DATE:  3/2/2015

TO:    Pat Keenan, Student Life Operations – Director
       Lisa Hanson, Student Life Operations (Parking Services) – Assistant Director

FROM:  Erik Larson, Facilities Management - Sr. Engineer

SUBJECT:  Summary of 2014 Inspection of Parking Services Structural Storm Water Devices
          (UMD SWPPP 6b-2 / 6b-5)

I completed the annual inspections of the Parking Services’ structural storm water devices last fall per the MPCA’s MS4’s storm water permit MN R580000. While generally your devices appear to be operating appropriately, there are a few items that should be addressed. A prioritized summary with recommendations follows. My recommendation is that those described as high priority should be addressed this summer and low priority items maybe deferred and reviewed again this fall to see if they continue to be a problem.

HIGH PRIORITY

ST1486 Lot L-1 Stormceptor
There was 8” of sediment in this stormceptor at the time of inspection. Required cleaning depth is 8”. This Stormceptor was last cleaned in 2011. This stormceptor needs to be cleaned.

ST4623 Lot E Sand Filter
There are large rocks and debris at the pipe outlet into the filter and there was standing water and sediment in the inlet area. I recommend cleaning an area a minimum of 10-15’ out from the end of the pipe.

ST5146 Lot M Stormceptor
There are 10”-12” of sediment in the Stormceptor. Since this Stormceptor normally takes 2-3 years between cleanings and it was cleaned on 9/13/13 this is most likely from the Malosky Stadium water main break that was repaired on 6/19/2014. FM will clean even though it would normally be Parking’s turn.

ST 1713 Lot Q-3 Swale
The concrete swale in the corner of Lot Q-3 is full of sand. I recommend cleaning the area up and reconstructing the small swale from the lot.

MEDIUM PRIORITY

ST4591 Lot G Tank Overflow
The concrete rings supporting the manhole cover are starting to deteriorate. I recommend skim coating the rings to protect from further deterioration or replacing them if it is determined that they are already too far gone.
LOW PRIORITY

ST1630 Lot W Stormceptor
As in previous years, this Stormceptor is almost nonfunctional from a University perspective due to City storm water issues upstream. At this inspection there was 12" of sediment in the bottom of the Stormceptor. The city cleans this Stormceptor as needed.

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

Update on last year’s issues:

ST4623 Lot E Stand Filter – Not Funded – On this year’s list again
ST1792 City Manhole from Lot U – No response from City – Do you want to just patch it from the inside?
ST3982 Lot T-2 Sand Filtration Basin – Completed 11/18/13
ST1630 Lot W Stormceptor – City cleans this as needed – City cleans periodically

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 as I need to report our maintenance activities in our annual storm water report to the MPCA this spring. 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.

Thanks.

Enclosures:
Inspection Reports:
ST1338 LAIH/Lot Q-4 Sump Manhole (South) (shared w/ Housing)
ST1346 LAIH/Lot Q-4 Sump Manhole (Middle) (shared w/ Housing)
ST1366 LAIH/Lot Q-4 Sump Manhole (North) (shared w/ Housing)
ST1486 Lot L-1 Stormceptor
ST1630 Lot W Stormceptor
ST2913 Lot R/ChPk Swales and Filtration Pond (shared w/ FM)
ST2923 Lot R/ChPk Underground Tank (shared w/ FM)
ST3583 Lot L-3 (lower) Sand Filter
ST3593 Lot L-3 (upper) Sand Filter
ST3982 Lot T-2 Filtration Bed
ST4591 Lot G Tank and Outlet Structure
ST4596 Lot G Stormceptor
ST4623 Lot E Sand Filter
ST5146 Lot M Stormceptor (shared w/ FM)
ST6193 Lot B Rain Garden (shared w/ FM)
ST1715 Lot Q-3 Swale

C: UMD Storm Water Steering Committee
John Rashid, UMD Facilities Management – Interim Director
**Physical Observations**

- **Condition of Device:** Good
- **Any Materials Within Structure:** Deteriorating: Y
- **Releasing Pollution:** Y
- **Source of Water:** N/A
- **Flow:** Performing Properly
- **Odor:** None
- **Color:** Normal
- **Turbidity:** None
- **Water Temperature:** F
- **Accumulated Materials**
  - **Floatables:** None
  - Oil in Oil Port: Y
  - **Deposits:** None
  - Depth of Sediment: N/A
  - **Stains:** Y
  - **Vegetation Conditions:** Normal
  - **Erosion:** None
- **Immediate Work Needed:** Y

**Inspection Comments / Recommendations**

- Clean when sediment is within 2.5' from outlet pipe: Y
- Look at plans for drainage area: Y

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**N 46 49.069**
**W 92 05.336**
### Physical Observations

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<th>Describe:</th>
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| Next Anticipated Work Date: | |
|-----------------------------||

### Inspection Comments / Recommendations

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<tr>
<td>Clean when sediment is within 2.5’ from outlet</td>
<td>Y</td>
<td>N</td>
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N 46 49.072
W 92 05.330
University of Minnesota Duluth

STORM WATER INSPECTION FORM

Outfall #: __________________________ Photograph Name: __________________________ Inspection Date: 8/26/2014
Pond Name: __________________________ Date of last inspection: 10/29/2013
Mechanical Structure #: ST1366 Type: Manhole Sump
Location: Lot Q-4 - North East Corner
Inspector: Tessa Bakken
Weather: Air Temperature: 65 Rain: Y N Date of Last Rain: 8/24/2013 Sunny Cloudy
Describe drainage area: Lot Q-4 / LAIH
Shared Use: Y N Describe: Lot Q-4 / LAIH

Physical Observations

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

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

Capacity of Pipe:
- Size of pipe: _______
- Depth of Water: 2.5’
- 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: 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: Removing Pollution: Y N Describe:
- Depth of Sediment: N/A
- Measurement: 6”
- Remaining Capacity: Unknown

Describe Work Needed: N/A

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

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 Describe: 

Next Anticipated Work Date:

Inspection Comments / Recommendations

Comments / Recommendations

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<th>Date</th>
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Remove Sediment when it is within 2.5’ of outlet

Completed: Y N Date: 

N 46 49.080
W 92 05.309
### University of Minnesota Duluth

#### STORM WATER INSPECTION FORM

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<tr>
<td>ST1486</td>
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#### Inspection Comments / Recommendations

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| N 46 49.122 |
| W 92 05.351 |

Printed - 2/27/2015
## STORM WATER INSPECTION FORM

### Physical Observations

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

- **Any Materials Within Structure:** Deteriorating
  - **Describe:** City outlet pipe appears to be plugged

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

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

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

- **Work Needed:** Y
  - **Describe:** City outlet pipe plugged

**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
  - **Measure:** N/A
  - **Sample Collected:** Y

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

- **Depth of Sediment:** N/A
  - **Measure:** 12"
  - **Remaining Capacity:** 0

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

### Vegetation Conditions:

**Normal**
- **Excessive Growth**
- **Inhibited Growth**

- **Describe:**

### Erosion:

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

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

### Immediate Work Needed:

Y
- **Describe:**

- **Next Anticipated Work Date:** Contact city (Todd Carlson)

### Inspection Comments / Recommendations

- **CITY CLEANS 3-4TIMES/YEAR PER TODD CARLSON WITH CITY**
  - **Completed:** Y
  - **Date:** N

- **Outlet pipe is full of water - City owned.**
  - **Completed:** Y
  - **Date:** N

- **Notify City**
  - **Completed:** Y
  - **Date:** N

- **Upstream catch basin, clean**
  - **Completed:** Y
  - **Date:** N

- **N 46 49.021**
- **W 92 05.446**
Outfall #: ST1713  Photograph Name: 05-ST1713  Inspection Date: 11/6/2014  
Pond Name:  
Mechanical Structure #:  
Type:  
Location: Grass swale from Lot Q-3  
Inspector: Erik J. Larson  
Weather: Air Temperature: _____  Rain: Y N  
Date of Last Rain: ________  Sunny  Cloudy  
Date of last Inspection: 10/19/2010  

Describe drainage area: Lot Q-3  
Shared Use: Y N  Describe:  

<table>
<thead>
<tr>
<th>Physical Observations</th>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Odor:</td>
<td>None</td>
<td>Sewage</td>
<td>Sulfide</td>
<td>Oil</td>
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<tr>
<td>Color:</td>
<td>None</td>
<td>Dark Brown</td>
<td>Light Brown</td>
<td>Other:</td>
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<td>Turbidity:</td>
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<tr>
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<td>Describe Work Needed:</td>
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<td>Floatables:</td>
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<td>Sheen</td>
<td>Foam</td>
<td>Sewage</td>
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<tr>
<td>Oil in Oil Port:</td>
<td>Y N</td>
<td>N/A</td>
<td>Measurement: Calculated:</td>
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<td>Inhibited Growth</td>
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<td>Describe Work Needed:</td>
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<td>Erosion:</td>
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<td>Minor Erosion</td>
<td>Major Erosion</td>
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<td>Describe Work Needed:</td>
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<tr>
<td>Condition:</td>
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<td>Average</td>
<td>Poor</td>
<td>Work Needed: Y N</td>
</tr>
<tr>
<td>Describe Work Needed:</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flow:</td>
<td>Size of Pipe:</td>
<td>Depth of Water:</td>
<td>Has Source of Flow Been Determined: Y N</td>
<td></td>
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<tr>
<td>Source of Water:</td>
<td>N/A</td>
<td>Remove sand</td>
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</table>

Water Temperature: F

**Inspection Comments / Recommendations**

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<th>Comments / Recommendations</th>
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<th>Date</th>
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<tr>
<td>New Construction 2005</td>
<td>N/A</td>
<td>Y N</td>
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<tr>
<td>4&quot; of sand in concrete swale</td>
<td>N/A</td>
<td>Y N</td>
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MPCA Permit Requirements (Annual)

Section V.G.6.b.2-6
- Inspection of structural pollution control devices
- Inspect 20% of outfalls and ponds
- Note repair, replacement, and/or maintenance needed including schedule for completion
- Summarize inspection results for annual report

Printed - 3/2/2015
STORM WATER INSPECTION FORM

Outfall #: ___________________________ Photograph Name: 12-ST2913 Inspection Date: 10/21/2014

Pond Name: ___________________________ Date of last inspection: 10/22/2013

Mechanical Structure #: ST2913 Type: Filtration Basin / Grass Swales

Location: Chester Park
Inspector: Erik J. Larson

Weather: Air Temperature: 40 Rain: Y N Date of Last Rain: 10/17/2014 Sunny Cloudy

Describe drainage area: Lot R1, R2, R3, Chester Park, and Chester Park Driveway

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: _______ 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: _______ Sample Collected: Y N

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

Describe Work Needed: N/A

Deposits: None Sediment Oily Describe: Minor, sandy 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

Installed November 2008 / Planted 2009 Y N _______

Includes swales for R1, R2, R3 Y N _______

Filtration basin extended in 2012 w/ demolition of 823 Y N _______

Standing water at inlet, tank is still draining Y N _______

N 46 48.905 W 92 04.725
### Physical Observations

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

### Capacity of Pipe

| Size of Pipe: | 42" | Depth of Water: | 19" | 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

| Performance: | Performing Properly | Full | Overloaded | Clogged | Other: |
| 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 | Measurement: | Calculated: |
| Describe Work Needed: | N/A | Clean out |

| Deposits: | None | Sediment | Oily | Describe: | Fine layer silt | Sample Collected: | Y | N |
| Depth of Sediment: | N/A | Measurement: | Minor 2.5" | 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

There is evidence of it having been completely filled
2.5" of sediment at bottom of tank
1.3" of water at bottom

N 46 48.904
W 92 04.737
## STORM WATER INSPECTION FORM

<table>
<thead>
<tr>
<th>Outfall #</th>
<th>Photograph Name</th>
<th>Inspection Date</th>
<th>Date of last inspection</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>11/4/2014</td>
<td>10/22/2014</td>
</tr>
</tbody>
</table>

### Physical Observations

#### Condition of Device
- Condition: **Good**
- Work Needed: **N/A**
- Any Materials Within Structure: **Deteriorating**
- Releasing Pollution: **N/A**

#### Capacity of Pipe
- Size of Pipe: **N/A**
- Depth of Water: **N/A**
- Source of Water: **N/A**

#### Flow
- Flow: **Performing Properly**
- Work Needed: **N/A**
- Odor: **None**
- Color: **Normal**
- Turbidity: **None**
- Water Temperature: **F**

#### Accumulated Materials
- Floatables: **None**
- Deposits: **None**
- Stains: **Y**
- Vegetation Conditions: **Normal**
- Erosion: **None**

#### Inspection Comments / Recommendations
- Overflow/ outlet structure - fine
- Anticipate 2-5 year removal of top layers and replace sand
- Multiple holes in sand & around edge - animals?

---

N 46 49.256
W 92 05.240
### STORM WATER INSPECTION FORM

**Outfall #:** ___________________________ **Photograph Name:** 11-ST3593 **Inspection Date:** 11/4/2014

**Pond Name:** ___________________________ **Date of last inspection:** 10/22/2013

**Mechanical Structure #:** ST3593 **Type:** Sand filter

**Location:** Below Lot L-3 (upper filter) **Inspector:** Erik J. Larson

**Weather:** Air Temperature: 41 **Rain:** Y N **Date of Last Rain:** 11/4/2014 **Sunny** Cloudy

**Describe drainage area:** L-3 **Shared Use:** Y N

#### 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: 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: Sample Collected: Y N 

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

Describe Work Needed: N/A

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

Depth of Sediment: N/A Measurement: Remaining Capacity 

Describe Work Needed: N/A Clear

**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 Watch Top inlet

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

N 46 49.248
W 92 05.259

---

**University of Minnesota Duluth**

Printed - 1/6/2015
University of Minnesota Duluth

STORM WATER INSPECTION FORM

Outfall #: ___________________________ Photograph Name: ________________ Inspection Date: 11/6/2014

Pond Name: ___________________________ Date of last inspection: 10/22/2013

Mechanical Structure #: ST3982 Type: Filtration Basin

Location: Lot T-2

Inspector: Erik J. Larson

Weather: Air Temperature: 35 Rain: Y N Date of Last Rain: 11/4/2014 Sunny Cloudy

Describe drainage area: T-2

Shared Use: Y N Describe: Parking and Materials Storage Area above parking lot

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: Rock Pond would catch any sediment

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 Significant Organics Sample Collected: Y N

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

Describe Work Needed: N/A

Deposits: None Sediment Oily Describe: 

Depth of Sediment: N/A Measurement: Minor 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

Reconstruction 2011

Constructed 1994

N 46 49.368
W 92 05.187
University of Minnesota Duluth

STORM WATER INSPECTION FORM

Outfall #: ___________________________ Photograph Name: ___________________________ Inspection Date: 10/16/2014

Pond Name: ___________________________ Date of last inspection: 10/29/2013

Mechanical Structure #: ST4591 Type: Overflow structure/tank

Location: East Lot G

Inspector: Erik J. Larson

Weather: Air Temperature: 45 Rain: Y N Date of Last Rain: 10/13/2014 Sunny Cloudy

Describe drainage area: Parking Lot G

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: 3.5' 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: All

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 Oil Other: ___________________________ Sample Collected: Y N

Oily Describe: minor Sample Collected: Y N

Depth of Sediment: N/A Measurement: 2" 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
Concrete rings eroding Y N
Middle manhole done '14 Y N
Upper manhole done '12 Y N
Lower Manhole done '13 Y N

N 46 49.260
W 92 04.899
**STORM WATER INSPECTION FORM**

**Outfall #**: ____________  **Photograph Name**: ____________  **Inspection Date**: 10/16/2014

**Pond Name**: ____________  **Date of last inspection**: 10/29/2013

**Mechanical Structure #**: ST4596  **Type**: Stormcepter900

**Location**: Lot G

**Inspector**: Erik J. Larson

**Weather**: 
- **Air Temperature**: 45
- **Rain**: Y N
- **Date of Last Rain**: 10/13/2014
- **Sunny Cloudy**

**Describe drainage area**: North half of Lot G

**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: N/A Depth of Water: 4.9' Has Source of Flow Been Determined: Y N

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

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

- **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: ____________ Sample Collected: Y N

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

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

- **Depth of Sediment**: N/A Measurement: 1' 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: ____________

**Next Anticipated Work Date**: ____________

---

### Inspection Comments / Recommendations

**Comments / Recommendations**

<table>
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<th>Completed</th>
<th>Date</th>
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</table>

Unconsolidated sediment only

- N 46 49.258
- W 92 04.895
### STORM WATER INSPECTION FORM

**Outfall #:**  
**Photograph Name:**  
**Inspection Date:** 11/4/2014

**Pond Name:**  
**Date of last inspection:** 10/29/2013

**Mechanical Structure #:** ST4623  
**Type:** Sand Filter

**Location:** Lot E  
**Inspector:** Erik J. Larson

**Weather:**  
- Air Temperature: 41°F  
- Rain: **Y** N  
- Date of Last Rain: 11/4/2014  
- **Sunny** Cloudy

**Describe drainage area:** Lot E  
**Shared Use:** **Y** N

### Physical Observations

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

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

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

**Capacity of Pipe:**  
- **Size of pipe:** N/A
- **Depth of Water:** 0.5"  
- Has Source of Flow Been Determined: **Y** N

**Source of Water:** Lot E

**Describe Storage Capacity:**  
- **Minimal**  
- **Less Than Half**  
- **Greater Than Half**  
- **Full**  
- **Amount Remaining:** 100%

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

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

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

**Color:**  
- **Normal**  
- **Dark Brown**  
- **Light Brown**  
- **Other:** N/A

**Turbidity:**  
- **None**  
- **Cloudy**  
- **Suspended Particles**  
- **Other:** N/A

**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:** Sheen  
- **Calculated:**

**Describe Work Needed:** N/A

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

**Depth of Sediment:** 1/2"  
- Measurement: 8"  
- Remaining Capacity

**Describe Work Needed:** N/A

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

**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

**Next Anticipated Work Date:** Summer 2014

### Inspection Comments / Recommendations

**Comments / Recommendations**

- Large rocks should be moved, 10’ area below of pipe cleaned
- Check in ‘14 to clean top 1/2” silts

**Completed Date**

- **Y** N
STORM WATER INSPECTION FORM

Outfall #: __________________________ Photograph Name: __________________________ Inspection Date: 10/16/2014
Pond Name: __________________________ Date of last inspection: 10/29/2013

Mechanical Structure #: ST5146 Type: Stormceptor
Location: Lot M/ RWBFGM Stormceptor
Inspector: Erik J. Larson
Weather: Air Temperature: 45 Rain: Y N Date of Last Rain: 10/13/2014 Sunny Cloudy
Describe drainage area: Lot M/FGM
Shared Use: Y N Describe: Parking

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: N/A Depth of Water: 4'9'' 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: ______________________ Describe:
Work Needed: Y N

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

Color: Normal Dark Brown Light Brown Other: ______________________ Describe:

Turbidity: None Cloudy Suspended Particles Other: ______________________ Describe:
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: 12"-14" 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
Outlet pipe has 1/2" water Y N ____
Needs to be cleaned Y N ____
Water Main break Y N ____

N 46 49.173
W 92 04.708
Outfall #: ___________________ Photograph Name: ___________________ Inspection Date: 10/25/14

Pond Name: ___________________ Date of last inspection: 10/22/13

Mechanical Structure #: ST6193 Type: Rain Garden

Location: Behind Lund building & Lot B

Inspector: Erik J. Larson

Weather: Air Temperature: 65 Rain: Y N Date of Last Rain: 10/20/2014 Sunny Cloudy

Describe drainage area: North 1/2 of Lot B

Shared Use: Y N

Physical Observations

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

Any Materials Within Structure: Deteriorating: Y N Describe: Released 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: Sample Collected: Y N

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

Describe Work Needed: N/A

Deposits: None Sediment Oily Describe: Minor in garden 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 Weeds-Thistles

Describe Work Needed: N/A

Erosion: None Minor Erosion Major Erosion Erosion Protected Y N

Describe Work Needed: N/A

Previously, minor erosion along Lot B; unknown because it was buried in snow

Immediate Work Needed: Y N Describe:

Next Anticipated Work Date:

Inspection Comments / Recommendations

Comments / Recommendations

Minor Erosion along Lot B - (Continue to watch)

Completed Date

N 46 48.916
W 92 05.037