Gladwin Conservation District

Gladwin County Soil Erosion & Sedimentation Packet



GLADWIN CONSERVATION DISTRICT

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GLADWIN CONSERVATION DISTRICT SESC: FEE SCHEDULE

A) <u>CONSTRUCTION PROJECT</u> (Including pre-manufactured homes and mobiles)

			,		
	1)	RESIDENTIAL On Crawl			
		or Basement Foundations:			
			225 - 600 sq ft\$85.00		
			601 – 1200 sq ft \$105.00		
			1201 -2500 sq ft\$120.00		
			Over 2500 sq ft \$150.00		
	2)	RESIDENTIAL On Pole,			
		Frame or Pier Foundations:			
			225-600 sq ft\$50.00		
			601- 1200 sq ft\$65.00		
			1201 -2500 sq ft\$80.00		
	2)	COMMEDCIAL DOJECTO L. L. P.	Over 2500 sq ft\$105.00		
	3)	COMMERCIAL POJECTS Including			
		Multiple housing units, Mobile parks,			
		Subdivisions, etc	Un to one (1) come 6 200.00		
		Feele additional a	Up to one (1) acre\$ 300.00		
		Each additional r	nile or fraction thereof\$ 150.00		
B)	NO	N-CONSTRUCTION/LANDCAPING PROJECTS			
D)	no	M-CONSTRUCTION/LANDCALING TROJECTS			
	1)	RESIDENTIAL SEAWALLS OR RETAINING WALLS			
	-)		up to 150 linear ft\$ 50.00		
			Over 150 linear ft\$ 70.00		
	2)	COMMERCIAL SEAWALLS OR RETAINING WALLS			
			up to 150 linear ft\$ 200.00		
			Over 150 linear ft\$ 250.00		
	3)	LOT LEVELING OF A RESIDENTIAL LOT/GRUBBBIN	G \$150.00		
	4)	BEACH, MISC. YARD PROJECTS, DREDGING, ETC			
			225 sq ft-600 sq ft\$50.00		
			601 sq ft-1000sq ft \$70.00		
			Over 1000sq ft\$100.0		
	5)	PONDS	up to one (1) acre\$ 100.00		
	3)		acre or fraction thereof \$50.00		
	6)	STREAM CROSSINGS/CULVERTS	Private landowner \$60.00		
	- /		Municipal\$ 125.00		
			•		
	7)	SEWER CONNECTION/SEPTIC TANK & DRAIN FIELI	D \$60.00		
	8)		ne (1) mile\$ 200.00		
		Each additional mile or fra	action thereof\$ 100.00		
	9)	SAND & GRAVEL MINING OPERATIONS-NEW PIT (5	•		
			RENEWAL\$ 25.00		
C)	NO	N-COMPLIANCE (ex: soil disturbance prior to permitting)	DOUBLE FEE		
C)	no	TA-COMPLIANCE (ex. son disturbance prior to per initing)	DOUBLE FEE		
D)	PERMIT EXTENTIONS: (ADDITIONAL ONE (1) YEAR)1/2 Original fee				
-,			- 8		
		Any services not specifically provided for	shall be charged		
		In the manner most similar to the wor			
		Adopted by Cladwin Board of Commissioners: 9-28-200	7 Effective Date: 11-1-2007		

Adopted by Gladwin Board of Commissioners: 9-28-2007 ... Effective Date: 11-1-2007 Revision Approved by Gladwin Board of Commissioners: 12-10-2013 ... Effective Date: 1-1-2014 Revision by ordinance approved by Gladwin Board of Commissioners: 04-22-2019 Effective Date: 4-22-2019

Gladwin Conservation District 750 M-18, Gladwin, MI 48624 PERMIT APPLICATION

For Part 91

SOIL EROSION AND SEDIMENTATION CONTROL

1. APPLICAN	nd Owner		gnated Agent					of Birth	
Address							Drive	Drivers License #	
City State			Ī	Zip Code Pt		Phon	hone Number		
1. LOCATION					-		X		
Section Town	Range	Township	City / Village		e County				
Subdivision	+ <u> </u>	Lot No.	Tax ID Number	r		Street Address			
2. PROPOSED									
Project type:	Resident	ial LM	lulti-family		mmercial	Industrial			ancing / Mining
Describe Project									f Earth Change or square feet)
Name and distance to Nea	arest Lake, S	Stream or Drain				Date project to	start	Date p	roject to be completed
3. SOIL EROS	ION AN	ND SEDIM	IENTATIO	N CON	NTROL PI	LAN (Refer	to Rule	323.170	03)
						st for Soil Erosion			
Note: 2 Complet	ted sets	of plans n	nust be attac	ched	Plan Preparer	rs Name and Telep	bhone Numbe	er	
A. PARTIES R. Name of Land Owner (if			OR EARTH	CHAN	Address				
City		State	Zi	ip Code		Area code/Tele	phone Numb	er	
Name of Individual "On S	dual "On Site" Responsible for Earth Change Company Name								
Address			City		State	Zip Code	Area co	de/Teleph	one Number
5. PERFORMA	NCE I	DEPOSIT	(If required)	by the r	ermitting	genc y)			
Amount Required \$				tified Ch		ocable Letter o	of Credit	Suret	y Bond
Name of Surety Con	npany								
Address			City		State	Ziµ Code		Area Code	/Telephone Number
(we) affirm that the Part 91, Soil Erosion mended, applicable	and Sedi	mentation Co	ontrol, of the 1	Natural R	esources and	Environmenta			
Landowner's Signature	IOCAI OIU	mances, allu	the documents	accomp	Print Name				Date
Designated Agent's Signa	iture*				Print Name				Date

*Designated agent must have a written statement from the landowner authorizing him/her to secure a permit in the landowner's name.

	N	NT/A	⊿ SITE PLAN CHCKLIST	
Have	Need	N/A	FOR SOIL EROSION PERMITS	
			Drawing must be to scale (map scale:1"=200' or less)	
			Site location map showing nearest road intersection	
			Legal description of property (i.e. T12N R4W Section 17 NW ¼, NE ¼.)	
			Location and size of each proposed earth change (clearly defined ON DRAWING)	
			Location and size of all temporary soil stockpiles	
			Major geographic and vegetation features	
Location and size of all tree lines and forested areas Location and size of all existing buildings and structures Soil information (on drawing or in written form)		Location and size of all tree lines and forested areas		
		Location and size of all existing buildings and structures		
			Soil information (on drawing or in written form)	
		Distance to nearest water body (lake, stream, river, county drain, wetla		
			each proposed earth change.	
			Location of all existing and proposed drainage and dewatering facilities	
			Slope information or topography	
			Location and detailed description of all TEMPORARY erosion and	
			sedimentation control measures (shown on drawing)	
			Location and detailed description of all PERMANENT erosion and sedimentation	
			control measures (shown on drawing)	
			Maintenance program for erosion and sedimentation control measures (including person responsible)	
			Timing and sequence of construction (construction schedule)	

PLEASE INCLUDE THIS PAGE WITH SESC PLANS.

TYPE OF EARTH CHANGE

single family residence (addition/alteration) commercial/industrial (add./alt.) pipeline garage (addition or detached) residential development (subdivision, multi-family) utility pole barn recreation development school/church pool (in ground) golf course hospital pond other	garage (addition or detached) pole barn pool (in ground)	residential development (subdivision, multi-family)	utility school/church hospital
--	--	---	--------------------------------------

ADDITIONAL EARTH CHANGE INFORMATION

Has earth-moving activity started?	Yes 🗌	No
Is the earth-moving activity over 1 acre?	Yes	No
Will the work be occurring in a wetland?	Yes	No if yes, contact MDEQ
Will de-watering occur?	Yes	No
Will work be occurring in a waterway/floodplain?	Yes 🗖	No if yes, contact MDEQ
Will a designated county drain be affected?	Yes 🗌	No if yes, contact Gladwin County Drain Office
Will fill be brought on site?	Yes 🗌	No Amount in cubic yards
Will material be removed from site?	Yes 🔄	No Amount in cubic yards

APPROXIMATE PROJECT TIMING (Month/Year)

MINOR PROJECTS

- ____/___ Temporary Erosion Control Measures installed
- ___/__ Gravel Drive/Entrance Installed
- ___/__ Land Cleared or Excavation Started
- ___/__ Final Grade / Seeding
- ___/__ Permanent Erosion Measures in Place
- ___/___ Temporary Erosion Measures Removed

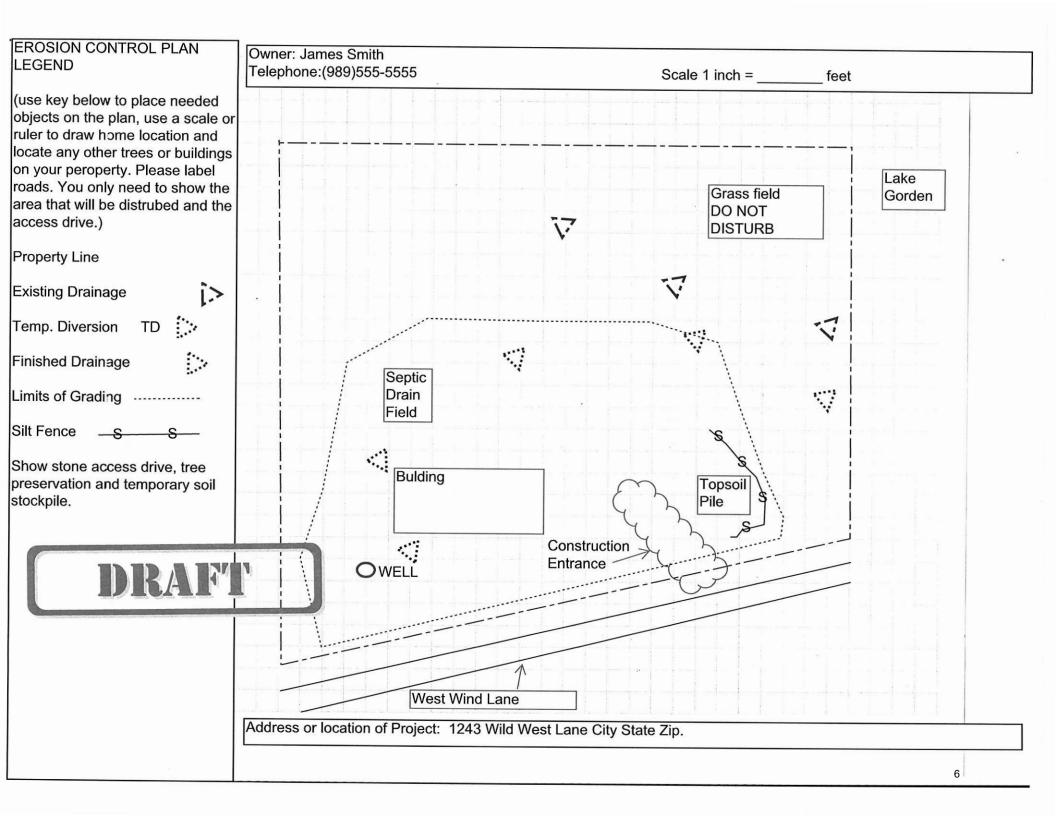
MAJOR PROJECTS

- ____/___ Temporary Erosion Control Measures installed
- ___/__ Gravel Drive/Entrance Installed
- ___/__ Land Cleared or Excavation Started
- ___/__ Detention/Retention /Sediment Ponds Installed
- ___/__ Road Construction
- ___/__ Utilities Installed
- ____/___ Final Grade / Seeding
- ___/__ Catch Basins/Ponds Cleaned
- ____/ Permanent Erosion Measures in Place
- ___/___ Temporary Erosion Measures Removed

Send Form To: Gladwin Conservation District 750 M-18 Gladwin, MI 48624

> Phone: 989-256-3147 Mobile: 989-701-9292

Email: Tristan.Hewitt@macd.org



EROSION CONTROL PLAN	Owner: Telephone:()	Scale 1 inch =	_feet
(use key below to place needed objects on the plan, use a scale or ruler to draw home location and locate any other trees or buildings			
on your peroperty. Please label roads. You only need to show the area that will be distrubed and the access drive.)			
Property Line			
Existing Drainage			
Temp. Diversion TD			
Finished Drainage			
Limits of Grading			
Silt Fence <u></u>			
Show stone access drive, tree preservation and temporary soil stockpile.			
	Address or location of Project:		7

Frequently Asked Questions about Soil Erosion Permits

Do I need a Soil Erosion Sedimentation Control permit?

Soil erosion permits are required for all projects involving earth moving activities that occur within 500 feet of lakes, streams, drains and water impoundments and disturb more than 225 square feet or disturb one or more acres. Soil Erosion exemptions are allowed for those projects that:

- Disturb less than 225 square feet and are stabilized within 24 hours
- Include only post holes for decks
- Include only borings and percolation tests when stabilized within 24 hours of the initial earth change and disturb less than 225 square feet

There's no water on my site, why do I need a permit?

Proximity to drainage ditches, drainage swales, catch basins, detention or retention basins, wetlands, and designated drains must be taken into account. These may appear dry for much of the year, but all serve a vital role in the conveyance of surface water, and can carry sediment into larger bodies of water.

What is the definition of a body of water?

A lake is defined as "the Great Lakes and all natural and artificial inland lakes or impounds that have definite banks, a bed, visible evidence of continued water, and a surface area of water that is equal to, or greater than 1 acre". A stream means "a river, creek, or other surface watercourse 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 281.1 et seq. of the Michigan Complied 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".

How do I complete the timing sequence?

The timing sequence gives us a general idea of when your project will begin and when it will be finished. It also lays out a sequence of steps to follow for erosion control. Temporary measures, such as silt fence, check dams, or vegetative buffers should be installed at the beginning of the project. A stone aggregate drive should also be installed at the start of construction. Permanent measures, such as grass, shrubs, pavement or other vegetation should be installed as soon as possible after final grading. Removal of temporary measures should be done after the site is completely stabilized. For major projects please note in determining a timing sequence, detention/retention/sediment pond installation should occur at the beginning of a project and that catch basin covers should be cleaned at least once a month until permanent measures are functioning.

How big is an acre?

One acre is 43,560 square feet, or 208' x 208' if square. Determine from your plans the areas where earthwork will occur and measure the areas length and width. Remember to include area for utilities, well, septic, fill brought in, lot grading, building structures and driveways.

What are impervious surfaces?

Impervious surfaces are areas that do not absorb rainfall, such as areas covered by pavement or structures. Pervious surfaces are areas that do absorb rainfall such as vegetated ground, woodlots and grasslands.

Who is the party responsible for ongoing maintenance of permanent erosion control measures?

The responsible party is the property owner and/or homeowners association for commonly held properties. Examples of permanent erosion control measures that may require maintenance are vegetation strips and storm water detention/retention areas.

- Include only shrub and tree removal when no vegetation is disturbed
- Include only the plowing and tilling of fields for crop production

Goal

The purpose of the Soil Erosion and Sedimentation Control Program is to serve the public by protecting the waters of the State of Michigan, and to ensure clean water for drinking, swimming, fish and wildlife habitat.

Why is Soil Erosion and Sedimentation Control Important?

Economic Reasons

- Excess sediment can increase the cost of treating drinking water and negatively affect the equipment used in the treatment process.
- Sites developed with sound erosion control avoid the costs of removing sediment from storm water structures. Clean sites are also more appealing to potential buyers.

Health & Safety Reasons

- Eroded soils enter water bodies and channels, raising water levels and blocking culverts, flooding surrounding land.
- Sediment can be deposited onto streets and roads by vehicles leaving the site or by storm water runoff. These sediments can make roadways dangerous.
- Soil particles carry pollutants such as pesticides, oil and herbicides, that enter water bodies along with the soil, creating unhealthy conditions for wading and swimming, and affecting water quality.

Environmental Reasons

- Sediment in water bodies can cover the eggs of fish and other organisms, preventing them from hatching.
- Excess sediment that is suspended in streams and rivers acts like sandpaper on fish and other organisms and can clog their gills, making breathing difficult.
- Sediment reduces light penetration, making photosynthesis more difficult for water plants.
- Soil particles absorb heat, raising the temperature of the water and driving off desirable fish populations.

Aesthetic & Recreational Reasons

- Clear water is more desirable for swimming, boating, canoeing and fishing than muddy water.
- Excess sediment builds up in lakes and rivers. This raises the water level but reduces water depth, which decreases canoeing and fishing opportunities.

Soil Erosion Control Requirements

- Earth moving activity can not begin without a Soil Erosion Permit. The Soil Erosion Permit must be posted and be clearly
 visible from the road.
- Soil erosion and sedimentation control measures as designated on plans and/or as required must be installed prior to any earth moving activities.
- Earth changes to a property must not adversely affect drainage to surrounding areas.
- · Detention/retention/sedimentation ponds must be constructed and stabilized prior to other earth moving activities.
- Outlets of detention/retention/sedimentation ponds shall be designed and constructed to reduce the water flow to a nonerosive velocity. Rip-rap must be installed on all storm water outlets.
- All earth moving shall be designed, constructed and completed in such a manner that limits the exposed area of any disturbed land for the shortest possible period of time. The site must be stabilized within 5 calendar days after final grading or earth moving activity has been completed.
- Stone access drives, if required, must be installed prior to construction for purposes of mud tracking.
- Soil, sediment, and miscellaneous debris must be kept off streets and out of drainage ditches and catch basins throughout the duration of the project.
- Silt fencing, if required, must be trenched in and backfilled. Fencing may be toed-in with pea gravel if installed in winter.
- Stockpiling of any excavated material must be kept clear of sensitive areas. Adequate controls must be in place to ensure this
 requirement.
- Erosion control blankets are required on slopes of 4:1 or steeper.
- All permanent erosion control measures shall be permanently maintained by the owner or homeowner association.

Soil Erosion and Sedimentation Control Measures

DETENTION/RETENTION BASIN Drainage basins or ponds designed to hold and filter water draining from developed site so as to prevent flooding and filter suspended sediment from water. Required for most major projects.

EROSION CONTROL BLANKET A blanket composed of a mesh of biodegradable material, usually interlaced with straw mulch, and sometimes containing grass seed, used for controlling erosion on steep downslopes. Erosion Control Blankets must be staked in, trenched in at the top and flat against the ground.

VEGETATIVE BUFFER A strip or area of vegetation used to filter sediment and pollutants from runoff. The minimum width for a filter strip is usually 25'.

Methods of Acceptable Stabilization of Disturbed Soils

The best way to avoid soil erosion is to disturb the least possible amount of soil during grading and construction. If erosion control measures are not functioning properly, causing erosion to occur on the site, the site will not be considered stabilized.

MAINTENANCE IS THE KEY TO PROPER SOIL EROSION CONTROL!

Temporary Stabilization - These measures will temporarily prevent soil erosion.

 <u>Mulch</u> - This typically is in the form of straw, spread heavily over a disturbed area to protect the exposed soil from rain and wind erosion. For proper stabilization, the soil must not be visible through the mulch. Mulch should be used: In flat areas with a low amount of water runoff, and/or in areas with adequate protection from high winds

High velocities of run-off will wash away mulch on moderate to steep slopes. High winds can also carry mulch away. Spreading seed prior to mulching greatly aids in the permanent stabilization of the site.

- 2) <u>Erosion Blankets</u> Consist of straw, coconut fiber or excelsior fiber packed in web netting. Erosion control blankets are suitable for moderate slopes and steep slopes on sites with soil that is susceptible to erosion. The blankets are laid at right angles over a disturbed area, staked in place, and toed in at the top of the slope, with a 6-inch overlap of all edges. Blankets are also available with seed in them to enhance permanent stabilization of the slope. If rills (narrow-bands) and gullies (wide-bands) are eroding underneath the blankets, the soil will not be considered stabilized.
- 3) <u>Hydro Seed</u>.- Hydro seed may be used as temporary stabilization on relatively flat areas with low volume of runoff. Hydro seed can wash away easily in heavy rains. It is recommended that hydro seed with a high content of mulch be used to provide a better barrier between the weather and the soil. If cared for properly, hydro seed will grow, stabilize the site, and provide permanent stabilization.
- 4) Tarps These are plastic sheets used to cover stockpiles or small disturbances. They may not be used for large disturbances.

Permanent Stabilization - These measures will permanently prevent soil erosion when they are functioning properly. When all exposed soil at a site is permanently stabilized, the project will receive final approval from the Soil Erosion and Sedimentation Control Program.

- Established Vegetative Cover Any form of vegetation that provides a root base in the soil and a barrier between the soil and the weather can be considered permanent stabilization. Forms of acceptable vegetative cover when properly installed and maintained are sod, grass, native trees, shrubs and ground cover.
- <u>Woodchips</u> As part of landscaping a thick layer of wood chips or other "permanent" mulch is acceptable in nonsloped areas.
- Stone A thick layer of stone is considered permanent stabilization on all areas except steep slopes. This includes gravel drives, stone gardens, and pavers used for foot traffic. Geotextile fabric placed underneath stone in swales and drives is advisable.
- 4) Pavement Roads or driveways are considered permanent stabilization.

Gladwin County Soil Erosion And Sedimentation Control AFFIDAVIT

I,	, am doing a construction proje	ct at
(Printed Name of Property Owner or Contract	or)	
	, in Section #	of
(Address)		
	_ Township, which is within 500 feet	of the water's edge of
(Lake or Stream)		
Please provide us a brief description	of your project:	
The earth change for this project wi	ll: (Check one or both)	
Disturb less than 225 squar stream	re feet and will not contribute sedim	ent to the lake or
Be of a minor nature that is and will not contribute sediment to	s stabilized within 24 hours of the in the lake or stream	itial earth disturbance

(Signature of Landowner or Contractor)

(Date)

Gladwin County Soil Erosion and Sedimentation Control Letter of Authorization

EFFECTIVE IMMEDIATELY, the State of Michigan requires each authorized agent applying for a Soil Erosion Permit on behalf of another person to include a statement authorizing him/her to secure the permit. Please have the landowner complete this Letter of Authorization to be submitted with the application.

(Printed Name of Designated Agent)

is authorized to secure a Soil Erosion Permit in my

name for a project requiring said permit at:

(Address of Project Location)

Printed Name of Landowner

Signature of Landowner

Date

Signature of Designated Agent

Date