Hudson River Remedy Part I:
Unremediated PCBs and the Implications for Restoration

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Introduction

Remedial design sampling in the Upper Hudson (Figure 1) showed higher and more widespread PCB concentrations in the surf
ace and mixed-layer natural recovery mass trends predicted for the 2002 remedy.  Average and post-remediation surface sediments will be from
higher in River Section 2 and 3 than in the 2002 ROD due to elevated PCBs remaining in the surface sediments.

Methods

Surface sediment concentrations represent the concentration in the top 12 inches (EPA 2004).  For River Sections 2 and 3, most of the cores were collected from fine-grained sediments.  Average Tri+ and Total PCB concentrations in the Upper Hudson (Figure 2) found higher and more widespread PCB concentrations in the surface sediments.  Average and post-remediation surface sediments will be from higher in River Section 2 and 3 than in the 2002 ROD due to elevated PCBs remaining in the surface sediments.

Results

Average surface PCB concentrations in River Sections 2 and 3 are comparable and exceed 100 mg/kg Tri+ PCB in upper 12 inches.  The average surface PCB concentrations nec

Table 1. Target Cleanup Levels for the Upper Hudson River (EPA, 2002).

<table>
<thead>
<tr>
<th>River Section</th>
<th>Tri+ PCB (mg/kg)</th>
<th>Total PCB (mg/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>3</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>4</td>
<td>40</td>
<td>40</td>
</tr>
</tbody>
</table>

Table 2. Estimated capture efficiency of cores with surface concentration exceeding 10 ppm (EPA 2002).

<table>
<thead>
<tr>
<th>River Section</th>
<th>Capture Efficiency of Cores with Surface Concentration Exceeding 10 ppm (EPA 2002)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.65</td>
</tr>
<tr>
<td>2</td>
<td>0.80</td>
</tr>
<tr>
<td>3</td>
<td>0.85</td>
</tr>
</tbody>
</table>

Table 3. Estimated number of acres and post-remedial surface Tri+ PCB concentrations based on additional cores.

<table>
<thead>
<tr>
<th>River Section</th>
<th>Estimated Tri+ PCB (ppm) in 200 ft of Dredge Prisms with</th>
<th>200 ft of Dredge Prisms with</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Surface Tri+ PCB concentration exceeding 10 ppm within 200 ft of Dredge Prisms</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Surface Tri+ PCB concentration exceeding 10 ppm within 200 ft of Dredge Prisms</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Surface Tri+ PCB concentration exceeding 10 ppm within 200 ft of Dredge Prisms</td>
<td></td>
</tr>
</tbody>
</table>

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Appendix B

Appendix C

Appendix D

Appendix E

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Appendix H

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