TO: John Rashid, Facilities Management – Assoc. Director (Construction/Project Management)
FROM: Erik Larson, Facilities Management - Sr. Engineer
SUBJECT: Summary of 2013 Inspection of Facilities Management’s Structural Storm Water Devices, Outfalls, Storage and Handling Areas, and Ponds UMD SWPPP 6b-2 / 6b-3 / 6b-4 / 6b-5

The annual inspections of the Facilities Management structural storm water devices, Storage and Handling Areas, approximately 20% of UMD’s outfalls, and UMD ponds per the MPCA’s MS4’s storm water permit MN R580000 were completed this fall. While the majority of our features 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 as soon as possible, medium priority should be addressed within the year, and low priority items maybe deferred and reviewed again next year to see if they continue to be a problem.

HIGH PRIORITY

ST4913 LSBE Middle Rain Garden
There is 4” of sediment in the center of the rain garden from the installation of the chiller lines as part of the CUB project. I recommend cleaning this up as part of the project. – Email sent to PM and Contractor 10/22/13, it was not repaired the last time I checked before snow fall.

ST6193 Lot B Rain Garden
The sedimentation basin is full and holding water. I recommend cleaning the sediment out before winter. – Completed 11/14/13

MEDIUM PRIORITY

ST1585 Lot W sidewalk Culvert
There is 4” of sediment in the bottom of the culvert apron. I recommend that this structure be cleaned. – Completed 11/8/13

ST2913 ChPk Filtration Basin
Silt Fence and erosion control netting was not removed after expansion of the holding pond. I recommend removal of these items. – Completed 11/6/13

ST4903 LSBE North Rain Garden
North inlet has a moderate amount of sediment in the forebay. I recommend cleaning out the sediment before it washes into the rain garden.

ST5715 RBMF Culvert Inlet
This inlet is partially clogged with sediment and grass. I recommend that the inlet area of this culvert is cleaned.
LOW PRIORITY

ST4933 LSBE South Rain Garden

The gate in the AgriDrain is down but the water level is down. I recommend investigating water level in the summer for a leaking seal or a short circuit around control structure.

The rest of our structural storm water devices, the outfalls inspected, storage and materials handling areas, and the ponds appear to be functioning as intended.

Update on last year’s issues:

Lot-N-SP Storage Area - Repair silt fence / clean out eroded material. – Area/silt fence repaired 11/17/13
ST5146 Lot M / RWBFGM Stormcepter - Clean structure. – Cleaned 9/13/13
GMS-SP Grounds Materials Storage Area - Culverts blocked. – Culverts cleaned 11/17/13
ST4373 / ST6213 / ST5283 / FGM-MH Pavers – Clean and re-rock – Cleaned and rocked 11/8/13
ST9005 - Stabilize outfall @ RLB – Pipe extended and area stabilized 11/12/13
ST9105 / ST9115 - Repair outfalls @ RLB – Concrete troughs reset 5/16/13
Glensheen’s outlets – Still on hold pending completion of storm repair project - Several items have been repaired as part of that project.

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

Thanks.

Enclosures:

Inspection Reports:

ST1585 Culvert
ST2913 ChPk Filtration Basin
ST4903 LSBE North Rain Garden
ST4913 LSBE Middle Rain Garden
ST4933 LSBE South Rain Garden
ST5715 Culvert Inlet
ST6193 Lot B Rain Garden

C: UMD Storm Water Steering Committee

John King, UMD Facilities Management – Director
University of Minnesota Duluth  
STORM WATER INSPECTION FORM

<table>
<thead>
<tr>
<th>Outfall # : ST1585</th>
<th>Photograph Name : 13-ST1585</th>
<th>Inspection Date: #</th>
<th>Date of Last Inspection: 10/28/2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pond Name:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mechanical Structure #:</td>
<td>Type: Outlet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Location: Lot P Sidewalk to creek above Pond</td>
<td>Inspector: Erik J. Larson</td>
<td>Weather: Air Temperature: 35</td>
<td>Rain: Y N Date of Last Rain: 10/21/13 Sunny Cloudy</td>
</tr>
</tbody>
</table>

Describe drainage area: Lawn along East side of Junction Ave / Lot V

<table>
<thead>
<tr>
<th>Shared Use:</th>
<th>Describe: Lawn along Junction Ave / Lot V</th>
</tr>
</thead>
</table>

### Physical Observations

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

<table>
<thead>
<tr>
<th>Turbidity:</th>
<th>None</th>
<th>Cloudy</th>
<th>Opacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deposits / Stains:</td>
<td>None</td>
<td>Sediment</td>
<td>Oily</td>
</tr>
<tr>
<td>Depth of Sediment:</td>
<td>N/A</td>
<td>Measurement: 6&quot;</td>
<td>Remaining Capacity</td>
</tr>
<tr>
<td>Describe Work Needed:</td>
<td>N/A</td>
<td>Clean out sediment</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Vegetation Conditions:</th>
<th>Normal</th>
<th>Excessive Growth</th>
<th>Inhibited Growth</th>
<th>Describe:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Erosion:</th>
<th>None</th>
<th>Minor Erosion</th>
<th>Major Erosion</th>
<th>Erosion Protected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Describe Work Needed:</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Condition:</th>
<th>Good</th>
<th>Average</th>
<th>Poor</th>
<th>Work Needed: Y N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Describe Work Needed:</td>
<td>N/A</td>
<td>Clean out sediment on apron</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flow: Size of Pipe:</th>
<th>12&quot;</th>
<th>Depth of Water:</th>
<th>Has Source of Flow Been Determined: Y N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source of Water:</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Water Temperature:</th>
<th>F</th>
<th>Not Available</th>
</tr>
</thead>
</table>

### Inspection Comments / Recommendations

<table>
<thead>
<tr>
<th>Comments / Recommendations</th>
<th>Completed</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clean out culvert apron</td>
<td>Y</td>
<td>11/8/2013</td>
</tr>
</tbody>
</table>

MPCA Permit Requirements (Annual)

* 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
University of Minnesota Duluth

STORM WATER INSPECTION FORM

Outfall #: ___________________________ Photograph Name: 12-ST2913 Inspection Date: 10/22/2013

Pond Name: ___________________________ Date of last inspection: 12/5/2012

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

Location: Chester Park

Inspector: Erik J. Larson

Weather: Air Temperature: 35 Rain: Y N Date of Last Rain: 10/21/2013 Sunny Cloudy

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

Shared Use: Y N Describe: Parking/Chester Park/Chester Park Driveway

Physical Observations

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

Any Materials Within Structure: Deteriorating Y N Describe:

Capacity of Pipe: Size of pipe: Depth of Water: 0 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:

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

Installed November 2008 / Planted 2009

Includes swales for R1, R2, R3

Filtration basin extended in 2012 w/ demolition of 823

N 46 48.905
W 92 04.725

Printed - 1/29/2014
# Storm Water Inspection Form

**Outfall #:** [Blank]  
**Photograph Name:** [Blank]  
**Inspection Date:** 10/22/2013

**Pond Name:** [Blank]  
**Date of last inspection:** 12/3/2012

**Mechanical Structure #:** ST4903  
**Type:** Rain Garden

**Location:** LSBE North Side-North RG

**Inspector:** Erik J. Larson

**Weather:**  
- **Air Temperature:** 35
- **Rain:** Y
- **Date of Last Rain:** 10/21/13
- **Sunny**
- **Cloudy**

**Describe drainage area:** LSBE/Kirby Drive

**Shared Use:** Y

## Physical Observations

### Condition of Device:
- **Good**
- **Average**
- **Poor**

**Work Needed:** Y

**Describe Work Needed:** [Blank]

**Any Materials Within Structure:**  
- **Deteriorating:** Y
- **Describe:** [Blank]

**Releasing Pollution:** Y

**Describe:** [Blank]

### Capacity of Pipe:
- **Size of pipe:** N/A
- **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:** [Blank]

### Flow:
- **Performing Properly**
- **Full**
- **Overloaded**
- **Clogged**
- **Other:** [Blank]

**Work Needed:** Y

**Describe:** [Blank]

### Odor:
- **None**
- **Sewage**
- **Sulfide**
- **Oil**
- **Gas**
- **Rancid-Sour**
- **Other:** [Blank]

**Work Needed:** Y

**Describe:** [Blank]

### Color:
- **Normal**
- **Dark Brown**
- **Light Brown**
- **Other:** [Blank]

**Work Needed:** Y

### Turbidity:
- **None**
- **Cloudy**
- **Suspended Particles**
- **Other:** [Blank]

**Work Needed:** Y

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

### Accumulated Materials

**Floatables:**  
- **None**
- **Sheen**
- **Foam**
- **Sewage**
- **Litter**
- **Other:** [Blank]

**Oil in Oil Port:** Y

**Measurement:** Calculated

**Sample Collected:** Y

**Deposit Work Needed:** N/A

**Deposits:**  
- **Sediment**
- **Oily**
- **Describe:** [Blank]

**Depth of Sediment:** N/A

**Measurement:** [Blank]

**Remaining Capacity:** [Blank]

**Deposit Work Needed:** N/A

**Stains:** Y

**Work Needed:** Y

**Describe:** [Blank]

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

**Describe Work Needed:** N/A

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

**Describe Work Needed:** N/A

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

**Describe:** Sediment in forebay should be scooped out

**Next Anticipated Work Date:** Spring 2014

### Inspection Comments / Recommendations

<table>
<thead>
<tr>
<th>Comments / Recommendations</th>
<th>Completed</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rebuilt 2010, built in 2008</td>
<td>Y</td>
<td>N</td>
</tr>
<tr>
<td>North inlet rock has sediment, clean next year</td>
<td>Y</td>
<td>N</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>N 46 49.235</th>
</tr>
</thead>
</table>

| W 92 05.067 |
University of Minnesota Duluth

**STORM WATER INSPECTION FORM**

**Outfall #:** ________________  **Photograph Name:** ________________  **Inspection Date:** 10/22/2013

**Pond Name:** ________________  **Date of last inspection:** 12/3/2012

Mechanical Structure #: ST4913  **Type:** Rain Garden

**Location:** LSBE North Side-South RG  **Inspector:** Erik J. Larson

**Weather:**  
- Air Temperature: 35°F
- Rain: Y
- Date of Last Rain: 10/21/13
- Sunny
- Cloudy

Describe drainage area: Kirby Drive/LSBE Turnaround

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

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

<table>
<thead>
<tr>
<th>Accumulated Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Floatables:</strong> None Sheen Foam Sewage Litter Other:</td>
</tr>
<tr>
<td>Oil in Oil Port: Y N N/A Measurement: Calculated:</td>
</tr>
<tr>
<td>Describe Work Needed: N/A</td>
</tr>
<tr>
<td><strong>Deposits:</strong> None Sediment Oily Describe:</td>
</tr>
<tr>
<td>Depth of Sediment: N/A Measurement: 4&quot; Remaining Capacity</td>
</tr>
<tr>
<td>Describe Work Needed: N/A Remove sediment</td>
</tr>
<tr>
<td><strong>Stains:</strong> Y N Work Needed: Y N Describe:</td>
</tr>
<tr>
<td><strong>Vegetation Conditions:</strong> Normal Excessive Growth Inhibited Growth Describe:</td>
</tr>
<tr>
<td>Describe Work Needed: N/A</td>
</tr>
<tr>
<td><strong>Erosion:</strong> None Minor Erosion Major Erosion Erosion Protected Y N</td>
</tr>
<tr>
<td>Describe Work Needed: N/A</td>
</tr>
</tbody>
</table>

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

**Next Anticipated Work Date:** Spring 2014

**Inspection Comments / Recommendations**

<table>
<thead>
<tr>
<th>Comments / Recommendations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Built 2008</td>
</tr>
<tr>
<td>Center 20ft area w/4&quot; sediment from CUB project</td>
</tr>
</tbody>
</table>

N 46 49.231  
W 92 05.113

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**STORM WATER INSPECTION FORM**

Outfall #: __________________________ Photograph Name: __________________________ Inspection Date: 10/22/13

Pond Name: __________________________ Date of last inspection: 12/3/2012

Mechanical Structure #: ST4933 Type: Rain Garden

Location: LSBE South side

Inspector: Erik J. Larson

Weather: Air Temperature: 35 Rain: Y N Date of Last Rain: 10/21/2013 Sunny Cloudy

Describe drainage area: LSBE/Kirby Drive

Shared Use: Y N Describe:

### Physical Observations

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

Describe Work Needed: N/A

Investigate why water is not being stored behind Agradrain

**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

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

Describe Work Needed: N/A

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

Measurement: ________

Calculate: ________

Describe Work Needed: N/A

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

Sample Collected: Y N

Describe Work Needed: N/A

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

Measurement: ________

Remaining Capacity: N/A

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: Investigate why water is not being stored behind Agradrain

Next Anticipated Work Date: Summer 2014

### Inspection Comments / Recommendations

**Comments / Recommendations**

<table>
<thead>
<tr>
<th>Completed</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reconstruction 2010</td>
<td></td>
</tr>
<tr>
<td>Area by outlet wet -standing water - from building sump pumps frequent discharge</td>
<td></td>
</tr>
<tr>
<td>Gate Down but water level same</td>
<td></td>
</tr>
<tr>
<td>Investigate why water is not being stored behind Agradrain</td>
<td>Y N</td>
</tr>
</tbody>
</table>

N 46 49.179

W 92 05.116

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STORM WATER INSPECTION FORM

Outfall #: ST5715  Photograph Name: 13-ST5715  Inspection Date: 10/29/13

Pond Name:  Date of last inspection: 10/23/09
Mechanical Structure #: Type: Culvert Inlet
Location: FGM  Inspector: Erik J. Larson
Weather: Air Temperature: 45  Rain: Y  Date of Last Rain: 10/27  Sunny  Cloudy
Describe drainage area: Overflow from RWBFGM Pond (ST5713) and W. Elizabeth Street
Shared Use: Y N  Describe: Overflow from RWBFGM Pond (ST5713) and W. Elizabeth Street

Physical Observations

Condition of Device: Good  Average  Poor  Work Needed: Y N
Describe Work Needed: N/A  Clean out sediment / sod in front of inlet

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

Capacity of Pipe:
Size of pipe: 12"  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 out sediment / sod in front of inlet

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: Sod has raised up  Remaining Capacity N/A
Describe Work Needed: N/A  Clean out sediment / sod in front of inlet

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: Clean out sediment / sod in front of inlet

Next Anticipated Work Date: Summer 2014

Inspection Comments / Recommendations

Comments / Recommendations
Completed  Date
Y N  
Y N  
Y N  
Y N  
Y N  

N 46 49.165
W 92 96.673

Printed - 1/30/2014
# Storm Water Inspection Form

**University of Minnesota Duluth**

**STORM WATER INSPECTION FORM**

<table>
<thead>
<tr>
<th>Outfall #</th>
<th>Photograph Name:</th>
<th>Inspection Date: 10/22/13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pond Name:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mechanical Structure #:</td>
<td>ST6193</td>
<td>Type: Rain Garden</td>
</tr>
<tr>
<td>Location:</td>
<td>Behind Lund building &amp; Lot B</td>
<td></td>
</tr>
<tr>
<td>Inspector:</td>
<td>Erik J. Larson</td>
<td></td>
</tr>
<tr>
<td>Weather:</td>
<td>Air Temperature: 35</td>
<td>Rain: Y</td>
</tr>
<tr>
<td></td>
<td>Date of Last Rain: 10/21/2013</td>
<td>Sunny Cloudy</td>
</tr>
<tr>
<td>Describe drainage area:</td>
<td>North 1/2 of Lot B</td>
<td></td>
</tr>
<tr>
<td>Shared Use:</td>
<td>Y</td>
<td>Describe:</td>
</tr>
</tbody>
</table>

## Physical Observations

### Condition of Device:
- Good
- Average
- Poor
- Work Needed: Y N
- Clean Out Sediment Basin

### 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

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

### Color:
- Normal
- Dark Brown
- Light Brown
- Other:
- Work Needed: Y N

### 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: ________
- Work Needed: N/A

#### Deposits:
- None
- Sediment
- Oily
- Describe: Minor in garden
- Sample Collected: Y N
- Depth of Sediment: N/A
- Measurement: Remaining Capacity
- Work Needed: N/A
- Sediment in containment area

#### 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
- Previously, minor erosion along Lot B; unknown because it was buried in snow
- Work Needed: N/A

### Immediate Work Needed:
- Y N
- Describe: Clean Out Sediment Basin
- Next Anticipated Work Date: October/November 2013

### Inspection Comments / Recommendations

#### Comments / Recommendations
- Completed Date
- Minor Erosion along Lot B –(Continue to watch)
- Sediment basin needs to be cleaned before winter
- Y
- 11/14/13

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N 46 48.916
W 92 05.037

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