Appendix I-B

Time Series of TSS Concentrations and Turbidity Measurements in Near Field Buoy and Transect Stations
Rogers Island Area Background

a. Turbidity Time Series

b. Total Suspended Solids Time Series
East Channel Rogers Island

a. Turbidity Time Series

b. Total Suspended Solids Time Series
East Channel Rogers Island 25m Downstream Transect

a. Turbidity Time Series

```
Sample Date
```

Turbidity (NTU)

b. Total Suspended Solids Time Series

```
Sample Date
```

Total Suspended Solids (mg/L)

TSS = 1.18*Turbidity - 0.25

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East Channel Rogers Island Downstream West

a. Turbidity Time Series

Turbidity (NTU) vs. Sample Date

b. Total Suspended Solids Time Series

Total Suspended Solids (mg/L) vs. Sample Date

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The Louis Berger Group, Inc.
March 2010
East Channel Rogers Island Downstream East

**a. Turbidity Time Series**

- Turbidity (NTU)
- Sample Date

- 593 NTU
- 85 NTU

**b. Total Suspended Solids Time Series**

- Total Suspended Solids (mg/L)
- Sample Date

- WNF-S003
- WNF-S006
- WNF-S010
West Rogers Island: Operation #1 - 100m Upstream Buoy

a. Turbidity Time Series

b. Total Suspended Solids Time Series
West Rogers Island: Operation #1 - 100m Upstream Transect

a. Turbidity Time Series

Turbidity (NTU) vs. Sample Date

b. Total Suspended Solids Time Series

Total Suspended Solids (mg/L) vs. Sample Date

c. Total Suspended Solids vs. Turbidity

TSS = 1.18*Turbidity - 0.25
**a. Turbidity Time Series**

- **Turbidity (NTU)**
- **Sample Date**

**c. Total Suspended Solids vs. Turbidity**

- **Total Suspended Solids (mg/L)**
- **Turbidity (NTU)**

- **Equation:** TSS = 1.18*Turbidity - 0.25
West Rogers Island: Operation #1 - 100m Downstream Transect

a. Turbidity Time Series

Turbidity (NTU)

Sample Date

(1228 NTU @ 6/6)

85 NTU

Total Suspended Solids Time Series

Total Suspended Solids (mg/L)

Sample Date

TSS = 1.18*Turbidity - 0.25

c. Total Suspended Solids vs. Turbidity

Total Suspended Solids (mg/L)

Turbidity (NTU)

TSS = 1.18*Turbidity - 0.25
West Rogers Island: Operation #1 - 300m Downstream Buoy

a. Turbidity Time Series

Turbidity (NTU) vs. Sample Date

b. Total Suspended Solids Time Series

Total Suspended Solids (mg/L) vs. Sample Date
West Rogers Island: Operation #1 - 300m Downstream Transect

a. Turbidity Time Series

Turbidity (NTU) vs. Sample Date

Total Suspended Solids Time Series

Total Suspended Solids (mg/L) vs. Sample Date

c. Total Suspended Solids vs. Turbidity

Total Suspended Solids (mg/L) vs. Turbidity (NTU)

TSS = 1.18*Turbidity - 0.25
West Rogers Island: Operation #2 - 100m Upstream Buoy

a. Turbidity Time Series

b. Total Suspended Solids Time Series
West Rogers Island: Operation #2 - 100m Upstream Transect

a. Turbidity Time Series

Turbidity (NTU) vs. Sample Date

(1194 NTU @ 5/21)

b. Total Suspended Solids Time Series

Total Suspended Solids (mg/L) vs. Sample Date

c. Total Suspended Solids vs. Turbidity

Total Suspended Solids (mg/L) vs. Turbidity (NTU)

TSS = 1.18*Turbidity - 0.25
West Rogers Island: Operation #2 - 10m Side Channel Transect

a. Turbidity Time Series

Turbidity (NTU) vs. Sample Date

Total Suspended Solids Time Series

Total Suspended Solids (mg/L) vs. Sample Date

c. Total Suspended Solids vs. Turbidity

Total Suspended Solids (mg/L) vs. Turbidity (NTU)

TSS = 1.18*Turbidity - 0.25

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Hudson River PCBs Site
March 2010
West Rogers Island: Operation #2 - 100m Downstream Transect

a. Turbidity Time Series

Turbidity (NTU) vs. Sample Date

Sample Dates:
- 5/1
- 5/14
- 5/28
- 6/11
- 6/25
- 7/3
- 7/7
- 7/11
- 7/15
- 7/19
- 8/2
- 8/6
- 8/10
- 8/14
- 8/18
- 8/22
- 8/26
- 9/2
- 9/6
- 9/10
- 9/14
- 9/18
- 9/22
- 9/26
- 10/1
- 10/5
- 10/9
- 10/13
- 10/17
- 10/21
- 10/25
- 11/8
- 11/12
- 11/16
- 11/20
- 11/24
- 12/8
- 12/12
- 12/16
- 12/20
- 12/24

b. Total Suspended Solids vs. Turbidity

Total Suspended Solids (mg/L) vs. Turbidity (NTU)

Equation: TSS = 1.18*Turbidity - 0.25

c. Total Suspended Solids Time Series

Total Suspended Solids (mg/L) vs. Sample Date
a. Turbidity Time Series

Turbidity (NTU)

Sample Date

85 NTU

593 NTU

b. Total Suspended Solids Time Series

Total Suspended Solids (mg/L)

Sample Date
West Rogers Island: Operation #2 - 300m Downstream Transect

a. Turbidity Time Series

Sample Date: 05/01, 05/14, 05/28, 06/11, 06/25, 07/09, 07/23, 08/06, 08/20, 09/02, 09/16, 09/30, 10/14, 10/28, 11/11, 11/25, 12/09

b. Total Suspended Solids Time Series

Sample Date: 05/01, 05/14, 05/28, 06/11, 06/25, 07/09, 07/23, 08/06, 08/20, 09/02, 09/16, 09/30, 10/14, 10/28, 11/11, 11/25, 12/09

c. Total Suspended Solids vs. Turbidity

TSS = 1.18*Turbidity - 0.25
West Rogers Island: Operation #3 - 100m Upstream Buoy

a. Turbidity Time Series

Turbidity (NTU)

Sample Date

b. Total Suspended Solids Time Series

Total Suspended Solids (mg/L)

Sample Date
West Rogers Island: Operation #3 - 100m Upstream Transect

a. Turbidity Time Series

Turbidity (NTU)

Sample Date


b. Total Suspended Solids vs. Turbidity

Total Suspended Solids (mg/L) = 1.18 * Turbidity - 0.25

Sample Date

West Rogers Island: Operation #3 - 10m Side Channel Transect

a. Turbidity Time Series

Turbidity (NTU)

Sample Date


593 NTU

85 NTU

Total Suspended Solids Time Series

Total Suspended Solids (mg/L)

Sample Date


0.1

c. Total Suspended Solids vs. Turbidity

Total Suspended Solids (mg/L) vs. Turbidity (NTU)

TSS = 1.18*Turbidity - 0.25
West Rogers Island: Operation #3 - 100m Downstream Transect

a. Turbidity Time Series

Turbidity (NTU)

Sample Date

5/1, 5/14, 5/28, 6/11, 6/25, 7/9, 7/23, 8/6, 8/20, 9/2, 9/16, 9/30, 10/14, 10/28, 11/11, 11/25, 12/9, 12/23

b. Total Suspended Solids Time Series

Total Suspended Solids (mg/L)

Sample Date

5/1, 5/14, 5/28, 6/11, 6/25, 7/9, 7/23, 8/6, 8/20, 9/2, 9/16, 9/30, 10/14, 10/28, 11/11, 11/25, 12/9, 12/23

c. Total Suspended Solids vs. Turbidity

Total Suspended Solids (mg/L) vs. Turbidity (NTU)

TSS = 1.18*Turbidity - 0.25
a. Turbidity Time Series

b. Total Suspended Solids Time Series
**West Rogers Island: Operation #3 - 300m Downstream Transect**

---

**a. Turbidity Time Series**

- Turbidity (NTU)
- Sample Date
- 85 NTU
- 5/1, 5/14, 5/28, 6/11, 6/25, 7/9, 7/23, 8/6, 8/20, 9/2, 9/16, 9/30, 10/14, 10/28, 11/11, 11/25, 12/9, 12/23

---

**Total Suspended Solids Time Series**

- Total Suspended Solids (mg/L)
- Sample Date
- 5/1, 5/14, 5/28, 6/11, 6/25, 7/9, 7/23, 8/6, 8/20, 9/2, 9/16, 9/30, 10/14, 10/28, 11/11, 11/25, 12/9, 12/23

---

**c. Total Suspended Solids vs. Turbidity**

- TSS = 1.18*Turbidity - 0.25
- Total Suspended Solids (mg/L)
- Turbidity (NTU)
West Rogers Island: Operation #4 - 100m Upstream Buoy

a. Turbidity Time Series

Turbidity (NTU)

Sample Date

b. Total Suspended Solids Time Series

Total Suspended Solids (mg/L)

Sample Date
West Rogers Island: Operation #4 - 300m Downstream Buoy

a. Turbidity Time Series

Turbidity (NTU)

Sample Date

- 593 NTU
- 85 NTU

b. Total Suspended Solids Time Series

Total Suspended Solids (mg/L)

Sample Date
West Rogers Island: Operation #5 - 100m Upstream Buoy

a. Turbidity Time Series

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<th>Turbidity (NTU)</th>
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b. Total Suspended Solids Time Series

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West Rogers Island: Operation #6 - 100m Upstream Buoy

a. Turbidity Time Series

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West Rogers Island: Operation #6 - 10m Side Channel Transect

a. Turbidity Time Series

b. Total Suspended Solids Time Series

c. Total Suspended Solids vs. Turbidity

TSS = 1.18*Turbidity - 0.25
West Rogers Island: Operation #6 - 100m Downstream Transect

a. Turbidity Time Series

Turbidity (NTU)

Sample Date


Turbidity

593 NTU

85 NTU

b. Total Suspended Solids Time Series

Total Suspended Solids (mg/L)

Sample Date

0.1 1 02 03 04 05 06 07 08 09 10 11 12 13

Total Suspended Solids

0.1

1

10

100

1000

10

1

c. Total Suspended Solids vs. Turbidity

Total Suspended Solids (mg/L) vs. Turbidity (NTU)

TSS = 1.18*Turbidity - 0.25

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The Louis Berger Group, Inc.
March 2010
West Rogers Island: Operation #6 - 300m Downstream Buoy

a. Turbidity Time Series

Turbidity (NTU)

Sample Date

b. Total Suspended Solids Time Series

Total Suspended Solids (mg/L)

Sample Date
West Rogers Island: Operation #6 - 300m Downstream Transect

a. Turbidity Time Series

Turbidity (NTU)

Sample Date

b. Total Suspended Solids Time Series

Total Suspended Solids (mg/L)

Sample Date
c. Total Suspended Solids vs. Turbidity

TSS = 1.18*Turbidity - 0.25

The Louis Berger Group, Inc.
March 2010
Lock 7: Operation #1 - 100m Upstream Buoy

a. Turbidity Time Series

b. Total Suspended Solids Time Series
Lock 7: Operation #1 - 100m Upstream Transect

a. Turbidity Time Series

Turbidity (NTU)

Sample Date


85 NTU

b. Total Suspended Solids Time Series

Total Suspended Solids (mg/L)

Sample Date


TSS = 1.18*Turbidity - 0.25

c. Total Suspended Solids vs. Turbidity

TSS = 1.18*Turbidity - 0.25
a. Turbidity Time Series

Total Suspended Solids Time Series

c. Total Suspended Solids vs. Turbidity

TSS = 1.18*Turbidity - 0.25
a. Turbidity Time Series

Turbidity (NTU)

Sample Date

0 5 10 15 20 25 30


b. Total Suspended Solids Time Series

Total Suspended Solids (mg/L)

Sample Date

0 5 10 15 20 25 30

c. Total Suspended Solids vs. Turbidity

Total Suspended Solids (mg/L)

Turbidity (NTU)

TSS = 1.18*Turbidity - 0.25

EPA Phase I Evaluation Report
Hudson River PCBs Site

March 2010
Lock 7: Operation #1 - 300m Downstream Buoy

a. Turbidity Time Series

- Turbidity (NTU)
- Sample Date:
  - 5/1
  - 5/14
  - 5/28
  - 6/11
  - 6/25
  - 7/9
  - 7/23
  - 8/6
  - 8/20
  - 9/2
  - 9/16
  - 9/30
  - 10/14
  - 10/28
  - 11/11
  - 11/25
  - 12/9
  - 12/23

- 593 NTU
- 85 NTU

b. Total Suspended Solids Time Series

- Total Suspended Solids (mg/L)
- Sample Date:
  - 5/1
  - 5/14
  - 5/28
  - 6/11
  - 6/25
  - 7/9
  - 7/23
  - 8/6
  - 8/20
  - 9/2
  - 9/16
  - 9/30
  - 10/14
  - 10/28
  - 11/11
  - 11/25
  - 12/9
  - 12/23

- WNF-S009
- WNF-S017
Lock 7: Operation #1 - 300m Downstream Transect

a. Turbidity Time Series

Turbidity (NTU) vs. Sample Date


Turbidity (NTU)

85 NTU

b. Total Suspended Solids Time Series

Total Suspended Solids (mg/L) vs. Sample Date


Total Suspended Solids (mg/L)

30

\[ \text{TSS} = 1.18 \times \text{Turbidity} - 0.25 \]

c. Total Suspended Solids vs. Turbidity

Total Suspended Solids (mg/L) vs. Turbidity (NTU)

TSS = 1.18 * Turbidity - 0.25
Lock 7: Operation #2 - 100m Upstream Buoy

a. Turbidity Time Series

- Turbidity (NTU) vs. Sample Date
- Data points for turbidity levels over time
- Key turbidity levels: 85 NTU, 593 NTU, 85 NTU

b. Total Suspended Solids Time Series

- Total Suspended Solids (mg/L) vs. Sample Date
- Two data series: WNF-S010 and WNF-S017
- Sampling dates range from May 1 to December 23, 2023
Lock 7: Operation #2 - 100m Upstream Transect

a. Turbidity Time Series

Turbidity (NTU)

Sample Date

b. Total Suspended Solids Time Series

Total Suspended Solids (mg/L)

Sample Date

c. Total Suspended Solids vs. Turbidity

Total Suspended Solids (mg/L)

Turbidity (NTU)

TSS = 1.18*Turbidity - 0.25
Lock 7: Operation #2 - 10m Side Channel Transect

a. Turbidity Time Series

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```

b. Total Suspended Solids vs. Turbidity

\[ \text{TSS} = 1.18 \times \text{Turbidity} - 0.25 \]

c. Total Suspended Solids Time Series
Lock 7: Operation #2 - 100m Downstream Transect

a. Turbidity Time Series

Turbidity (NTU)

Sample Date


Total Suspended Solids Time Series

Total Suspended Solids (mg/L)

Sample Date


Total Suspended Solids vs. Turbidity

Total Suspended Solids (mg/L) vs. Turbidity (NTU)

TSS = 1.18*Turbidity - 0.25
Lock 7: Operation #2 - 300m Downstream Buoy

a. Turbidity Time Series

Sample Date

Turbidity (NTU)

85 NTU

593 NTU

85 NTU

b. Total Suspended Solids Time Series

Sample Date

Total Suspended Solids (mg/L)
Lock 7: Operation #2 - 300m Downstream Transect

a. Turbidity Time Series

b. Total Suspended Solids Time Series

c. Total Suspended Solids vs. Turbidity

TSS = 1.18*Turbidity - 0.25
Lock 7: Operation #3 - 100m Upstream Buoy

a. Turbidity Time Series

b. Total Suspended Solids Time Series
Lock 7: Operation #3 - 300m Downstream Buoy

a. Turbidity Time Series

![Turbidity Time Series Graph]

- Sample Date:
  - 5/1
  - 5/14
  - 5/28
  - 6/11
  - 6/25
  - 7/9
  - 7/23
  - 8/6
  - 8/20
  - 9/2
  - 9/16
  - 9/30
  - 10/14
  - 10/28
  - 11/11
  - 11/25
  - 12/9
  - 12/23

- Turbidity (NTU):
  - 85 NTU
  - 593 NTU

b. Total Suspended Solids Time Series

![Total Suspended Solids Time Series Graph]
Lock 7: Operation #4 - 100m Upstream Buoy

a. Turbidity Time Series

b. Total Suspended Solids Time Series
Lock 7: Operation #4 - 300m Downstream Buoy

a. Turbidity Time Series

Turbidity (NTU)

Sample Date

EPA Phase I Evaluation Report
Hudson River PCBs Site
March 2010
East Griffin Island Area Upstream

**a. Turbidity Time Series**

- Turbidity (NTU)
- Sample Date:
  - 5/1
  - 5/14
  - 5/28
  - 6/11
  - 6/25
  - 7/7
  - 7/9
  - 7/23
  - 8/6
  - 8/16
  - 9/2
  - 9/16
  - 9/30
  - 10/14
  - 10/28
  - 11/1
  - 11/25
  - 12/9
  - 12/23

**b. Total Suspended Solids Time Series**

- Total Suspended Solids (mg/L)
- Sample Date:
  - 5/1
  - 5/14
  - 5/28
  - 6/11
  - 6/25
  - 7/7
  - 7/9
  - 7/23
  - 8/6
  - 8/16
  - 9/2
  - 9/16
  - 9/30
  - 10/14
  - 10/28
  - 11/1
  - 11/25
  - 12/9
  - 12/23

- Concentrations:
  - 100 mg/L
  - 700 mg/L
  - 152 mg/L @ 7/13

- Sources:
  - WNF-S004
  - WNF-S016

EPA Phase I Evaluation Report
Hudson River PCBs Site

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East Griffin Island Side Channel

a. Turbidity Time Series

<table>
<thead>
<tr>
<th>Sample Date</th>
<th>Turbidity (NTU)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/1</td>
<td>85 NTU</td>
</tr>
<tr>
<td>5/14</td>
<td>593 NTU</td>
</tr>
<tr>
<td>5/28</td>
<td></td>
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<tr>
<td>6/11</td>
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<td>7/9</td>
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<td>9/16</td>
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<td>12/9</td>
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<tr>
<td>12/23</td>
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</tbody>
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b. Total Suspended Solids Time Series

<table>
<thead>
<tr>
<th>Sample Date</th>
<th>Total Suspended Solids (mg/L)</th>
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<tbody>
<tr>
<td>5/1</td>
<td>100 mg/L</td>
</tr>
<tr>
<td>5/14</td>
<td>700 mg/L</td>
</tr>
<tr>
<td>5/28</td>
<td>100 mg/L</td>
</tr>
<tr>
<td>6/11</td>
<td>100 mg/L</td>
</tr>
<tr>
<td>6/25</td>
<td>100 mg/L</td>
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<tr>
<td>7/9</td>
<td>100 mg/L</td>
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<tr>
<td>7/23</td>
<td>100 mg/L</td>
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<tr>
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<td>12/9</td>
<td>100 mg/L</td>
</tr>
<tr>
<td>12/23</td>
<td>100 mg/L</td>
</tr>
</tbody>
</table>
East Griffin Island Inside Containment

a. Turbidity Time Series

Sample Date

Turbidity (NTU)

5/1
5/14
5/28
6/11
6/25
7/9
7/23
8/6
8/20
9/2
9/16
9/30
10/14
10/28
11/11
11/25
12/9
12/23

b. Total Suspended Solids Time Series

Sample Date

Total Suspended Solids (mg/L)

5/1
5/14
5/28
6/11
6/25
7/9
7/23
8/6
8/20
9/2
9/16
9/30
10/14
10/28
11/11
11/25
12/9
12/23

85 NTU
593 NTU
100 mg/L
700 mg/L
(2696 mg/L @ 9/10)
100 mg/L

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The Louis Berger Group, Inc.
March 2010
East Griffin Island Area 100m Downstream

a. Turbidity Time Series

Turbidity (NTU)

Sample Date

b. Total Suspended Solids Time Series

Total Suspended Solids (mg/L)

Sample Date
East Griffin Island 300m Downstream East

a. Turbidity Time Series

Turbidity (NTU) vs. Sample Date

- Turbidity values range from 0.1 NTU to 1000 NTU.
- Key data points:
  - 5/1: 593 NTU
  - 5/14: 85 NTU

b. Total Suspended Solids Time Series

Total Suspended Solids (mg/L) vs. Sample Date

- Total Suspended Solids values range from 0.1 mg/L to 100 mg/L.
- Key data points:
  - 5/1: 484 mg/L
  - 5/14: 365 mg/L
  - 5/28: 339 mg/L
  - 6/11: 328 mg/L
  - 6/25: 325 mg/L
  - 7/9: 302 mg/L
  - 7/23: 299 mg/L
  - 8/6: 296 mg/L
  - 8/20: 293 mg/L
  - 9/2: 245 mg/L
  - 9/16: 242 mg/L
  - 9/30: 240 mg/L
  - 10/14: 238 mg/L
  - 10/28: 236 mg/L
  - 11/11: 234 mg/L
  - 11/25: 232 mg/L
  - 12/9: 230 mg/L
  - 12/23: 228 mg/L
East Griffin Island 300m Downstream West

a. Turbidity Time Series

Turbidity (NTU)

Sample Date


b. Total Suspended Solids Time Series

Total Suspended Solids (mg/L)

Sample Date