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11930 Cyrus Way, Mukilteo, WA 98275
(425) 263-8000
mukilteowa.gov

SOIL MANAGEMENT PLAN WORKSHEET

Site Address: 4206 78th Street SW, Mukilteo WA, 98275

Permit Number: _____

REQUIRED ATTACHMENTS

- _____ 3 original scaled site plans, as a separate sheet in Civil set, showing soil management option(s) for:
 - Lawn / Turf Areas (with square footage shown)
 - Planting Bed Areas (with square footage shown)
 - Show on SWPPP where soil will be left undisturbed and protected during construction and/or where stockpile locations will be
- _____ Soil test results (if proposing custom amendment rates).

LAWN / TURF AREAS

TOTAL LAWN / TURF AREAS Sq. Ft. <u>NONE</u>			
SELECT TREATMENT*	_____ Pre-approved compost amendment 1.75" minimum required	_____ Custom compost amendment** _____ inches (attach soils tests and calculations)	_____ Topsoil import 8" minimum required
DETERMINE COMPOST/ TOPSOIL QUANTITY	_____ inches compost / topsoil to be applied (as selected above) <u>X 3.1</u> _____ = cubic yards / 1,000 sq. ft. X _____,000s sq. ft. (Total Lawn / Turf Areas above) _____ = TOTAL CUBIC YARDS		

PLANTING BED AREAS

TOTAL PLANTING BED AREAS Sq. Ft. <u>NONE</u>			
SELECT TREATMENT*	_____ Pre-approved compost amendment 1.75" minimum required	_____ Custom compost amendment** _____ inches (attach soils tests and calculations)	_____ Topsoil import _____ 8" minimum required
DETERMINE COMPOST/ TOPSOIL QUANTITY	_____ inches compost / topsoil to be applied (as selected above) <u>X 3.1</u> _____ = cubic yards / 1,000 sq. ft. X _____,000s sq. ft. (Total Lawn/Turf Areas above) _____ = TOTAL CUBIC YARDS		
MULCH QUANTITY	_____ inches mulch to be applied (minimum 2") <u>X 3.1</u> _____ = cubic yards / 1,000 sq. ft. X _____,000s sq. ft. _____ = TOTAL CUBIC YARDS		

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*For previously graded sites, soils shall require custom amendment or topsoil import.

TOTAL SOIL CALCULATIONS FOR ENTIRE SITE

Pre-Approved Compost Amendment	Quantity: _____ cu. yds.
Specific product and supplier _____	
Custom Compost Amendment**	Quantity: _____ cu. yds.
Test Results Required to be Attached	
Specific product and supplier _____	
Mulch	Quantity: _____ cu. yds.
Specific product and supplier _____	

1. Pre-Approved Compost Amendment must:
 - a. Meet the definition for “composted materials” in WAC 173-350, section 220;
 - b. Have organic matter content of 35%-65%, and a carbon to nitrogen ratio below 25:1;
 - c. The carbon to nitrogen ratio may be as high as 35:1, if plantings are entirely native to Puget Sound lowland regions.
2. Custom compost amendment calculations must be provided by a qualified professional to meet organic content requirements. Qualified professionals include licensed Landscape Architects, Civil Engineers or Geologists; certified Agronomists, Soil Scientists, or Crop Advisors.

RETAIN YOUR RECEIPTS

Keep your receipts for all imported soils and mulch. You will be required to verify material type and quantity prior to Permit Final.



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HOW TO DEVELOP A SOIL MANAGEMENT PLAN

HOW TO DETERMINE SOIL AMENDMENT, TOPSOIL AND MULCH NEEDS

These specifications are designed to achieve the required 8 inch depth of soil with 10% “Soil Organic Matter” (SOM) content in planting beds, and 5% organic content in lawn/turf areas.

STEP 1. Review site conditions, landscape and grading plans.

Determine if subsoil can be easily amended or if compaction will require subsoil plowing or topsoil import. Identify areas that can be left undisturbed, and where soil can be stockpiled, amended and reapplied after grading. Compacted subsoils must be scarified before applying amendments or topsoil.

STEP 2. Select a soil management option for each planting area.

Choose soil management options from the chart below for each landscape area within your proposed area of disturbance. You can use more than one option on a site!

STEP 3. Calculate compost and/or topsoil volumes for each area.

Use the formulas on the Soil Management Plan Worksheet to calculate the cubic yards of compost, topsoil and mulch needed.

STEP 4. Identify compost and/or topsoil to be applied and retain records.

Compost used as amendment or in topsoil mixes must be **weed-free** and supplied by a permitted composting facility (see list of [compost facilities at https://ecology.wa.gov/Waste-Toxics/Reducing-recycling-waste/Organic-materials/Managing-organics-compost](https://ecology.wa.gov/Waste-Toxics/Reducing-recycling-waste/Organic-materials/Managing-organics-compost)). Include name of product and supplier in “**Total Soil Calculations For Entire Site**” on the Soil Management Plan Worksheet.

STEP 5. Turn in completed Soil Management Plan Worksheet with Site Plan for review and approval.



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Soil Management Options	Soil Management Specifications		
	Using pre-approved amendment rates		Using Custom Amendment Rates*
	Lawn/Turf	Planting Beds	Lawn/Turf or Planting Beds
Option 1 Leave native soil undisturbed, protect from compaction.	Not applicable – Undisturbed native soils do not require soil amendment	Not applicable – Undisturbed native soils do not require soil amendment	Not applicable – Undisturbed native soils do not require soil amendment
Soils that have been cleared and graded, and not covered by hard surfaces or developed as storm water structures, must be restored to 8 inches settled depth, using one of the following 3 options:			
Option 2 Scarify to depth yielding 12” uncompacted soils. Amend soil in place.	Rototill 1.75 inches of compost into 6.25 inches soil (9.5” unsettled; 8” settled depth)	Rototill 3 inches of compost into 5 inches of soil (9.5” unsettled; 8” settled depth)	Test soils for organic content. Applicant shall provide soil calculations Rototill calculated amount of compost to achieve 8 inches of settled soil depth, at 5% organic for lawn/turf and 10% organic for planting beds.
Option 3 Stockpile site soil and cover with weed barrier. Scarify to depth yielding 12” uncompacted soils. Reapply, and amend in place.	Reapply stockpiled soil. Rototill 1.75 inches of compost into 6.25 inches soil (9.5” unsettled; 8” settled depth)	Reapply stockpiled soil. Rototill 3 inches of compost into 6.25 inches soil (9.5” unsettled; 8” settled depth)	Reapply stockpiled soil. Rototill calculated amount of compost to achieve 8 inches of settled soil depth, at 5% organic for lawn/turf and 10% organic for planting beds. Applicant shall provide soil calculations
Option 4 Scarify to 6” depth. Import topsoil containing adequate organic amendment.	Topsoil must be 5% organic matter (~25% compost). Soil portion is sand or sandy loam as defined by USDA. Place 3” topsoil on surface and till into 2” soil. Place second lift of 3” topsoil and mix on surface.	Topsoil must be 10% organic matter (~40% compost). Soil portion is sand or sandy loam as defined by USDA. Place 3” topsoil on surface and till into 2” soil. Place 3” topsoil on surface and till into 2” soil. Place second lift of 3” topsoil, mix on surface.	Not applicable