



State of Ohio Environmental Protection Agency

Central District Office

STREET ADDRESS:

MAILING ADDRESS:

Lazarus Government Center
50 W. Town St., Suite 700
Columbus, Ohio 43215

TELE: (614) 728-3778 FAX: (614) 728-3898
www.epa.state.oh.us

P.O. Box 1049
Columbus, OH 43216-1049

July 25, 2007

Jeff Childers
Canal Winchester Local School District
290 Washington Street
Canal Winchester, OH 43110

Re: Canal Winchester 7-8 School / Franklin County

Dear Mr. Childers:

This letter is written regarding the storm water inspection that Ashley Stemen, of Ohio EPA, conducted at Canal Winchester 7-8 School, located on Groveport Road in Franklin County, on July 25, 2007. The Agency understands that these construction activities are currently covered under the General Storm Water Permit Associated with Construction Activities. Based on the site inspection and the General Storm Water Permit, the following items must be addressed:

Sediment and Erosion Controls:

- The storm water inlet protection throughout the site will require maintenance and cleaning (See Figure 1). Please ensure that maintenance and cleaning of these inlets are implemented within seven (7) days of receipt of this letter.
- Be aware that the General Permit states that all barren areas which remain idle in excess of 21 days must be protected from erosion within seven (7) days of the last earth disturbing activities. In addition, erosion protection must be implemented for all areas of final grade within seven (7) days.

If you have any questions regarding this letter or my inspection, please do not hesitate to call me at our Central District Office at (614) 728-3851. In addition, please provide a written response to the action items addressed above within ten (10) days from receipt of this letter. A follow up inspection will be conducted to ensure the minimum conditions of the General Permit have been met.

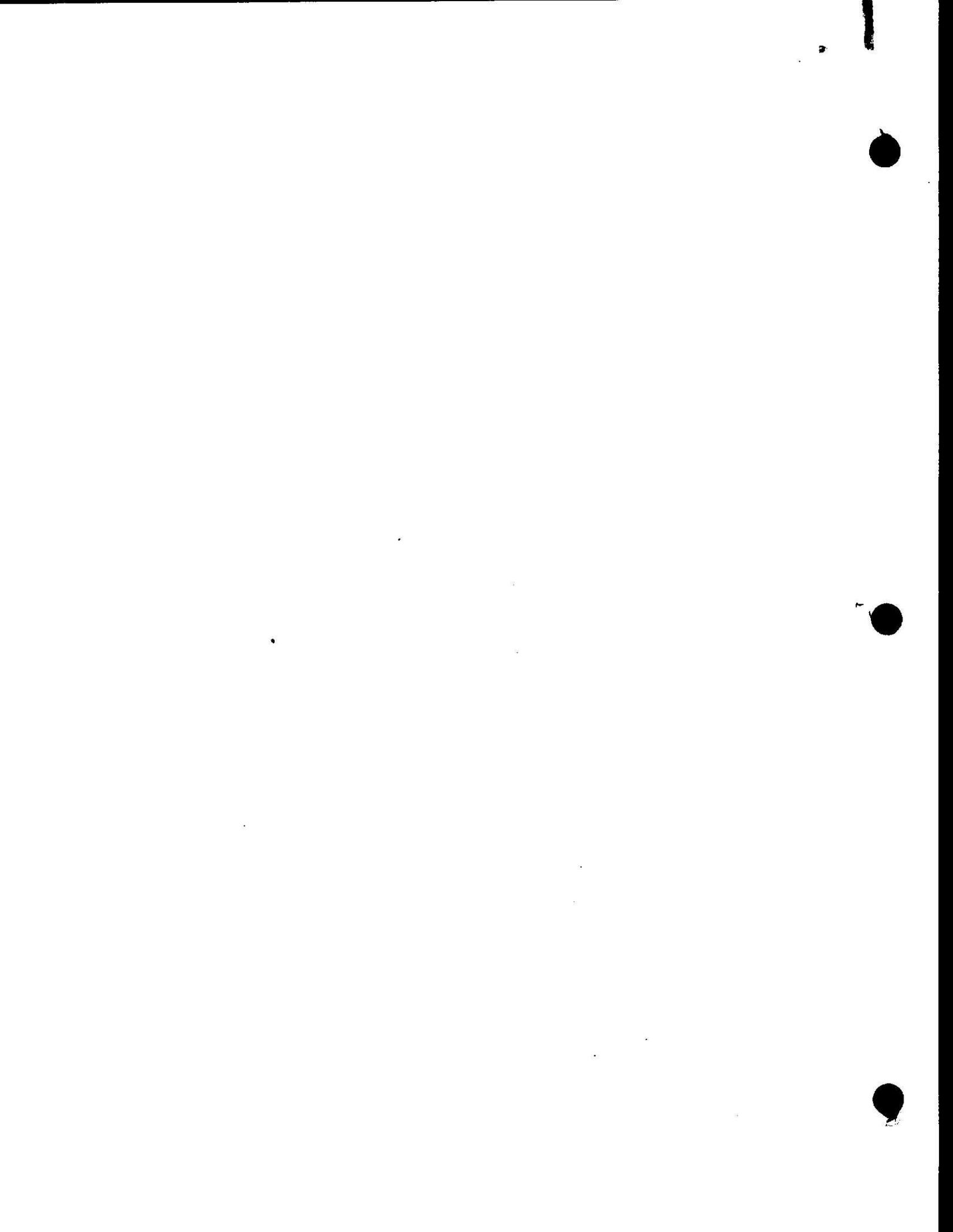
Sincerely,

Gregory L. Sanders
Environmental Specialist
Division of Surface Water
Central District Office

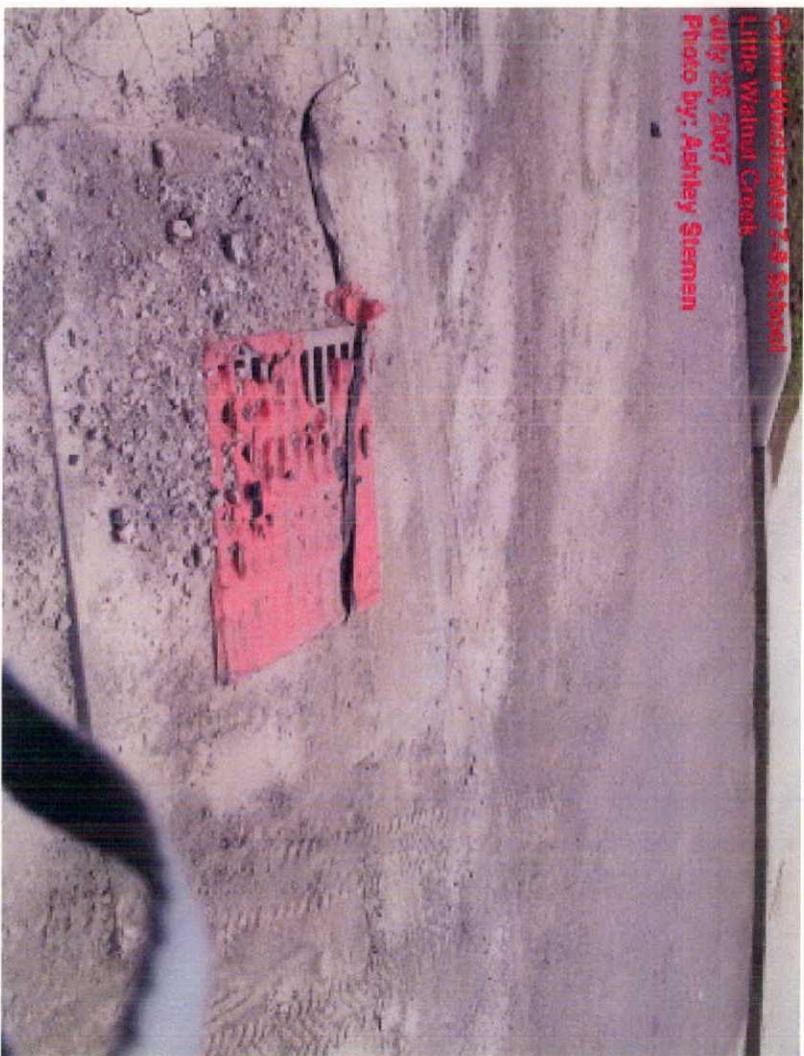
c: Jeff Bohne, Water Quality Supervisor, DSW/CDO

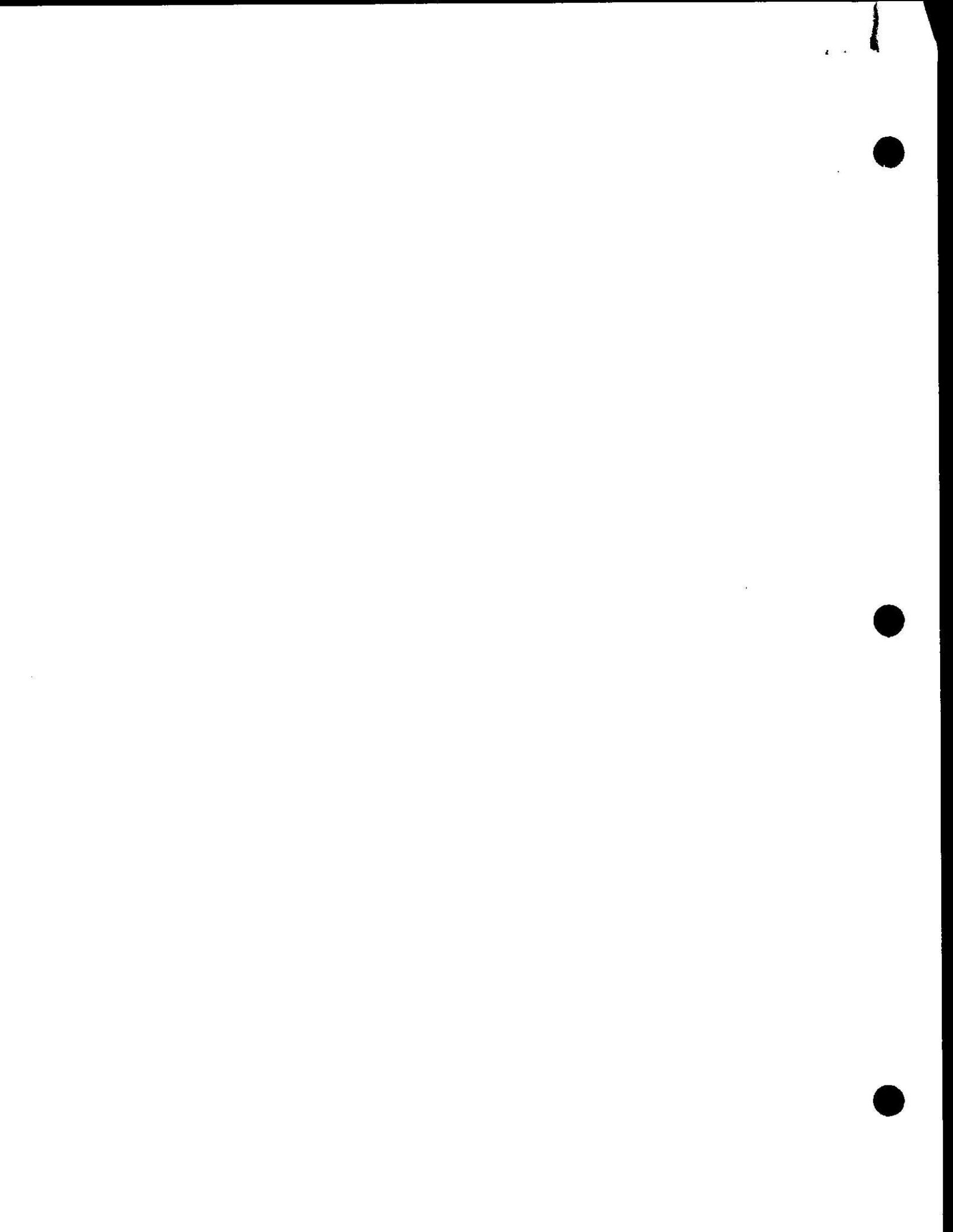
GS/ct Canal Winchester 7-8 School

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Came Westwater 7-8 School
Little Walnut Creek
July 26, 2007
Photo by: Ashley Steman







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July 25, 2007

Roy Garland
The Home Depot USA, Inc.
1400 West Dundee
Arlington Heights, IL 60004

Re: The Home Depot-Columbus / Franklin County

Dear Mr. Garland:

This letter is written regarding the preliminary storm water inspection that Deborah Lucas, of Ohio EPA, conducted at Morse Road and Karl Road, located in Franklin County, on July 23, 2007. The agency understands that construction activities have not commenced, however, please be aware that the following issues must be addressed prior to construction activity:

Storm Water Pollution Prevention Plan (SWPPP): A SWPPP must be developed specific for this site. The plan must address all phases of construction and identify the location and sizing of all sediment and erosion controls. Schedules for temporary and permanent seeding must also be addressed in the SWPPP. This plan must be maintained on-site for the Agency to review. Be aware that Ohio EPA reserves the right to require modifications to the SWPPP if the minimum conditions of the General Storm Water Permit are not met. The SWPPP must be developed prior to the submission of the NOI.

Erosion Controls: Be aware that the General Permit states that all barren areas which remain idle in excess of 21 days must be protected from erosion within seven (7) days of the last earth disturbing activities. In addition, erosion protection must be implemented for all areas of final grade within seven (7) days. Please note, in the event that earth moving activities extend beyond the effective growing season, alternative erosion protection will be required to fully stabilize the site for winter.

Post Construction Requirements: For all large construction activities (involving the disturbance of five or more acres of land or will disturb less than five acres, but is a part of a larger common plan of development or sale which will disturb five or more acres of land), the post construction Best Management Practices (BMP(s)) chosen must be able to detain storm water runoff for protection of the stream channels, stream erosion control, and improved water quality. Structural (designed) post-construction storm water treatment practices shall be incorporated into the permanent drainage system for

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the site. The BMP(s) chosen must be sized to treat the water quality volume (WQ_v) and assure compliance with criteria in OAC 3745-1-04. In addition, the discharge must not violate Ohio's Water Quality Standards in OAC 3745-1. The WQ_v shall be equivalent to the volume of runoff from a 0.75-inch rainfall and shall be determined according to one of the two following methods:

1. Through a site hydrologic study approved by the local municipal permitting authority that uses continuous hydrologic simulation and local long-term hourly precipitation records or
2. Using the following equation:

$$WQ_v = C * P * A / 12$$

where: WQ_v = water quality volume in acre-feet

C = runoff coefficient appropriate for storms less than 1 inch (see Table 1)

P = 0.75 inch precipitation depth

A = area draining into the BMP in acres

Table 1: Runoff Coefficients Based on the Type of Land Use

Land Use	Runoff Coefficient
Industrial & Commercial	0.8
High Density Residential (>15 dwellings/acre)	0.5
Medium Density Residential (4-15 dwellings/acre)	0.4
Low Density Residential (1-4 dwellings/acre)	0.3
Open Space and Recreational Areas	0.2

Where the land use will be mixed, the runoff coefficient should be calculated using a weighted average. For example, if 60% of the contributing drainage area to the storm water treatment structure is Low Density Residential, 30% is High Density Residential, and 10% is Open Space, the runoff coefficient is calculated as follows $(0.6)(0.3) + (0.3)(0.5) + (0.1)(0.2) = 0.35$.

Table 2: Target Draw Down (Drain) Times for Structural Post-Construction Treatment Control Practices

Best Management Practice	Drain Time of WQ_v
Infiltration	24 - 48 hours
Vegetated Swale and Filter Strip	24 hours
Extended Detention Basin (Dry Basins)	48 hours
Retention Basins (Wet Basins)*	24 hours
Constructed Wetlands (above permanent pool)	24 hours
Media Filtration, Bioretention	40 hours

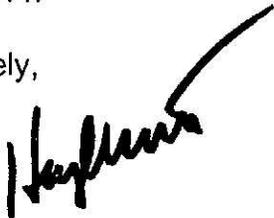
* Provide both a permanent pool and an extended detention volume above the permanent pool, each sized at $0.75 * WQ_v$

An additional volume equal to 20 percent of the Water Quality Volume shall be incorporated into the BMP for sediment storage and/or reduced infiltration.

For redevelopment projects (i.e., developments on previously developed property), post-construction practices shall either ensure a 20 percent net reduction of the site impervious area, provide treatment of at least 20 percent of the Water Quality Volume, or a combination of the two.

If you have questions regarding this letter, please do not hesitate to contact me at (614) 728-3844.

Sincerely,



Harry Kallipolitis
Environmental Specialist
Division of Surface Water
Central District Office

c: Jeff Bohne, Water Quality Supervisor, DSW/CDO

