

Your Company Information/Logo
Construction Site Stormwater Management
Review Report

Date: 13 March 2013

Time Arrived: 9:45 am

Time Left: 11:10 am

Project / Site Name: Sweetbriar High School 2011-001

NOI # 6393 (<http://apps.dnrec.state.de.us/noi/>) Plan Expiration Date 1 / 4 / 2014

Owner/Developer: Developer Associates, LLC

New Owner? Yes No (if yes, contact approval agency)

Location: 1500 Sweetbriar Road, Middletown DE 19709

Weather Conditions: Sunny and Cold 35 F

Site Status (Active / Inactive / Completed): Active

Date of Last Site Review: 6 March 2013

Site Compliance: Compliance **Non-Compliance**

[N/A] Not Applicable

[S] Satisfactory

[U] Unsatisfactory (include written comments)

- | | |
|---|--|
| 1. Stabilized Construction Entrance (SCE) | <u>U</u> |
| 2. Earth Berms/Dikes/Swales | <u>NA</u> |
| 3. Inlet Protection (IP) | <u>U</u> |
| 4. Vegetative Stabilization | <u>U</u> |
| 5. Stormwater Management Facilities | <u> </u> (Attach completed pond construction checklist) |
| 6. Silt Fence (SF) | <u>S</u> |
| 7. Sediment Traps/Basins | <u>U</u> |
| 8. Outlet Protection | <u>S</u> |
| 9. Stone Check Dams (SCD) | <u>NA</u> |
| 10. Pollution Prevention (P2) | <u>U</u> |

Written Comments:

1. Stabilized Construction Entrance:

a. The stabilized construction entrance is laden with sediment and there is tracking out onto the roadway. **[Corrective Action]** Rough the existing stone to loosen the sediment and refresh the entrance with more DE #3 stone. Sweep the sediment off the roadway and return the sediment to the site. Maintain the roadway with regular street sweeping.

2. Earth Berms/Dikes/Swales: No issues

3. Inlet Protection:

- a. The inlets are inundated with straw from the stabilizing efforts and are threatened with sediment. Inlet protection has been removed without approval from the delegated agency. **[Corrective Action]** Remove all straw and sediment from the inlet boxes. Install the silt bags in the inlets and continue to maintain the silt bags. Removal of the inlet protection is only permitted upon the approval of the delegated agency.

4. Vegetative Stabilization:

- a. The stabilization that was applied in the fall 2012 has taken well in some locations. There are some significant areas that will require additional stabilizing to achieve the 70% uniform cover. **[Corrective Action]** Loosen compacted areas of the soil and apply stabilization as per the vegetative specifications on the approved plan, page C-5.

5. Stormwater Management Facilities: no items

6. Silt Fence:

- a. The super silt fence along the east side of the site is properly installed and functioning well. The addition of the stone at the base of the fence has resolved the previous scour problem. **[No Action]**

7. Sediment Traps/Basins:

- a. **[Repeat Observation]** There is significant gullying near the basin headwall. The gullying has worsened since this observation was first reported. The initial stabilization applied to the basin banks has not become established. **[Corrective Action]** Repair the gullies by filling and compacting the base soils. Leave the top 6" of soil loose and well fertilized. Apply erosion blanket and seed to these critical areas to allow the grass to establish. Reduce the concentrated flow at the top of the basin bank by applying a straw wattle, turned upward toward the stormwater flow to avoid abrupt ends, until the soil is stabilized.

8. Outlet Protection:

- a. The outfall protection has been installed as per the approved plan and the 6" rip rap has been underlain with the Mirafi 600X fabric. The area around the outlet has been seeded and the ECSC-2B erosion blanket has been installed. **[No Action]**

9. Stone Check Dams: no items

10. Pollution Prevention:

- a. It appears that the painting trades are washing their equipment in the loading dock area by the catch basin. **[Corrective Action]** This is a violation to wash hazardous substances into a catch basin. I spoke with the site superintendent and directed him to stop the tradesmen from washing in this area and we discussed another location on site where the wash water can be captured.
- b. The loading dock area is inundated with trash and sediment. **[Corrective Action]** Remove the trash from this area and provide trash receptacles. Flat shovel the sediment and return it to a controlled area.
- c. All fueling operations are within controlled areas and containers are properly stored. **[No Action]**

From previous reports:

3. Inlet Protection:

- a. **[Previous Item 2/29/12]** The inlet at the entrance is unprotected and there is sediment around the inlet. **[Corrective Action]** Place a Typ-2 inlet protection in the CB and clean the sediment off the impervious around the grate. **Completed.**
- b. **[Previous Item 1/18/12]** The inlet at the southeast side of the school is not protected and there is sediment around the inlet. **[Corrective Action]** Place Typ-2 inlet protection in the CB and clean the sediment off the surfaces around the inlets. **Incomplete.**

4. Sediment Traps/Basins:

- a. **[Previous Item 1/18/12]** A large gully has formed around sediment trap #3. **[Corrective Action]** Repair the gully and stabilize all open areas. In areas of concentrated flow entering the sediment trap, place straw wattles upland to reduce the SW velocity. **Completed.**
- b. **[Previous Item 2/29/12]** A large gully has formed at the south side of sediment trap #1. **[Corrective Action]** Repair the gully and stabilize all upland areas. **Incomplete.**

CC:

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Developer Associates
Project Manager Enterprises
Engineering USA
Project Manager Enterprises
Site Contractors
CCRs R Us
Delegated Agency

Action to be taken:

Continue Routine Site Reviews X

Correct Noted Deficiencies X

Completion Date: 3/20/13

Other _____

Signature Required

Cheryl L. Gmuer, Certified Construction Reviewer # 2013/03/29 053
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Signature Required

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