## Water Quality Test Results

**Survey Date:** 10/15/2013  
**Survey Type:** V - Vessel Based  
**Construction Activity:** DRR - Dredging  
**Comments:**  
**Tide:** Ebb  
**Source Location:** Dredge 506  

### Sample Location

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Total Suspended Solids</th>
<th>Mercury</th>
<th>Nickel</th>
<th>Copper</th>
<th>Lead</th>
<th>Zinc</th>
<th>PCB</th>
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</thead>
<tbody>
<tr>
<td><strong>Sample ID</strong></td>
<td>101513-D506-E-U</td>
<td></td>
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</tr>
</tbody>
</table>

### Distance to Source

- **Upcurrent (Ambient):** Approx. 500 - 1000 ft<sup>1</sup>
- **Downcurrent:** 500 ft<sup>2</sup>

### Sample ID

- Upcurrent: 101513-D506-E-U  
- Downcurrent: 101513-D506-E-D

### Sample Time

- **Upcurrent (Ambient):** 10:47  
- **Downcurrent:** 11:02

### Unit

<table>
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<th>Copper</th>
<th>Lead</th>
<th>Zinc</th>
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### Detection Limit

- **Ambient + 100**  

### Water Quality Standard

- **S** = Near Surface, **M** = Mid-Depth, **B** = Near Bottom

### Analytical Result

#### S

<table>
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<th>Mercury</th>
<th>Nickel</th>
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### Notes:

1. Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible.
2. Samples collected at the edge of the 500 ft mixing zone.
4. **ND** = Not Detected.
5. **NS** = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.
**Survey Date:** 10/15/2013  
**Survey Type:** V - Vessel Based  
**Construction Activity:** DRR - Dredging  
**Tide:** Flood  
**Source Location:** Dredge 506

<table>
<thead>
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<th>Copper</th>
<th>Lead</th>
<th>Zinc</th>
<th>PCB</th>
<th>Benzo(a)pyrene</th>
<th>Total Suspended Solids</th>
<th>Mercury</th>
<th>Nickel</th>
<th>Copper</th>
<th>Lead</th>
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**Notes:**  
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3. Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14  
4. No detection limit or water quality standard  
5. None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages  
6. ND = Not Detected  
7. NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
8. S = Near Surface, M = Mid-Depth, B = Near Bottom
### Survey Details

- **Survey Date:** 10/15/2013
- **Survey Type:** V - Vessel Based
- **Construction Activity:** DRR - Dredging
- **Comments:**
- **Tide:** Ebb
- **Source Location:** Dredge 551

### Sample Locations

<table>
<thead>
<tr>
<th>Sample Location</th>
<th>Upcurrent (Ambient)</th>
<th>Downcurrent</th>
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<tr>
<td><strong>Distance to Source</strong></td>
<td>Approx. 500 - 1000 ft&lt;sup&gt;1&lt;/sup&gt;</td>
<td>500 ft&lt;sup&gt;2&lt;/sup&gt;</td>
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<tr>
<td><strong>Sample ID</strong></td>
<td>101513-D551-E-U</td>
<td>101513-D551-E-D</td>
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### Sample Time

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### Water Quality Standard

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### Analytical Results

| Analytical Result | S | NS | M | ND | ND | ND | ND | 15 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
|-------------------|---|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|                   |   |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

**Notes:**

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   * None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

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- **NS** = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.
- **S** = Near Surface, **M** = Mid-Depth, **B** = Near Bottom
<table>
<thead>
<tr>
<th>Survey Date</th>
<th>10/15/2013</th>
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<td>Tide</td>
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<td>Source Location</td>
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<td>Distance to Source</td>
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<table>
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<th>Lead</th>
<th>Zinc</th>
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<tr>
<td>Ambient + 100</td>
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Notes:
1. Samples collected at a location upcurrent of the source where the water quality effects of the project are no longer discernible
2. Samples collected at the edge of the 500 ft mixing zone
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**Survey Date**: 10/16/2013  
**Survey Type**: V - Vessel Based  
**Construction Activity**: DRR - Dredging  
**Source Location**: Dredge 551

<table>
<thead>
<tr>
<th>Sample Location</th>
<th>Upcurrent (Ambient)</th>
<th>Downcurrent</th>
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<tbody>
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<td><strong>Parameter</strong></td>
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</tr>
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<td>(ppm)</td>
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<td><strong>Water Quality Standard</strong></td>
<td>* 0.0007</td>
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<td><strong>Analytical Result</strong></td>
<td>S</td>
<td>NS</td>
</tr>
<tr>
<td><strong>Tide</strong></td>
<td>Ebb</td>
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<thead>
<tr>
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<thead>
<tr>
<th>Sample Location</th>
<th>Upcurrent (Ambient)</th>
<th>Downcurrent</th>
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<tbody>
<tr>
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<th>Nickel</th>
<th>Copper</th>
<th>Lead</th>
<th>Zinc</th>
<th>PCB</th>
<th>Benzo(a)pyrene</th>
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</thead>
<tbody>
<tr>
<td></td>
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<tr>
<td>Water Quality Standard³</td>
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<td>Tide</td>
<td>Flood</td>
</tr>
<tr>
<td>Source Location</td>
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<table>
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<th>Sample Location</th>
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<tbody>
<tr>
<td>Distance to Source</td>
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Notes:
1. Samples collected at a location upcurrent of the source where the water quality effects of the project are no longer discernible
2. Samples collected at the edge of the 500 ft mixing zone
3. Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
4. No detection limit or water quality standard
5. No from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
6. S = Near Surface, M = Mid-Depth, B = Near Bottom
## Sample Location Summary

### Survey Details
- **Survey Date**: 10/17/2013
- **Survey Type**: V - Vessel Based
- **Construction Activity**: DRR - Dredging
- **Tide**: Ebb
- **Source Location**: Decant Operations

### Sample Time
- **Upcurrent (Ambient)**: 14:36
- **Downcurrent**: 14:54

### Parameter Analysis
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### Analytical Results
- **S**: 10.8 ND ND ND ND 14 ND ND ND ND ND
- **M**: NS
- **B**: 37.6 ND ND ND ND 14 ND ND ND ND ND

### Notes:
1. Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible.
2. Samples collected at the edge of the 500 ft mixing zone.
4. ND = Not Detected
   - NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.
### Survey Date
10/17/2013

### Survey Type
V - Vessel Based

### Construction Activity
DRR - Dredging

### Tide
Flood

### Source Location
Dredge 506

#### Sample Location
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#### Sample ID
101713-D506-F-U
101713-D506-F-D

#### Sample Time
10:06
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#### Detection Limit
1. Ambient + 0.05 ppm
2. Water Quality Standard

#### Water Quality Standard
* 0.0007
- 8.2
- 5.6
- 8.0
- 66
- 16
- 0.0006

#### Analytical Result
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#### Notes:
1. Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
2. Samples collected at the edge of the 500 ft mixing zone
3. Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
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6. ND = Not Detected
7. NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.
8. S = Near Surface, M = Mid-Depth, B = Near Bottom
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Notes:

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### Sample Location

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## Sample Location

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## Sample Time

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<tr>
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<td>5.6</td>
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<td>16</td>
<td>0.0006</td>
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</table>

## Analytical Result

<table>
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<tr>
<th>Parameter</th>
<th>Total Suspended Solids</th>
<th>Mercury</th>
<th>Nickel</th>
<th>Copper</th>
<th>Lead</th>
<th>Zinc</th>
<th>PCB Aroclor 1242</th>
<th>PCB Aroclor 1248</th>
<th>PCB Aroclor 1254</th>
<th>PCB Aroclor 1260</th>
<th>Naphthalene</th>
<th>Benzo(a)pyrene</th>
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</thead>
<tbody>
<tr>
<td>Ambient + 0.05</td>
<td>0.05</td>
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<td>--</td>
<td>16</td>
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</tbody>
</table>

## Notes

1. Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
2. Samples collected at the edge of the 500 ft mixing zone
3. Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
4. No detection limit or water quality standard
5. None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
6. ND = Not Detected
7. NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.
8. S = Near Surface, M = Mid-Depth, B = Near Bottom
<table>
<thead>
<tr>
<th>Sample Location</th>
<th>Upcurrent (Ambient)</th>
<th>Downcurrent</th>
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<td></td>
</tr>
<tr>
<td>Mercury</td>
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<td>0.05</td>
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<tr>
<td>Nickel</td>
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<td>-</td>
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<tr>
<td>Copper</td>
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<tr>
<td>Lead</td>
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<td>-</td>
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<tr>
<td>Zinc</td>
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<td>0.2</td>
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<td>PCB</td>
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<tr>
<td>Aroclor 1242</td>
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<td>0.2</td>
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<td>Aroclor 1248</td>
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<tr>
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<td>Benzo(a)pyrene</td>
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<tr>
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<tr>
<td>Naphthalene</td>
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<td>Benzo(a)pyrene</td>
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<td>Water Quality Standard3</td>
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<td>Tide</td>
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</tbody>
</table>

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### Table: Water Quality Data

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<thead>
<tr>
<th>Parameter</th>
<th>Upcurrent (Ambient)</th>
<th>Downcurrent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Suspended Solids</td>
<td>0.05</td>
<td>0.05</td>
</tr>
<tr>
<td>Mercury</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Nickel</td>
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</tr>
<tr>
<td>Benzo(a)pyrene</td>
<td>--</td>
<td>0.1</td>
</tr>
</tbody>
</table>

### Units
- (ppm) for Total Suspended Solids, Mercury, Nickel, Copper, Lead, Zinc, PCB, and Naphthalene
- (ppb) for Benzo(a)pyrene

### Detection Limits
- Ambient: 0.05 ppm for all parameters

### Water Quality Standard
- * 0.0007 ppm for all parameters

### Analytical Result
- S: Near Surface, M: Mid-Depth, B: Near Bottom

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