Need help with this research request:

Do you have any forms/checklists that are used for the maintenance inspection of SWM detention and water quality ponds and facilities? I need something for my field staff to document our inspections.

Please forward this request to anyone that may be able to help.

John W. Carpita, P.E.
Public Works Consultant
Municipal Research and Services Center
2601 Fourth Avenue, Suite 800
Seattle, WA 98121-1280
206-625-1300
Fax: 206-625-1220
jcarpita@mrsc.org
www.mrsc.org
John Carpita

From: Deonne Hardy [deonne@ci.yelm.wa.us]
Sent: Tuesday, July 21, 2009 2:48 PM
To: John Carpita
Cc: Tim Peterson; Stephanie Ray
Subject: FW: Maintenance Inspection Forms for Retention/Detention Ponds
Attachments: Actions Completed.doc; Inspection Notice Letter.doc; Inspection Results.doc; Storm Water Maintenance Checklist.doc; Stormwater Re-Inspection SECOND NOTICE.doc

John, I have attached the City of Yelm’s storm water inspection forms, per your request. If we can further assist you, please call me.

Deonne
Deonne Hardy
Public Works Department
Administrative Assistant
Mailing: 105 Yelm W.
Physical: 901 Rhoton Road SE
Yelm, WA 98597
(360) 458-8406
Fax: (360) 458-8417
email: deonneh@ci.yelm.wa.us

From: John Carpita [mailto:jcarpita@mrsc.org]
Sent: Tuesday, July 21, 2009 2:22 PM
Subject: Maintenance Inspection Forms for Retention/Detention Ponds

Need help with this research request:

Do you have any forms/checklists that are used for the maintenance inspection of SWM detention and water quality ponds and facilities? I need something for my field staff to document our inspections.

Please forward this request to anyone that may be able to help.

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Public Works Consultant
Municipal Research and Services Center
2601 Fourth Avenue, Suite 800
Seattle, WA 98121-1280
206-625-1300
Fax: 206-625-1220
jcarpita@mrsc.org
www.mrsc.org
John, you are welcome. Also, I have attached examples of finished inspections with ‘before’ pictures included. And then we will take an ‘after’ picture and include it in the final report for our file. Deonne

Deonne Hardy  
Public Works Department  
Administrative Assistant  
Mailing: 105 Yelm W.  
Physical: 901 Rhoton Road SE  
Yelm, WA 98597  
(360) 458-8406  
Fax: (360) 458-8417  
email: deonneh@ci.yelm.wa.us

Thank you very much.

John, I have attached the City of Yelm’s storm water inspection forms, per your request. If we can further assist you, please call me.

Deonne  
Deonne Hardy  
Public Works Department  
Administrative Assistant  
Mailing: 105 Yelm W.  
Physical: 901 Rhoton Road SE  
Yelm, WA 98597  
(360) 458-8406  
Fax: (360) 458-8417  
email: deonneh@ci.yelm.wa.us

Need help with this research request:
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2601 Fourth Avenue, Suite 800
Seattle, WA 98121-1280
206-625-1300
Fax: 206-625-1220
jcarpita@mrsc.org
www.mrsc.org
John Carpita

John,  

We are working on this matter also, so if you get something useable please let us know.  

Thanks,  

Mark A. Freiberger, PE  
Director of Public Works/City Engineer  
City of Sedro-Woolley  
Telephone 360-855-0771

Need help with this research request:  

Do you have any forms/checklists that are used for the maintenance inspection of SWM detention and water quality ponds and facilities? I need something for my field staff to document our inspections.

Please forward this request to anyone that may be able to help.

John W. Carpita, P.E.  
Public Works Consultant  
Municipal Research and Services Center  
2601 Fourth Avenue, Suite 800  
Seattle, WA 98121-1280  
206-625-1300  
Fax: 206-625-1220  
jcarpita@mrsc.org  
www.mrsc.org
We do. We will send you something tomorrow

GLENN AKRAMOFF
PUBLIC WORKS DIRECTOR
CITY OF COVINGTON
253 638-1110 EXT. 2253

---

Need help with this research request:

Do you have any forms/checklists that are used for the maintenance inspection of SWM detention and water quality ponds and facilities? I need something for my field staff to document our inspections.

Please forward this request to anyone that may be able to help.

John W. Carpita, P.E.
Public Works Consultant
Municipal Research and Services Center
2601 Fourth Avenue, Suite 800
Seattle, WA 98121-1280
206-625-1300
Fax: 206-625-1220
jcarpita@mrsc.org
www.mrsc.org
Hi John:

I have an example of a maintenance inspection form for our SWM detention and water quality ponds. Do you have some examples of stormwater treatment device inspection forms?

I can send mine tomorrow.

Thanks,

Joe

Joe Comstock
Associate Engineer E.I.T.
City of Tacoma
Division of Science & Engineering
Phone - (253) 502-2102
Cell – (253) 377-3061
Fax – (253) 502-2295
jcomstock@cityoftacoma.org

Need help with this research request:

Do you have any forms/checklists that are used for the maintenance inspection of SWM detention and water quality ponds and facilities? I need something for my field staff to document our inspections.

Please forward this request to anyone that may be able to help.

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Municipal Research and Services Center
2601 Fourth Avenue, Suite 800
Seattle, WA 98121-1280
206-625-1300
Fax: 206-625-1220
jcarpita@mrsc.org
www.mrsc.org
John Carpita

From: Rogalsky, Pete [PRogalsky@CI.RICHLAND.WA.US]
Sent: Tuesday, July 21, 2009 5:31 PM
To: John Carpita
Subject: RE: Maintenance Inspection Forms for Retention/Detention Ponds

No, but would be interested in if you come up with anything. We have many of these basins and find maintenance of them a challenge.

Pete Rogalsky, P.E.
Public Works Director
City of Richland
P.O. Box 190, MS #26
505 Swift Blvd.
Richland, WA 99352
(509) 942-7558
(509) 942-7468 - fax
progalsky@ci.richland.wa.us

From: John Carpita [mailto:jcarpita@mrsc.org]
Sent: Tuesday, July 21, 2009 2:22 PM
Subject: Maintenance Inspection Forms for Retention/Detention Ponds

Need help with this research request:

Do you have any forms/checklists that are used for the maintenance inspection of SWM detention and water quality ponds and facilities? I need something for my field staff to document our inspections.

Please forward this request to anyone that may be able to help.

John W. Carpita, P.E.
Public Works Consultant
Municipal Research and Services Center
2601 Fourth Avenue, Suite 800
Seattle, WA 98121-1280
206-625-1300
Fax: 206-625-1220
jcarpita@mrsc.org
www.mrsc.org
We train our folks in-house and encourage them to get all certificates excluding motorcycles.

Pls forward any decent dam pond forms that you come across. Thks!

----- Original Message ----- 
From: John Carpita <jcarpita@mrsc.org> 
Sent: Tue Jul 21 14:21:43 2009 
Subject: Maintenance Inspection Forms for Retention/Detention Ponds

Need help with this research request:

Do you have any forms/checklists that are used for the maintenance inspection of SWM detention and water quality ponds and facilities? I need something for my field staff to document our inspections.

Please forward this request to anyone that may be able to help.

John W. Carpita, P.E.
Public Works Consultant
Municipal Research and Services Center
2601 Fourth Avenue, Suite 800
Seattle, WA 98121-1280
206-625-1300
Fax: 206-625-1220
jcarpita@mrsc.org
www.mrsc.org
Good morning Mr. Carpita.

Your request regarding forms and/or checklists used for maintenance inspections of SWM detention and water quality ponds and facilities came across my desk yesterday. My colleagues and I have spent a considerable amount of time compiling the Clark County Stormwater Facility Maintenance Manual (open this link: http://www.clark.wa.gov/water-resources/documents/SWMP/SOUP/Stormwater%20Facility%20Maintenance%20Manual.pdf). The maintenance standards are equivalent to Ecology's 2005 SMMWW. We have also added additional maintenance standards that are relevant for treatment BMP's found here in Clark County.

As far as maintenance forms are concerned, we have used a paper form in the past to document inspection activities (see attachments). We found that these forms were helpful, but can get overwhelming as more and more facilities are inspected. We built an Access database to house all of our inspection activities. This database was built around the Clark County Stormwater Facility Maintenance Manual and is quite helpful in tracking inspection activities. If you would like to take a look at the database, I can send you a copy.

<<Field Sheet for PSWF Inspections.doc>> <<Example Field Sheet for PSWF Inspections.doc>>

If there are any questions, comments, or you are having trouble with the attachments or opening the link, please let me know.

Have a great day.

Chad Hoxeng
Natural Resources Specialist II
Clark County Public Works
Clean Water Program
360-397-6118 ext. 4018
Chad.Hoxeng@clark.wa.gov

From: John Carpita [mailto:jcarpita@mrcs.org]
Sent: Tuesday, July 21, 2009 2:22 PM
Subject: Maintenance Inspection Forms for Retention/Detention Ponds

Need help with this research request:
Do you have any forms/checklists that are used for the maintenance inspection of SWM detention and water quality ponds and facilities? I need something for my field staff to document our inspections.

Please forward this request to anyone that may be able to help.
John W. Carpita, P.E.
Public Works Consultant
This e-mail and related attachments and any response may be subject to public disclosure under state law.
From: Barbeau, Kent [Kent.Barbeau@co.snohomish.wa.us]
Sent: Wednesday, July 22, 2009 11:35 AM
To: John Carpita
Subject: FW: Maintenance Inspection Forms for Retention/Detention Ponds
Attachments: checklist_and_amanda_entry.xlsx

This didn’t go the first time.

Kent Barbeau
Business Process Analyst
Surface Water Management
Snohomish County Public Works
3000 Rockefeller Ave., MS 607
Everett, WA 98201
425-388-6459
kent.barbeau@co.snohomish.wa.us

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From: Barbeau, Kent
Sent: Wednesday, July 22, 2009 11:33 AM
To: John Carpita
Cc: Washington, Nat; Kerwin, Karen
Subject: Maintenance Inspection Forms for Retention/Detention Ponds

Snohomish County is working on developing an interim drainage facility inspection and data storage solution in the permitting database used by the county’s planning and development services department. The permitting database is called Amanda and is developed and marketed by CSDC Systems out of Canada. There is limited ability to customize the interface. Attached is the spreadsheet that I have been using to configure the CSDC Amanda product for storing our drainage facility inspection data. There are numerous tabs that only have relevance in the Amanda environment. The tab you are probably most interested in is the CHECKLIST tab. This tab lists a component and under that component it has all the checklist items. Each checklist item is answered with a YES (meaning everything is okay) or a NO (meaning some sort of maintenance needs to happen). This is an Amanda convention. It is my understanding the DOE manual uses the opposite convention. The concept is that for each facility a list of the components is entered based on how water would flow through them. There may be multiple flow paths within a facility. Once each components is entered, a facility specific checklist can be printed for the inspector to take into the field. Please feel free to contact me with any questions you may have.

I’m normally in the office from 8:30 to 5:30.

Regards,

Kent Barbeau
Business Process Analyst
Surface Water Management
Snohomish County Public Works
3000 Rockefeller Ave., MS 607
Everett, WA 98201
425-388-6459
kent.barbeau@co.snohomish.wa.us

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Original message

From: John Carpita [mailto:jcarpita@mrsc.org]
Sent: Tuesday, July 21, 2009 2:22 PM
Subject: Maintenance Inspection Forms for Retention/Detention Ponds

Need help with this research request:

Do you have any forms/checklists that are used for the maintenance inspection of SWM detention and water quality ponds and facilities? I need something for my field staff to document our inspections.

Please forward this request to anyone that may be able to help.

John W. Carpita, P.E.
Public Works Consultant
Municipal Research and Services Center
2601 Fourth Avenue, Suite 800
Seattle, WA 98121-1280
206-625-1300
Fax: 206-625-1220
jcarpita@mrsc.org
www.mrsc.org
Good Morning,

Please find attached to this e-mail our current inspection and work order forms for Regional/Commercial sites and a pdf of our old inspection form.

The "Regional" form has a different layout since we primarily submit GIS ID’s and just short notes to our own maintenance crew.

The "Commercial" form has a bigger free text field because it is not just a "work order" but also a good "public outreach" opportunity since we submit it to either individual parcel owners or property managers.

Hope it is helpful for you guys,

Gunnar Rybacki
Water Quality Inspector
Public Works Department
9654 NE 182nd St.
Bothell, WA 98011
425-486-2768 ext.4479
Gunnar.Rybacki@ci.bothell.wa.us

>>> John Carpita <jcarpita@mrsc.org> 7/21/2009 2:21 PM >>>

Need help with this research request:

Do you have any forms/checklists that are used for the maintenance inspection of SWM detention and water quality ponds and facilities? I need something for my field staff to document our inspections.

Please forward this request to anyone that may be able to help.

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206-625-1300
Fax: 206-625-1220
jcarpita@mrsc.org
www.mrsc.org<http://www.mrsc.org/>
Mr. Carpita:

Attached are 3 forms currently in use by Pierce County PW&U, Surface Water Management Division.

The "Infiltration Facilities BMP" and "Detention Pond BMP" are designed to assist private property owners inspect their own facilities to ensure proper operation. The "Public Pond Inspection" form is used by SWM staff when inspecting our own assets.
Need help with this research request:

Do you have any forms/checklists that are used for the maintenance inspection of SWM detention and water quality ponds and facilities? I need something for my field staff to document our inspections.

Please forward this request to anyone that may be able to help.

John W. Carpita, P.E.
Public Works Consultant
**Municipal Research and Services Center**
2601 Fourth Avenue, Suite 800
Seattle, WA 98121-1280
206-625-1300
Fax: 206-625-1220
[jcarpita@mrsc.org](mailto:jcarpita@mrsc.org)
[www.mrsc.org](http://www.mrsc.org)
John Carpita

From: Comstock, Joe [JComstock@ci.tacoma.wa.us]
Sent: Thursday, July 23, 2009 1:04 PM
To: John Carpita
Subject: Pond Maintenance Form Example
Attachments: Pond Evaluation Sheet 11-14-08.doc

Importance: High

John:

See attached City of Tacoma Retention and Detention Evaluation form per your request. We also inspect other stormwater devices, Contech Stormwater Filters for example, do you have personnel who look at these too?

Thanks,

Joe Comstock

Joe Comstock
Associate Engineer E.I.T.
City of Tacoma
Division of Science & Engineering
Phone - (253) 502-2102
Cell – (253) 377-3061
Fax – (253) 502-2295
jcomstock@cityoftacoma.org
Hi John. I am enclosing 3 forms for you to look at. Our Detention Pond Checklist, Jobsite Safety form, and our Checklist 4 form.

Hope they are useful

Don Hallsson

Maintenance and Operations Supervisor

City of Everett

425-257-8853
Hi John- hopefully this is not too late.

Thanks and have a good one,

Boyd Benson, PE, LEG
City Engineer
City of Duvall
425-788-3434
www.duvallwa.gov

John W. Carpita, P.E.
Public Works Consultant
Municipal Research and Services Center
2601 Fourth Avenue, Suite 800
Seattle, WA 98121-1280
206-625-1300
Fax: 206-625-1220
jcarpita@mrsc.org
www.mrsc.org
I have attached our checklist for drainage facility inspection. Much of the checklist is relevant to ponds. Let me know if it is not clear what portions these are. This checklist version does not split up well by type of facility.

Jesse Jarosz  
Engineering Technician IV  
SnoCo / Public Works / SWM  
425-388-3464 ext. 4509

Please send the portion of our inspection checklist related to ponds to the person at MRSC below (cc me on your e-mail). Thanks.

Gregg Farris  
Surface Water Management  
Snohomish County Public Works  
425-388-6454  
gfarris@co.snohomish.wa.us

This is from John Carpita at MRCS, who must have received it from some municipality. Can you help him?

Thanks

Bill

Need help with this research request:
Do you have any forms/checklists that are used for the maintenance inspection of SWM detention and water quality ponds and facilities? I need something for my field staff to document our inspections.

Please forward this request to anyone that may be able to help.

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Seattle, WA 98121-1280
206-625-1300
Fax: 206-625-1220
jcarpita@mrsc.org
www.mrsc.org
John,

Per your request, I’m sending you an inspection checklist we constructed for Anacortes (see the “Inspection Pond” tab). It’s fairly simple and was personalized with a photo so the staff could easily tell the area they were inspecting.

Stacey Clear, P.E.
Design Engineer
Gray & Osborne, Inc.
3710 168th St. NE, Suite B210
Arlington, WA 98223

Ph(360)454-5490
Fax (360) 454-5491

Electronic File Transfer-

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John Carpita

From: John Carpita
Sent: Wednesday, July 29, 2009 8:02 AM
To: John Carpita
Subject: Request for information

Mr. Carpita –
Please note that Stormwater Management Manual for Western Washington includes maintenance standards in Volume V, Section 4.6. While you may looking for something more tailored to field use, I wanted to make sure you were aware of the State standards.

In addition, the Ecology Municipal Stormwater Permit Team is trying to maintain and expand the resources and examples on our website focused on assisting local governments meet their Municipal Stormwater NPDES Permit requirements. The link to those resources is below. You may find them to be useful as well.

Thank you,
Rachel McCrea
Municipal Stormwater Specialist
Department of Ecology NWRO
425-649-7223

Check Ecology's webpages for regularly updated resources and frequently asked questions associated with the Municipal Stormwater Permits: http://www.ecy.wa.gov/programs/wq/stormwater/municipal/resources_training_guidance.html
COMMERCIAL FACILITY INSPECTION & WORK ORDER
City of Bothell

Facility #: _____  Date: _____  Work Order #: _____

Address: _____  Inspector: _____

CATCH BASIN / MANHOLES: > 1/3 Sediment / needs Vactor / vegetation control

CATCH BASIN / MANHOLES: Grout / grate broken / lid broken / lock-bolt broken / ladder

CONTROL STRUCTURE: needs Vactor / Grout / Gate / lock-bolt broken / ladder/vegetation control

PIPES: needs jetted/vegetation control

POND / DITCH / BIOSWALE: accumulated Sediment / trash / debris / vegetation control / erosion

VAULTS / TANKS / DETENTION PIPES: needs Vactor / needs jetted / Repairs needed / Air vents

meet Standards: YES _____ NO _____

INSPECTION COMMENTS: _____

For additional information please contact either the inspector or Andy Loch at 425-486-2768

ADDITIONAL WORK PERFORMED / COMMENTS: (to be completed by contractor/maint. staff)
____________________________________________________________
____________________________________________________________

DATE work completed on: ___________  SIGNATURE: ____________________

- IDENTIFIES STRUCTURES (ON MAP) TO BE SERVICED!
Regional Facility Inspection & Work Order  
City of Bothell

<table>
<thead>
<tr>
<th>Facility #:</th>
<th>Date:</th>
<th>Work Order #:</th>
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<th>Address:</th>
<th>Inspector:</th>
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### CATCHBASIN / MANHOLE / PIPE

<table>
<thead>
<tr>
<th>Vactor</th>
<th>Jet Clean</th>
<th>Grout</th>
<th>Lid/Grate damaged</th>
<th>Vegetation Ctrl.</th>
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Notes: ____________

### CONTROL STRUCTURE

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<th>Orifice plate</th>
<th>Grout</th>
<th>Cleanout Gate</th>
<th>Vegetation Ctrl.</th>
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Notes: ____________

### VAULT / TANK / DETENTION PIPE

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<thead>
<tr>
<th>Vactor</th>
<th>Jet Clean</th>
<th>Air vents</th>
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</table>

Notes: ____________

### POND / DITCH / BIOSWALE / TRENCH / ACCESS ROAD

<table>
<thead>
<tr>
<th>Sediment</th>
<th>Erosion</th>
<th>Trash/Debris, etc.</th>
<th>Rock lining</th>
<th>Invasive Plant Ctrl.</th>
<th>Vegetation Ctrl.</th>
</tr>
</thead>
<tbody>
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</tbody>
</table>

Notes: ____________

meets Standards: YES ____________ NO ____________

Inspection Comments: ____________

Additional work performed / Comments: (to be completed by Street/Storm staff)
__________________________________________________________________________
__________________________________________________________________________
__________________________________________________________________________
__________________________________________________________________________

Date work completed: ____________ Signature: ____________

_________: indicates structures (on map) to be serviced
# CITY OF BOTHELL

<table>
<thead>
<tr>
<th>ITEMS INSPECTED</th>
<th>MAINTENANCE</th>
<th>OBSERVATIONS &amp; REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Not Req'd</td>
</tr>
<tr>
<td><strong>I. PONDS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. Trash &amp; debris</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B. Poisonous/invasive</td>
<td></td>
<td></td>
</tr>
<tr>
<td>vegetation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C. Visible pollution</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D. Grass/ground cover</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E. Rodent holes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F. Insects</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G. Tree growth</td>
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<td>H. Surface erosion</td>
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<tr>
<td>I. Sediment</td>
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<td></td>
</tr>
<tr>
<td>J. Emergency Spillway</td>
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</tr>
<tr>
<td>K. Fencing</td>
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<tr>
<td>L. Gates</td>
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</tr>
<tr>
<td>M. Access road</td>
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</tr>
<tr>
<td>N. Rock filters</td>
<td></td>
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</tr>
<tr>
<td>O. Other</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>II. CLOSED DETENTION SYSTEMS (PIPES/TANKS/VAULTS)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. Air vents - clear</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B. Pipe sections/tank</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Sediment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Cracks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Bent</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C. Other</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>III. CONTROL STRUCTURE / RESTRICTOR TEE</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. Sediment &lt; 1.25'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B. Structural integrity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C. Cleanout gate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Operational</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Chained</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D. Orifice plate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. In place</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Obstruction free</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>IV. CATCH BASINS / MANHOLES</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. Grate clear</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B. Sump &lt; 1/3 full</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C. Structural integrity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D. Vegetation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E. Visible pollution</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F. Cover</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G. Ladder</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ITEMS INSPECTED</td>
<td>MAINTENANCE</td>
<td>OBSERVATIONS &amp; REMARKS</td>
</tr>
<tr>
<td>----------------</td>
<td>-------------</td>
<td>------------------------</td>
</tr>
<tr>
<td></td>
<td>Req'd</td>
<td>Not Req'd</td>
</tr>
<tr>
<td>H. Other</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

V. DEBRIS BARRIER
A. Clear of trash
B. Bars
C. Other

VI. ENERGY DISSIPATORS
A. Rock pad
B. Dispersion trench
   1. Accumulated sediment
   2. Concentrated discharge
   3. Pipe
   C. Other

VII. CONVEYANCE SYSTEM
A. Pipes
   1. Accumulated sediment
   2. Vegetation
   3. Dented pipe
B. Open Ditches
   1. Accumulated sediment
   2. Trash/debris
   3. Vegetation
   4. Rock lining

SUMMARY
1. Permission for entry granted by
2. Inspector's Comments

Meets Standards
Does not meet standards
Date: __________ Inspected by: __________________________

Pond #: __________ Pond Name: __________________________

**Fence/Gate/Lock**
Fence/Gate/Lock in good condition? (YES/NO/N.A.)
Is there any fence damage? (YES/NO)

_________________ LF of damaged fence ___________________ # of field posts damaged

_________________ # of corner/pull posts damaged ___________________

What type of fence was damaged? (4' chainlink, 6' Chainlink, 4' strand barb wire, 4' field fence)
Vinyl Coated? (YES/NO) Color ____________________________
Top Rail? (YES/NO)

**Signs**
Pierce County signage in place, as listed below? (YES/NO)
Blue & white Pond ID# sign? (YES/NO)
Pierce County standard no trespassing sign? (YES/NO)
Any other special signage needed? (YES/NO)

**Trash/Debris**
Excessive trash/debris in pond? (YES/NO)

**Pond Sediment**
Sediment in bottom of the detention/retention pond is above invert pipe elevation? (YES/NO/N.A.)
Water is ponding in the infiltration pond (YES/NO/N.A.)

**Erosion**
Is there any noticeable erosion along the pond berm or at the inlet/outlet/dispersal trench/ emergency overflow? (YES/NO)

**Tree Growth/Dangerous Trees**
Are there any noticeable dangerous trees within the fenced pond perimeter? (YES/NO)
Are there any noticeable dangerous trees outside of the pond fence, but still within P.C. property limits? (YES/NO)
Are there any trees that are growing in a location or manner that may adversely impact the facility? (YES/NO)

**Catch Basins/Control Structures**
Is the clean-out/shear gate chain/control rod functioning in the control structure? (YES/NO/N.A.)

Is the clean-out/shear gate functioning? (YES/NO/N.A.)
Is there any evidence of pollutants such as oil / gasoline / or other pollutants within the catch basin/control structure? (YES/NO/N.A.)
Is the control device securely fastened to the structure? (YES/NO/N.A.)
Is the orifice(s) in the control structure clear of debris? (YES/NO/N.A.)

Is the ladder in the catch basin/control structure securely attached? (YES/NO/N.A.)
Is locking lid(s) fastened down with the appropriate number of tamper proof bolts? (YES/NO/N.A.)
Is the catch basin lid(s) located below grade? (YES/NO/N.A.)
Is the structure(s) damaged in any way? (YES/NO/N.A.)
Was excessive material found in the structure? (YES/NO/N.A.)

Do plans show all drainage structures or is additional GIS information collection needed? (YES/NO)

**Pond Liner**
Are there any noticeable puncture holes in the plastic liner or areas of concern? (YES/NO/N.A.)

Questions?
Contact Mark Schumacher
office: 253-798-3697
mobile: 253-798-6379
Pipe
Does the inlet/outlet have debris barrier(s)? (YES/NO/N.A.)
   Pipes greater than 15" diameter should have some type of debris barrier.

Does the inlet/outlet have adequate quarry spalls to prevent erosion? (YES/NO)

Does the pipe require jet rodding or root sawing? (YES/NO)

Access Road
Does the access road need repair or gravel? (YES/NO)

Bio-Swale
Is there sediment accumulation in the swale? (YES/NO/N.A.)

Is flow spreader level across width of swale? (YES/NO/N.A.)

Is greater than 10% of the swale bare dirt with no vegetation? (YES/NO/N.A.)

Wet Pond
Is there any evidence of pollutants such as oil, gasoline, or other pollutants within the wetpond? (YES/NO/N.A.)

Is the berm between cells level? (YES/NO/N.A.)

Is sediment within the pond greater than 6 inches deep? (YES/NO/N.A.)

Pond Berm
Is there evidence that the pond berm might be sloughing or settling greater than 4 inches? (YES/NO/N.A.)

Vegetation
Is grass re-seeding needed? (YES/NO/N.A.)

Soil amendment needed? (YES/NO/N.A.)

Invasive weeds, noxious weeds, or other vegetation abatement needed? (YES/NO/N.A.)

Irrigation needed? (YES/NO/N.A.)

DEFICIENCY SUMMARY!

please provide a detailed list of deficiencies in the space below

Questions?
Contact Mark Schumacher
Office: 253-798-3097
Mobile: 253-798-6379
This spreadsheet is set up to support the storage of drainage facility inspection data in the CSDC Systems property, people and inspection (folder) records. Each of these three types of records are separate. People inspection folders. Amanda has limited customization abilities. Default fields are used where confusion with normal methods used within the Amanda interface for other permit types. All components and drop-downs deemed necessary for near term use by Snohomish County.

Facility location information will be stored in the property record. Some additional static facility-wide info Amanda will be used to represent a collection of actions for a facility during an inspection cycle. Once an inspection folder status will be closed. A child of the first inspection record will be created for the next scheduled inspection.

### Contents

**Explanation**
Overall explanation of document purpose and Amanda setup.

**Folder Status**
Valid folder status pick list. This is the overall status of the Valid folder sub type pick list. This is the major category for Valid folder work type pick list. This is the reason for the info.

**Folder Sub Type**
Entry data for custom property information. These are the

**Folder Work Type**
Property record. Includes both the info entry line and valid

**Amanda Property Info**
Valid Info tab entries. Flow components are stored on the

**Amanda Valid Info**
Valid facility components for Snohomish County. This page

**Amanda Valid Info Pick List**
Amanda Valid Info is on right.

**Amanda Process Lines**
Valid process lines. This contains the valid Amanda process

**Process Status**
Amanda Valid Info lines to allow the process lines to be accepted

**Process Attempt Results**
Valid values for the inspection and communication process

**Amanda Valid Process Info**
Process line info items. Component specific items required

**Amanda Valid Process Checklist**
List of all the unique checklist items for drainage facilities

**Checklist**
Visual arrangement of valid process checklist items for each

**Valid Process Group**
Amanda entry are on right.

Group headings for process lines.
Amanda permitting database. For drainage facilities, Amanda has or property records are generally associated with multiple ll not be created. Data flow for drainage facilities conforms to the n menu choices (pick lists) contain the minimum information

rmation will be stored in the property record also. Each folder in nspection and all follow up actions are concluded on a facility the pection to create a linked inspection history for each facility.

: tup
  : inspection folder.
  he inspection belongs to.
  nspection.
  e custom fields added that are not part of the default Amanda d pick list values.
  : info tab by flow path. This is the full list of info tab lines that can :e contains the component pick lists for the info tab lines contained

ss line names. These have a one to one correspondence with the dded programmatically based on the valid info lines.
ck list for the process status for the valid process lines.
ss attempts. Pick list values for attempts (actions taken) for each

ng more than yes/no data capture on each inspection.
.
ch component. Checklist defaults for each component used in
# City of Tacoma Pond & Bioswale Evaluation Form

<table>
<thead>
<tr>
<th>Plat Name:</th>
<th>☒ City  □ Private  □ Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pond or Bioswale Map #:</td>
<td>SAP #:</td>
</tr>
<tr>
<td>Property Address:</td>
<td>Drainage Basin:</td>
</tr>
<tr>
<td>Inspected by:</td>
<td>Inspection Date:</td>
</tr>
<tr>
<td>Parcel #:</td>
<td>Inspection ID #:</td>
</tr>
<tr>
<td>□ Annual □ 10-year storm □ Other</td>
<td>Lined? □ Yes □ No</td>
</tr>
</tbody>
</table>

## Safety and Cleanliness:

<table>
<thead>
<tr>
<th>Question</th>
<th>☒ Yes  □ No</th>
<th>Comments:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is the site gate properly secured?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Is trash present?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Is the fence in good condition?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Is the proper signage present?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are there signs of vandalism?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Is moving and/or cattail removal needed?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are noxious weeds present?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Is tree removal needed?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Is insect control needed?</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Capacity and Flow:

<table>
<thead>
<tr>
<th>Question</th>
<th>☒ Yes  □ No</th>
<th>Comments:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is standing water present?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Does the water show signs of contaminants?</td>
<td></td>
<td>Notification Source Control:</td>
</tr>
<tr>
<td>Is there an odor present?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Is sediment or vegetation removal needed?</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Structural Integrity:

<table>
<thead>
<tr>
<th>Question</th>
<th>☒ Yes  □ No</th>
<th>Comments:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Are there signs of erosion?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are animal holes/burrows present?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are control structures in good working order?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Is the bypass control functional and in the closed position?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are inlet and outlet pipes free of debris?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are riprap and/or quarry spalls needed?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are the overflow grate/spillway and spillway outfall in good working order?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are upstream manholes, catch basins, and transmissions lines in good working order?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are all confined spaces properly marked?</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Use reverse side for additional comments*

City of Tacoma  
Public Works/Environmental Services
July 29, 2009

Re: Stormwater Maintenance Re-Inspection Results

I have re-inspected the stormwater pond(s) at ________ and you have corrected all the required maintenance items for this inspection period. Please keep accurate records of the inspection results and work performed to maintain your facilities.

<table>
<thead>
<tr>
<th>Items Re-Inspected:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catch Basin</td>
</tr>
<tr>
<td>Pond</td>
</tr>
<tr>
<td>Inlet Pipe</td>
</tr>
<tr>
<td>Inlet (Swale)</td>
</tr>
<tr>
<td>Inlet (Rock lined ditch)</td>
</tr>
<tr>
<td>Rock Baffle</td>
</tr>
<tr>
<td>Berm</td>
</tr>
<tr>
<td>Energy Dissipator / Splash Pad</td>
</tr>
<tr>
<td>Metering Device / Outlet</td>
</tr>
<tr>
<td>Outfall</td>
</tr>
<tr>
<td>Emergency Spillway</td>
</tr>
<tr>
<td>Level Spreader</td>
</tr>
<tr>
<td>Infiltration Trench</td>
</tr>
<tr>
<td>Swale</td>
</tr>
<tr>
<td>Fence</td>
</tr>
<tr>
<td>Access Road</td>
</tr>
<tr>
<td>Trash</td>
</tr>
<tr>
<td>Yard Debris</td>
</tr>
<tr>
<td>Mow Foliage</td>
</tr>
</tbody>
</table>

I have enclosed picture(s) after the maintenance has been completed.

John Edwards
Stormwater Maintenance Technician
July 29, 2009

Re: Stormwater Maintenance

Thank you for your cooperation in the inspection of the Stormwater system located in the City of Yelm at on . The results of that inspection are in the enclosed inspection report packet. In this packet, you will find picture(s) of the Stormwater system at your location and an inspection report. The report outlines our findings and requirements to meet Maintenance Standards. There also may be recommendations intended to improve the operation of your storm water program.

City of Yelm staff will need to re-inspect on . Please clean and/or make any repairs needed prior to this date. Keep accurate records of activity (i.e. cleaning, system changes or chemical spills). Please feel free to call me, if you have any questions or need further assistance at (360) 458-8406, 8 to 5, M-F.

Sincerely,

City of Yelm

John Edwards
Street Department
Stormwater Maintenance Technician
Inspection Results

Description / Access
Stormwater Infiltration Pond 1 at 1110 Algiers Dr NE
Stormwater Infiltration Pond 2 at

Items Inspected:
- Catch Basin
- Pond
- Inlet Pipe
- Inlet (Swale)
- Inlet (Rock lined ditch)
- Rock Baffle
- Berm
- Energy Dissipator / Splash Pad
- Metering Device / Outlet
- Outfall
- Emergency Spillway
- Level Spreader
- Infiltration Trench
- Swale
- Fence
- Access Road
- Trash
- Yard Debris
- Mow Foliage

Other Comments:
July 29, 2009
Page Three

Please respond within 30 days of this letter indicating that you have or intend to correct the deficiencies noted in the Inspection Report.

Please keep in mind that in doing so, you are protecting your community’s valuable infrastructure while also helping to protect local streets, rivers, and the Puget Sound.

If you have any questions about this process, please call me at (360) 458-8406.

Sincerely, John Edwards
105 Yelm Avenue West
Yelm, WA 98597
Maintenance Required

- **Catch Basin**: Clean litter, leaves, and dirt from grate. Remove sediment build up from sump.
- **Pond Sides and Bottom**: Remove non native invasive species (scotch Broom, Himalayan Blackberry, and Reed Canary Grass.) Remove trash and yard waste. Remove any noxious vegetation (Tansy, etc.) from area. Remove trees, yard waste, and other woody “debris” from sides and bottom.
- **Inlet**: Remove excessive vegetation. Remove sediment from pipe.
- **Inlet (Swale)**: Clear vegetation from swale inlet.
- **Inlet (Rock lined ditch)**: Clear vegetation from rock lined swale.
- **Rock Baffle**: Clear vegetation and debris from baffle area.
- **Berm**: Remove excessive vegetation. Fill in eroded areas with soil, compact, and reseed.
- **Energy Dissipator / Splash Pad**: Remove excessive vegetation. Replace rock splash pad, if missing or damaged.
- **Metering Device / Outlet**: Metering device and outlet should be clear of vegetation and debris.
- **Outfall**: Remove excessive vegetation and debris.
- **Emergency Spillway**: Remove excessive vegetation and debris. Replace rock if missing.
- **Level Spreader**: Remove excessive vegetation.
- **Infiltration Trench**: Remove excessive vegetation.
- **Swale**: Remove trees and excessive vegetation from sides and bottom. Remove trash, grass clippings, and yard waste.
- **Fence**: Repair and access to key or combination to locks.
- **Access Road**: Remove excessive vegetation.
# City of Yelm Storm Water Maintenance Checklist
(for most components that are part of our drainage system)

<table>
<thead>
<tr>
<th>Months</th>
<th>Pipes, ditches and swales</th>
<th>Open ditches/ Swales</th>
<th>Catch Basins and Inlets</th>
<th>Storm Ponds</th>
</tr>
</thead>
<tbody>
<tr>
<td>November - April</td>
<td>Check for sediments and debris in culverts that would restrict the flow of storm water.</td>
<td>Check for trash and debris (dumping of yard waste, woody vegetation and non-degradable materials such as glass, plastic metal or coated paper.)</td>
<td>Check for trash and debris in front of catch basin that would reduce the flow of surface water.</td>
<td>Check storm ponds for vegetation at or around the ponds inlet pipe.</td>
</tr>
<tr>
<td></td>
<td>Check for vegetation that would reduce free movement of water through culverts.</td>
<td>Check for build up of sediments and vegetation growth inlets scuppers to swales.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Months</th>
<th>Storm Ponds</th>
<th>Catch Basins</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>May - October</td>
<td>Mow – remove any poisonous vegetation Example: tansy ragwort, poison oak, stinging nettles and devils club.</td>
<td>Check for trash or debris in front of the catch basin that would restrict or reduce the flow of surface water.</td>
<td>Check for build up of sediments and vegetation growth inlets scuppers to swales.</td>
</tr>
<tr>
<td></td>
<td>Remove all trash, check inlets for blockage.</td>
<td>Check sediment levels, not to exceed 60% of the capacity of the catch basin.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Swales, mow, clean and check all scuppers.</td>
<td>Contact to have catch basin cleaned by vactor truck.</td>
<td></td>
</tr>
</tbody>
</table>

G:\InfoNow Research\Stormwater Detention Inspection Forms\Yelm Storm Water Maintenance Checklist.doc
July 29, 2009

Location: Yelm

Re: Stormwater Maintenance – SECOND NOTICE

On ____________, the City of Yelm performed an inspection of your system at. A report was sent to you stating that repairs and/or cleaning were required. A re-inspection date was set allowing thirty days to make corrections. On ____________, a re-inspection was performed and the required corrections had not been made. These are requirements outlines in the City of Yelm’s Ordinance No. ______. We will set a re-inspection for ____________ allowing an additional 30 days to make the required corrections. Please have all cleaning and/or repairs completed within this time to prevent further actions.

Sincerely,

City of Yelm

John Edwards
Street Department
Stormwater Maintenance Technician
## Clark County Stormwater Facility Inspection

**Date:** 20OCT2007

**Inspection Type:** Routine Maintenance

**Inspector(s):** Chad Hoxeng

**Facility Name:** Grey Hawk Ridge II

**Address:** 12056 NW 15th

**Unique ID:** 1256

**DIN Number:** n/a

### Last Rainfall:
- □ < 24 hours
- □ 1-3 days
- □ > 1 week

### Facility Object Compliant Defect

<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Compliant</th>
<th>Yes</th>
<th>No</th>
<th>#</th>
<th>Description</th>
<th>Photo #s</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Access Easement</td>
<td>☑</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Fence Gate</td>
<td></td>
<td>☑</td>
<td></td>
<td>1</td>
<td>Water quality sign missing</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Fence Gate</td>
<td></td>
<td></td>
<td>☑</td>
<td>2</td>
<td>Lock missing</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Bioswale</td>
<td>☑</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Detention Pond</td>
<td></td>
<td>☑</td>
<td></td>
<td>1</td>
<td>Erosion observed on a compacted berm embankment.</td>
<td>11-001</td>
</tr>
<tr>
<td>5</td>
<td>Flow Control</td>
<td>☑</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Additional Notes:

Refer To:
- Maintenance and Operations
- Code Enforcement
- Development Engineering
- Capital Improvement Program
- Engineer Review

**Reporting Information:**
- Referral Contact: Joe Smith
- Follow-up Report Received:
<table>
<thead>
<tr>
<th>Facility Object</th>
<th>Compliant</th>
<th>Last Rainfall:</th>
<th>Defect</th>
<th>Photo #s</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Yes</td>
<td>No</td>
<td>Description</td>
<td></td>
</tr>
</tbody>
</table>

### Additional Notes:

### Refer To:
- Maintenance and Operations
- Code Enforcement
- Development Engineering
- Capital Improvement Program
- Engineer Review

### Reporting Information:
- Report Generated:
- Referral Contact:
- Follow-up Report Received:
Pond Inspection Checklist

Date:__________ Time:______ Weather: ________________________________

Pond Address:_________________ Photo numbers: _______ As-builts (Y/N):____
Inspected By:_________________ Ownership:_________________________
Sediment:________________________
Vegetation:________________________
Max WS: Length:_________ Width:_____________ Depth:________
Design Volume (Max WS):_________Existing Volume:______________
Water Quality (Y/N):_________ Outflow Pipe Size:______________
Trash Rack (Y/N):_________ Is it clear? (Y/N):______________
Access:________________________
Shear Gate (Y/N):_________ Riprap Pad:____________________
Fence:_________________ Gate (locked, Y/N):______________
Emergency Overflow Spillway:____________________________________
Deviations from Design:_____________________________________

Condition of Facility (attach photo sheets and plans/notes)

Recommendations:

Date:__________
Job Number ____________
City of ____________
Vault Inspection Checklist

Date: __________ Time: __________ Weather: ________________________________

Vault Address: __________________________________________________________

General Location at Address: _____________________________________________

Facility Number: ___________ Photo numbers: _______ As-buils (Y/N): _____

Inspected By: ___________ Ownership: ________________________________

Number of Cells : _______ Cell Length: _______ Width: ___________________

Total Height: _______ Dead Storage Depth: _______ Overflow Depth: _________

Water Depth _______ Turbidity: _______ Sediment Thickness: _________

Inlet Size/type ______________ Outflow Size/type _________________________

Interior Finish/Grouting at Pipes: ________________________________________

Secondary Treatment: ___________________________________________________

Outfall Location: ___________ Is it clear? (Y/N): _________________________

Control Structure Clear (Y/N): __________________ Shear Gate (Y/N) ________

Hatch No./Type: __________________ Hatches secured (Y/N): _______________

Deviations from Design: ________________________________________________

Condition of Facility (attach photo sheets and plans/notes)

Recommendations:

Date: ________________ City of ____________
Job Number _____________ Vault Inspection Checklist
Sewer/Drainage Checklist #4

A.

<table>
<thead>
<tr>
<th>Date</th>
<th>Location</th>
<th>Crew Lead</th>
</tr>
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</table>

B.

<table>
<thead>
<tr>
<th>Flaggers Names</th>
<th>Briefed? (YES or NO)</th>
<th>Briefed by</th>
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Flagger Briefing:

C. Vehicle Inspection Checklist:

<table>
<thead>
<tr>
<th>Driver’s Name</th>
<th>Equipment #</th>
<th>Location</th>
<th>Inspection Completed?</th>
<th>Comments</th>
</tr>
</thead>
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D. Checklist #4 - Routine Part 1

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
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</thead>
<tbody>
<tr>
<td>1. Make site visit before starting work</td>
<td></td>
</tr>
<tr>
<td>2. Define activity, scope, and limits</td>
<td></td>
</tr>
<tr>
<td>3. Review Part 1 BMPs</td>
<td>YES  NO</td>
</tr>
<tr>
<td>• Permit needed</td>
<td></td>
</tr>
<tr>
<td>• Equipment maintenance</td>
<td></td>
</tr>
<tr>
<td>• Disturbed soil</td>
<td></td>
</tr>
<tr>
<td>• Waste material removed</td>
<td></td>
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<tr>
<td>• Spill kit</td>
<td></td>
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<tr>
<td>• Part 2 BMPs needed</td>
<td></td>
</tr>
<tr>
<td>• Use checklist #3 and routine checklist</td>
<td></td>
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<tr>
<td>4. Is environmental staff required?</td>
<td>YES  NO</td>
</tr>
<tr>
<td>NO - continue maintenance</td>
<td></td>
</tr>
<tr>
<td>YES - contact environmental staff for review</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
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<tbody>
<tr>
<td>5. In water work</td>
<td></td>
</tr>
<tr>
<td>• Stop work</td>
<td></td>
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<tr>
<td>• Contact environmental staff for review</td>
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<tr>
<td>• Evaluate using detailed checklist 1, 2, and/or 3 and routine checklist</td>
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<th>6. Location</th>
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<td>2</td>
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<td>3</td>
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<td>4</td>
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<tr>
<td>5</td>
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</tbody>
</table>
Vehicle Inspection List

1. Check engine compartment
2. General
   a. Walk around
   b. Lights
   c. Clean lights, reflectors, glass, mirrors
3. Wheel assembly
   a. Wheel, rim
   b. Tires
   c. Lug nuts, bearing/seals
4. Suspension
   a. Springs/hangers
   b. Shackles/U-bolts
   c. Shocks/air bags
5. Brakes
   a. Drum
   b. Hoses
   c. Slack adjuster
6. Front
   a. Axle
   b. Steering system
7. Fuel tank/battery
8. Undercarriage
9. Test parking brake
10. Test service brake
11. Check all gauges
12. Cargo securement
13. Trailer
14. Vehicle Operation
15. Spill kit
Stormwater Drainage Checklist for Detention Ponds, Trashracks and other Facilities

(revised July 24th, 2009)

NAME Don Hallsson

DATE 7-13 - 09

Facility Name MCGILL AVE

Facility Type DETENTION POND

Surface Detention Pond? YES

Trashracks/Grates? YES

Underground Detention Pond [Vault] N/A

Bioswale? YES

Underground Detention Pipe? NO

Surface Detention Pond?________

Infiltration Trench? NO

Oil/Water Separator? NO

Dispersion Trench? NO

Regional Detention Pond? NO

Underground Regional Detention Pond [Vault?] _____

Ditch? _____

Catch Basins? _____

Manholes? YES

Other?_________________________

Address 144 E. MCGILL AVE

City EVERETT

Zip Code 98208

Inventory Date 7-11-2009

Drainage Basin PINE CREEK

Thomas Page Number 47

Thomas Letter A

Thomas Number 23

Cross Street # 1 MCGILL AVE

Cross Street # 2 1ST DR. SE

Date Recorded 7-19-1998

Plat Date 7-19-1998

Section 31

Township 19

Range 5

GPS Located? YES

Drainage Plans on File? YES
Maintenance Items: pipe sizes for incoming and outgoing pipes I. 12"  O. 16"

Trashracks? 1  Emergency Spillways? 1

Manholes? 3  Valves? NONE

Check the Dam? YES  Cut the Grass? YES

Dredge Pond? NO

Clean Drains and or Drain Lines? CLEANED 4 DRAINS

Cut Trees? YES  Fence Repairs? NO

TV Lines or Manholes etc? NO

Estimated hours spent at facility today 4 HOURS

Comments/Observations?

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# JOBSITE SAFETY WORKSHEET

<table>
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<tr>
<th>Date</th>
<th>Location</th>
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<tr>
<th>Description of Work/Safety Comments</th>
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If all above bold line is N/A, you do not need to complete this form

<table>
<thead>
<tr>
<th>YES</th>
<th>N/A</th>
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Traffic Control Required—Attach TCP if modified

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<th>Traffic Control Required</th>
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<td>Attach TCP if modified</td>
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Excavation Entry over 3 feet deep

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<tr>
<th>Final Depth</th>
<th>Width</th>
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- **Finn Form**
- **Sloping**
- **Trench Box**
- **Build-a-Box**

Confined Space Entry—Attach Confined Space Paperwork

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<tr>
<th>Confined Space Entry</th>
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<tr>
<td>Attach Confined Space Paperwork</td>
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Uncontrolled Energy—Attach Lockout

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<th>Uncontrolled Energy</th>
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<tr>
<td>Attach Lockout</td>
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Hot Work—Describe

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<th>Hot Work—Describe</th>
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<td>Describe</td>
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Overhead power—Minimum 10’ clearance

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<th>Overhead power</th>
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<td>Minimum 10’ clearance</td>
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Overhead lifting—Cranes & Rigging Inspected Before Use

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<th>Overhead lifting</th>
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<tr>
<td>Cranes &amp; Rigging Inspected Before Use</td>
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Falls over 4 feet—Controlled by:

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<th>Falls over 4 feet—Controlled by</th>
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**First Aid Equipment/Training/Fire Extinguisher Must be Current**

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<tr>
<th>First Aid Equipment/Training/Fire Extinguisher Must be Current</th>
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<tbody>
<tr>
<td>Attach</td>
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</table>

Utilities Located:

- [ ] Water (blue)
- [ ] Power (red)
- [ ] Gas (yellow)
- [ ] Communication (orange)
- [ ] other

Communication with emergency responders provided

- [ ] Radio Dispatch
- [ ] Phone 911
- [ ] City Phone 9-911

**Electrical Hazards & Controls (GFCI)**

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<th>Electrical Hazards &amp; Controls (GFCI)</th>
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**Hazardous Materials in Use**

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**Power Tools**

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**Heavy Equipment (vehicle number)**

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**Personal Protective Equipment**

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**Pre-Job Safety Meeting**

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<th>Name</th>
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Revised 3/31/09