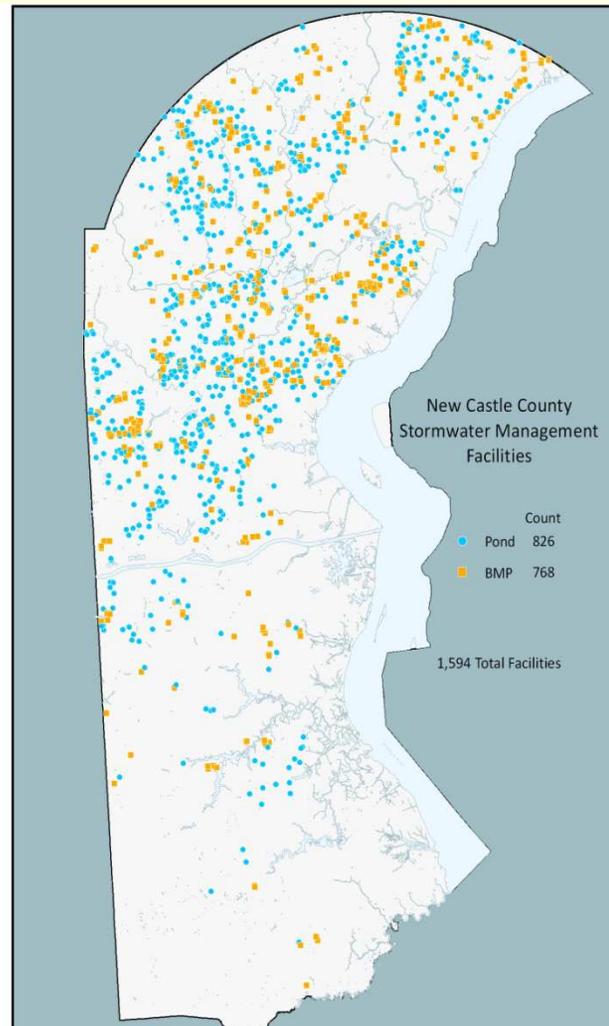

*New Castle County Stormwater
Management Facility
Maintenance and Inspection Program*

Department of Special Services

May 15, 2012

New Castle County Stormwater Management Facilities

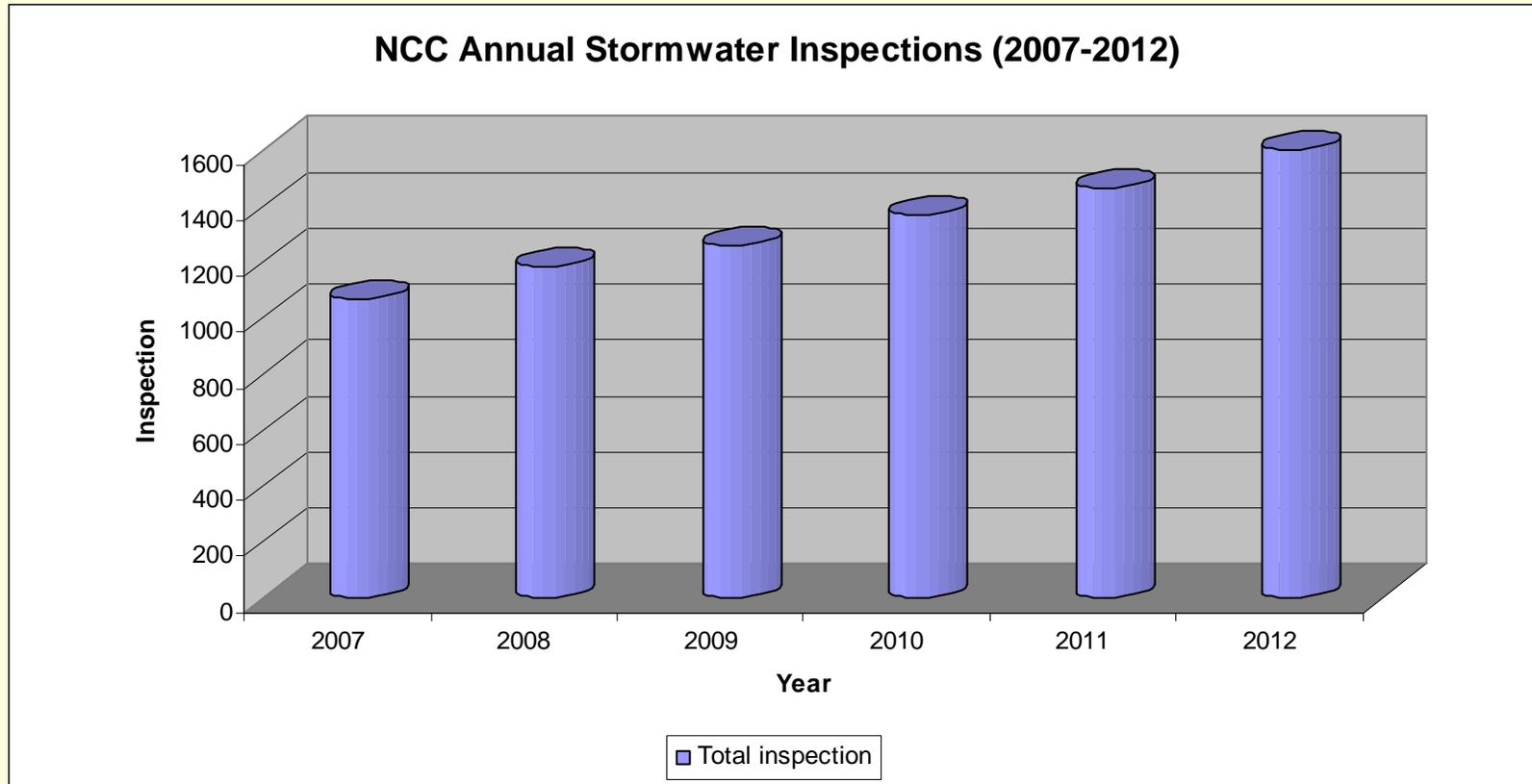


*New Castle County Stormwater Management
facilities inventory
(2007-2012)*

<i>Year</i>	<i>2007</i>	<i>2008</i>	<i>2009</i>	<i>2010</i>	<i>2011</i>	<i>2012</i>
Number of the facilities	1067	1181	1257	1359	1467	1600

- **There is an average 8% - 10% increase in the total number of facilities each year.**

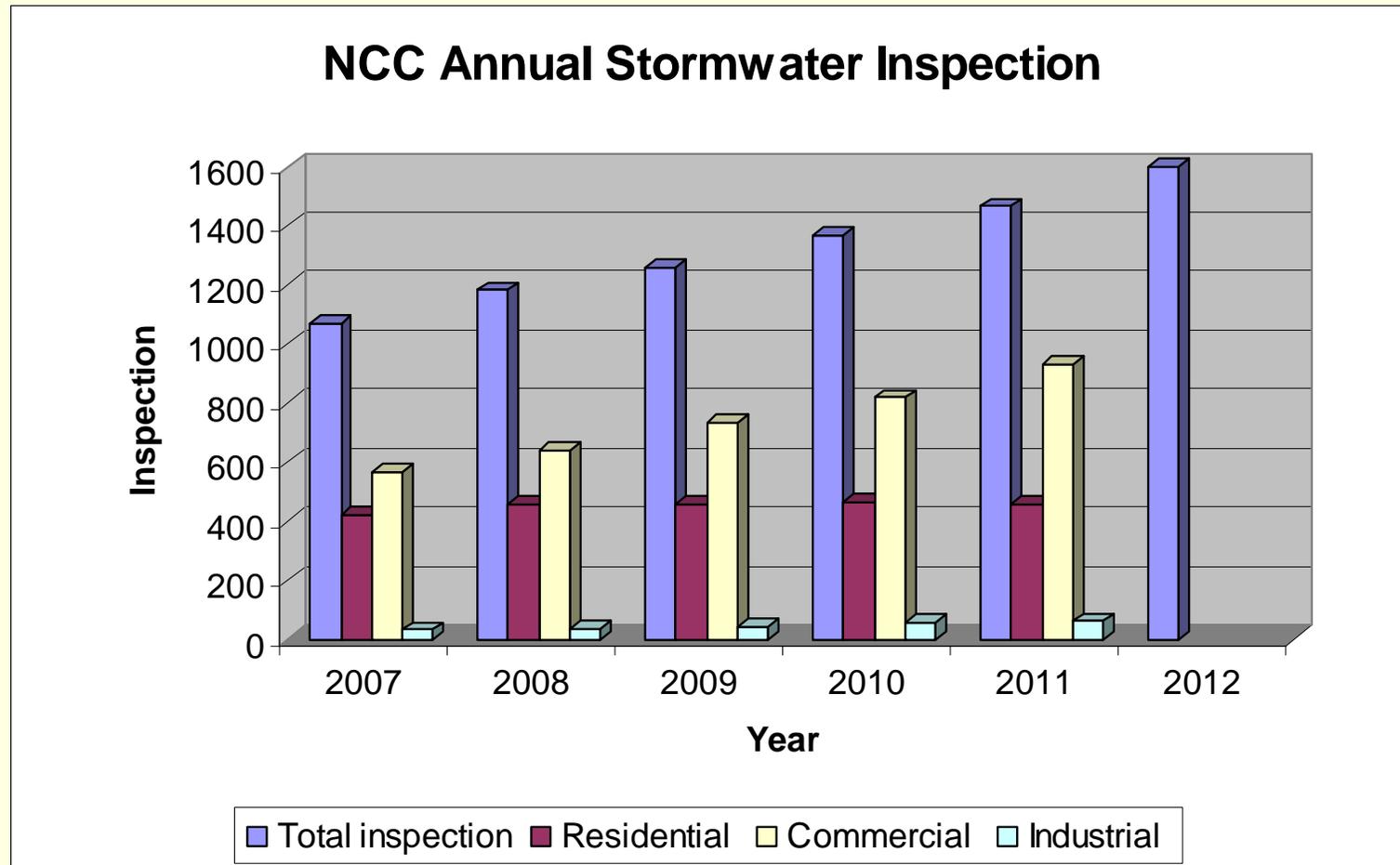
New Castle County Annual Stormwater Inspections (2007-2012)



How many different facilities do we inspect each year?

Year	Total number of inspection	Residential	Commercial	Industrial
2007	1067	423	568	31
2008	1181	460	640	36
2009	1257	457	733	42
2010	1369	464	819	59
2011	1467	459	932	62
2012	1600	?	?	?

How many residential, commercial & industrial facilities do we inspect?



What is our stormwater inspection process?

- Per our NPDES permit, all the stormwater management facilities in New Castle County should be inspected annually.
- New Castle County inspector inspects each facility and all its structural components at the time of inspection.
- Any trash and debris accumulation, overgrown vegetation or invasive vegetation, any sign of erosion, any structural failure or sediment accumulation in the facility or in/around the structures will be noted on the inspection reports.
- **If it has been determined by NCC that a residential facility is in need of major sediment removal or has a structural failure, then it will be added to the NCC Major List as part of the Stormwater Management (SWM) Maintenance Program (formerly the Amnesty Program).**



More about our inspection process

- Letters and inspection reports are mailed to the maintenance corporations with a timeline for performing all the necessary minor maintenance.
- All the other owners of commercial and industrial properties also will receive a copy of their inspection reports with a timeline for performing all the required maintenance.
- For the NCC owned/maintained facilities, all the inspection reports are sent to NCC/Construction Support group.
- Questions about inspection reports are directed to the NCC, Department of Special Services, Stormwater Management Group.

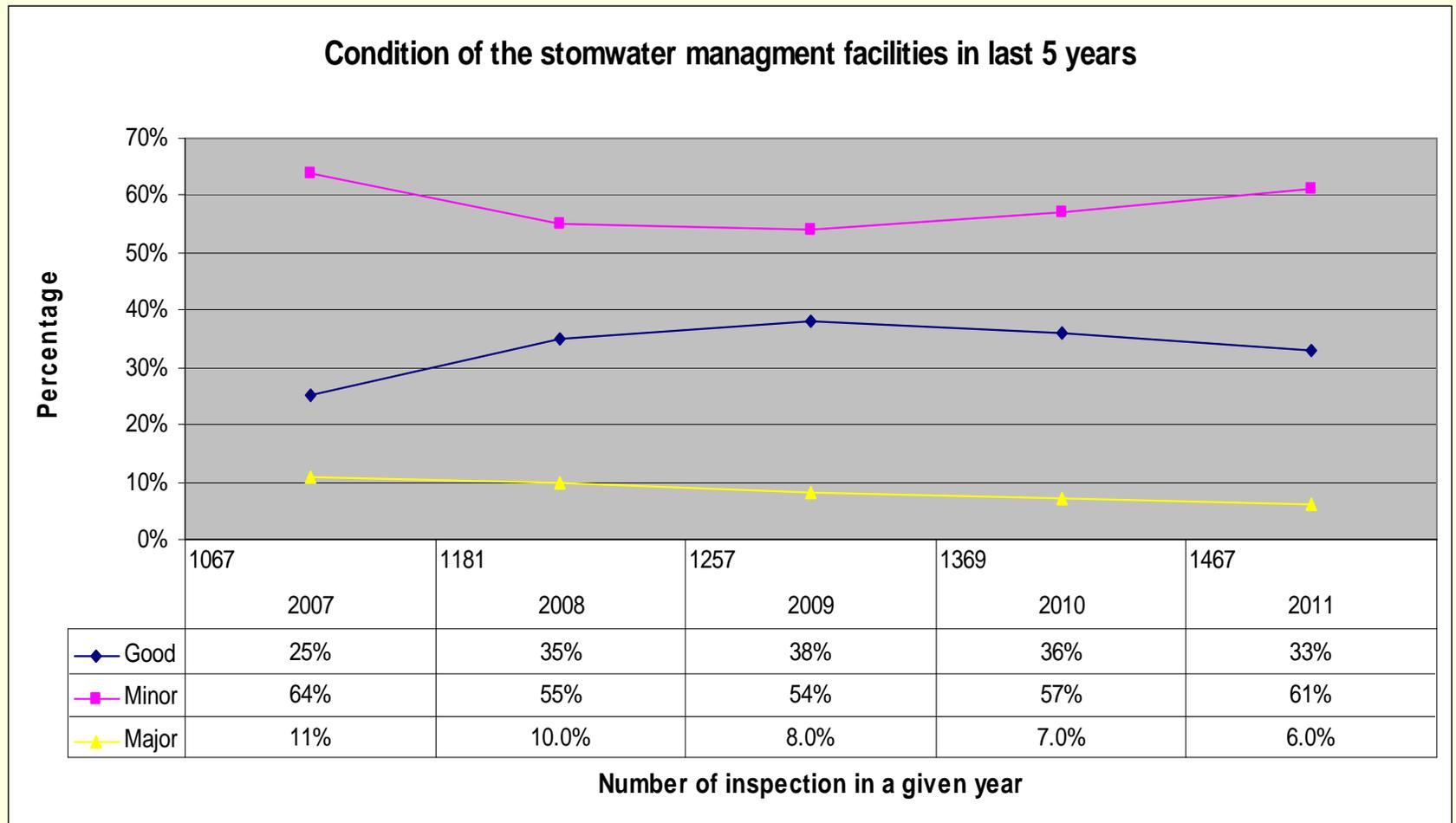
What do we look for during our inspections?



*Example of an inspection (before/after)
inlet, outlet, outfall structures, FES and forebay areas should
be cleared at all times*



Result; Good, Bad and Ugly....



*New Castle County Major List for residential
stormwater facilities under the
SWM Maintenance Program*

- Since 2005, New Castle County has added **199** Residential stormwater management facilities to the Major List under the SWM Maintenance Program.
- As of today, **148** of these facilities have been fixed either by re-engineering/construction, just re-construction or structural repair.
- New Castle County has spent the total amount of **\$9,542,500.00** for all those repairs so far.

New Castle County Major List

- Re-Engineering:

- Re-design by the in-house engineers
- Re-design by the engineering consulting firms

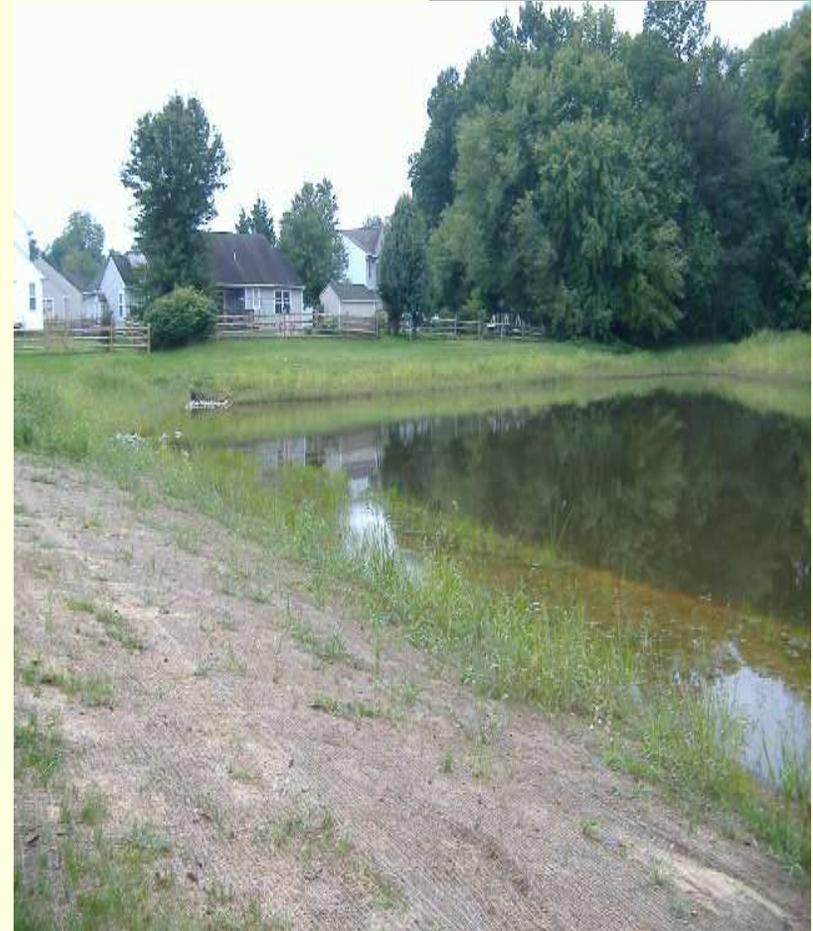
- Re-Construction/Structural Repair:

- Working directly with NCC, Construction Support group
- Perform by a construction company

Examples of NCC Major Pond Repairs Before & After



More Examples of Major Pond Repairs, Before & After



And more again.....



And finally



2012 Inspection and Maintenance Logs

2013 Registration Forms

- Maintenance organizations are responsible for inspecting the SWM facilities two (2) to three (3) times a year and completing the Inspection and Maintenance Log as minor maintenance is performed throughout the year.
- Additional inspections should also be done after each major rain event.
- Submit Logs and Annual Registration Forms by January 31, 2013 to stay in compliance with the SWM Maintenance Program. These forms are available on our SWM website at: www2.nccde.org/specialservices/stormwater



Registration Form



Department of Special Services
 2012 Stormwater Management Program Annual Registration Form
 Paul G. Clark, County Executive

A maintenance organization must register and file an annual stormwater management facility inspection and maintenance log with the Department of Special Services to qualify for financial assistance for major repairs, subject to the availability of funds, as set forth in Section 40.27.520 and Chapter 12, Article 6.

By signing below, I acknowledge that...All registered maintenance organizations created for the purpose of maintaining common facilities located in residential subdivisions are required to perform minor maintenance (*grass mowing and trimming; debris removal; minor sediment removal; fill all eroded areas and animal burrows; and removal of trees or shrubs on embankments*) and inspections on their stormwater management facilities as required by Chapter 12, Article 6 of the New Castle County Code in order to qualify for financial assistance from New Castle County for major maintenance and repairs of stormwater management facilities, subject to the availability of funds. I further acknowledge that failure to perform required maintenance could result in corrective action by the County and imposition of a lien as set forth in Section 40.27.530 or its predecessor or any recorded maintenance declaration and ineligibility for County financial assistance unless and until all required inspections and minor maintenance are up to date.

Board Member Signature: _____ Title: _____ Date: _____

So we may better assist you with community needs, please provide accurate and complete information. If any area is not applicable, please mark as such.

Development Name _____ Do you have a Property Mgmt. Co.?
 Name of Organization _____ Yes No If yes:
 Mailing Address _____ Name _____
 _____ Address _____

President _____ Phone _____
 Term Expiration Date _____ Fax _____
 Address _____
 Primary Phone _____ Secondary _____
 Email Address _____

Vice President _____
 Address _____
 Primary Phone _____ Secondary _____
 Email Address _____

Secretary _____
 Address _____
 Primary Phone _____ Secondary _____
 Email Address _____

Treasurer _____
 Address _____
 Primary Phone _____ Secondary _____
 Email Address _____

Return by January 31, 2012 to:
 New Castle County
 Department of Special Services
 ATTN: Janice Catherman
 Stormwater Management Section
 187A Old Churchmans Road
 New Castle, DE 19720
 (302) 395-5754
 FAX: (302) 395-5802

Enforcement

- If the required maintenance isn't completed within the NCC timeframe on the annual inspection report;
 - 1) A “Notice of Violation Warning” will be issued to complete all the maintenance.
 - 2) If work still is not completed, a “Notice of Violation” (NOV) and a Correction Order will be mailed to the owner or the responsible party.
 - 3) If still no work is completed by the NOV deadline, a “*Show Cause Hearing*” will be scheduled. Administrative fines may be imposed.
- ***For residential ponds, the community will be removed from the NCC SWM Maintenance Program.***

Future Permit Requirements

- Emphasis on Capital Projects to achieve 3% reduction in impervious cover
 - Special Services has expertise in managing these large products
 - Engineering Services
 - Contract Management
 - Construction Management
 - In-house construction crews



Future Permit Requirements

- Emphasis on Monitoring
 - Both Wet Weather and Dry Weather to determine program effectiveness.
 - Special Services Environmental Laboratory available to assist/oversee this effort.
 - Stormwater PCB Congener PMP will work in concert with the existing WW PCB PMP that Special Services is overseeing along with the City of Wilmington.



Questions?
