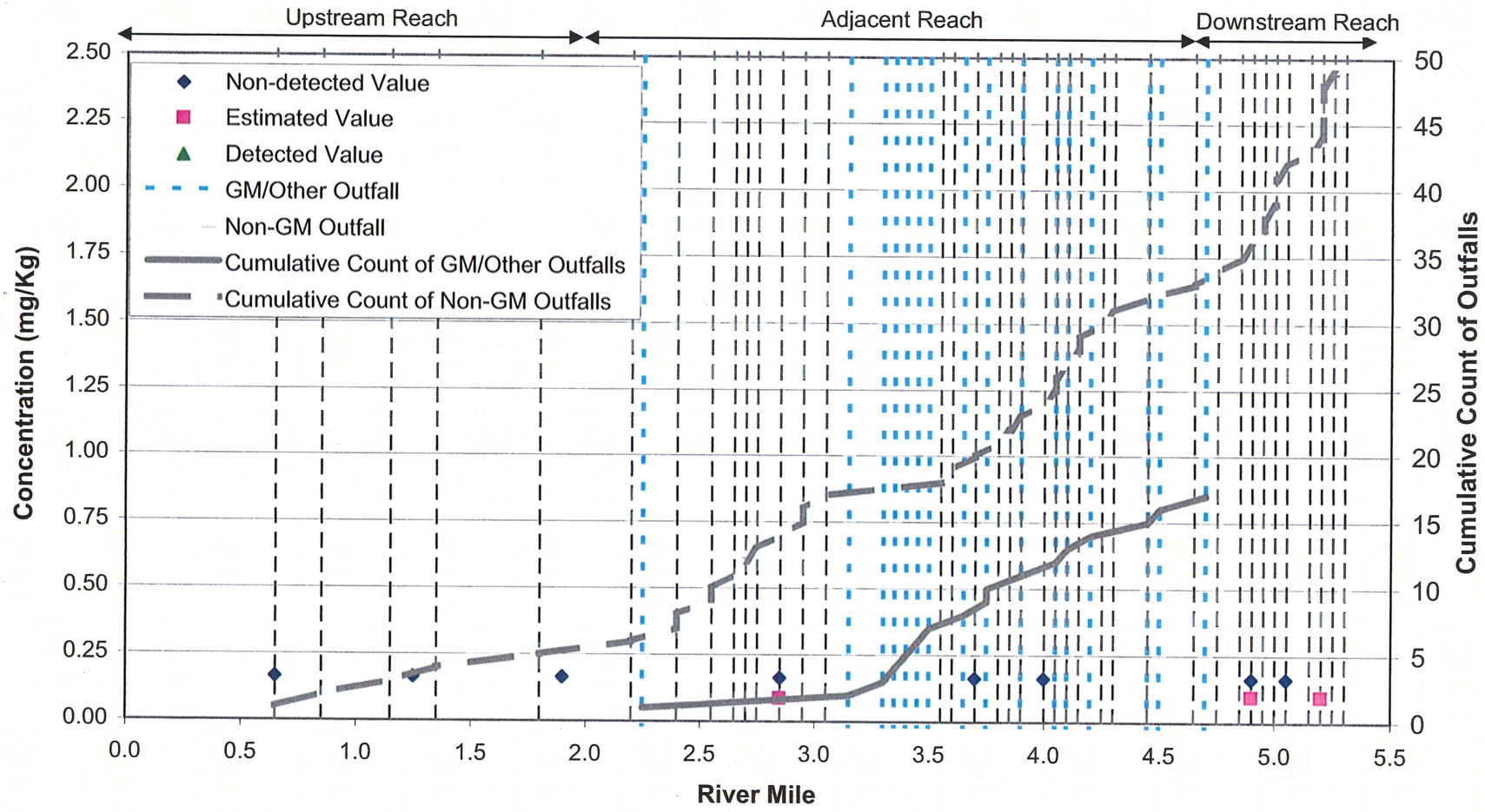
FLINT RIVER SEDIMENT INVESTIGATION

FLUORANTHENE CONCENTRATIONS FOR SURFACE SAMPLES BY RIVER MILE

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE

14



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FLINT, MICHIGAN

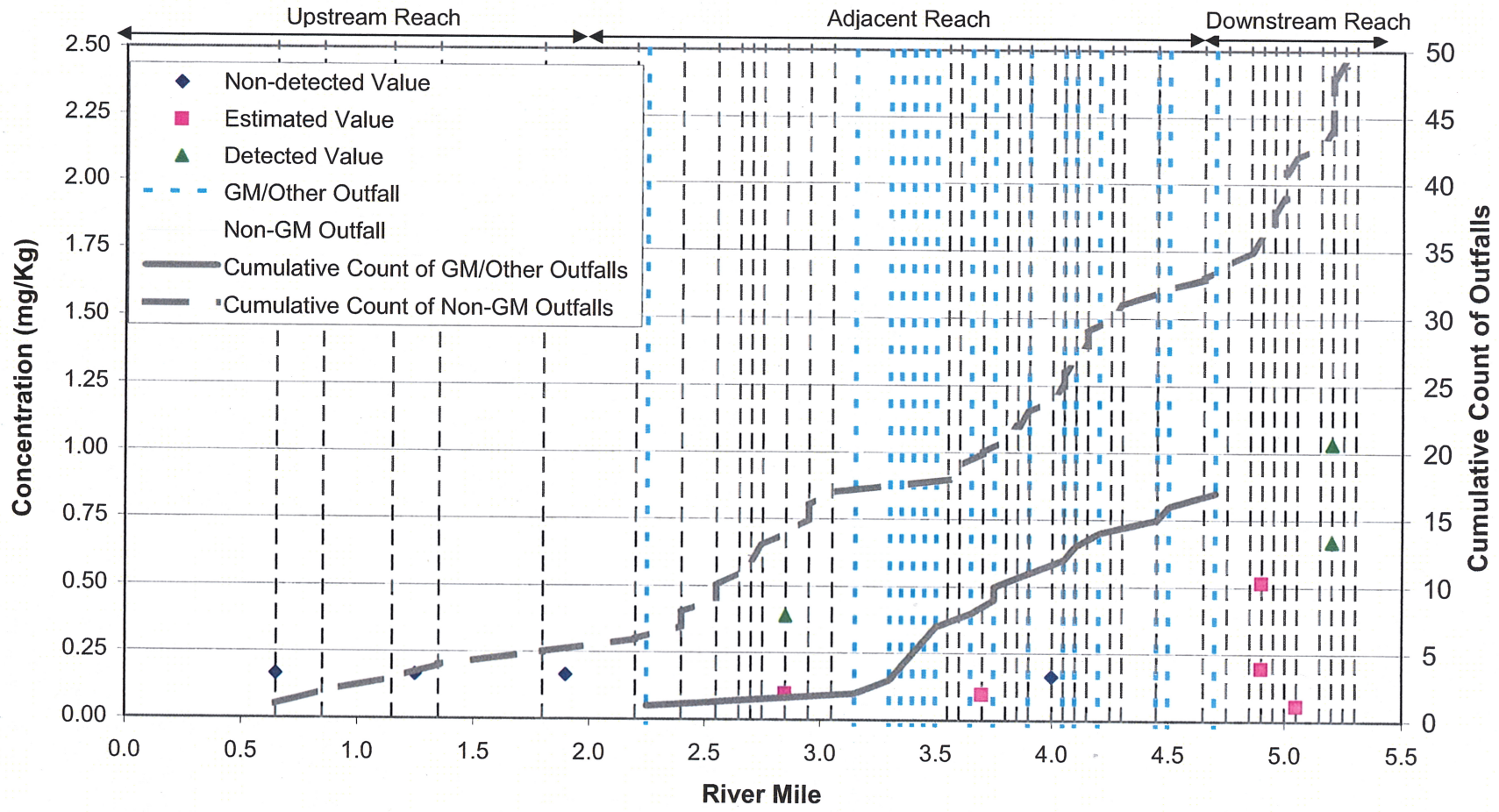
FLINT RIVER SEDIMENT INVESTIGATION

FLUORENE CONCENTRATIONS FOR SURFACE SAMPLES BY RIVER MILE

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE

15



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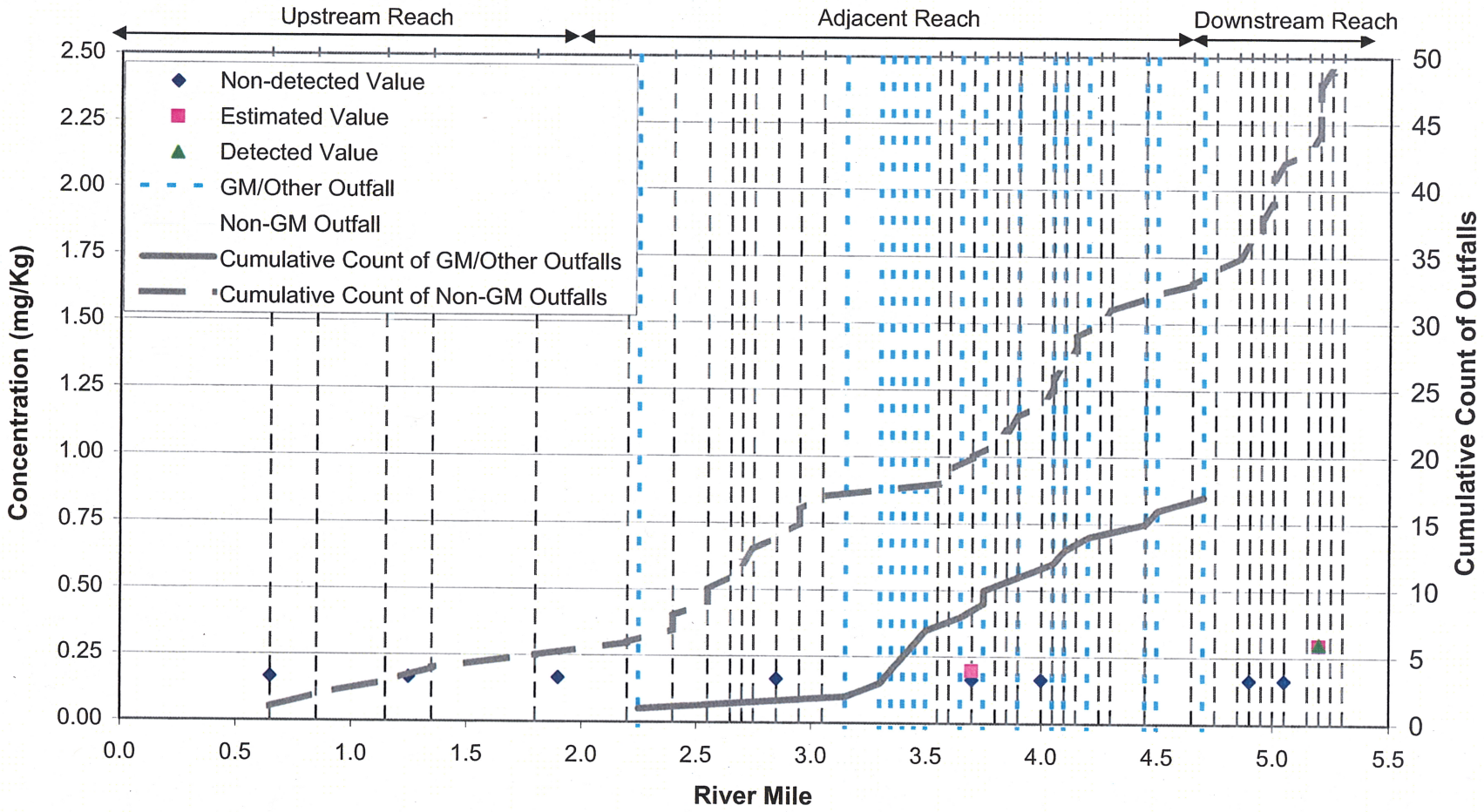
FLINT RIVER SEDIMENT INVESTIGATION

INDENO(1,2,3-cd)PYRENE CONCENTRATIONS FOR SURFACE SAMPLES BY RIVER MILE

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE

16



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FLINT, MICHIGAN

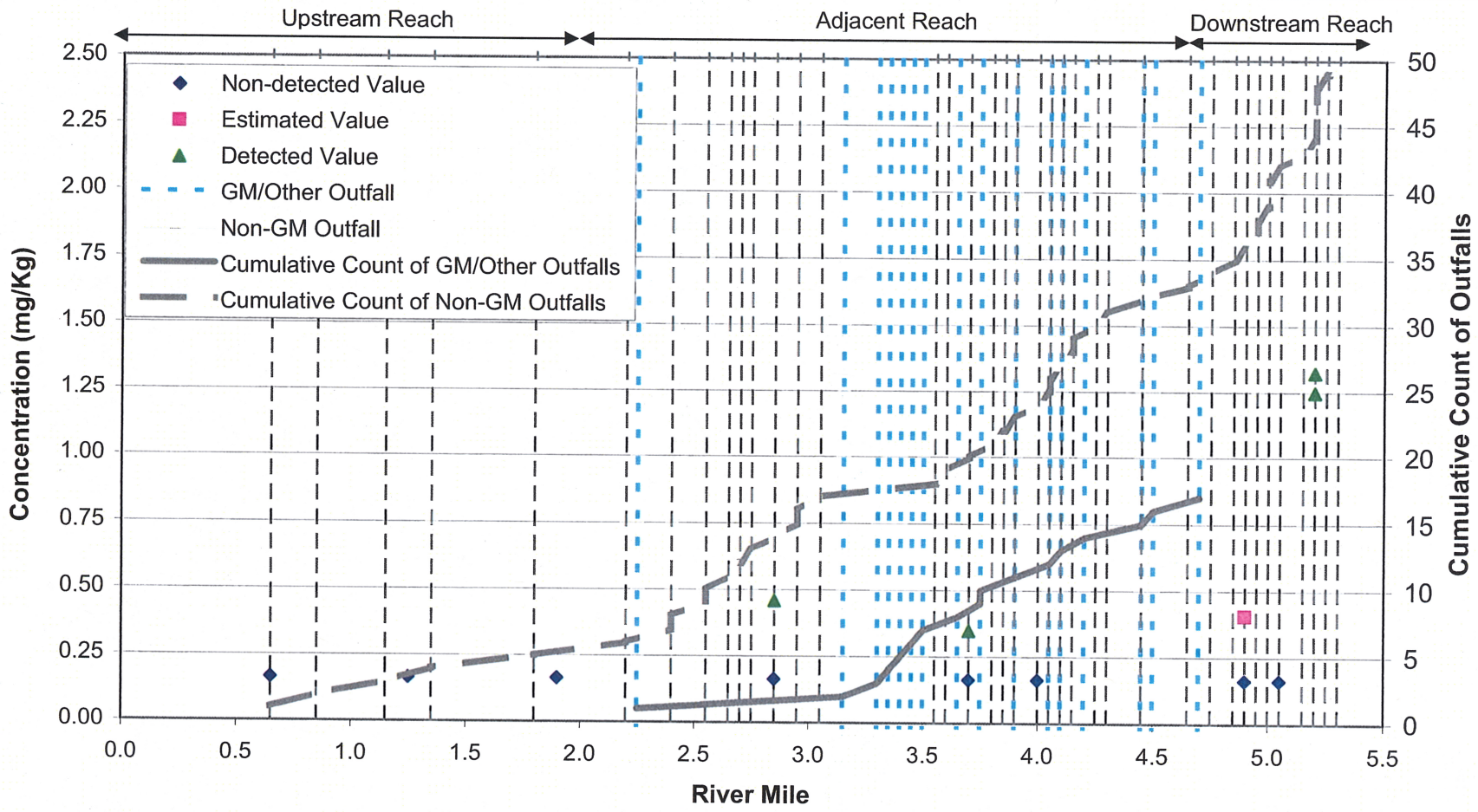
FLINT RIVER SEDIMENT INVESTIGATION

PHENANTHRENE CONCENTRATIONS FOR SURFACE SAMPLES BY RIVER MILE

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE

17



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FLINT, MICHIGAN

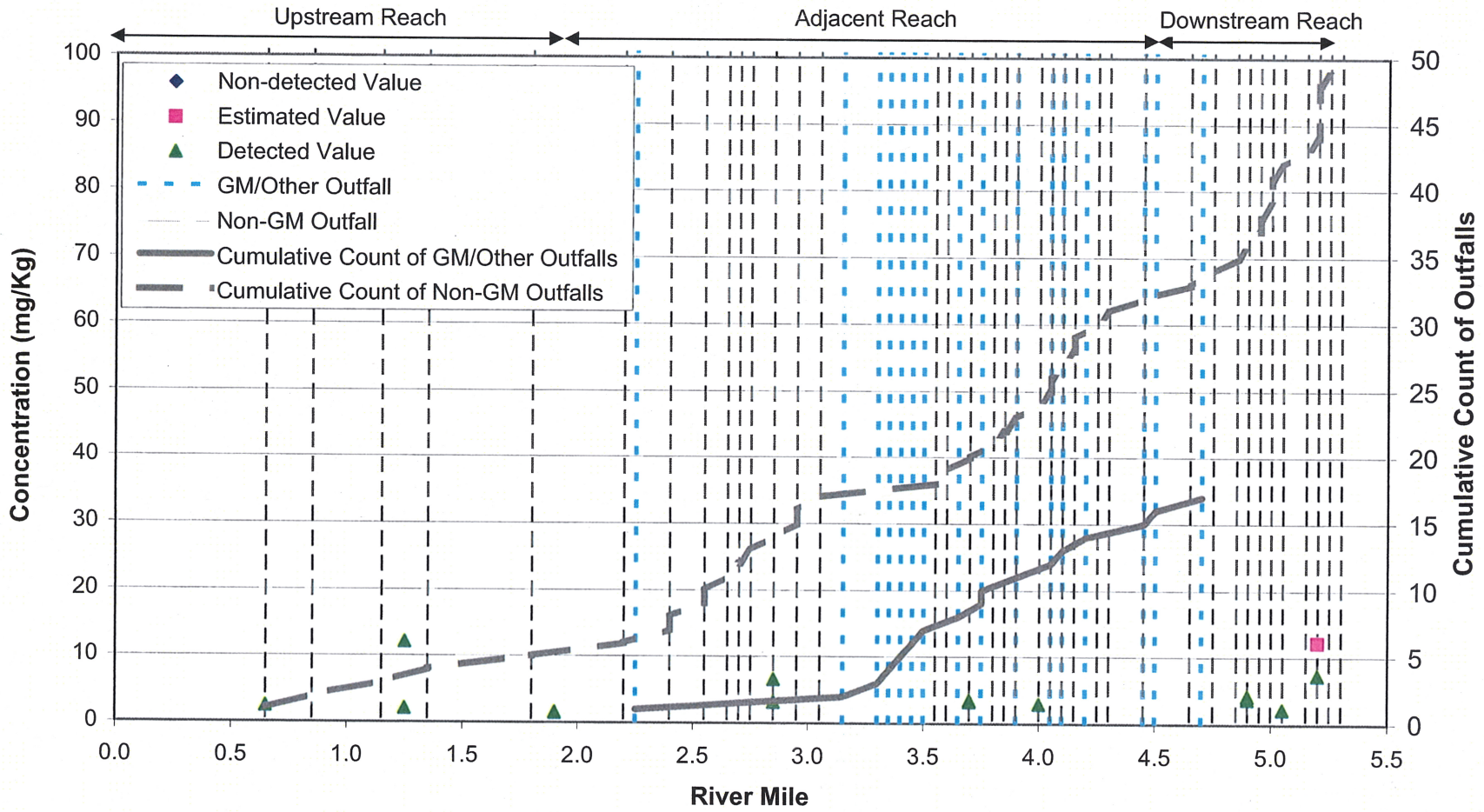
FLINT RIVER SEDIMENT INVESTIGATION

PYRENE CONCENTRATIONS FOR SURFACE SAMPLES BY RIVER MILE

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE

18



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FLINT, MICHIGAN

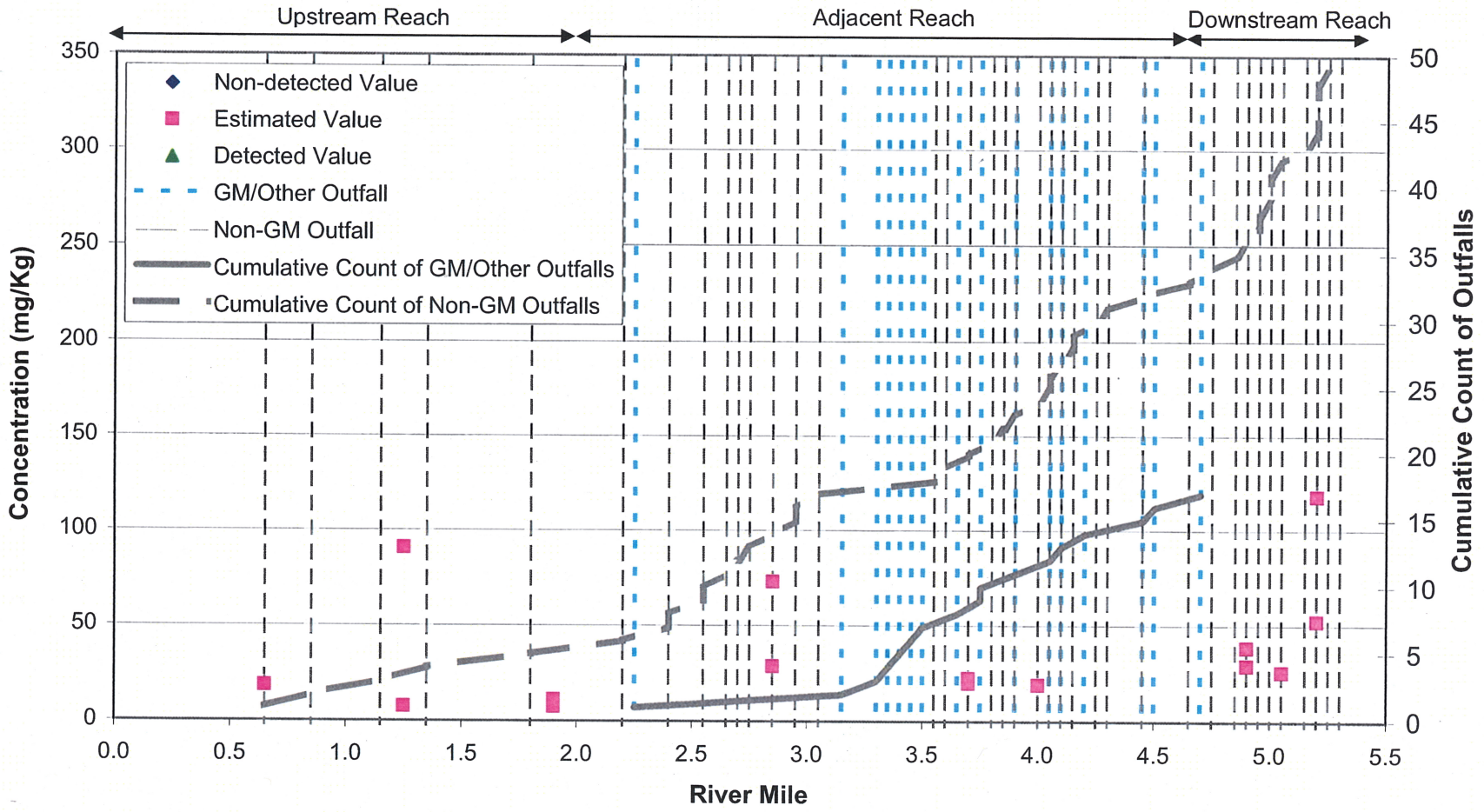
FLINT RIVER SEDIMENT INVESTIGATION

ARSENIC CONCENTRATIONS FOR SURFACE SAMPLES BY RIVER MILE

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE

19



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FLINT, MICHIGAN

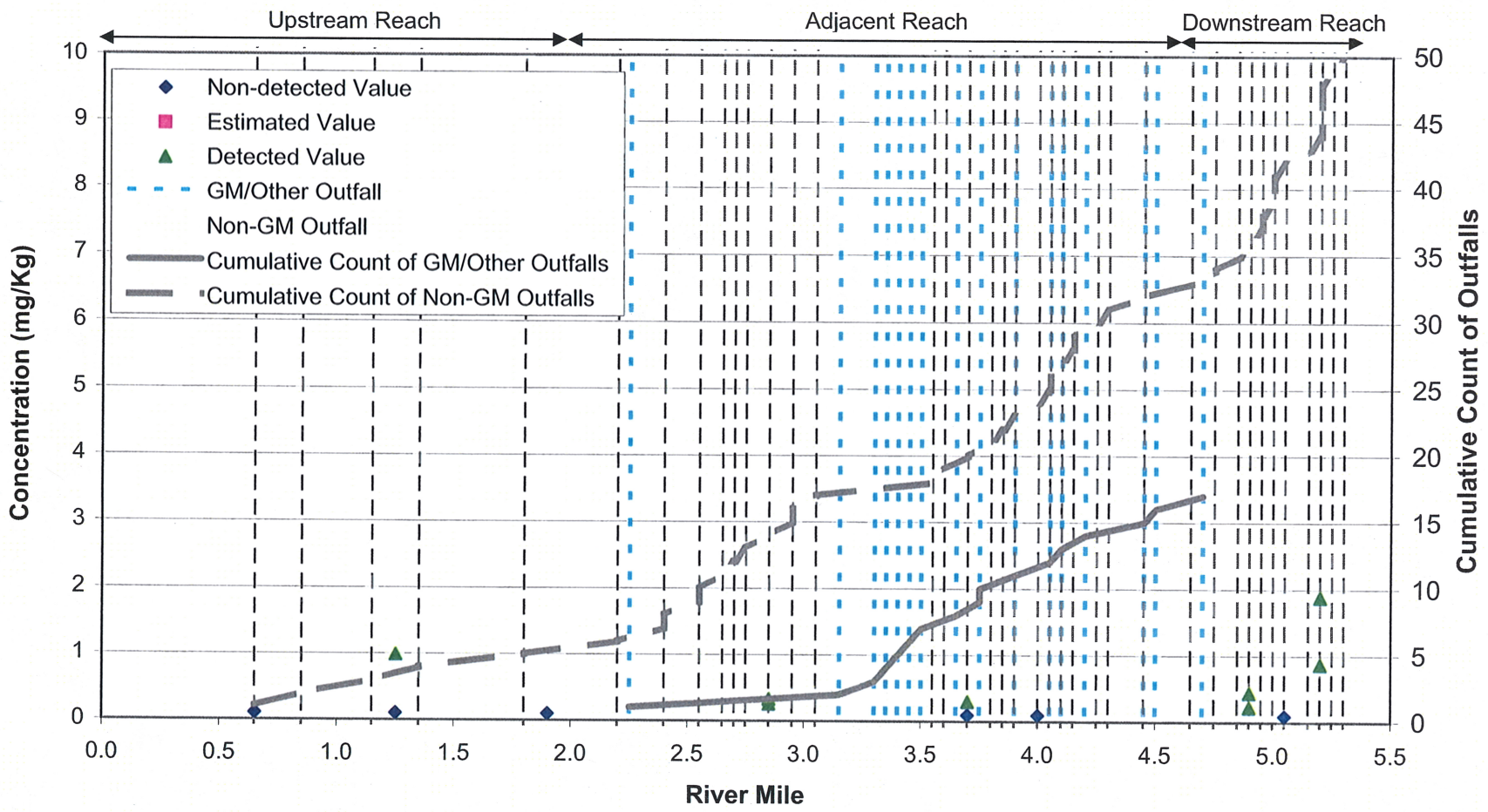
FLINT RIVER SEDIMENT INVESTIGATION

BARIUM CONCENTRATIONS FOR SURFACE SAMPLES BY RIVER MILE

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE

20



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FLINT, MICHIGAN

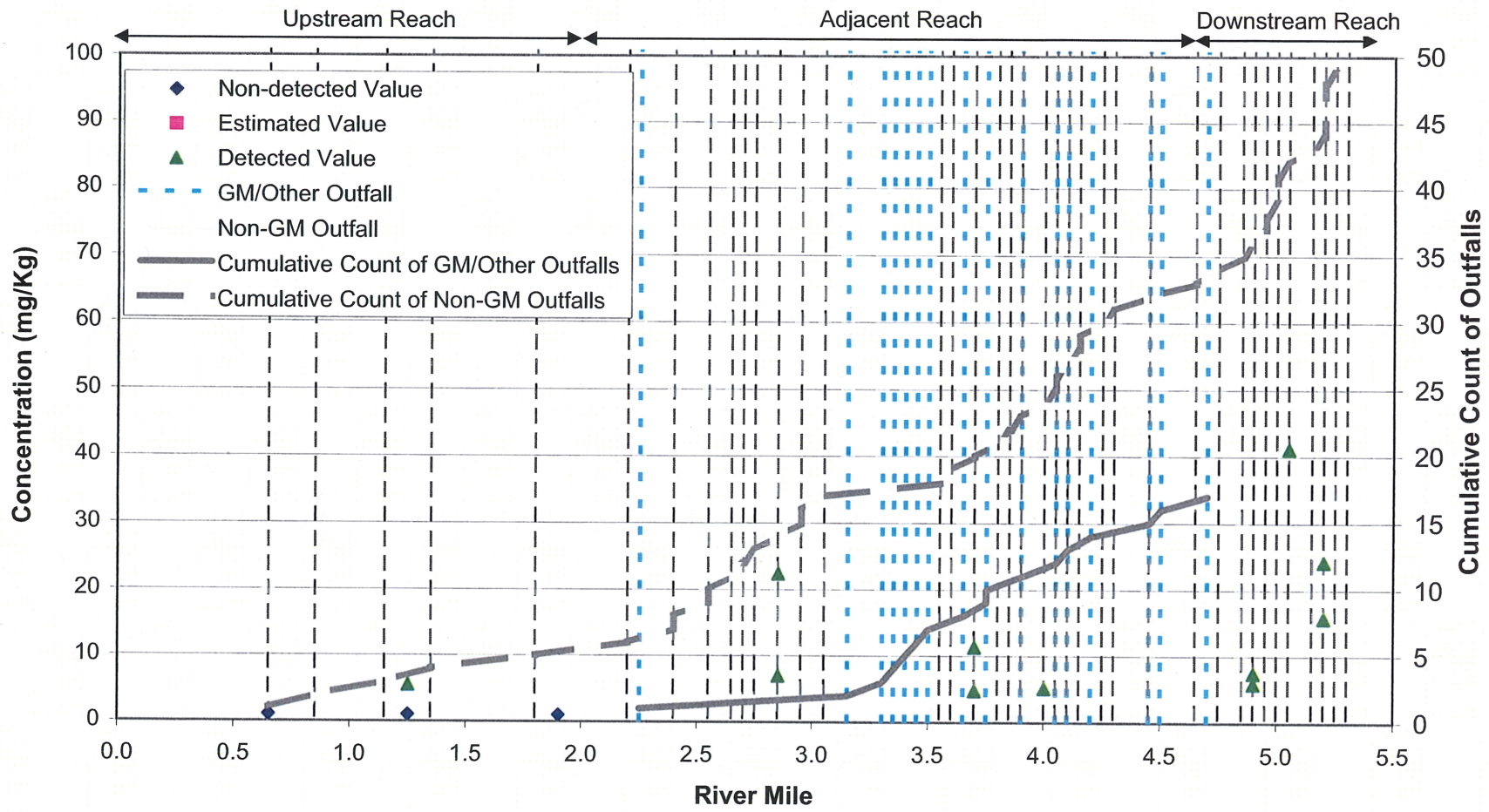
FLINT RIVER SEDIMENT INVESTIGATION

CADMIUM CONCENTRATIONS FOR SURFACE SAMPLES BY RIVER MILE

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE

21



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GENERAL MOTORS CORPORATION

FLINT, MICHIGAN

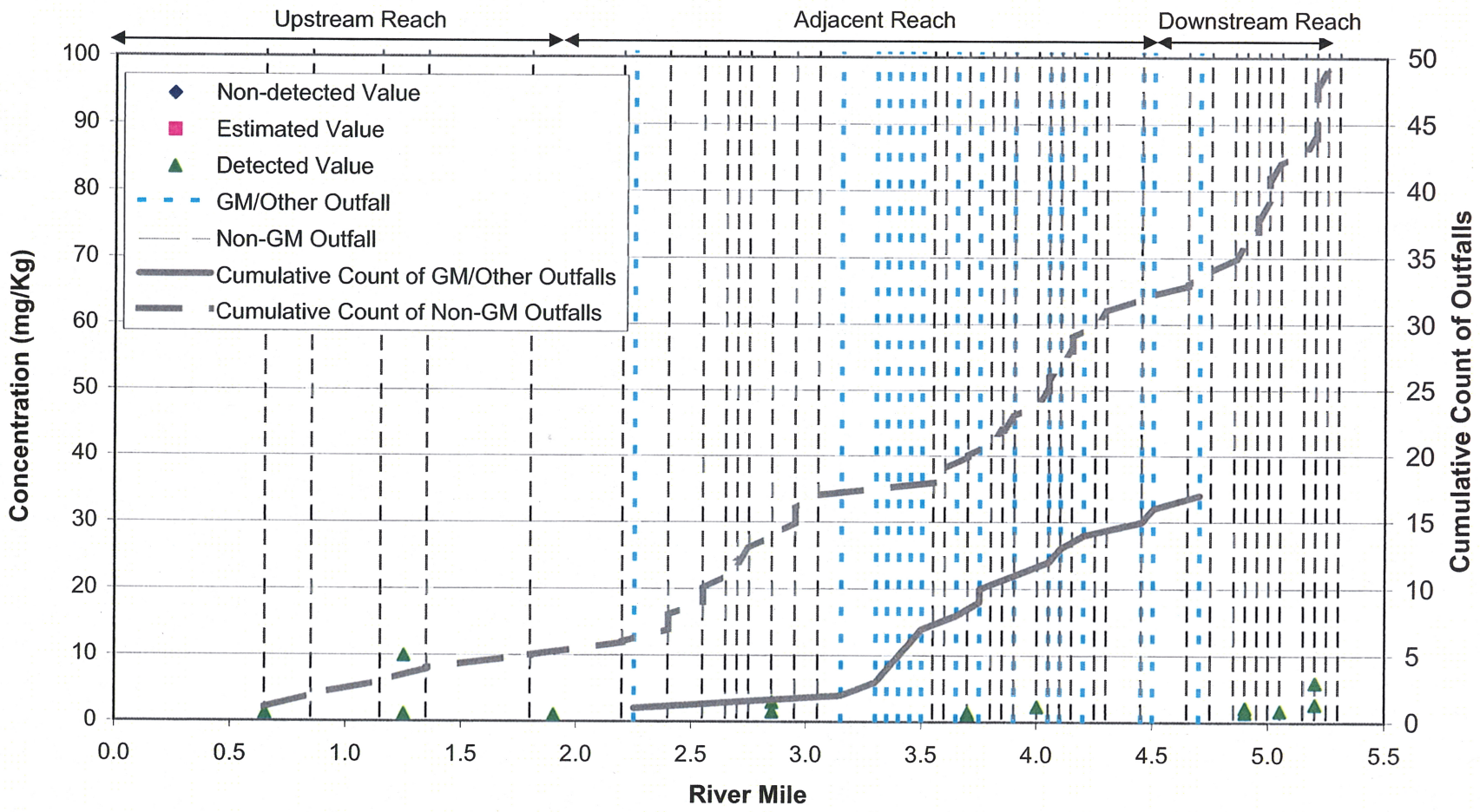
FLINT RIVER SEDIMENT INVESTIGATION

CHROMIUM (TOTAL) CONCENTRATIONS FOR SURFACE SAMPLES BY RIVER MILE

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE

22



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6. mg/Kg = milligrams per kilograms

GENERAL MOTORS CORPORATION

FLINT, MICHIGAN

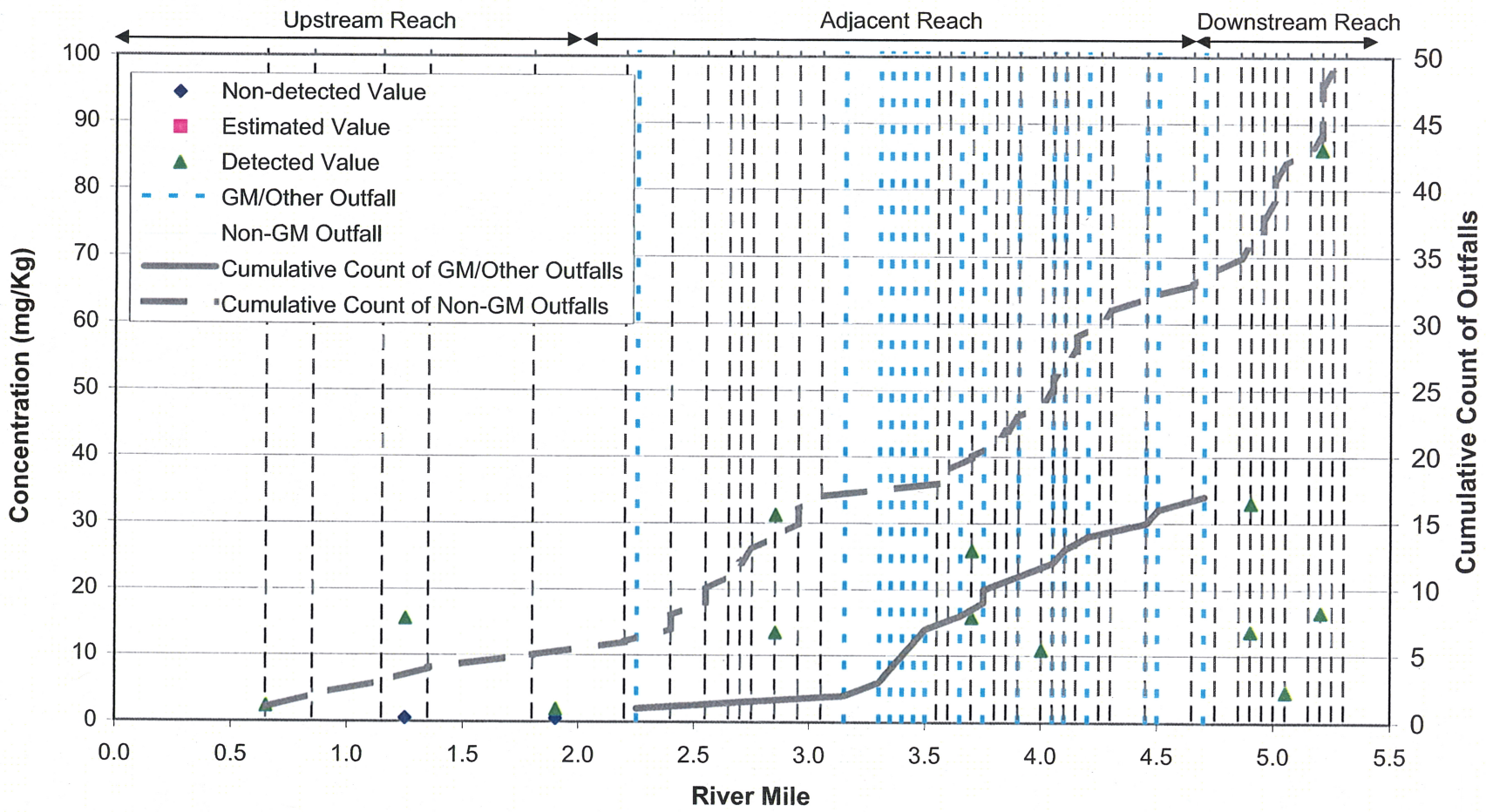
FLINT RIVER SEDIMENT INVESTIGATION

COBALT CONCENTRATIONS FOR SURFACE SAMPLES BY RIVER MILE

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE

23



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6. mg/Kg = milligrams per kilograms

GENERAL MOTORS CORPORATION

FLINT, MICHIGAN

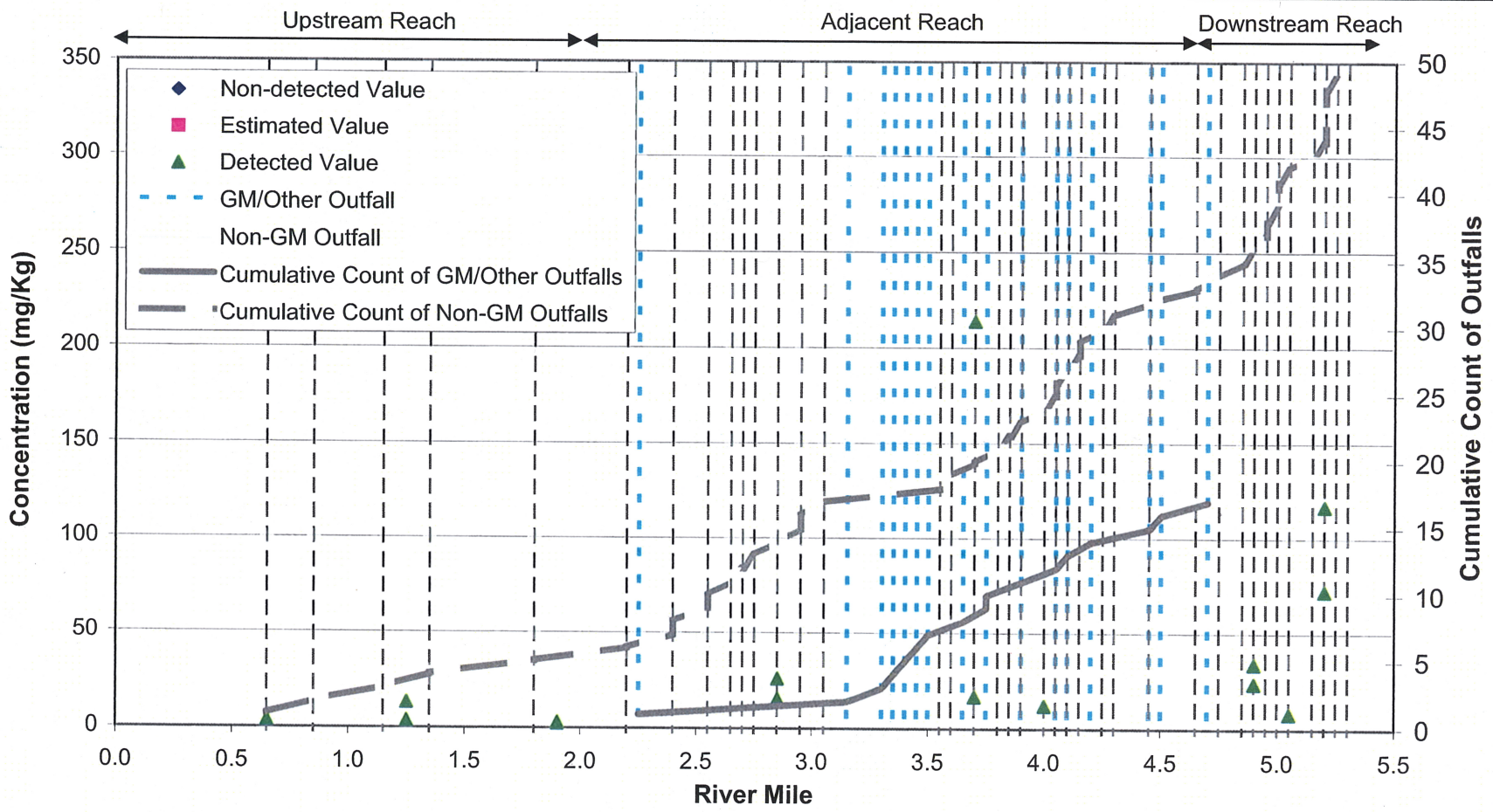
FLINT RIVER SEDIMENT INVESTIGATION

COPPER CONCENTRATIONS FOR SURFACE SAMPLES BY RIVER MILE

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE

24



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GENERAL MOTORS CORPORATION

FLINT, MICHIGAN

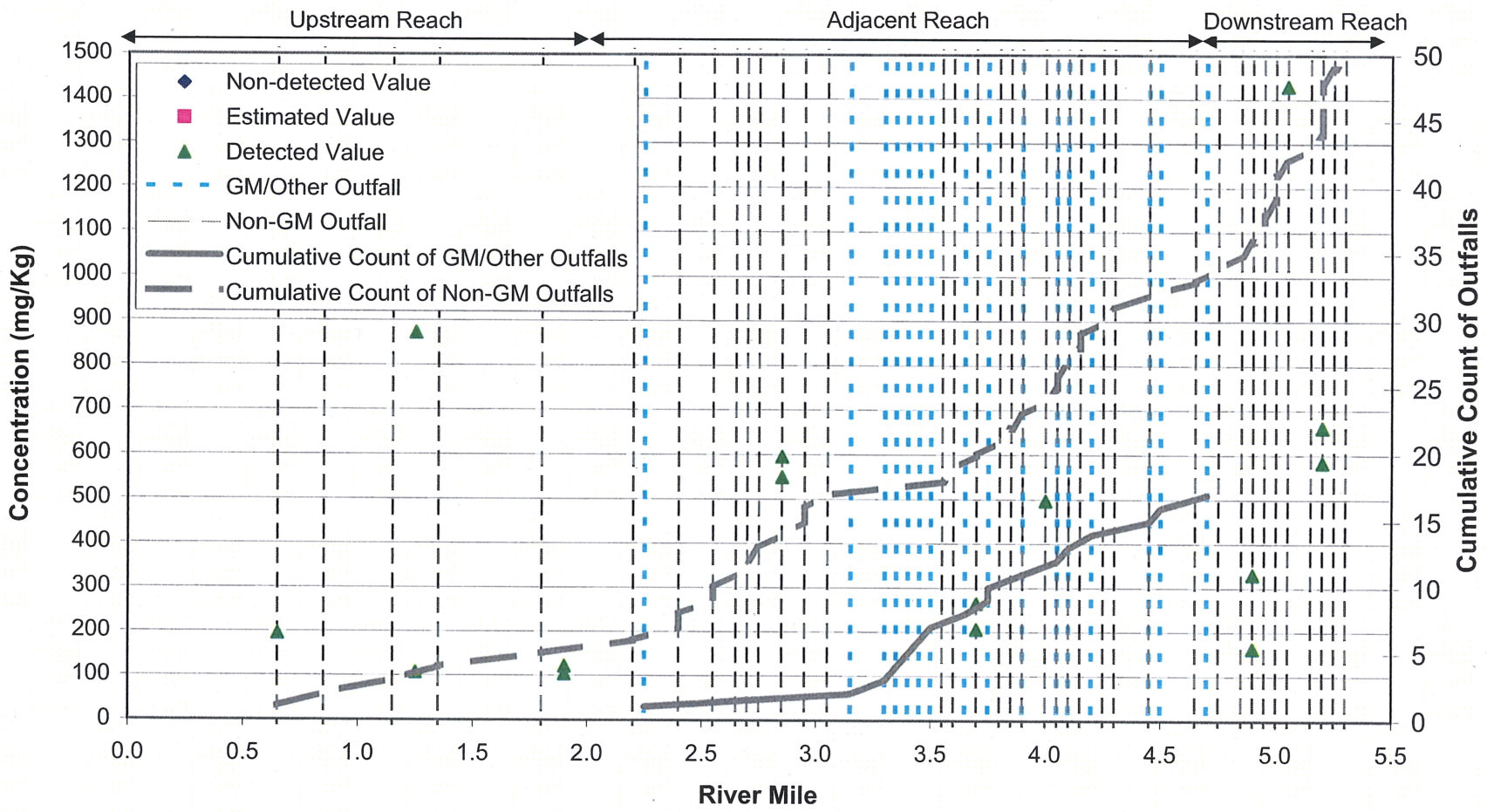
FLINT RIVER SEDIMENT INVESTIGATION

LEAD CONCENTRATIONS FOR SURFACE SAMPLES BY RIVER MILE

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE

25



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6. mg/Kg = milligrams per kilograms

GENERAL MOTORS CORPORATION

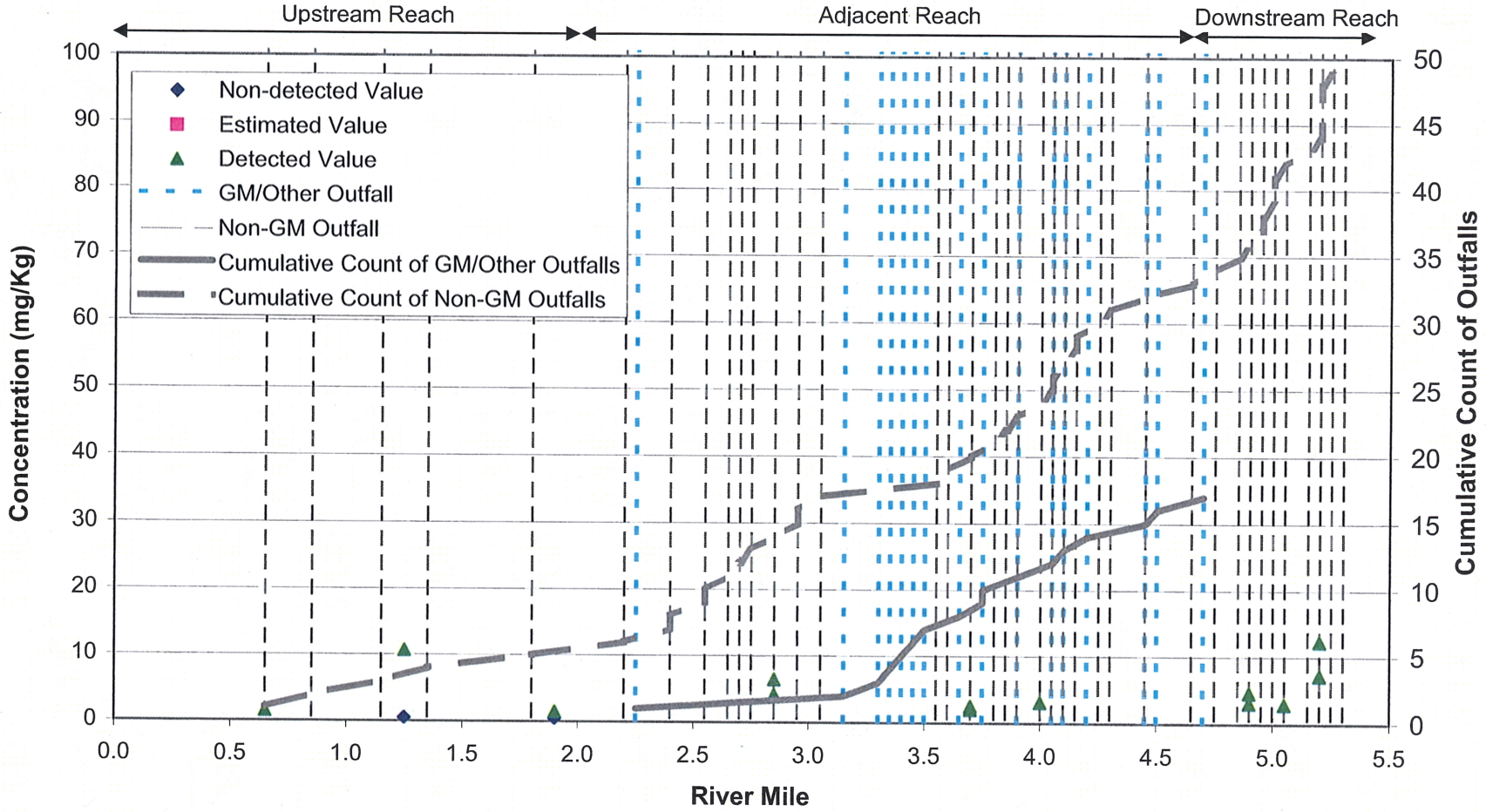
FLINT, MICHIGAN

FLINT RIVER SEDIMENT INVESTIGATION

MANGANESE CONCENTRATIONS FOR SURFACE SAMPLES BY RIVER MILE

ARCADIS BBL
Infrastructure, environment, facilities

FIG



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GENERAL MOTORS CORPORATION

FLINT, MICHIGAN

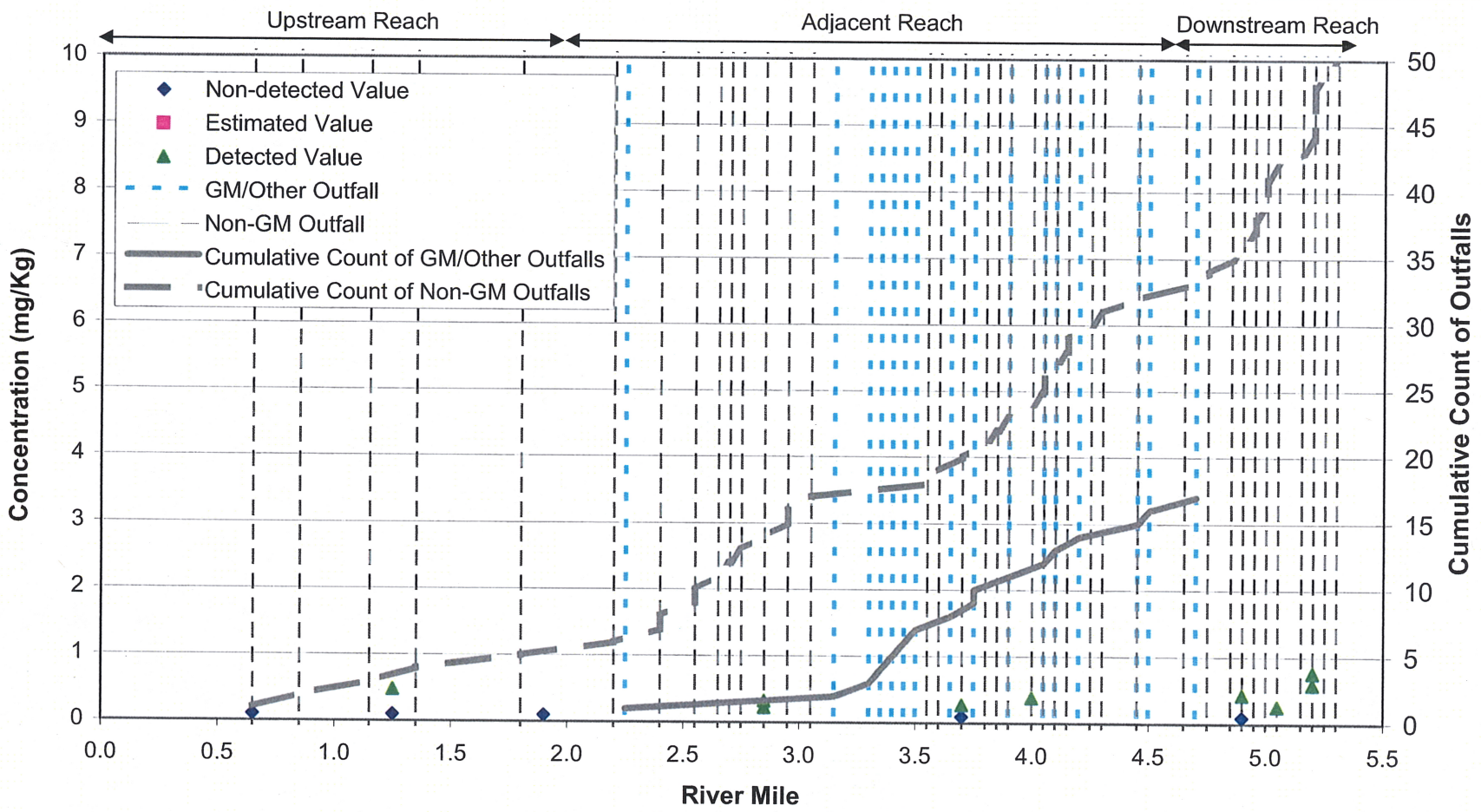
FLINT RIVER SEDIMENT INVESTIGATION

NICKEL CONCENTRATIONS FOR SURFACE SAMPLES BY RIVER MILE

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE

27



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GENERAL MOTORS CORPORATION

FLINT, MICHIGAN

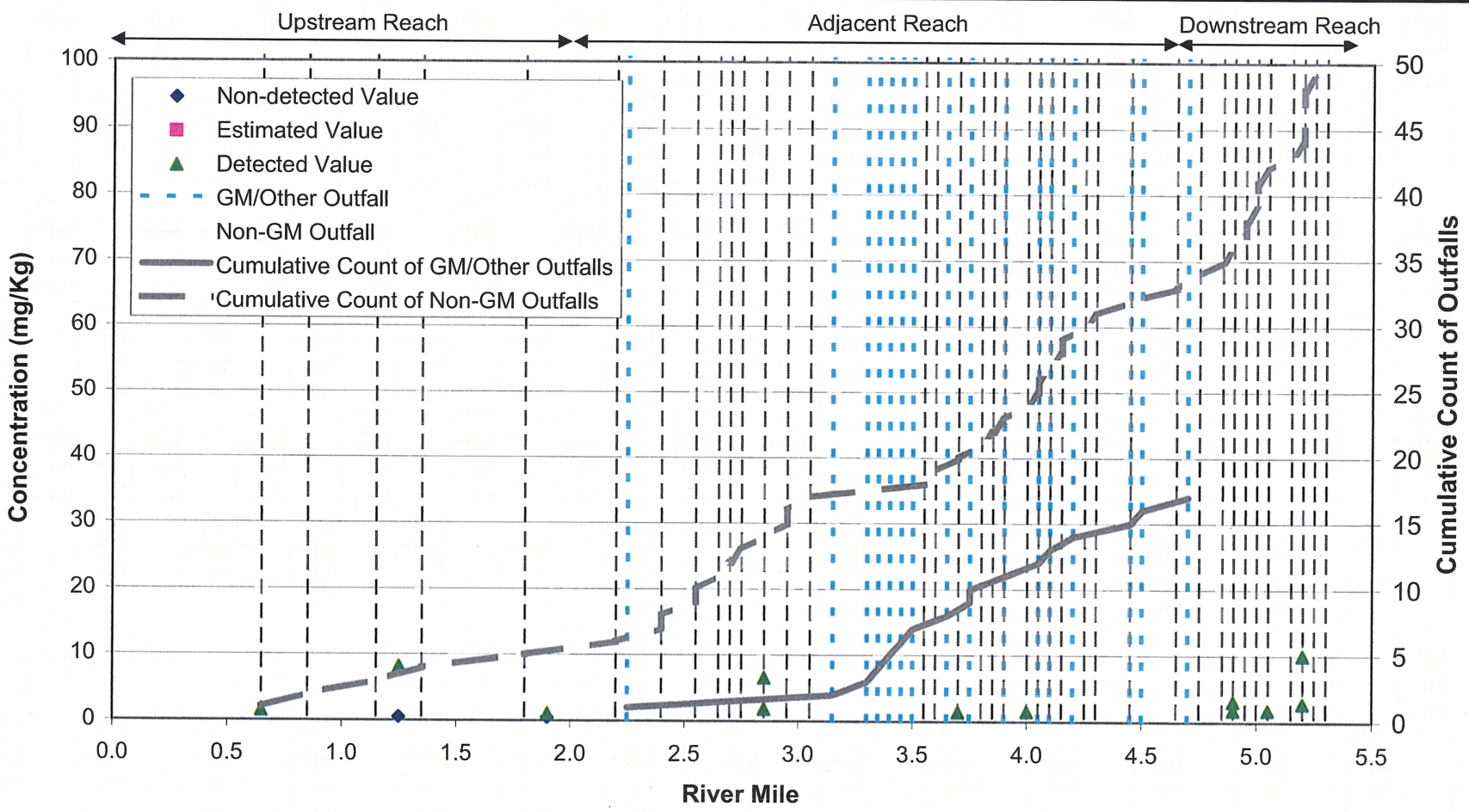
FLINT RIVER SEDIMENT INVESTIGATION

SELENIUM CONCENTRATIONS FOR SURFACE SAMPLES BY RIVER MILE

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE

28



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GENERAL MOTORS CORPORATION

FLINT, MICHIGAN

FLINT RIVER SEDIMENT INVESTIGATION

VANADIUM CONCENTRATIONS FOR SURFACE SAMPLES BY RIVER MILE

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE

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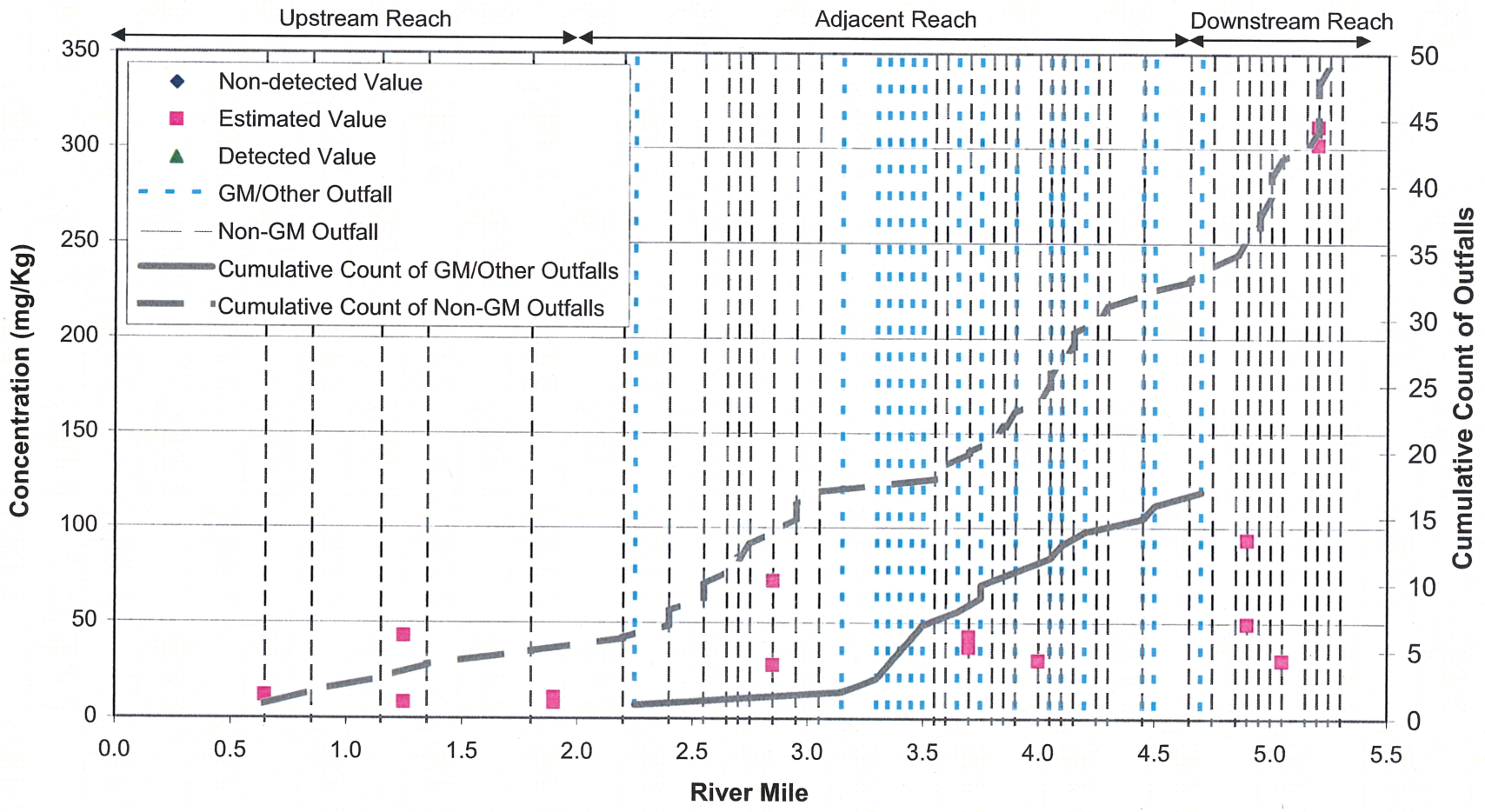

Notes:

1. Sampling was performed by representatives from ARCADIS of New York, Inc. and Exponent during the week of October 30, 2006.
2. Samples were analyzed by Merit Laboratories of East Lansing, MI.
3. All samples were unbiased surface samples taken at a depth of 0-2 inches.
4. Non-detected values were plotted at one-half the detection limit.
5. Field blind duplicate samples were averaged with their corresponding field samples.
6. mg/Kg = milligrams per kilograms

GENERAL MOTORS CORPORATION

FLINT, MICHIGAN

FLINT RIVER SEDIMENT INVESTIGATION

ZINC CONCENTRATIONS FOR SURFACE SAMPLES BY RIVER MILE

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE

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