



# LMA DISTRICT HEALTH DEPARTMENT

Environmental Health ■ Personal & Family Health ■ Emergency Preparedness

[www.lmasdhd.org](http://www.lmasdhd.org)

**Luce County  
& Administrative Office**  
14150 Hamilton Lake Road  
Newberry, MI 49868  
Ph: (906) 293-5107  
Fax: (906) 293-5453

**Mackinac County**  
749 Hombach Street  
St. Ignace, MI 49781  
Ph: (906) 643-1100  
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**Alger County**  
E9526 Prospect Street  
Munising, MI 49862  
Ph: (906) 387-2297  
Fax: (906) 387-2224

**Schoolcraft County**  
300 Walnut Street, Room 155  
Manistique, MI 49854  
Ph: (906) 341-6951  
Fax: (906) 341-5230

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## COMMERCIAL SOIL EROSION CONTROL PERMIT APPLICATION

Pursuant to Par 91, Soil Erosion and Sedimentation Control, of Act 451 of the Public Acts of 1994, as amended

A Soil Erosion Control Permit is required for **earth changes** that are located within 500 feet of a **lake** or **stream** and for **earth changes** that are one acre (43,560 square feet) or more in surface area, regardless of the location.

**Earth Change** – a human made change in the existing ground surface cover, including but not limited to excavating, filling, stockpiling, grading, clearing, grubbing, clearing, and stumping.

**Stream** – “a natural or artificial river, creek, or other surface waterhouse which may or may not be serving as a drain (as defined in Act No. 40 of the Public Acts of 1956, as amended being section 280.1 et seq. of the Michigan Compiled Laws) and which has **definite banks, a bed, and visible evidence of the continued flow or continued occurrence of water**, including the connecting waters of the Great Lakes.” This includes a ditch, gully, ravine, etc. that is serving as a river, stream, or creek.

**Lake** – “All natural and artificial inland lakes or impoundments that have definite banks, a bed, visible evidence of a continued occurrence of water, **and a surface area of water that is equal to or greater than one acre.**” “Lake” does not include sediment basins constructed for the sole purpose of storm water retention, cooling water, or treating polluted water.

There are a few types of earth change activities that do not need permits. The exempted activities are **beach nourishment projects under Part 325, minor earth changes, normal road and driveway maintenance, changes of less than 225 square feet**, plowing/tilling for crop production, mining, and logging. The exemption for mining does not apply to the removal of topsoil, sand, gravel, peat, clay, or marl. The exemption for mining and logging does not apply to ancillary or support facilities such as access roads, staging areas, processing facilities, and stockpiles that are outside of the “harvest” or “mining” area. The exemptions listed above do not apply if the activity is a phase of site preparation for another land use activity that requires a permit.

**Beach Nourishment Project:** Project permitted by MDEQ under Part 325 of PA 451.

**Minor Earth Change:** An earth change of a minor nature that stabilized (rip-rap, seed/mulch, sod, gravel, etc.) within 24 hours of the initial earth disturbance and that will not contribute sediment to lakes or streams.

**Normal Road and Driveway Maintenance:** Normal road and driveway maintenance, such as grading or leveling, that does not increase the width or length of the road or driveway and that will not contribute sediment to lakes or streams.

**225 Square Foot Exemption:** A permit waiver may be granted for an earth change after receiving a signed affidavit from the landowner stating that the earth change will disturb less than 225 square feet and that the earth change will not contribute sediment to lakes or streams.

If you have any questions or would like any assistance with your application, please contact us for help.



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\*\*\* If your property is on the West end of Mackinac County, please submit your application to Luce County.

## SCHEDULE OF FEES

### FOR SOIL EROSION AND SEDIMENT CONTROL PERMITS

Pursuant to Part 91, Soil Erosion and Sedimentation Control, Act 451 of the Public Acts of 1994, as amended.

Effective February 9, 2007

*Note: There is a \$26.00 additional charge, per request, for services requiring travel to an island.*

<b><u>SINGLE - FAMILY RESIDENTIAL:</u></b>	\$170.00 per acre of earth change <b>\$170.00 minimum</b>
Time Extensions (requested or required) as needed to stabilize site:	\$45.00
Residential Permit Revisions:	
<b><u>COMMERCIAL ACTIVITIES:</u></b> Utilities, Roads, Businesses, Apartment/Housing projects, Churches, Motels, Restaurants, Parking Lots, Warehouses, Motocross Tracks, Stockpile Yards, Topsoil Stripping, Subdivisions, Condominiums, Golf Courses, Land Clearing, Landfills, etc. (Permit Valid for 2 years from completion date stated on permit application)	First 10 Acres=\$350.00 per acre (or fraction thereof) Next 10 Acres=\$300.00 per acre Next 10 Acres=\$250.00 per acre Next 10 Acres and up=\$225.00 per acre <b>\$350.00 minimum</b>
Commercial Permit Revisions:	Fee based on percentage of acreage changed (Example: 25% of original design changed will be charged 25% of original permit fee.)
<b><u>PITS: Sand/Gravel/Peat/Clay/Marl Pits</u></b>	\$465.00 flat fee for all acreage
<b><u>LOGGING/MINING: Per LMASDHD Policy</u></b>	\$350.00 per acre (or fraction thereof) <b>\$350.00 minimum</b>
<b>Services requiring travel to an Island</b>	<b>\$26.00</b>
<b><u>FEE FOR CANCELED PROJECTS:</u></b> (after permit is issued)	One half of permit fee will be refunded
<b><u>WHERE EARTHWORK IS IN PROGRESS WITHOUT A VALID PART 91 PERMIT, A NOTICE OF VIOLATION WILL BE ISSUED AND A FINE OF UP TO \$2,500 MAY BE LEVIED.</u></b>	
<b>1 acre = 43,560 square feet. To figure out your acreage, take the total square feet that will be disturbed (excavation, fill areas, stockpiles, etc.) and divide it by 43,560. The fee is then calculated by the acreage x cost per acre or minimum fee.</b>	



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## COMMERCIAL SESC APPLICATION

**Office Use Only:**

Client ID: \_\_\_\_\_  
Fees: \_\_\_\_\_  
Cash/Ck: \_\_\_\_\_  
Receipt: \_\_\_\_\_

**Under Part 91, Soil Erosion & Sedimentation Control, PA 451 of 1994, as amended**

In accordance with Part 91- Act 451, 1994, the undersigned makes an application for a permit:

**1. Site Information:**

Land Owner's\* (or Recorded Easement Holder) Name: \_\_\_\_\_

Project Address: \_\_\_\_\_

T\_\_\_\_ R\_\_\_\_ Section\_\_\_\_

Property ID:\_\_\_\_-\_\_\_\_-\_\_\_\_-\_\_\_\_

County\_\_\_\_\_ Township\_\_\_\_\_ City\_\_\_\_\_

Complete Directions to Property: \_\_\_\_\_

**2. Land Owner's\* (or Recorded Easement Holder) Contact Information:**

Mailing Address: \_\_\_\_\_

Telephone Daytime):\_\_\_\_\_ Telephone(Evening):\_\_\_\_\_

Cell Phone:\_\_\_\_\_ Fax:\_\_\_\_\_

**3. Contractor's Contact Information:**

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Telephone Daytime):\_\_\_\_\_ Telephone(Evening):\_\_\_\_\_

Cell Phone:\_\_\_\_\_ Fax:\_\_\_\_\_

**4. Project Description:**

Description of all earth changes and construction:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\* Contractor completes application as Landowner if working in the public right-of-way

Size of total earth change (square feet or acreage):

Percent Slope of proposed project location: Slight  Moderate  Severe   
Identify Closest Lake or Stream:

Distance from edge of disturbance area to the lake or stream:

Are any materials to be stockpiled onsite? Yes  No   
If yes, what materials are to be stockpiled:

**5. Land Owner's\* Authorization:**

I hereby verify that all information submitted on this application is accurate to the best of my knowledge.

**Signature of Land Owner\*:** \_\_\_\_\_

**Date:** \_\_\_\_\_

*\* Contractor completes application as Landowner if working in a public right-of-way.*

1. Please write out **detailed** directions or a map to show how to access the site. Include roads, names, signs, fire #'s, etc.
2. On the map fill in the scale (bottom) and then draw a label all applicable EXISTING items: stream, lake, driveway, home, camp, lawn area, garage, septic system, well, storage building, culverts, ditches, drainage paths, etc. Also include major land features such as a rock bluff, swamp, river, lake, forest, etc.
3. Please list all new PROPOSED earth disturbance activities (driveway, access roads, home, camp, lawn area, garage, septic system, addition, well, storage building, culverts, ditches, etc.), the approximate square feet that will be disturbed for each, and then draw/label each on the map. You may also provide one overall total area disturbed if this is easier.

**Please list in chronological order**

Disturbance Activity:	Area in square feet:
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

YOU MUST DRAW ALL  
OF THESE SITE  
ACTIVITIES ON THE  
MAP PROVIDED.

Note: Disturbance area is not only structure (i.e. House foundation 32'x40' with 50'x60' excavation).

4. Please draw a heavy outline around all disturbed areas for your project.

5. **Existing ground elevations:** Start at a flat area and label this 100' elevation. Go out in all directions and give approximate elevations (difference can be as little as one foot or as much as ten) up or down relative to the 100'; include lake, river, road, and major land areas. Be sure to include all areas where disturbance will occur.
6. **Proposed ground elevations:** Using the already labeled existing elevations as a reference, use new numbers with a box around them to represent the elevations that the ground will be when you are done with your project, even if it will be the same. On a separate piece of paper, please draw a cross-section for new roads and areas of significant cut or fill of land.
7. Check off the temporary erosion control measures (and draw/label on map) that you will use during the project to prevent any soil from getting into a lake, stream, storm drain inlet, ditch, or onto other property.

\*If close to a lake/stream then silt fencing and 1' trench is required along entire edge\*

Berm  Mulch  Silt Fence  Trench  Hay Bales  Sediment Trap   
 Filter Fabric over inlet  None  Other \_\_\_\_\_

\*Draw and label on the map the chosen items.

8. Check off the permanent erosion control measures (and draw/label on map) that you will use to restore disturbed areas when the project is completed: SEE GENERAL STANDARDS FOR RESTORATION REQUIREMENTS  
 Sod  Seed/Mulch  Gravel  Pavement  Bark, Pine Needle, or Leaf Mulch   
 Rock Riprap  Other \_\_\_\_\_

9. Please fill in approximate dates for the project: Submit additional page as needed  
 Installation of temporary erosion controls: \_\_\_\_\_  
 Excavation/Construction: \_\_\_\_\_  
 Backfill and rough grade: \_\_\_\_\_  
 Final grade: \_\_\_\_\_  
 Expected date of vegetation establishment and site stabilization: \_\_\_\_\_

10. Please check all applicable soil types that exist on the site and any fill that will be brought in:  
 Sand  Gravel  Clay  Loam  Topsoil

11. How will you maintain the permanent erosion control measures? Who is responsible for permanent SESC measure maintenance?  
 Will re-seed, re-sod, add rock, or add mulch as needed to fill in bare spots and prevent erosion \_\_\_\_\_

Other \_\_\_\_\_

**SOIL EROSION APPLICATION PLOT PLAN**

Property ID: \_\_\_ - \_\_\_ - \_\_\_ - \_\_\_ - \_\_\_ T \_\_\_ R \_\_\_ SEC. \_\_\_ Owners Name \_\_\_\_\_  
Property Size: \_\_\_\_\_ (Dimensions or Acreage)

**MUST BE INCLUDED IN DRAWING WITH DIMENSIONS BETWEEN (Check Each Box as you Include on Drawing):**

- Property Dimensions     Existing/Proposed Well(s) (include neighbors)     All Structures with Dimensions     Easements
- Drainage Patterns     Surface water (lakes, streams, rivers, pond)     Existing/Proposed Septic System     Driveways
- Limits of Earth Change     Proposed Septic System Replacement Area     Fuel Tanks     Utilities
- Contours/Slope     Proposed Soil Erosion Measures \_\_\_;     Stock Pile Location     Roads
- Scale of not more than 200 ft per inch

NORTH

*Incomplete site plans will be returned*

**Office Use Only (This Section to be completed by Sanitarian during the initial site evaluation):**

Is Site Plan Accurate: Yes  No

Are Proposed Controls Adequate: Yes  No

R Factor: A  B  C  D

Comments: \_\_\_\_\_

Sanitarians Signature: \_\_\_\_\_ Date: \_\_\_\_\_

# LETTER OF AUTHORIZATION

## Property Identification:

T \_\_\_\_ R \_\_\_\_\_ E/W S \_\_\_\_ Township \_\_\_\_\_

Property Tax ID# \_\_\_\_ - \_\_\_\_ - \_\_\_\_ - \_\_\_\_ - \_\_\_\_

Property Address: \_\_\_\_\_

Subdivision: \_\_\_\_\_ Lot #: \_\_\_\_\_

## Representative:

\_\_\_\_\_  
Company and/or Individual Name (please print)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Address

\_\_\_\_\_  
City, State, Zip

\_\_\_\_\_  
Office Telephone

\_\_\_\_\_  
Fax

\_\_\_\_\_  
Cellular Telephone

As a landowner or recorded easement holder of the property described above, I authorize the person indicated above to act on my behalf for the services requested of the LMAS District Health Department. I understand that I am responsible for all rules and regulations related to this project and understand that civil fines may be enforced against me in the event of any violation of that Code.

## Landowner or Recorded Easement Holder:

\_\_\_\_\_  
Name (please print)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date



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## GENERAL REQUIREMENTS AND STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL PLANS

### Temporary Erosion/Sediment Control Measures:

The documents submitted for our review must show a reasonable representation of all the control measures that are anticipated to be necessary during all stages of the earth change, i.e., from the time that the site is stripped of the existing vegetation until the site is permanently stabilized with a non-erodible surface (Note: A site that has been seeded and mulched is not considered to be permanently stabilized until the surfaces are well vegetated). The documents must include detailed drawings showing the proper use, materials, and installation of all temporary and permanent erosion/sediment control measures all with the requirement that the control measures be properly installed, maintained, relocated, modified, etc. as necessary to perform their intended function and be in compliance with the law.

Erosion and sediment controls are required for earth changes above the waterline to prevent sediment from entering the water. SILTFENCING AND/OR A 1' TRENCH IS REQUIRED ALONG ALL WATERBODY EDGES FOR PROJECTS THAT ARE CLOSE TO A LAKE/STREAM. LARGER COMMERCIAL PROJECTS WILL BE REQUIRED TO INSTALL AND MAINTAIN BERMS/TRENCHES/SEDIMENT TRAPS FOR ERSION CONTROL.

The documents must include a project schedule and sequence with sufficient detail to show that the following requirements will be met: 1) earth changes shall be staged to keep the area of the disturbed earth surfaces as small as practicable for the shortest possible period of time; 2) all disturbed earth surfaces shall be expeditiously brought to the final grade and permanently stabilized; 3) the surface work; 4) the work schedule and sequence to be followed is the one that will have the least potential for causing erosion/sediment damage.

### Permanent Erosion and Sediment Control Measures:

All disturbed earth surfaces steeper than 3:1 and up to 2:1 (horiz: vert) shall be restored with pegged sod erosion control blanket, or other pre-approved equivalent. All disturbed earth surfaces steeper than 2:1 (horiz: vert) shall be restored with rock riprap erosion control blanket, or other pre-approved equivalent. No new slopes shall be constructed steeper than 1:1 unless specifically waived by the department. Earth surfaces on pre-existing slopes steeper than 2:1 are to be armored with riprap, erosion control blanket, or other pre-approved equivalent. The requirements apply to all ditch/cut/fill slopes.

All stream crossing slopes [both sides] must be stabilized with non-woven rip-rap [angular or field stone] from water line up to top road base, regardless of slope.

In all areas of channelized flow, if the water velocity is between 4fps and 6fps for a 25-yr/24-hr storm, the channel shall be restored with pegged sod or other pre-approved equivalent. The sod shall extend a minimum of 1' above the channel bottom, measured vertically, or above the normal depth of flow or a 25-yr/24-hr storm. The sod seams shall be staggered in the direction parallel with the flow of water. In V-bottom ditches, the sod seams shall not be installed in the bottom of the vee. The sod shall be entrenched such that the top of the root mat is to the line and grade of the adjacent ground.

In all areas channelized flow, if the water velocity is greater than 6 fps for a 25-yr/24-hr storm, the channel shall be armored with riprap, pavement, or other pre-approved equivalent materials. The armor shall extend a minimum of 1' above the channel bottom measured vertically, or above the normal depth of flow for a 25-yr/24-hr storm, whichever is the greatest.

Regardless of the velocity, all areas of channelized flow having a continuous base flow shall be permanently stabilized with riprap, pavement, or other pre-approved method (bioengineering is encouraged). The riprap, pavement, etc. shall extend above the channel bottom to the normal depth of the base flow. The surfaces within the channel above the normal depth of base flow must be restored according to the velocity and normal depth requirements for a 25-yr/24-hr storm as discussed previously.

A riprap shall be sized such that the smallest stones will not be displaced by the water velocities resulting from a 25-yr/24-hr storm. The depth of the riprap shall be 1.5 times the smallest stone dimension or 8", whichever is greater. All ripraps shall be underlain by geotextile fabric. All riprap shall be entrenched such that the top of the rip-rap is to the line and grade of the adjacent ground.

Where subsurface water movement or excavations below the water table may cause seeps, soil erosion, soil slippage, sloughing, caving, or other earth movement, adequate subsurface drainage facilities and permanent surface stabilization measures shall be installed as necessary to prevent slope instability, soil erosion, sedimentation.

The same end result of structural stability is required for earth impoundment. The suitability of the in-place foundation soils must be analyzed; the embankment cross-section, soils, compaction, outlet structures, etc. must be engineered to prevent slope instability, piping, seep, settlement, etc. This also applies to existing earth fills that will be subject to an increase in the backwater elevation due to an alteration of the drainage structures or due to storm water diversions. Anti-seepage seepage collars must be installed on all impoundment pipe outlets. On the interior surfaces of impoundments, the permanent stabilization method, materials, plant species, etc. must be carefully chosen to ensure that the method is appropriate for the range of water level fluctuations, and/or inundation duration and frequency of occurrence.

The existing surface cover types must also be analyzed and modified as necessary in

areas that are not being disturbed but will be experiencing a change in water velocities, the range of water level fluctuations, and/or inundation duration and frequency of occurrence due to storm water diversions and/or alterations of drainage control structures. The State law requires that all drainage conveyances be designed to prevent erosive water velocities as a result of this project, the use of energy dissipaters and velocity control structures will be required unless all affected surfaces are protected as necessary to prevent long term erosion problems.

The plans must show detail drawings of the configuration and dimensions of all riprap culvert aprons, energy dissipater, spillways, and down drains. All riprap down drains and impoundment spillways must be engineered using the USDA "Rock Chute" design method or other appropriate "engineered" method.

Performance Guarantees:

Performance guarantees are required for most earth changes that exceed 1000 cubic yards (27,000 cubic feet) of earthwork. The project must be bonded for \$1000 per acre of work. The performance guarantee may be in the form of a surety bond, cash bond, or irrevocable letter of credit. If the project owner is a government agency, in lieu of a bond, agreement may be entered into between the project owner and the Department whereby the owner agrees to act on the bond on our behalf in the event that the contractor defaults in performing the permit requirements. However, for this option to be considered, the contractor must be bonded to the owner for 100% of the permit requirements, i.e., the contract documents must incorporate all of the work as approved and required by this office.

Maintenance:

The state law requires that the soil erosion and sediment control plan include "a program proposal for the continued maintenance of all permanent soil erosion control facilities which remain after project completion, including the designation of the person responsible or the maintenance...."

Appeals:

The LMAS District Health Department Board of Appeals will be serving as the appeals board for Part 91, the Soil Erosion and Sedimentation Control program. Any matters that you may have for them may be directed to the Mackinac County office at 1-906-643-1100.

**CONSTRUCTION REQUIREMENTS:**

## 1. Slope Stabilization:

- A. Roof gutters/downspouts and/or ground surface protection shall be installed as needed to prevent erosion of the slopes beneath roof drip lines and at roof/floor drain discharge points.
- B. All disturbed earth surfaces steeper than 3:1 and up to/including 2:1 (horiz: vert) shall be restored with pegged sod or erosion control fabric/mats. All disturbed earth surfaces steeper than 2:1 (horiz: vert) shall be restored with rock riprap or other pre-approved equivalent.
- C. No permanent slopes to be created steeper than 2:1 (horiz: vert) unless pre-approved.
- D. All areas on pre-existing slopes steeper than 2:1 (horiz: vert) will be permanently stabilized with riprap or other pre-approved equivalent.
- E. Slopes near retaining walls shall be constructed to convey surface runoff down the slope without causing erosion retaining walls constructed of timbers, ungrouted rocks or stones, etc., will be lined with geotextile fabric on the uphill face of the wall to prevent soil from exfiltrating through the wall.
- F. All sod shall be entrenched such that the top of the sod is to the line and grade of the adjacent ground. The sod seams shall be staggered in the direction parallel to flow of surface runoff.
- G. All riprap will be underlain with filter fabric and be large enough not to be displaced during storm events – 4-6" minimum is recommended. Front/sides to be trenched into sub-grade.
- H. All earth changes are to be permanently stabilized with topsoil/seed/mulch to establish a good vegetative surface cover, unless areas are determined by M CCD to be fully self-contained.
- I. Silt fence shall be properly installed, as needed at the downhill perimeter of the exposed soil surfaces to prevent sediment damage to a lake/stream and keep all sediment onsite.

## 2. In all areas concentrated water flow for a 25-year/24hr.-storm event, the soil surface shall be armored with appropriate surface cover material permanently stabilize the flow line.

- A. If the flow is between 4 and 6 feet per second, the disturbed earth surfaces shall be armored with pegged sod or erosion control fabric/mats. The sod shall extend a minimum of 1' above the normal depth of flow.
- B. If the flow is greater than 6 feet per second the disturbed earth surfaces shall be armored with riprap, pavement, or other pre-approved non-erodible surface.
- C. All flow lines with a continuous base flow shall be permanently stabilized with riprap, pavement, or other pre-approved method (bioengineering is encouraged).
- D. The riprap, pavement, etc. shall extend a minimum of 1' above the normal depth of flow.
- E. Check dams and/or ditches sediment traps shall be installed in flow lines as needed to trap sediment and prevent erosive water velocities.

3. All disturbed earth surfaces that are not permanently stabilized with good vegetation or pavement prior to the winter months of each year will be protected with the temporary erosion/sediment controls necessary to prevent erosion into any lakes, streams, or drainage facilities during the winter months and the spring snowmelt/runoff period.
4. Permittee is responsible for the proper installation and timely maintenance of all erosion/sediment controls necessary to prevent erosion/sediment damage to any lake, stream, or drainage facility.
5. All earth changes shall be completed so that surfaces remain exposed for the shortest possible period of time. All disturbed earth surfaces shall be expeditiously brought to the final grade permanently stabilized with good vegetation, pavement, and/or other non-erodible surface cover. The surface restoration work shall be a continuous operation and shall proceed concurrently with other work.
6. Sediment will be removed from runoff water before it leaves the site of the earth change.
7. All flushing, dewatering, pumping, well development, etc., shall be done with no erosion/sediment damage any lake, stream, or drainage facility. Temporary control measures will be installed prior to these operations to remove sediment and limit the water flow to a non-erosive velocity.
8. Temporary sediment controls shall be installed at all storm sewers and culver inlets that are down gradient of any exposed oil or gravel surfaces that are a result of this project.
9. Any facility designed/constructed for the control or conveyance of water within, around, rough, or from the earth he area will be designed/constructed to limit the flow of water to a non-erosive velocity.
10. Excavations and embankments shall be constructed with positive drainage and/or the drainage facilities necessary to prevent ponding of water and blockage of existing drainage patterns with the exception of constructed wetlands and those facilities specifically engineered for storm water management. Provisions shall be made to safely convey storm water runoff down cut and fill slopes to prevent soil erosion, sedimentation, and erosive water velocities.
11. Wind velocity reduction fences, dust control measures, and temporary and permanent stabilization measures shall be installed as necessary to protect disturbed earth surfaces from wind erosion.
12. Where subsurface water movement causes seeps, soil erosion, soil slippage, sloughing, caving, or other earth movement, the permittee shall install subsurface drainage facilities as necessary to prevent slope instability, soil erosion, and sedimentation.

## **GENERAL CONDITIONS:**

1. In issuing this permit, LMASDHD has relied on the information the permit has provided in the permit application. Any changes to the current plan/permit must be submitted to LMASDHD for approval/inclusion in existing permit or a violation may be issued.
2. The permit shall be kept at the project site and available for inspection at all times during the project.
3. All work authorized by this permit will be done under the approved SESC plan and in compliance with all requirements of Part 91, Soil Erosion and Sedimentation Control, of the Natural Resources and Environmental Protection Act, Act No. 451 of PA of 1994, as amended, and the administrative rules.
4. The requirements of this permit will be enforced by the LMASDHD. In the event of failure to complete the work within the specified time period or failure to comply with all requirements of Part 91 of Act 451, and/or the Permit, the Department may issue a notice of violation; issue a cease and desist order; seek injunctive relief; institute civil or criminal proceedings; order such work as necessary to eliminate any danger to persons or damage to property, lakes, streams, or drainage facilities; order the completion of work authorized by the permit; and/or may enter upon the land to construct, implement, and maintain soil erosion and sediment control measures, the cost of which shall be reimbursed to the Department by the property owner.
5. The permit is permissive and its issuance does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to public or private property or any invasion of public or private rights, nor any infringement of federal, state, or local law or regulations, nor does it eliminate the necessity of obtaining such permits or approvals from other units of government as may be required by law. This permit is issued with the understanding that it does not prevent the Department or the State of Michigan from the establishment of further requirements for control at any time
6. The permittee shall immediately notify the Department of any change in ownership.
7. The issuance of this permit shall not impose any liability upon the LMASDHD for damages to persons or property.
8. Permittee is responsible for requesting permit extension to cover project completion.
9. Upon a final site visit, the Department will issue a Certification of Completion to close the permit out.



## **LMAS DISTRICT HEALTH DEPARTMENT**

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**Alger County**  
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**Schoolcraft County**  
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## EROSION CONTROL IDEAS AND TRICKS TO “GROWING A HEALTHY LAWN”

1. Whenever possible, cover all raw soils with heavy seeding and a thick layer of hay mulch.
2. Use sod, crushed stone, or rock at roof drip edges to catch roof runoff. Underlay all stone/rock with filter fabric. Extend the sod/rock down the slope to a flat or wooded area.
3. Use silt fence or hay bales at your work area, especially to protect sloping land. Trench them in below grade and backfill.
4. If you can't restore the entire site in one season, get seed/hay on any areas possible before winter (even if they are not to final grade).
5. Using a thick layer of hay mulch will help to keep your topsoil from eroding, minimize gully formation, and start a temporary vegetative cover.
6. Pay attention to your soil types – clay, sand, gravel, rock, etc. A gravel/rock slope next to a lake may not need much attention, but a raw clay slope would need to be seeded/mulched immediately.
7. If you see a sedimentation problem, trace it to the source and use an appropriate solution.
8. Keep as much area as you can undisturbed adjacent to the lake/stream – this “buffer” acts as a natural sediment control.
9. Work with your contractor/excavator to leave a berm along the edge of work area or to dig a sump to catch runoff.
10. Use berms to divert roof/yard runoff away from raw fill slopes. Raw slopes will never vegetate if they have constant erosion from water going down them.
11. Steep slopes will require sod, rock, or an erosion control “blanket” for stabilization.
12. In areas of concentrated runoff or where you see gullies, a sod or fabric/rock round bottom “ditch” will need to be used to carry water through the area of erosion.