DATE: 10/11/2019

TO: Dan Hartman, Glensheen – Director
    Emely Ford, Glensheen – Head Gardener

FROM: Erik Larson, Facilities Management - Sr. Engineer

SUBJECT: Summary of 2016 - 2018 Inspections of Glensheen Structural Storm Water Devices and Outfalls (UMD SWPPP 6b-2 / 6b3 / 6b-5)

I completed the annual inspections of the Glensheen’s structural storm water devices each fall per the MPCA’s MS4’s storm water permit MN R580000. However, due to workload issues I failed to complete and send out the annual summaries for 2016, 2017 and 2018. Below is a combined summary for all three year’s inspections. There are also several places where Glensheen discharges directly off UMD property, these are inspected once every five years (in 2016 at Glensheen). Inspections for these areas have been included if issues were found. I will be completing the 2019 inspections within the next month.

While generally your devices appear to be operating appropriately and with the exception of the known 2018 storm damage, there have been no serious issues, however there are a few items that should be addressed. A prioritized summary with recommendations follows. My recommendation is that those described as high priority be addressed as soon as possible, medium priority should be addressed as funding allows, and low priority items should be monitored to see if they become a larger problem.

HIGH PRIORITY

ST9715 Carriage House Middle Outfall (2016)
   The outfall has been covered in soil, blocking the discharge from the pipe. **This should be reopened and swaled to the beach.**

ST9755 Rock Swale below Gardener’s Cottage (2016)
   Formal inspection in 2016 showed the rock swale with a significant amount of sediment in the rock channel, which should have triggered it to be cleaned. **The 2018 storm demolished this outfall and it will need to be rebuilt as part of the storm repair project.**

ST9765 Rock Swale below Green Shed (2016)
   Formal inspection in 2016 showed this outfall in good condition. **The 2018 storm demolished this outfall and it will need to be rebuilt as part of the storm repair project.**

   Erosion off the gravel portion of the lot is causing sedimentation in the bio-retention pond and plugging the upper swale catch basin. **The sedimentation should be cleaned up and the gravel lot should be regraded to allow water to filter into the grass swale along its length instead of concentrating near the bottom. See ST9765 above.**
MEDIUM PRIORITY
ST9625 Outfall Tennis Courts (2016)
   This outfall was replaced as part of the tennis court wall replacement. At the time of the inspection there was erosion below the outlet pipe, but not reaching the stream. If this is still creating erosion it should have energy dissipation and/or adequate erosion protection installed.

LOW PRIORITY
ST9595 Outfall near Upper Bridge (2016)
   During the 2009 tuck pointing it appears that the pipe was filled with concrete. This should render the upstream CB unusable. If the runoff from the path is creating any erosion then this should be corrected.

ST9703 Gardener's Cottage Distribution Box (2017-2018)
   During the larger storms in 2017 and 2018 beach rock / debris completely covered the access to this. Thought should be given to see if it would be prudent to raise the elevation of the entrance to this structure to the beach level.

The rest of your structural storm water features appear to be functioning as intended. I have included a copy of all your inspection reports for your review.

If you have any questions regarding these inspections please contact me at (218) 726-6915 or elarson@d.umn.edu.

Please let me know how you would intend to respond to these inspection findings. If you would like me to oversee the repair of any of these issues, please submit a work order(s) describing which issues you would like addressed. If you decide to make any repairs to these systems in-house, please let me know (what & when) as I am required to report on maintenance activities in our annual report to the MPCA each June.

Thanks.

Enclosures:
   Inspection Reports:
      Structural Storm Water Devices
         ST9703 Carriage House Distribution Box
         ST9793 Parking Lot Bio-retention / Swales
      Outfalls
         ST9515
         ST9525
         ST9555
         ST9565
         ST9575
         ST9585
         ST9595
         ST9605
         ST9615
         ST9625
         ST9645
         ST9665
         ST9705
         ST9715
         ST9725
         ST9745
         ST9755
         ST9765
C: John Rashid, UMD Facilities Management – Director
UMD Storm Water Management Team
    Shane Peterson, UMD Facilities Management
    Andrew Kimball, UMD Environmental Health and Safety
    Mindy Granley, UMD Office of Sustainability
University of Minnesota Duluth

STORM WATER INSPECTION FORM

Outfall #: ST9515
Photograph Name: 16-ST9515
Inspection Date: 10/24/2016

Pond Name: Above 1st bridge on left bank of Bent Brook
Date of last inspection: 9/13/2012

Mechanical Structure #: Type:

Location: Above 1st bridge on left bank of Bent Brook
Inspector: Erik J. Larson

Weather: Air Temperature: 50
Rain: Y N Date of Last Rain: 10/23/2016 Sunny Cloudy

Describe drainage area: Formal Gardens and Fountain
Shared Use: Y N Describe:

Physical Observations

Condition of Device: Good Average Poor Work Needed: Y N
Describe Work Needed: N/A Reset stones in NE corner

Any Materials Within Structure: Deteriorating: Y N Describe:
Releasing Pollution: Y N Describe:

Capacity of Pipe: Size of pipe: N/A Depth of Water: N/A Has Source of Flow Been Determined: Y N
Source of Water: N/A
Describe Storage Capacity: Minimal Less Than Half Greater Than Half Full Amount Remaining:

Flow: Performing Properly Full Overloaded Clogged Other:
Work Needed: Y N Describe:

Odor: None Sewage Sulfide Oil Gas Rancid-Sour Other:

Color: Normal Dark Brown Light Brown Other:

Turbidity: None Cloudy Suspended Particles Other:

Water Temperature: F Not Available

Accumulated Materials

Floatables: None Sheen Foam Sewage Litter Other: Leaves Sample Collected: Y N
Oil in Oil Port: Y N N/A Measurement: Calculated:
Describe Work Needed: N/A

Deposits: None Sediment Oily Describe: From Sample Collected: Y N
Depth of Sediment: N/A Measurement: Remaining Capacity
Describe Work Needed: N/A

Stains: Y N Work Needed: Y N Describe:

Vegetation Conditions: Normal Excessive Growth Inhibited Growth Describe:

Erosion: None Minor Erosion Major Erosion Erosion Protected Y N
Describe Work Needed: N/A
Reset stone in NE corner

Immediate Work Needed: Y N Describe:

Next Anticipated Work Date:

Inspection Comments / Recommendations

Comments / Recommendations Completed Date
Rock lined ditch N/A Y N
Watch Sediment @ Outlet Y N

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STORM WATER INSPECTION FORM

Outfall #: ST9525 Photograph Name: 16-ST9525 Inspection Date: 10/24/2016

Pond Name: Date of last inspection: 9/14/2012

Mechanical Structure #: Type: ________________

Location: Bend in Bent Brook on left bank

Inspector: Erik J. Larson

Weather: Air Temperature: 50 Rain: Y N Date of Last Rain: 10/23/2016 Sunny Cloudy

Describe drainage area: Short cut pipe from ST9545

Shared Use: Y N Describe:

Physical Observations

Condition of Device: Good Average Poor Work Needed: Y N

Describe Work Needed: N/A

Any Materials Within Structure: Deteriorating: Y N

Releasing Pollution: Y N Describe:

Capacity of Pipe: Size of pipe: 6” Depth of Water: N/A Has Source of Flow Been Determined: Y N

Source of Water: N/A

Describe Storage Capacity: Minimal Less Than Half Greater Than Half Full Amount Remaining:

Flow: Performing Properly Full Overloaded Clogged Other:

Work Needed: Y N Describe:

Odor: None Sewage Sulfide Oil Gas Rancid-Sour Other:

Color: Normal Dark Brown Light Brown Other:

Turbidity: None Cloudy Suspended Particles Other:

Water Temperature: F Not Available

Accumulated Materials

Floatables: None Sheen Foam Sewage Litter Other: Leaves Sample Collected: Y N

Oil in Oil Port: Y N N/A Measurement: Calculated:

Describe Work Needed: N/A

Deposits: None Sediment Oily Describe: Sample Collected: Y N

Depth of Sediment: N/A Measurement: Remaining Capacity

Describe Work Needed: N/A

Stains: Y N Work Needed: Y N Describe:

Vegetation Conditions: Normal Excessive Growth Inhibited Growth Describe:

Describe Work Needed: N/A

Erosion: None Minor Erosion Major Erosion Erosion Protected Y N

Describe Work Needed: N/A Tuck pointing around pipe

Immediate Work Needed: Y N Describe:

Next Anticipated Work Date:

Inspection Comments / Recommendations

Comments / Recommendations

Completed Date

6” Cast Iron N/A Y N
Minor Alge Y N

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STORM WATER INSPECTION FORM

Outfall #: ST9555                  Photograph Name: 16-ST9555.jpg                  Inspection Date: 10/24/2016

Pond Name:                      Date of last inspection: 9/13/2012
Mechanical Structure #:         Type: 
Location: Above 2nd bridge on right bank of Bent Brook
Inspector: Erik J. Larson
Weather: Air Temperature: 45 Rain: Y N Date of Last Rain: 10/23/2016 Sunny Cloudy
Describe drainage area: Road / Walk (ST9560) and utility manhole
Shared Use: Y N Describe:

Physical Observations

Condition of Device: Good Average Poor Work Needed: Y N
Describe Work Needed: N/A
Any Materials Within Structure: Deteriorating: Y N Describe:
Releasing Pollution: Y N Describe:

Capacity of Pipe: Size of pipe: 6” Depth of Water: ______ Has Source of Flow Been Determined: Y N
Source of Water: N/A
Describe Storage Capacity: Minimal Less Than Half Greater Than Half Full Amount Remaining: ______

Flow: Performing Properly Full Overloaded Clogged Other: 
Work Needed: Y N Describe:

Odor: None Sewage Sulfide Oil Gas Rancid-Sour Other: 

Color: Normal Dark Brown Light Brown Other: 

Turbidity: None Cloudy Suspended Particles Other: 

Water Temperature: ______ F Not Available

Accumulated Materials

Floatables: None Sheen Foam Sewage Litter Other: 
Oil in Oil Port: Y N N/A Measurement: ______ Calculated: ______
Describe Work Needed: N/A

Deposits: None Sediment Oily Describe: ______ Sample Collected: Y N
Depth of Sediment: N/A Measurement: ______ Remaining Capacity ______
Describe Work Needed: N/A

Stains: Y N Work Needed: Y N Describe:

Vegetation Conditions: Normal Excessive Growth Inhibited Growth Describe: 
Describe Work Needed: N/A

Erosion: None Minor Erosion Major Erosion Erosion Protected Y N
Describe Work Needed: N/A

Immediate Work Needed: Y N Describe:

Next Anticipated Work Date:

Inspection Comments / Recommendations

Comments / Recommendations

Completed Date
N/A Y N
N/A Y N
Y N
Y N

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## STORM WATER INSPECTION FORM

**Outfall #**: ST9565  
**Photograph Name**: 16-ST9565.jpg  
**Inspection Date**: 10/24/2016

**Pond Name**:  
**Date of last inspection**: 9/13/2012

**Mechanical Structure #**:  
**Type**:  

**Location**: Above 2nd bridge on right bank of Bent Brook (#2 of 3 outfalls in a row)

**Inspector**: Erik J. Larson

**Weather**:  
**Air Temperature**: 45  
**Rain**: Y  
**Date of Last Rain**: 10/23/2016  
**Date of Last Rain**: Sunny Clody

**Describe drainage area**: Unknown - anticipated Carriage House down spouts

**Shared Use**: Y N  
**Describe**:  

### Physical Observations

**Condition of Device**: Good Average Poor Work Needed: Y N  
**Describe Work Needed**: N/A

**Any Materials Within Structure**: Deteriorating: Y N  
**Describe**:  

**Releasing Pollution**: Y N  
**Describe**:  

**Capacity of Pipe**: Size of pipe: 6"  
**Depth of Water**: N/A  
**Has Source of Flow Been Determined**: Y N  
**Describe Storage Capacity**: Minimal Less Than Half Greater Than Half Full  
**Amount Remaining**: ______

**Flow**: Performing Properly Full Overloaded Clogged Other:  
**Work Needed**: Y N  
**Describe**:  

**Odor**: None Sewage Sulfide Oil Gas Rancid-Sour Other:  
**Color**: Normal Dark Brown Light Brown Other:  
**Turbidity**: None Cloudy Suspended Particles Other:  
**Water Temperature**: __________  
**Not Available**

### Accumulated Materials

**Floatables**: None Sheen Foam Sewage Litter Other:  
**Sample Collected**: Y N  
**Oil in Oil Port**: Y N  
**Measurement**: Calculated:  
**Describe Work Needed**: N/A

**Deposits**: None Sediment Oily Describe:  
**Depth of Sediment**: N/A  
**Measure**: Remaining Capacity  
**Describe Work Needed**: N/A

**Stains**: Y N  
**Work Needed**: Y N  
**Describe**:  

**Vegetation Conditions**: Normal Excessive Growth Inhibited Growth Describe:  
**Describe Work Needed**: N/A

**Erosion**: None Minor Erosion Major Erosion Erosion Protected Y N  
**Describe Work Needed**: N/A

**Immediate Work Needed**: Y N  
**Describe**:  

### Inspection Comments / Recommendations

**Comments / Recommendations**:  
**Completed**: N/A  
**Date**: __________  
**Y N**

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**STORM WATER INSPECTION FORM**

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<td>16-ST9575.jpg</td>
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<td>Inspection Date:</td>
<td>10/24/2016</td>
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<td>Pond Name:</td>
<td>ST9575</td>
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<tr>
<td>Date of last inspection:</td>
<td>9/13/2012</td>
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<tr>
<td>Location:</td>
<td>Above 2nd bridge on right bank of Bent Brook (#3 of 3 outfalls in a row)</td>
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<tr>
<td>Inspector:</td>
<td>Erik J. Larson</td>
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<tr>
<td>Weather:</td>
<td>Air Temperature: 45</td>
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<tr>
<td>Date of Last Rain:</td>
<td>10/23/2016</td>
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<tr>
<td>Describe drainage area:</td>
<td>None - Abandoned Pipe</td>
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<tr>
<td>Shared Use:</td>
<td>Y</td>
</tr>
<tr>
<td>Describe:</td>
<td></td>
</tr>
</tbody>
</table>

### Physical Observations

**Condition of Device:** Good  Average  Poor  Work Needed: Y  N

- Any Materials Within Structure: Deteriorating: Y  N  Describe:
- Releasing Pollution: Y  N  Describe:

**Capacity of Pipe:**

- Size of pipe: 6"
- Depth of Water: N/A
- Has Source of Flow Been Determined: Y  N

**Flow:**

- Performing Properly  Full  Overloaded  Clogged  Other:
- Work Needed: Y  N  Describe:

**Odor:**

- None  Sewage  Sulfide  Oil  Gas  Rancid-Sour  Other:

**Color:**

- Normal  Dark Brown  Light Brown  Other:

**Turbidity:**

- None  Cloudy  Suspended Particles  Other:

**Water Temperature:**

- F  Not Available

### Accumulated Materials

- **Floatables:**
  - None  Sheen  Foam  Sewage  Litter  Other:
  - Oil in Oil Port: Y  N  N/A  Measurement: Calculated:
- **Deposits:**
  - None  Sediment  Oily  Describe:
  - Depth of Sediment: N/A  Measurement:  Remaining Capacity:
- **Stains:**
  - Y  N  Work Needed: Y  N  Describe:

### Vegetation Conditions:

- Normal  Excessive Growth  Inhibited Growth  Describe:

**Erosion:**

- None  Minor Erosion  Major Erosion  Erosion Protected  Y  N

### Immediate Work Needed:

- Y  N  Describe:

### Inspection Comments / Recommendations

**Comments / Recommendations**

- 6" metal  Completed  Date
  |
  | Y  N |
  |
  | Y  N |
  |
  | Y  N |

- Tuck pointed around pipe  2009

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STORM WATER INSPECTION FORM

Outfall #: ST9585  Photograph Name: 16-ST9585.jpg  Inspection Date: 10/24/2016

Pond Name:  Date of last inspection: 9/14/2012
Mechanical Structure #:  Type: 
Location:  Left bank of Bent Brook below Third bridge
Inspector:  Erik J. Larson

Weather:  Air Temperature: 45  Rain: Y  Date of Last Rain: 10/23/2016  Sunny  Cloudy

Describe drainage area:  Mansion Roof / Patio
Shared Use: Y  N  Describe: 

Physical Observations

Condition of Device:  Good  Average  Poor  Work Needed:  Y  N

Any Materials Within Structure:  Deteriorating:  Y  N  Describe:
Releasing Pollution:  Y  N  Describe:

Capacity of Pipe:  Size of pipe: 6"  Depth of Water: N/A  Has Source of Flow Been Determined:  Y  N

Source of Water: N/A

Describe Storage Capacity:  Minimal  Less Than Half  Greater Than Half  Full  Amount Remaining: 

Flow:  Performing Properly  Full  Overloaded  Clogged  Other: 

Work Needed:  Y  N  Describe:

Odor:  None  Sewage  Sulfide  Oil  Gas  Rancid-Sour  Other: 

Color:  Normal  Dark Brown  Light Brown  Other: 

Turbidity:  None  Cloudy  Suspended Particles  Other: 

Water Temperature:  F  Not Available

Accumulated Materials

Floatables:  None  Sheen  Foam  Sewage  Litter  Other:  Sample Collected:  Y  N

Oil in Oil Port:  Y  N  N/A  Measurement: Calculated: 

Describe Work Needed: N/A

Deposits:  None  Sediment  Oily  Describe:  Sample Collected:  Y  N

Depth of Sediment: N/A  Measurement:  Remaining Capacity

Describe Work Needed: N/A

Stains:  Y  N  Work Needed:  Y  N  Describe: Green Algae

Vegetation Conditions:  Normal  Excessive Growth  Inhibited Growth  Describe:

Describe Work Needed: N/A

Erosion:  None  Minor Erosion  Major Erosion  Erosion Protected  Y  N

Describe Work Needed: N/A

Immediate Work Needed:  Y  N  Describe: 

Next Anticipated Work Date:

Inspection Comments / Recommendations

Comments / Recommendations  Completed  Date
6" metal  N/A  Y  N  
Minor Alge  Y  N  

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**STORM WATER INSPECTION FORM**

Outfall #: ST9595  
Photograph Name: 16-ST9595(1-2).jpg  
Inspection Date: 10/24/2016

Pond Name:  
Date of last inspection: 9/13/2012

Mechanical Structure #:  
Type:  
Location: On right bank below second bridge

Inspector: Erik J. Larson

Weather:  
Air Temperature: 45  
Rain: Y N  
Date of Last Rain: 10/23/2016  
Sunny  
Cloudy

Describe drainage area: Catch Basin on road/walk edge

Shared Use: Y N  
Describe:  

## Physical Observations

**Condition of Device:** Good  
Average Poor  
Work Needed: Y N

Describe Work Needed:  
Any Materials Within Structure: Deteriorating: Y N  
Describe: Structure covered with Cement

**Releasing Pollution:** Y N  
Describe:  

**Capacity of Pipe:** Size of pipe: 4-6"  
Depth of Water: N/A  
Has Source of Flow Been Determined: Y N

Describe Storage Capacity:  
N/A  
Minimal  
Less Than Half  
Greater Than Half  
Full  
Amount Remaining:  

**Flow:** Performing Properly  
Full  
Overloaded  
Clogged  
Other:  
Work Needed: Y N  
Describe: Determine if necssicary, then determine work needed.

**Odor:** None  
Sewage  
Sulfide  
Oil  
Gas  
Rancid-Sour  
Other:  
Color: Normal  
Dark Brown  
Light Brown  
Other:  
Turbidity: None  
Cloudy  
Suspended Particles  
Other:  
Water Temperature: F  
Not Available

**Accumulated Materials**

**Floatables:** None  
Sheen  
Foam  
Sewage  
Litter  
Other:  
Sample Collected: Y N

Oil in Oil Port: Y N  
Measurement: Calculated:  
Describe Work Needed: N/A

**Deposits:** None  
Sediment  
Oily  
Describe: Covered Pipe  
Sample Collected: Y N

Depth of Sediment: N/A  
Measurement: Remaining Capacity  
Describe Work Needed: N/A  
Determine if Necessary

**Stains:** Y N  
Work Needed: Y N  
Describe:  

**Vegetation Conditions:** Normal  
Excessive Growth  
Inhibited Growth  
Describe:  

Describe Work Needed: N/A

**Erosion:** None  
Minor Erosion  
Major Erosion  
Erosion Protected: Y N

Describe Work Needed: N/A  
Rebuild structure

**Immediate Work Needed:** Y N  
Describe:  

Next Anticipated Work Date: Spring 2009

**Inspection Comments / Recommendations**

<table>
<thead>
<tr>
<th>Comments / Recommendations</th>
<th>Completed</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Covered W/ Cement</td>
<td>Y</td>
<td>N</td>
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<tr>
<td>Determine if Necessary</td>
<td>Y</td>
<td>N</td>
</tr>
</tbody>
</table>

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### Physical Observations

**Condition of Device:**  
- Good  
- Average  
- Poor  
- Work Needed: Y  

**Any Materials Within Structure:**  
- Deteriorating: Y  
- Work Needed: N/A  

**Releasing Pollution:**  
- Y  
- N  

**Capacity of Pipe:**  
- Size of pipe: 4-6”  
- Depth of Water: N/A

**Source of Water:**  
- NA

**Flow:**  
- Performing Properly  
- Full  
- Overloaded  
- Clogged  
- Other:  

**Odor:**  
- None  
- Sewage  
- Sulfide  
- Oil  
- Gas  
- Rancid-Sour  
- Other:  

**Color:**  
- Normal  
- Dark Brown  
- Light Brown  
- Other:  

**Turbidity:**  
- None  
- Cloudy  
- Suspended Particles  
- Other:  

**Water Temperature:**  
- F  
- Not Available

### Accumulated Materials

**Floatables:**  
- None  
- Sheen  
- Foam  
- Sewage  
- Litter  
- Other:  

**Oil in Oil Port:**  
- Y  
- N  
- N/A

**Deposits:**  
- None  
- Sediment  
- Oily  
- Describe: Minor deposit at end of pipe  

**Depth of Sediment:**  
- N/A  
- Measurement: Less than 1”  
- Remaining Capacity

**Stains:**  
- Y  
- N  
- Work Needed: Y  

**Vegetation Conditions:**  
- Normal  
- Excessive Growth  
- Inhibited Growth  

**Erosion:**  
- None  
- Minor Erosion  
- Major Erosion  
- Erosion Protected  

**Immediate Work Needed:**  
- Y  
- N  

**Next Anticipated Work Date:**

### Inspection Comments / Recommendations

- Comments / Recommendations:  
  - Minor sediment deposit at the end of the pipe-no work needed.  

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<tr>
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<tbody>
<tr>
<td>Y</td>
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STORM WATER INSPECTION FORM

Outfall #: ST9615  Photograph Name: 16-ST9615.jpg  Inspection Date: 10/24/2016

Pond Name:  Date of last inspection: 9/13/2012
Mechanical Structure #:  Type:
Location: Underneath 3rd bridge on Bent Brook on left side
Inspector: Erik J. Larson

Weather: Air Temperature: 45  Rain: Y N  Date of Last Rain: 10/23/2016 Sunny Cloudy

Describe drainage area: Mansion roof and roadway in front of Mansion
Shared Use: Y N

Physical Observations

Condition of Device: Good Average Poor Work Needed: Y N
Any Materials Within Structure: Deteriorating: Y N Describe:
Releasing Pollution: Y N Describe:

Capacity of Pipe: Size of pipe: 10"  Depth of Water: N/A  Has Source of Flow Been Determined: Y N
Source of Water: N/A
Describe Storage Capacity: Minimal Less Than Half Greater Than Half Full
Amount Remaining:

Flow: Performing Properly Full Overloaded Clogged Other:
Work Needed: Y N Describe:

Odor: None Sewage Sulfide Oil Gas Rancid-Sour Other:
Color: Normal Dark Brown Light Brown Other:
Turbidity: None Cloudy Suspended Particles Other:
Water Temperature: F Not Available

Accumulated Materials

Floatables: None Sheen Foam Sewage Litter Other: Sample Collected: Y N
Oil in Oil Port: Y N N/A Measurement: Calculated: 
Describe Work Needed: N/A

Deposits: None Sediment Oily Describe: Sample Collected: Y N
Depth of Sediment: N/A Measurement: Remaining Capacity
Describe Work Needed: N/A

Stains: Y N  Work Needed: Y N Describe:

Vegetation Conditions: Normal Excessive Growth Inhibited Growth Describe:

Erosion: None Minor Erosion Major Erosion Erosion Protected Y N
Describe Work Needed: N/A

Immediate Work Needed: Y N Describe:

Next Anticipated Work Date:

Inspection Comments / Recommendations

Comments / Recommendations

10" Clay pipe

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<th>Date</th>
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**STORM WATER INSPECTION FORM**

Outfall #: ST9625  
Photograph Name: ST9625  
Inspection Date: 10/24/2016

Pond Name:  
Mechanical Structure #:  
Type:  
Location:  
Inspector: Erik J. Larson

Weather:  
Air Temperature: 45  
Rain: Y N  
Date of Last Rain:  
Date of Last Inspection: 9/13/2012

Describe drainage area: Tennis Courts  
Shared Use: Y N  
Describe:

### Physical Observations

**Condition of Device:** Good  
Average  
Poor  
Work Needed: Y N

Describe Work Needed: N/A  
Stabilize Erosion Control measures  
Any Materials Within Structure: Deteriorating: Y N

**Capacity of Pipe:** Size of pipe:  
Depth of Water: N/A  
Has Source of Flow Been Determined: Y N

Describe Storage Capacity: Minimal  
Less Than Half  
Greater Than Half  
Full  
Amount Remaining:  

**Flow:** Performing Properly  
Full  
Overloaded  
Clogged  
Other:  
Work Needed: Y N  
Describe:

**Odor:** None  
Sewage  
Sulfide  
Oil  
Gas  
Rancid-Sour  
Other:  
Work Needed: Y N  
Describe:

**Color:** Normal  
Dark Brown  
Light Brown  
Other:  
Work Needed: Y N  
Describe:

**Water Temperature:** F  
Not Available

**Accumulated Materials**

**Floatables:** None  
Sheen  
Foam  
Sewage  
Litter  
Other Leaves  
Sample Collected: Y N

Oil in Oil Port: Y N  
N/A  
Measurement:  
Calculated:  
Describe Work Needed: N/A

**Deposits:** None  
Sediment  
Oily  
Describe:  
Sample Collected: Y N

Depth of Sediment: N/A  
Measurement:  
Remaining Capacity  
Describe Work Needed: N/A

**Stains:** Y N  
Work Needed: Y N  
Describe:

**Vegetation Conditions:** Normal  
Excessive Growth  
Inhibited Growth  
Describe Wash out  
Describe Work Needed: N/A

**Erosion:** None  
Minor Erosion  
Major Erosion  
Erosion Protected  Y N  
Erosion control not working  
Describe Work Needed: N/A

**Immediate Work Needed:** Y N  
Describe:

**Next Anticipated Work Date:**

### Inspection Comments / Recommendations

Comments / Recommendations  
Completed  
Date

New Outlet-Same location (no picture available)  
Y N  

Erosion at bottom, erosion control is not working.  
Y N  

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<table>
<thead>
<tr>
<th>Physical Observations</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Condition of Device:</strong></td>
</tr>
<tr>
<td><strong>Any Materials Within Structure:</strong></td>
</tr>
<tr>
<td><strong>Releasing Pollution:</strong></td>
</tr>
<tr>
<td><strong>Capacity of Pipe:</strong></td>
</tr>
<tr>
<td><strong>Describe Storage Capacity:</strong></td>
</tr>
<tr>
<td><strong>Flow:</strong></td>
</tr>
<tr>
<td><strong>Work Needed:</strong></td>
</tr>
<tr>
<td><strong>Odor:</strong></td>
</tr>
<tr>
<td><strong>Color:</strong></td>
</tr>
<tr>
<td><strong>Turbidity:</strong></td>
</tr>
<tr>
<td><strong>Water Temperature:</strong></td>
</tr>
<tr>
<td><strong>Accumulated Materials:</strong></td>
</tr>
<tr>
<td><strong>Floatables:</strong></td>
</tr>
<tr>
<td><strong>Oil in Oil Port:</strong></td>
</tr>
<tr>
<td><strong>Describe Work Needed:</strong></td>
</tr>
<tr>
<td><strong>Deposits:</strong></td>
</tr>
<tr>
<td><strong>Depth of Sediment:</strong></td>
</tr>
<tr>
<td><strong>Describe Work Needed:</strong></td>
</tr>
<tr>
<td><strong>Stains:</strong></td>
</tr>
<tr>
<td><strong>Vegetation Conditions:</strong></td>
</tr>
<tr>
<td><strong>Erosion:</strong></td>
</tr>
<tr>
<td><strong>Immediate Work Needed:</strong></td>
</tr>
<tr>
<td><strong>Next Anticipated Work Date:</strong></td>
</tr>
</tbody>
</table>

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**Inspection Comments / Recommendations**

<table>
<thead>
<tr>
<th>Comments / Recommendations</th>
<th>Completed Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y N</td>
<td>Y N</td>
</tr>
</tbody>
</table>

---

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STORM WATER INSPECTION FORM

Outfall #: ST9665

Pond Name: Retaining wall pouring into Tischer Creek

Mechanical Structure #: Location: Inspector: Erik J. Larson

Weather: Air Temperature: 45 Rain: Y N Date of Last Rain: 10/23/2016 Sunny Cloudy

Describe drainage area: Patio/Main House

Physical Observations

Condition of Device: Good Average Poor Work Needed: Y N

Describe Work Needed: N/A

Any Materials Within Structure: Deteriorating: Y N Describe: Releasing Pollution: Y N Describe: Minor Sediment

Capacity of Pipe: Size of pipe: 2-4” Depth of Water: N/A Has Source of Flow Been Determined: Y N

Source of Water: N/A

Describe Storage Capacity: Minimal Less Than Half Greater Than Half Full Amount Remaining: ___________

Flow: Performing Properly Full Overloaded Clogged Other: ___________

Work Needed: Y N Describe: ___________

Odor: None Sewage Sulfide Oil Gas Rancid-Sour Other: ___________

Color: Normal Dark Brown Light Brown Other: ___________

Turbidity: None Cloudy Suspended Particles Other: ___________

Water Temperature: F Not Available

Accumulated Materials

Floatables: None Sheen Foam Sewage Litter Other: Sample Collected: Y N

Oil in Oil Port: Y N N/A Measurement: ____________________ Calculated: ____________________

Describe Work Needed: N/A

Deposits: None Sediment Oily Describe: Sample Collected: Y N

Depth of Sediment: N/A Measurement: ____________________ Remaining Capacity: ___________

Describe Work Needed: N/A

Stains: Y N Work Needed: Y N Describe: ___________

Vegetation Conditions: Normal Excessive Growth Inhibited Growth Describe: ___________

Describe Work Needed: N/A

Erosion: None Minor Erosion Major Erosion Erosion Protected Y N

Describe Work Needed: N/A Possibly stabilize discharge point to limit erosion

Immediate Work Needed: Y N Describe: ___________

Next Anticipated Work Date: ___________

Inspection Comments / Recommendations

Comments / Recommendations

Completed Date

Y N

1-4” pipe/ 2-2” pipes N/A

Pipes Not Found In 2016 covered? Y N

Y N

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STORM WATER INSPECTION FORM

Outfall #: ST9703  Photograph Name: 15-ST9703  Inspection Date: 10/24/2016

Pond Name:  Date of last inspection: 11/4/2015
Mechanical Structure #: Type: Distribution Box
Location: Glensheen
Inspector: Erik J. Larson
Weather: Air Temperature: 41  Rain: Y N  Date of Last Rain: 10/23/2016

Describe drainage area: Carriage house roofs on south side
Shared Use: Y N  Describe:

Physical Observations

<table>
<thead>
<tr>
<th>Condition of Device</th>
<th>Good</th>
<th>Average</th>
<th>Poor</th>
<th>Work Needed: Y N</th>
</tr>
</thead>
</table>

Any Materials Within Structure: Deteriorating: Y N  Describe:
Releasing Pollution: Y N  Describe:

Capacity of Pipe:
Size of pipe: 6"  Depth of Water: -
Has Source of Flow Been Determined: Y N

Source of Water: N/A
Describe Storage Capacity: Minimal  Less Than Half  Greater Than Half  Full
Amount Remaining: _______

Flow:
Performing Properly  Full  Overloaded  Clogged  Other:
Work Needed: Y N  Describe:

Odor:
None  Sewage  Sulfide  Oil  Gas  Rancid-Sour  Other:

Color:
Normal  Dark Brown  Light Brown  Other:

Turbidity:
None  Cloudy  Suspended Particles  Other:

Water Temperature:
F  Not Available

Accumulated Materials

<table>
<thead>
<tr>
<th>Floatables</th>
<th>None</th>
<th>Sheen</th>
<th>Foam</th>
<th>Sewage</th>
<th>Litter</th>
<th>Other:</th>
<th>Sample Collected: Y N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil in Oil Port</td>
<td>Y N</td>
<td>N/A</td>
<td>Measurement:</td>
<td>Calculated:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deposits</td>
<td>None</td>
<td>Sediment</td>
<td>Oily</td>
<td>Describe:</td>
<td>Sample Collected: Y N</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depth of Sediment</td>
<td>N/A</td>
<td>Measurement: 6&quot;</td>
<td>Remaining Capacity 30%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deposits Work Needed:</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Stains:
Y N  Work Needed: Y N  Describe:

Vegetation Conditions:
Normal  Excessive Growth  Inhibited Growth  Describe:

Erosion:
None  Minor Erosion  Major Erosion  Erosion Protected  Y N

Immediate Work Needed:
Y N  Describe:

Next Anticipated Work Date:

Inspection Comments / Recommendations

Comments / Recommendations

Completed  Date
Y N
Y N
Y N
Y N

N 46 48.903
W 92 03.015

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**Outfall #**: ST9705  
**Photograph Name**: 16-ST-9705  
**Inspection Date**: 10/24/2016

**Pond Name**:  
**Date of last inspection**: 9/13/2012

**Mechanical Structure #**:  
**Type**:  
**Location**: On beach by Carriage House

**Inspector**: Erik J. Larson  
**Weather**: Air Temperature: 45  
**Date of Last Rain**: 10/23/2016  
**Date of Last Rain**: Sunny  
**Cloudy**

**Describe drainage area**: Carriage House southside rain leaders

**Shared Use**: Y  
**Describe**:  

#### Physical Observations

**Condition of Device**: Good  
**Average**  
**Poor**  
**Work Needed**: Y  
**Work Needed**: N  
**Any Materials Within Structure**: Deteriorating: Y  
**Describe**:  
**Releasing Pollution**: Y  
**Describe**:  

**Capacity of Pipe**: Size of pipe: 4” or less? Depth of Water: N/A  
**Has Source of Flow Been Determined**: Y  
**Source of Water**: N/A  
**Describe Storage Capacity**: Minimal  
**Less Than Half**  
**Greater Than Half**  
**Full**  
**Amount Remaining**:  

**Flow**: Performing Properly  
**Full**  
**Overloaded**  
**Clogged**  
**Other**:  
**Work Needed**: Y  
**Work Needed**: N  
**Odor**: None  
**Sewage**  
**Sulfide**  
**Oil**  
**Gas**  
**Rancid-Sour**  
**Other**:  
**Color**: Normal  
**Dark Brown**  
**Light Brown**  
**Other**:  
**Turbidity**: None  
**Cloudy**  
**Suspended Particles**  
**Other**:  
**Water Temperature**: F  
**Not Available**

**Accumulated Materials**

**Floatables**: None  
**Sheen**  
**Foam**  
**Sewage**  
**Litter**  
**Other**:  
**Sample Collected**: Y  
**N**  
**Oil in Oil Port**: Y  
**N/A**  
**Measurement**:  
**Calculated**:  
**Describe Work Needed**: N/A  

**Deposits**: None  
**Sediment**  
**Oily**  
**Describe**:  
**Sample Collected**: Y  
**N**  
**Depth of Sediment**: N/A  
**Measurement**: 6”  
**Remaining Capacity**:  
**Describe Work Needed**: N/A  

**Stains**: Y  
**N**  
**Work Needed**: Y  
**Describe**:  

**Vegetation Conditions**: Normal  
**Excessive Growth**  
**Inhibited Growth**  
**Describe**:  
**Describe Work Needed**: N/A  

**Erosion**: None  
**Minor Erosion**  
**Major Erosion**  
**Erosion Protected**  
**Y**  
**N**  
**Describe Work Needed**: N/A  

**Immediate Work Needed**: Y  
**N**  
**Describe**:  

**Next Anticipated Work Date**:  

**Inspection Comments / Recommendations**

**Comments / Recommendations**  
Outlet pipes from ST9703 - discharge into beach rock  

**Completed**  
**Date**  
Y  
N  
**Y**  
**N**  
**Y**  
**N**  

---

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STORM WATER INSPECTION FORM

<table>
<thead>
<tr>
<th>Outfall # : ST9715</th>
<th>Photograph Name : 16-ST9715</th>
<th>Inspection Date : 10/24/2016</th>
</tr>
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<tbody>
<tr>
<td>Pond Name:</td>
<td></td>
<td>Date of last inspection:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9/13/2012</td>
</tr>
<tr>
<td>Mechanical Structure # :</td>
<td>Type:</td>
<td></td>
</tr>
<tr>
<td>Location:</td>
<td>Edge of beach by center of Carriage House</td>
<td></td>
</tr>
<tr>
<td>Inspector:</td>
<td>Erik J. Larson</td>
<td></td>
</tr>
<tr>
<td>Weather:</td>
<td>Air Temperature: 45</td>
<td>Rain: Y</td>
</tr>
<tr>
<td></td>
<td>Date of Last Rain: 10/23/2016</td>
<td>Sunny Cloudy</td>
</tr>
<tr>
<td>Describe drainage area:</td>
<td>Carriage House Roof Drains</td>
<td>Shared Use: Y N Describe:</td>
</tr>
</tbody>
</table>

### Physical Observations

<table>
<thead>
<tr>
<th>Condition of Device: Good Average Poor Work Needed: Y N</th>
<th>Describe Work Needed: N/A See deposits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any Materials Within Structure: Deteriorating: Y N</td>
<td>Describe:</td>
</tr>
<tr>
<td>Releasing Pollution: Y N</td>
<td>Describe:</td>
</tr>
</tbody>
</table>

| Capacity of Pipe: Size of pipe: 4" Depth of Water: N/A Has Source of Flow Been Determined: Y N |
|-------------------------------------------------|----------------------------------|
| Source of Water: N/A | Describe Storage Capacity: Minimal Less Than Half Greater Than Half Full Amount Remaining: None |
| Size of pipe: 4" Depth of Water: N/A Has Source of Flow Been Determined: Y N |
| Source of Water: N/A | Describe Storage Capacity: Minimal Less Than Half Greater Than Half Full Amount Remaining: None |

| Flow: Performing Properly Full Overloaded Clogged Other: Swale clogged, erosion controls not removed. |
|-------------------------------------------------|----------------------------------|
| Work Needed: Y N | Describe: Swale clogged, erosion controls not removed. |

<table>
<thead>
<tr>
<th>Odor: None Sewage Sulfide Oil Gas Rancid-Sour Other:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Color: Normal Dark Brown Light Brown Other:</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Turbidity: None Cloudy Suspended Particles Other:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Temperature: F Not Available</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Accumulated Materials</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floatables: None Sheen Foam Sewage Litter Other:</td>
<td></td>
</tr>
<tr>
<td>Sample Collected: Y N</td>
<td></td>
</tr>
<tr>
<td>Oil in Oil Port: Y N N/A Measurement: Calculated:</td>
<td></td>
</tr>
<tr>
<td>Oil in Oil Port: Y N N/A Measurement: Calculated:</td>
<td></td>
</tr>
<tr>
<td>Describe Work Needed: N/A</td>
<td></td>
</tr>
</tbody>
</table>

| Deposits: None Sediment Oily Depressed: Describe: |
|------------------------------------------------|----------------------------------|
| Depth of Sediment: N/A Measurement: Remaining Capacity | |
| Describe Work Needed: N/A | |
| Depresssed: Describe: |

| Stains: Y N Work Needed: Y N Describe: |
|---------------------------------------|---------------------------------------|
| Vegetation Conditions: Normal Excessive Growth Inhibited Growth Describe: |
| Describe Work Needed: N/A | |

| Erosion: None Minor Erosion Major Erosion Erosion Protected Y N |
|---------------------------------------------------------------|----------------------------------|
| Describe Work Needed: N/A | |

### Immediate Work Needed:

| Y N Describe: Open up pipe/swale | |

**Inspection Comments / Recommendations**

<table>
<thead>
<tr>
<th>Comments / Recommendations</th>
<th>Completed</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposed during carriage house roof project</td>
<td>Y N</td>
<td></td>
</tr>
<tr>
<td>Pipe Covered/Filled in</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Swale Filled w/ Dirt</td>
<td>Y N</td>
<td></td>
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</table>

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# STORM WATER INSPECTION FORM

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>ST9725</td>
<td>16-ST9725.jpg</td>
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<table>
<thead>
<tr>
<th>Pond Name</th>
<th>Date of last inspection</th>
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<tbody>
<tr>
<td></td>
<td>9/13/2012</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Mechanical Structure #</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rock Swale</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Along Beach of Lake Superior - Below Carriage House</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inspector</th>
</tr>
</thead>
<tbody>
<tr>
<td>Erik J. Larson</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weather</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Temperature: 45</td>
</tr>
<tr>
<td>Rain: Y</td>
</tr>
<tr>
<td>Date of Last Rain: 10/23/2016</td>
</tr>
<tr>
<td>Sunny Cloudy</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Describe drainage area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carriage House/Grassy Area</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Shared Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
</tr>
</tbody>
</table>

## Physical Observations

**Condition of Device:**
- Good
- Average
- Poor
- Work Needed: Y N

**Any Materials Within Structure:**
- Deteriorating: Y N
- Describe:

**Releasing Pollution:**
- Y N
- Describe:

**Capacity of Pipe:**
- Size of pipe: N/A
- Depth of Water: N/A
- Has Source of Flow Been Determined: Y N

**Source of Water:**
- N/A

**Describe Storage Capacity:**
- Minimal
- Less Than Half
- Greater Than Half
- Full
- Amount Remaining: _____

**Flow:**
- Performing Properly
- Full
- Overloaded
- Clogged
- Other: Leaves

**Work Needed:**
- Y N

**Odor:**
- None
- Sewage
- Sulfide
- Oil
- Gas
- Rancid-Sour
- Other:

**Color:**
- Normal
- Dark Brown
- Light Brown
- Other:

**Turbidity:**
- None
- Cloudy
- Suspended Particles
- Other:

**Water Temperature:**
- F
- Not Available

## Accumulated Materials

**Floatables:**
- None
- Sheen
- Foam
- Sewage
- Litter
- Other: Leaves
- Sample Collected: Y N

**Oil in Oil Port:**
- Y N
- N/A

**Describe Work Needed:**
- N/A

**Deposits:**
- None
- Sediment
- Oily
- Describe:

**Depth of Sediment:**
- N/A

**Description:**
- Remaining Capacity

**Describe Work Needed:**
- N/A

**Stains:**
- Y N
- Work Needed: Y N

**Vegetation Conditions:**
- Normal
- Excessive Growth
- Inhibited Growth

**Describe Work Needed:**
- N/A

**Erosion:**
- None
- Minor Erosion
- Major Erosion
- Erosion Protected
- Y N

**Describe Work Needed:**
- N/A

**Immediate Work Needed:**
- Y N

**Next Anticipated Work Date:**

### Inspection Comments / Recommendations

<table>
<thead>
<tr>
<th>Comments / Recommendations</th>
<th>Completed</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
</tr>
<tr>
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<td>Y</td>
<td></td>
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<td>Y</td>
<td></td>
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<tr>
<td></td>
<td>Y</td>
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</tr>
</tbody>
</table>

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STORM WATER INSPECTION FORM

Outfall #: ST9715 Photograph Name: ________________ Inspection Date: 10/24/2016

Pond Name: ________________ Date of last inspection: 9/13/2012

Mechanical Structure #: ________________ Type: ________________

Location: On beach by NE corner of Carriage House / adjacent to rock swale ST9725

Inspector: Erik J. Larson

Weather: Air Temperature: 45° Rain: Y N Date of Last Rain: 10/23/2016 Sunny Cloudy

Describe drainage area: Northside Carriage House roof drains and catchbasin / Gardeners Cottage roof drains

Shared Use: Y N

Physical Observations

Condition of Device: Good Average Poor Work Needed: Y N

Any Materials Within Structure: Deteriorating: Y N Describe:

Releasing Pollution: Y N Describe:

Capacity of Pipe: Size of pipe: 6” Depth of Water: N/A Has Source of Flow Been Determined: Y N

Source of Water: N/A

Describe Storage Capacity: Minimal Less Than Half Greater Than Half Full

Amount Remaining: ____________

Flow: Performing Properly Full Overloaded Clogged Other: ____________

Work Needed: Y N Describe:

Odor: None Sewage Sulfide Oil Gas Rancid-Sour Other: ____________

Color: Normal Dark Brown Light Brown Other: ____________

Turbidity: None Cloudy Suspended Particles Other: ____________

Water Temperature: ____________ F Not Available

Accumulated Materials

Floatables: None Sheen Foam Sewage Litter Other: Sample Collected: Y N

Oil in Oil Port: Y N N/A Measurement: Calculated:

Describe Work Needed: N/A

Deposits: None Sediment Oily Describe: Sample Collected: Y N

Depth of Sediment: N/A Measurement: Remaining Capacity

Describe Work Needed: N/A

Stains: Y N Work Needed: Y N Describe:

Vegetation Conditions: Normal Excessive Growth Inhibited Growth Describe:

Describe Work Needed: N/A

Erosion: None Minor Erosion Major Erosion Erosion Protected Y N

Describe Work Needed: N/A

Immediate Work Needed: Y N Describe:

Next Anticipated Work Date:

Inspection Comments / Recommendations

Comments / Recommendations

Completed Date

Y N

Y N

Y N

Y N

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## STORM WATER INSPECTION FORM

**Outfall #:** ST9755  
**Photograph Name:** 16-ST9755.jpg  
**Inspection Date:** 10/24/2016

**Pond Name:**  
**Date of last inspection:** 9/13/2012

**Mechanical Structure #:**  
**Type:** Rock Swale

**Location:** Along Beach of Lake Superior - Drainage from Gardner’s Cottage Driveway

**Inspector:** Erik J. Larson

**Weather:**  
**Air Temperature:** 45  
**Rain:** Y N  
**Date of Last Rain:** 10/23/2016  
**Date of Last Inspection:** 9/13/2012  
**Sunny**  
**Cloudy**

**Describe drainage area:** Portion of Driveways / Grassy Areas

**Shared Use:** Y N  
**Describe:**

### Physical Observations

**Condition of Device:** Good  
**Average**  
**Poor**  
**Work Needed:** Y N

**Describe Work Needed:** Clean out Debris

**Any Materials Within Structure:** Deteriorating: Y N  
**Describe:**

**Releasing Pollution:** Y N  
**Describe:**

**Capacity of Pipe:** Size of pipe: N/A  
**Depth of Water:** N/A  
**Has Source of Flow Been Determined:** Y N

**Source of Water:** N/A

**Describe Storage Capacity:** Minimal  
**Less Than Half**  
**Greater Than Half**  
**Full**  
**Amount Remaining:**

**Flow:** Performing Properly  
**Full**  
**Overloaded**  
**Clogged**  
**Other:**

**Work Needed:** Y N  
**Describe:** Clean debris from swale

**Odor:** None  
**Sewage**  
**Sulfide**  
**Oil**  
**Gas**  
**Rancid-Sour**  
**Other:**

**Color:** Normal  
**Dark Brown**  
**Light Brown**  
**Other:**

**Turbidity:** None  
**Cloudy**  
**Suspended Particles**  
**Other:**

**Water Temperature:** F  
**Not Available**

### Accumulated Materials

**Floatables:** None  
**Sheen**  
**Foam**  
**Sewage**  
**Litter**  
**Other:** Organic Debris  
**Sample Collected:** Y N

**Oil in Oil Port:** Y N  
**Measurement:** N/A  
**Calculate:**

**Describe Work Needed:** N/A  
**Clean out swale**

**Deposits:** None  
**Sediment**  
**Oily**  
**Describe:**

**Depth of Sediment:** N/A  
**Measurement:** Unknown  
**Remaining Capacity**

**Describe Work Needed:** N/A  
**Clean out swale**

**Stains:** Y N  
**Work Needed:** Y N  
**Describe:**

**Vegetation Conditions:** Normal  
**Excessive Growth**  
**Inhibited Growth**  
**Describe:**

**Erosion:** None  
**Minor Erosion**  
**Major Erosion**  
**Erosion Protected** Y N

**Describe Work Needed:** N/A

**Immediate Work Needed:** Y N  
**Describe:**

**Next Anticipated Work Date:**

### Inspection Comments / Recommendations

**Comments / Recommendations**

<table>
<thead>
<tr>
<th>Completed</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y N</td>
<td></td>
</tr>
</tbody>
</table>
## University of Minnesota Duluth

### STORM WATER INSPECTION FORM

<table>
<thead>
<tr>
<th>Outfall #: ST9765</th>
<th>Photograph Name: 16-ST9765.jpg</th>
<th>Inspection Date: 10/24/2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pond Name:</td>
<td>Photograph Name: 16-ST9765.jpg</td>
<td>Inspection Date: 10/24/2016</td>
</tr>
<tr>
<td>Mechanical Structure #:</td>
<td>Photograph Name: 16-ST9765.jpg</td>
<td>Inspection Date: 10/24/2016</td>
</tr>
<tr>
<td>Location: Shoreline by green shed</td>
<td>Date of Last Rain: 10/23/2016</td>
<td>Sunny Cloudy</td>
</tr>
<tr>
<td>Shared Use: Y N</td>
<td>Describe: Parking lot</td>
<td>Date of Last Rain: 10/23/2016 Sunny Cloudy</td>
</tr>
</tbody>
</table>

### Physical Observations

**Condition of Device:** Good

- Average
- Poor
- Work Needed: Y N

**Any Materials Within Structure:** Deteriorating: Y N

- Describe:

**Releasing Pollution:** Y N

- Describe:

**Capacity of Pipe:** Size of pipe: N/A

- Depth of Water: N/A
- Has Source of Flow Been Determined: Y N

**Source of Water:** N/A

- Describe Storage Capacity: Minimal
- Less Than Half
- Greater Than Half
- Full
- Amount Remaining: __________

**Flow:** Performing Properly

- Full
- Overloaded
- Clogged
- Other:

- Work Needed: Y N

- Describe:

**Odor:** None

- Sewage
- Sulfide
- Oil
- Gas
- Rancid-Sour
- Other:

- Color:

- Normal
- Dark Brown
- Light Brown
- Other:

**Water Temperature:** F

- Not Available

### Accumulated Materials

**Floatables:** None

- Sheen
- Foam
- Sewage
- Litter
- Other: Organics

- Sample Collected: Y N

- Oil in Oil Port: Y N

- N/A

- Measurement: Calculated:

- Describe Work Needed: N/A

**Deposits:** None

- Sediment
- Oily
- Describe:

- Sample Collected: Y N

- Depth of Sediment: N/A

- Measurement: Remaining Capacity

- Describe Work Needed: N/A

**Stains:** Y N

- Work Needed: Y N

- Describe:

**Vegetation Conditions:** Normal

- Excessive Growth
- Inhibited Growth
- Describe:

- Erosion:

- None
- Minor Erosion
- Major Erosion
- Erosion Protected

- Y N

- Describe Work Needed: N/A

**Immediate Work Needed:** Y N

- Describe:

**Next Anticipated Work Date:__**

### Inspection Comments / Recommendations

**Comments / Recommendations**

<table>
<thead>
<tr>
<th>Completed</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y N</td>
<td></td>
</tr>
<tr>
<td>Y N</td>
<td></td>
</tr>
<tr>
<td>Y N</td>
<td></td>
</tr>
<tr>
<td>Y N</td>
<td></td>
</tr>
</tbody>
</table>

Printed - 6/28/2017
# Storm Water Inspection Form

**University of Minnesota Duluth**

**STORM WATER INSPECTION FORM**

<table>
<thead>
<tr>
<th>Outfall #</th>
<th>ST9775</th>
<th>Photograph Name</th>
<th>16-ST9775.jpg</th>
<th>Inspection Date</th>
<th>10/24/2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pond Name</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mechanical Structure #</td>
<td></td>
<td>Type: Rock Swale</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Location</td>
<td>Shoreline below parking lot</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inspector</td>
<td>Erik J. Larson</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weather</td>
<td>Air Temperature: 45</td>
<td>Rain: Y N</td>
<td>Date of Last Rain: 10/23/2016</td>
<td>Sunny Cloudy</td>
<td></td>
</tr>
<tr>
<td>Describe drainage area</td>
<td>Parking lot via bioretention pond</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shared Use</td>
<td>Y N</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Physical Observations

### Condition of Device:
- Good
- Average
- Poor
- Work Needed: Y N

### Any Materials Within Structure:
- Deteriorating
- Work Needed: N/A

### Releasing Pollution:
- Y N
- Describe:

### Capacity of Pipe:
- Size of pipe: N/A
- Depth of Water: N/A
- Has Source of Flow Been Determined: Y N

### Source of Water:
- N/A

### Describe Storage Capacity:
- Minimal
- Less Than Half
- Greater Than Half
- Full
- Amount Remaining: [ ]

### Flow:
- Performing Properly
- Full
- Overloaded
- Clogged
- Other:

### Work Needed:
- Y N
- Describe:

### Odor:
- None
- Sewage
- Sulfide
- Oil
- Gas
- Rancid-Sour
- Other:

### Color:
- Normal
- Dark Brown
- Light Brown
- Other:

### Turbidity:
- None
- Cloudy
- Suspended Particles
- Other:

### Water Temperature:
- [ ] F
- Not Available

## Accumulated Materials

### Floatables:
- None
- Sheen
- Foam
- Sewage
- Litter
- Other:

### Oil in Oil Port:
- Y N
- N/A

### Describe Work Needed:
- N/A

### Deposits:
- None
- Sediment
- Oily
- Describe:

### Depth of Sediment:
- N/A

### Measurement:
- Sample Collected: Y N
- Remaining Capacity

### Describe Work Needed:
- N/A

### Stains:
- Y N
- Work Needed: Y N

### Vegetation Conditions:
- Normal
- Excessive Growth
- Inhibited Growth

### Erosion:
- None
- Minor Erosion
- Major Erosion
- Erosion Protected

### Immediate Work Needed:
- Y N

### Next Anticipated Work Date:

## Inspection Comments / Recommendations

<table>
<thead>
<tr>
<th>Comments / Recommendations</th>
<th>Completed</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minor erosion at top of slope—not a concern.</td>
<td>Y N</td>
<td>📚</td>
</tr>
</tbody>
</table>

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University of Minnesota Duluth

STORM WATER INSPECTION FORM

Outfall #: Photograph Name: 16-ST9793 Inspection Date: 10/24/2016
Pond Name: Date of last inspection: 11/4/2015
Mechanical Structure #: ST9793 Type: Bio Retention / Ditches
Location: Glensheen
Inspector: Erik J. Larson
Weather: Air Temperature: 45 Rain: Y N Date of Last Rain: 10/23/2016 Sunny Cloudy
Describe drainage area: Parking Lot
Shared Use: Y N Describe:

Physical Observations

Condition of Device: Good Average Poor Work Needed: Y N
Describe Work Needed: N/A Clean
Any Materials Within Structure: Deteriorating: Y N Describe:
Releasing Pollution: Y N Describe:
Capacity of Pipe: Size of pipe: Depth of Water: Has Source of Flow Been Determined: Y N
Source of Water: N/A Describe Storage Capacity: Minimal Less Than Half Greater Than Half Full Amount Remaining: ______
Flow: Performing Properly Full Overloaded Clogged Other:
Work Needed: Y N Describe: rebuild
Odor: None Sewage Sulfide Oil Gas Rancid-Sour Other:
Color: Normal Dark Brown Light Brown Other:
Turbidity: None Cloudy Suspended Particles Other:
Water Temperature:
F Not Available
Accumulated Materials

Floatables: None Sheen Foam Sewage Litter Other: Sample Collected: Y N
Oil in Oil Port: Y N N/A Measurement: Calculated: 
Describe Work Needed: N/A
Deposits: None Sediment Oily Describe: Sample Collected: Y N
Depth of Sediment: N/A Measurement: ? Remaining Capacity 
Describe Work Needed: N/A
Stains: Y N Work Needed: Y N Describe:
Vegetation Conditions: Normal Excessive Growth Inhibited Growth Describe:
Describe Work Needed: N/A
Erosion: None Minor Erosion Major Erosion Erosion Protected Y N
Describe Work Needed: N/A
Immediate Work Needed: Y N Describe:
Next Anticipated Work Date:

Inspection Comments / Recommendations

Comments / Recommendations Complete Date
Y N 
Y N 
Y N 
Y N 

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Outfall #: ST9703  Photograph Name: 17-ST9703  Inspection Date: 11/6/2017

Pond Name: Glensheen  Date of last inspection: 10/24/2016

Mechanical Structure #:  Type: Distribution Box

Location: Glensheen  Inspector: Erik J. Larson

Weather: Air Temperature: 36  Rain: Y N  Date of Last Rain: 11/5/2017

Describe drainage area: Carriage house roofs on south side

Physical Observations

Condition of Device: Good  Average  Poor  Work Needed: Y N

Any Materials Within Structure: Deteriorating: Y N Describe:

Releasing Pollution: Y N Describe:

Capacity of Pipe: Size of pipe: 6"  Depth of Water: -

Source of Water: N/A

Describe Storage Capacity: Minimal  Less Than Half  Greater Than Half  Full

Amount Remaining: ______

Flow: Performing Properly  Full  Overloaded  Clogged  Other:

Work Needed: Y N Describe:

Odor: None  Sewage  Sulfide  Oil  Gas  Rancid-Sour  Other:

Color: Normal  Dark Brown  Light Brown  Other:

Turbidity: None  Cloudy  Suspended Particles  Other:

Water Temperature: F  Not Available

Accumulated Materials

Floatables: None  Sheen  Foam  Sewage  Litter  Other:

Oil in Oil Port: Y N  N/A  Measurement: Sample Collected: Y N

Describe Work Needed: N/A

Deposits: None  Sediment  Oily  Describe:

Depth of Sediment: N/A  Measurement: Remaining Capacity

Describe Work Needed: N/A

Stains: Y N  Work Needed: Y N  Describe:

Vegetation Conditions: Normal  Excessive Growth  Inhibited Growth  Describe:

Erosion: None  Minor Erosion  Major Erosion  Erosion Protected  Y N

Describe Work Needed: N/A

Immediate Work Needed: Y N  Describe:

Next Anticipated Work Date:

Inspection Comments / Recommendations

Comments / Recommendations

Storm damage covered manhole, when damage is cleaned, make sure manhole is accessible.

Low Priority

N 46 48.903

W 92 03.015
# STORM WATER INSPECTION FORM

## Outfall #

Photograph Name: 17-ST9793  
Inspection Date: 11/6/2017

## Pond Name:

Date of last inspection: 10/24/2016

## Mechanical Structure #

ST9793  
Type: Bio Retention / Ditches

## Location:

Glensheen

## Inspector:

Erik J. Larson

## Weather:

Air Temperature: 36  
Rain: Y N  
Date of Last Rain: 11/5/2017  
Sunny Cloudy

## Describe drainage area:

Parking Lot

## Shared Use:

Y N

## Physical Observations

### Condition of Device:

Good Average Poor  
Work Needed: Y N  
Describe Work Needed: N/A  
Clean up sediment

### Any Materials Within Structure:

Deteriorating: Y N  
Describe: N/A  
Releasing Pollution: Y N  
Describe: N/A

### Capacity of Pipe:

Size of pipe:  
Depth of Water:  
Has Source of Flow Been Determined: Y N  
Source of Water: N/A  
Describe Storage Capacity:  
Minimal  
Less Than Half  
Greater Than Half  
Full  
Amount Remaining:  
Flow: Performing Properly  
Full  
Overloaded  
Clogged  
Other:  
Work Needed: Y N  
Describe: Clean up sediment

### Odor:

None  
Sewage  
Sulfide  
Oil  
Gas  
Rancid-Sour  
Other:  

### Color:

Normal  
Dark Brown  
Light Brown  
Other:  

### Turbidity:

None  
Cloudy  
Suspended Particles  
Other:  

### Water Temperature:

F  
Not Available

## Accumulated Materials

### Floatables:

None  
Sheen  
Foam  
Sewage  
Litter  
Other:  
Sample Collected: Y N  
Oil in Oil Port: Y N N/A  
Measurement:  
Calculated:  
Describe Work Needed: N/A

### Deposits:

None  
Sediment  
Oily  
Describe:  
Sample Collected: Y N  
Depth of Sediment: N/A  
Measurement:  
Remaining Capacity:  
Describe Work Needed: N/A

### Stains:

Y N  
Work Needed: Y N  
Describe:  

### Vegetation Conditions:

Normal  
Excessive Growth  
Inhibited Growth  
Describe:  
Describe Work Needed: N/A

### Erosion:

None  
Minor Erosion  
Major Erosion  
Erosion Protected: Y N  
Describe Work Needed: N/A  
Clean up sediment

### Immediate Work Needed:

Y N  
Describe:  

### Next Anticipated Work Date:


## Inspection Comments / Recommendations

<table>
<thead>
<tr>
<th>Comments / Recommendations</th>
<th>Completed</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delta forming at bottom of outlet into bioretention pond</td>
<td>Medium Priority</td>
<td>Y N</td>
</tr>
<tr>
<td>Swale by green shed OK - watch, might direct from outlet</td>
<td></td>
<td>Y N</td>
</tr>
</tbody>
</table>

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### University of Minnesota Duluth

#### STORM WATER INSPECTION FORM

**Outfall #:** ST9703  
**Photograph Name:** 17-ST9703  
**Inspection Date:** 11/26/2018

**Pond Name:**  
**Mechanical Structure #:**  
**Type:** Distribution Box  
**Location:** Glensheen  
**Inspector:** Erik J. Larson

**Weather:**  
- **Air Temperature:** 15  
- **Rain:** Y N  
- **Date of Last Rain:**  
- **Date of Last Inspection:** 11/6/2017  
- **Weather Conditions:** Sunny Cloudy

**Describe drainage area:** Carriage house roofs on south side  
**Shared Use:** Y N  
**Describe:**

### Physical Observations

#### Condition of Device:
- **Good**  
- **Average**  
- **Poor**  
- **Work Needed:** Y N  

**Describe Work Needed:** N/A

**Any Materials Within Structure:**  
- **Deteriorating:** Y N  
- **Describe:**

**Releasing Pollution:** Y N  
**Describe:**

#### Capacity of Pipe:
- **Size of pipe:** 6"  
- **Depth of Water:**  
- **Has Source of Flow Been Determined:** Y N

**Source of Water:** N/A  
**Describe Storage Capacity:**  
- **Minimal**  
- **Less Than Half**  
- **Greater Than Half**  
- **Full**  
- **Amount Remaining:**

**Flow:**  
- **Performing Properly**  
- **Full**  
- **Overloaded**  
- **Clogged**  
- **Other:**

**Work Needed:** Y N  
**Describe:**

**Odor:**  
- **None**  
- **Sewage**  
- **Sulfide**  
- **Oil**  
- **Gas**  
- **Rancid-Sour**  
- **Other:**

**Color:**  
- **Normal**  
- **Dark Brown**  
- **Light Brown**  
- **Other:**

**Turbidity:**  
- **None**  
- **Cloudy**  
- **Suspended Particles**  
- **Other:**

**Water Temperature:** F  
**Not Available**

#### Accumulated Materials

**Floatables:**  
- **None**  
- **Sheen**  
- **Foam**  
- **Sewage**  
- **Litter**  
- **Other:**

**Oil in Oil Port:**  
- **Y N**  
- **N/A**  
- **Measurement:**

**Sample Collected:** Y N  
**Calculated:**

**Deposits:**  
- **None**  
- **Sediment**  
- **Oily**  
- **Describe:** 2-3 inches  
- **Sample Collected:** Y N

**Depth of Sediment:** N/A  
**Measurement:**  
**Remaining Capacity**

**Describe Work Needed:** N/A  
**Should be cleaned in future.**

#### Stains:
- **Y N**  
**Work Needed:** Y N  
**Describe:**

**Vegetation Conditions:**  
- **Normal**  
- **Excessive Growth**  
- **Inhibited Growth**  
- **Describe:**

**Describe Work Needed:** N/A

**Erosion:**  
- **None**  
- **Minor Erosion**  
- **Major Erosion**  
- **Erosion Protected** Y N

**Describe Work Needed:** N/A

#### Immediate Work Needed:
- **Y N**  
**Describe:**

**Next Anticipated Work Date:**

### Inspection Comments / Recommendations

**Comments / Recommendations**

- Storm damage covered manhole, when damage is cleaned, make sure manhole is accessible.
- Low Priority

**Completed**
- Y N

**Date**

---

N 46 48.903  
W 92 03.015

Printed - 10/7/2019
## Physical Observations

### Condition of Device:
- Good
- Average
- Poor
- Work Needed: Yes
- Clean sediment / repair outlet

### Any Materials Within Structure:
- Deteriorating: Yes
- Describe: Outlet failed in fall storm

### Capacity of Pipe:
- Size of pipe: 
- Depth of Water: 
- Has Source of Flow Been Determined: Yes

### Flow:
- Performing Properly
- Full
- Overloaded
- Clogged
- Other:
- Describe: Rebuild outlet / clean sediment

### Odor:
- None
- Sewage
- Sulfide
- Oil
- Gas
- Rancid-Sour
- Other:

### Color:
- Normal
- Dark Brown
- Light Brown
- Other:

### Turbidity:
- None
- Cloudy
- Suspended Particles
- Other:

### Water Temperature:
- F
- Not Available

### Accumulated Materials

<table>
<thead>
<tr>
<th>Floatables</th>
<th>None</th>
<th>Sheen</th>
<th>Foam</th>
<th>Sewage</th>
<th>Litter</th>
<th>Other:</th>
<th>Sample Collected:</th>
<th>Y</th>
<th>N</th>
<th>Measurement:</th>
<th>Calculated:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil in Oil Port</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Describe Work Needed:</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Deposits</th>
<th>None</th>
<th>Sediment</th>
<th>Oily</th>
<th>Describe:</th>
<th>Sample Collected:</th>
<th>Y</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depth of Sediment:</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Describe Work Needed:</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Stains:
- Yes
- Work Needed: Yes
- Describe:

### Vegetation Conditions:
- Normal
- Excessive Growth
- Inhibited Growth
- Describe:

### Erosion:
- None
- Minor Erosion
- Major Erosion
- Erosion Protected
- Y

### Immediate Work Needed:
- Yes
- Work Needed: N/A
- Describe: Rebuild outlet

### Next Anticipated Work Date:
- As soon as insurance money is available and design is complete

### Inspection Comments / Recommendations

<table>
<thead>
<tr>
<th>Delta forming at bottom of structure into bioretention pond</th>
<th>Medium Priority</th>
<th>Y</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parking lot catch basin buried</td>
<td>High Priority</td>
<td>Y</td>
<td>N</td>
</tr>
<tr>
<td>Outlet ST9755 has failed - must be repaired</td>
<td>HIGH PRIORITY</td>
<td>Y</td>
<td>N</td>
</tr>
<tr>
<td>Bioretention pond full of weeds some cattails</td>
<td>Medium Priority</td>
<td>Y</td>
<td>N</td>
</tr>
<tr>
<td>Swale by green shed OK - watch as it might want to redirect from outlet</td>
<td>Low Priority</td>
<td>Y</td>
<td>N</td>
</tr>
</tbody>
</table>