**Dirt, Gravel, and Low Volume Road Maintenance**

**Erosion and Sediment Pollution Control Plan**

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| **1. GENERAL INFORMATION** | | | | | |
| Name of project |  | | | | |
| Name of person responsible / Phone # |  | | | | |
| Road Name / ID Number |  | | | | |
| Municipality where project is located |  | | | | |
| Name of nearest Surface water |  | | | | |
| Chapter 93 Stream Designation |  | | | | |
| Brief description of project | | | | | |
| Please provide written directions to the site and attach a topographic map with the location highlighted: | | | | | |
| Estimated start and end dates | Start Date |  | End date |  | |
| **Project Questions** | | | | | |
| Have wetlands been delineated? | YES NO | Is the project located in a floodway? | | | YES NO |
| Will the activity require work off Right of Way? | | | | | YES NO |
| Will this project result in any increases in runoff or impervious area? | | | | | YES NO |
| IS any work occurring beyond existing roadway profile, including ditches and slopes? | | | | | YES NO |
| Does the project require any offsite spoil or borrow areas? | | | | | YES NO |
| Does the project area include any potential contaminated or regulated material? | | | | | YES NO |
| Are there any naturally occurring geologic formations or soil conditions that may have the potential to cause pollution (sinkholes, strip mine tailings, AMD discharge, etc.) | | | | | YES NO |
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| If Yes to any of the questions above, describe below and contact the Conservation District: | | | | | |
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| **2. SOILS INFORMATION / Include a Soils Map Highlighting Work Area** | | | | | | |
| SOIL NAME | SLOPE |  | DEPTH |  | IS SOIL HYDRIC | YES NO |
| LIMITATIONS | | | | | | |
| SOIL NAME | SLOPE |  | DEPTH |  | IS SOIL HYDRIC | YES NO |
| LIMITATIONS | | | | | | |
| SOIL NAME | SLOPE |  | DEPTH |  | IS SOIL HYDRIC | YES NO |
| LIMITATIONS | | | | | | |
| SOIL NAME | SLOPE |  | DEPTH |  | IS SOIL HYDRIC | YES NO |
| LIMITATIONS | | | | | | |
| SOIL NAME | SLOPE |  | DEPTH |  | IS SOIL HYDRIC | YES NO |
| LIMITATIONS | | | | | | |

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| **3. Typical Construction Sequence** |
| In order for an ESPC plan to be effective, construction must take place in an organized sequence that integrates the ESPC BMPs into the sequence in a timely manner. The first step in nearly all projects is the installation of sediment barriers below the project, that is downslope and installation of BMPs to control off site runoff that drains to the site. The sequence would then include other needed BMPs and end with the removal of temporary controls. A typical construction sequence is provided below. The ESM activities identified earlier are practices utilized to correct existing detrimental conditions to water quality. Installation of ESM Practices should be completed in a timely fashion. This will reduce the need for temporary controls during installation. In addition, compaction should be kept only to those areas necessary for construction. |
| A. Contact your local Conservation District and/or DEP to obtain any necessary permits |
| B. Layout/define work area and limits of disturbance at the site prior to start of project.  -Keep disturbance of vegetative areas, including riparian buffers, to only those areas necessary for construction |
| C. Install temporary ESPC BMPs (compost filter sock, silt fence, stabilized construction entrance, etc.)  -Reference specific ESM Technical Bulletin or DEP’s ESPC Program Manual  -Perform Maintenance and inspection on ESPC BMPs as required |
| D. Complete road work in accordance with contract documents. Work should be completed in accordance with Environmentally Sensitive Maintenance Principles and Practices. |
| E. Ensure all disturbed areas achieve a permanent stabilization (minimum 70% uniform vegetative cover). See Penn State Agronomy Guide, DEPs ESPC Program Manual, or Penn DOT Pub 408 for more information |
| G. Remove any temporary Erosion and Sediment Control Best Management Practices |
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| **4. TEMPORARY CONTROLS** | | | |
| Please check all of the Environmentally Sensitive Maintenance(ESM) Practices or Erosion and Sediment Pollution Control (ESPC) Best Management Practices (BMPs) that will occur for this project: | | | |
| Culvert Replacement |  | Inlet Protection |  |
| Ditch Cleaning / Re-grading |  | Culvert Inlet and or Outlet Cleaning |  |
| Driving Surface Aggregate |  | Rock lined / Vegetated Swale |  |
| Out-Sloping Road |  | Rock Filter |  |
| Water Bars |  | Rock outlet protection |  |
| Rip Rap Apron |  | New Culvert Installation |  |
| Straw Bale Barrier |  | Through – Pipes (for seeps/springs) |  |
| Additional Road Base |  | Grade Breaks |  |
| Filter Fabric Fence / Compost Filter Sock |  | Vegetated Filter Strip |  |
| Stabilized Rock Construction Entrance |  | Earthwork in Stream Channels |  |
| Erosion Control Blanket |  | Temporary Vegetated Stabilization (must be within 4 days of construction ceasing) |  |
| Other:(Please reference from PA DEP Erosion and Sediment Pollution Control Program Manual, March 2012) | | |  |
| Other: | | |  |
| Other: | | |  |
| Other: | | |  |
| Other: | | |  |
| Other: | | |  |

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| **5. PERMANAENT CONTROLS** |
| When a project is completed, it is necessary to ensure permanent stabilization of the site. This entails the stabilization of all exposed soil areas through revegetation, stone, pavement or other stabilization practice. Upon completion of an earth disturbance activity or any stage or phase of an activity where a completion of earth disturbance activities will exceed 4 days, the site shall be immediately seeded, mulched, or otherwise protected from accelerated erosion and sedimentation. List the permanent stabilization BMPs to be used below. Permanent stabilization BMPs should follow appropriate recommendations. |
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| **6. MAINTENANCE PROGRAM** | |
| All ESPC BMPs must be properly maintained in order to ensure that they function properly. Maintenance practices are described in the common BMP descriptions in section 2 of this guide. List maintenance measures  to be implemented below. The first four are general measures and are required. Common maintenance practices are also listed. Check those that apply. For maintenance practices not listed, describe the practice in the blank lines below and check. | |
| Until final site stabilization, all ESPC BMPs will be properly inspected weekly and after each rainfall | X |
| All maintenance for ESPC BMPs will be conducted according to the recommendations in this guide | X |
| If any ESPC practice proves to be inadequate, additional measures will be immediately implemented | X |
| Upon temporary cessation of an earth disturbance activity or any stage or phase of an activity where a cessation of earth disturbance activities will exceed 4 days, the site shall be immediately seeded, mulched, or otherwise protected from accelerated erosion and sedimentation pending future earth disturbance activities. | X |
| Upon final stabilization, all temporary ESPC BMPs will be removed | X |
| Sediment will be removed from silt fence when it accumulates to one half the height of the fence |  |
| Sediment will be removed from silt sock when it accumulates to one half the height of the silt sock |  |
| Sediment will be removed from straw bales when it accumulates to one third the height of the straw bale |  |
| Rock construction entrances will be maintained to adequate stone depth |  |
| Rock construction entrances will be cleaned out if clogged |  |
| Sediment will be removed from rock filters when it reaches one half the filter height |  |
| All accumulated sediment removed from any practice will be disposed of properly |  |
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| **7. Thermal Impacts** | |
| Identify BMPs used to avoid, minimize or mitigate potential pollution from thermal impacts (some typical BMPs: distance from receiving water, limited extent/duration of earth disturbance activity, use of vegetation/filter strips, avoid direct discharges, etc.) | |
| Avoid Direct Discharge to surface waters | X |
| Vegetated Filter Strips |  |
| Limit the extend/duration of earth disturbance activities |  |
| Maintain Riparian Buffer Areas: |  |
| Other: |  |
| Other: |  |

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| **8. EROSION CONTROL PLAN DRAWING** | | | |
| A plan or drawing illustrating your ESPC plan is required. Drawings included with your Dirt, Gravel, & Low Volume Road application should include the locations of all of the practices found above. (See section 4, Temporary Controls) | | | |
| Name of project |  | Location and type of ESPC / ESM practice |  |
| North arrow |  | Property lines |  |
| Scale |  | Legend or key |  |
| Streams or ponds (include name if known) |  | Existing riparian buffers and vegetated areas |  |
| Existing features such as buildings or roads |  |  |  |
| Proposed features |  |  |  |
| Direction of slopes / Contour Lines |  |  |  |
| Soil Types |  |  |  |

**\*\*\*IMPORTANT\*\*\***

**Keep a copy of this plan for your records and PROVIDE A COPY TO YOUR CONTACTOR, if applicable. This plan must be kept onsite at all times during earth disturbance.**

***RESOURCES***

***LITERATURE***

Environmentally Sensitive Maintenance for Dirt & Gravel Roads

Erosion and Sediment Pollution Control Program Manual, Pennsylvania EP, March 2012.

Erosion Control and Conservation Plantings on Noncropland, Pennsylvania State University, 1997

The Agronomy Guide, 2013-2014, The Pennsylvania State University, 2013

***WEBSITES AND RESOURCES***

Dirt, Gravel, & Low Volume Road Program - <http://www.dirtandgravel.psu.edu/>

DEP – [www.depweb.state.pa.us](http://www.depweb.state.pa.us)

NRCS Soil Survey – <http://websoilsurvey.nrcs.usda.gov/app/>

Penn State Publications – <http://pubs.cas.psu.edu/Publications.asp>

Penn State Agronomy Guide – <http://pubs.cas.psu.edu/FreePubs/PDFs/agrs026.pdf>

Erosion Control and Conservation Plantings on Noncropland - [http://www.dauphincd.org/erosion/EROSION%20AND%20SEDIMENT%20CONTROL%20ON%20NONCROPLAND.**pdf**](http://www.dauphincd.org/erosion/EROSION%20AND%20SEDIMENT%20CONTROL%20ON%20NONCROPLAND.pdf)