Stewart International Airport and New York State Air National Guard Base

Lake Washington

Brown’s Pond

Newburgh Water Supply
Orange County, New York

Lake Washington Watershed

New York City Aqueduct
Closed Landfills

Inlet diversion structures
Primary Lake Washington Intake
Brown’s Pond Direct Intake
Drainage Area of Concern

Retention Pond South of Stewart Air National Guard Base

- 2000 2 x 2000 gallon foam releases
- Foam training area
- 1996 FedEx Plane Fire

NYS DEC Sampling Locations

March 2016 – May 2016
PFOS Sampling Results (ng/L)

Surface Water

<table>
<thead>
<tr>
<th>Drainage Path</th>
<th>PFOS Levels (ppt)</th>
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</thead>
<tbody>
<tr>
<td>Western Airfield Drains 560</td>
<td></td>
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<tr>
<td>Eastern Airfield Drains 5900</td>
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<tr>
<td>Western Interceptor Drain 790</td>
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<tr>
<td>NY Route 17K Storm Drain 480</td>
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<tr>
<td>Drainage to Silver Stream</td>
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<tr>
<td>Retention Pond Outfall 660</td>
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</tbody>
</table>

Sediment
Fingerprinting – Watershed Samples

PFCs by Type - Lake Washington & Stream Samples

- PFOA
- PFHxS
- PFOS

Wetland sample downstream of landfills

Fingerprinting – Source Samples

% PFCs by Type - Outfall & Retention Pond Samples

- Eastern Airfield Drain (5900 ppt)
- Rt 17K Storm Drain
- Retention Pond Outfall

- PFOA
- PFHxS
- PFOS
Actions Taken

• Switch water source to Brown’s Pond
• Prepare aqueduct tap – physical connection & funding

Next Steps

• Confirm conceptual model – pending results
• Sample existing base & landfill wells
• Alternative or contributing sources – deicing fluids?
• Treat retention pond outfall
• Refill / recover Lake Washington

Thank You

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