SIMPLIFIED APPROACH FORM

PROJECT INFORMATION WORKSHEET

	PROJECT INFOR	MATION			
	Permit Number:		Phone:		
	Name:		Email:		
Stormwater	Site Address/R Number(s):				
Management Manual	Development Description:				
	Total New or Redevelop	oed Impervious Area:			
	Signature:		Date:		
	CTERISTICS		Required Infiltration Testing		
		Date of Test:			
S.1. Do slopes exceed 20% anywhere within the project area?		🗌 Yes 🔲 No	Depth of Excavation (ft):		

S. 2. Are there springs, seeps, or a high groundwater table anywhere within the project area?

If answer to S.1 or S.2 is yes, than lined or partial infiltration facility with an overflow to an approvable discharge point is required.

S.3.	Is there a required geotechnical report?	🗌 Yes	🗌 No
S.4.	Required infiltration testing complete?	🗌 Yes	🗌 No

If using prior test results at same site,

provide Land Use case/permit number:___

SIMPLIFIED INFILTRATION TESTING PROCEDURE

The Simplified Approach provides a method that a nonprofessional can use for design of simple stormwater systems on small projects. A geotechnical report or different infiltration test may be required at the discretion of the assigned BES plan reviewer. See Section 2.3.6 for infiltration testing requirements.

Test instructions:

- 1. Conduct test in and/or near location of proposed infiltration facility.
- 2. Excavate a test hole a minimum of 16" in depth, or to the bottom of the proposed infiltration system, whichever is greater. If a hard pan layer is encountered that prevents further excavation, or if noticeable moisture/water is encountered in the soil, stop and measure this depth and note it on the SIM form. If further excavation is not possible, conduct the test at this depth.
- 3. Fill the hole with water to a depth of at least 6" from the bottom of the hole. Record the amount of time required for the water to draw down to the bottom of the test pit. Check the water level at regular intervals to ensure accurate data collection.
- 4. Repeat the process two more times for a total of 3 rounds of testing. Conduct the tests in succession to accurately portray the soil's ability to infiltrate at different levels of saturation. The 3rd test provides the best measure of the infiltration rate at saturated conditions.
- 5. Record infiltration test data in the table at left and certify the results.

•		•				
Date of Test:						
Depth of Excavation (ft):						
	TEST 1	TEST 2	TEST 3			
A. Time (of day)						
B. Duration (hours) (1 hour minimum)						
C. Initial Water Depth (inches)						
D. Final Water Depth (inches)						
E. Infiltration Rate* (inches/hour)						

*Infiltration Rate = Initial Depth (in) - Final Depth (in) / Duration of Test (hours)

Test pit location (site plan sketch)

Key information to include: 1) Site or parcel, 2) Adjacent road(s) or cross street(s), 3) Test pit location with dimensions



Certification of Infiltration Results (required)

I acknowledge the accuracy of these infiltration testing results.

Signature of tester (required)

Print Name

Date

SIMPLIFIED APPROACH FORM

PROPOSED STORMWATER FACILITIES

Proposed Stormwater Facilities

Please note: Each individual taxlot is required to manage the stormwater runoff it generates from new construction or redevelopment on the same lot to the maximum extent feasible. The following table includes accepted simplified stormwater management facilities as described in Chapter 2 of the 2016 Stormwater Management Manual. Copies of the manual are available online at **www.portlandoregon.gov/bes/swmm**.

	STORMWATER FACILITY TYPE	TOTAL AREA MANAGED BY FACILITY TYPE (SF)	FACILITY SIZING FORMULA	FACILITY SIZE (SF)	
	Tree Credit		Complete Tree Credit Worksheet and attach	n/a	
IMPERVIO AREA REDUCT TECHNIC	Ecoroof		1:1 ratio only	n/a	
	Pervious Pavement		1:1 ratio only	n/a	
SURFACE INFILTRATION OR FILTRATION	Downspout Extension		Area x 0.10		
	Rain Garden		Area x 0.10		
	Basin		Area x 0.09		
	Swale		Area x 0.09		
	Planter		Area x 0.06		
	Filter Strip (paved areas only)		Area x 0.20		
SUBSURFACE DISPOSAL UIC	Soakage Trench		Westside soakage trench no longer an option under the simplified approach. Only a single soakage trench sizing possible. See below for sizing information.		
	Drywell		Enter drywell type and quantity for facility size. See below for sizing information.		
TOTAL IMPERVIOUS AREA MANAGED			Total Impervious Area Managed must match Total New or Redeveloped Impervious Area. Site plans must identify stormwater facility location, drainage areas, overflows and escape routes.		

Subsurface facilities can receive overflow from impervious area reduction techniques or surface infiltration/filtration facilities or can be used independently to manage runoff. If stormwater is generated from anything other than roof area, stormwater facilities are subject to UIC requirements (see Chapter 1 for UIC requirements).

Sizing Charts:

DRYWELL TYPE	AREA MANAGED	SOAKAGE	LENGTH PER			
2'x2' mini drywell	Up to 500 sf	TRENCH	1,000 SF OF IA	WIDTH	DEPTH	SIZING
28"x5'	Up to 1,000 sf	Soakage Trench	20'	2.5'	1.5'	AREA x 0.05
4'x5'	Up to 3,000 sf					
4′x10'	Up to 6,000 sf					